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Geotechnical & Geoenvironmental Specialists

Phase 1 Desk Study Report

Site: Aneurin Labour Club, Caerphilly

Prepared For: Castell Group Limited

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Executive Summary

Site Location and Proposed Development	*Castell Group Limited (the Client) is proposing a residential development at Aneurin Labour Club, Heol Aneurin, Caerphilly, CF83 2PG. The development comprises the demolition of existing buildings and the construction of two blocks of flats with a total of 48 homes with associated car parking and areas of hard and soft landscaping.* *The development site is irregular in shape and centres on an approximate National Grid Reference of 322380, 191660, occupying a plan area of approximately 0.98 Hectares.*
Site History	*The earliest historic map, circa 1875-1878, shows an old coal shaft in the northern corner of the site. The southern end of the Old Mill Dam extends into the northern corner of the site. The Old Mill Dam has been infilled by 1920. By 1970 a club and bungalow has been built on the eastern half of the site. The club was extended in 1975 and is now Aneurin Labour Club. The site has remained unchanged to this day.*
Geology	*The British Geological Maps of the area (Sheet 249, ST18NW, Glamgoan29SW) were consulted for geology underlying the site. The site is shown to be underlain by siltstone and mudstone rock of the Grovesend Formation.* *Superficial deposits are recorded as Devensian Glaciofluvial Deposits.* *Made ground is anticipated at the site associated with the construction of the existing building.* *The Mynyddislwyn Coal seam is located 135m west of the site, the seam is 3 foot 4 inches in thickness.*
Radon	***No*** *radon protective measures are required for new developments on the investigation site.*
Coal Mining Risk Assessment	*The overall risk to the surface stability of the site from possible unrecorded workings is considered high.* *It is determined the site is at high risk of mine gas and a detailed mine gas risk assessment is required.*
Preliminary Human Health and Environmental Risks	*The Human Health and Environmental Risk assessment has not identified significant potentially contaminative former land uses. However, made ground is anticipated on the site from the current development.* *The infilled land and water within 250m of the site is a potential source of ground gas.* *To quantify these risks, it is recommended that an intrusive site investigation is undertaken.*
Tentative Foundation Solution	*At this stage and due to the potential for mining legacy features below the site it is considered, after stabilisation of any identified features, that reinforced concrete strip or raft foundations will be suitable for the proposed structures. These should be founded within the competent granular deposits.* *The foundations should be designed to span a nominal crown hole of 3.00m with a cantilever effect on corners of 1.50m.* *It is likely that an allowable bearing pressure of 100kN/m2 for reinforced strips.* *Floor slabs may be designed as suspended.* *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.* *The proposed development is blocks of flats and the above allowable bearing pressure may not be sufficient, therefore a piled foundation solution should be used.*
Recommended Site Investigation	*An intrusive site investigation designed and justified in accordance with guidance provided in BS10175:2011+A2:2017 and BS5930:2015 should be undertaken to achieve the following objectives:* • *Identify the potential environmental liabilities at the site associated with any soil and groundwater contamination from past site uses, to substantiate and enhance the conceptual site model, for a commercial scenario.* • *Provide a summary of the environmental conditions at the site, together with any necessary remediation works to render the site fit for its intended use.* • *Provide recommendations regarding any relevant geotechnical aspects pertaining to the development including past mining.* • *Locate the shaft reported to be on site and confirm diameter and depth and if any shallow workings originate from this feature.* *The investigation is likely to comprise a combination of trial pitting / windowless sampling and rotary drilling. The investigation should also include the collection of samples for laboratory analysis, soakaway testing and installation of gas monitoring points.*

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SECTION 1 Introduction and Proposed Development

1.1 Introduction

Castell Group Limited (the Client) is proposing a residential development at Aneurin Labour Club, Heol Aneurin, Caerphilly, CF83 2PG. The development comprises the demolition of existing buildings and the construction of two blocks of flats with a total of 48 homes with associated car parking areas of hard and soft landscaping. The proposed layout is presented below in **Figure 1.1**.

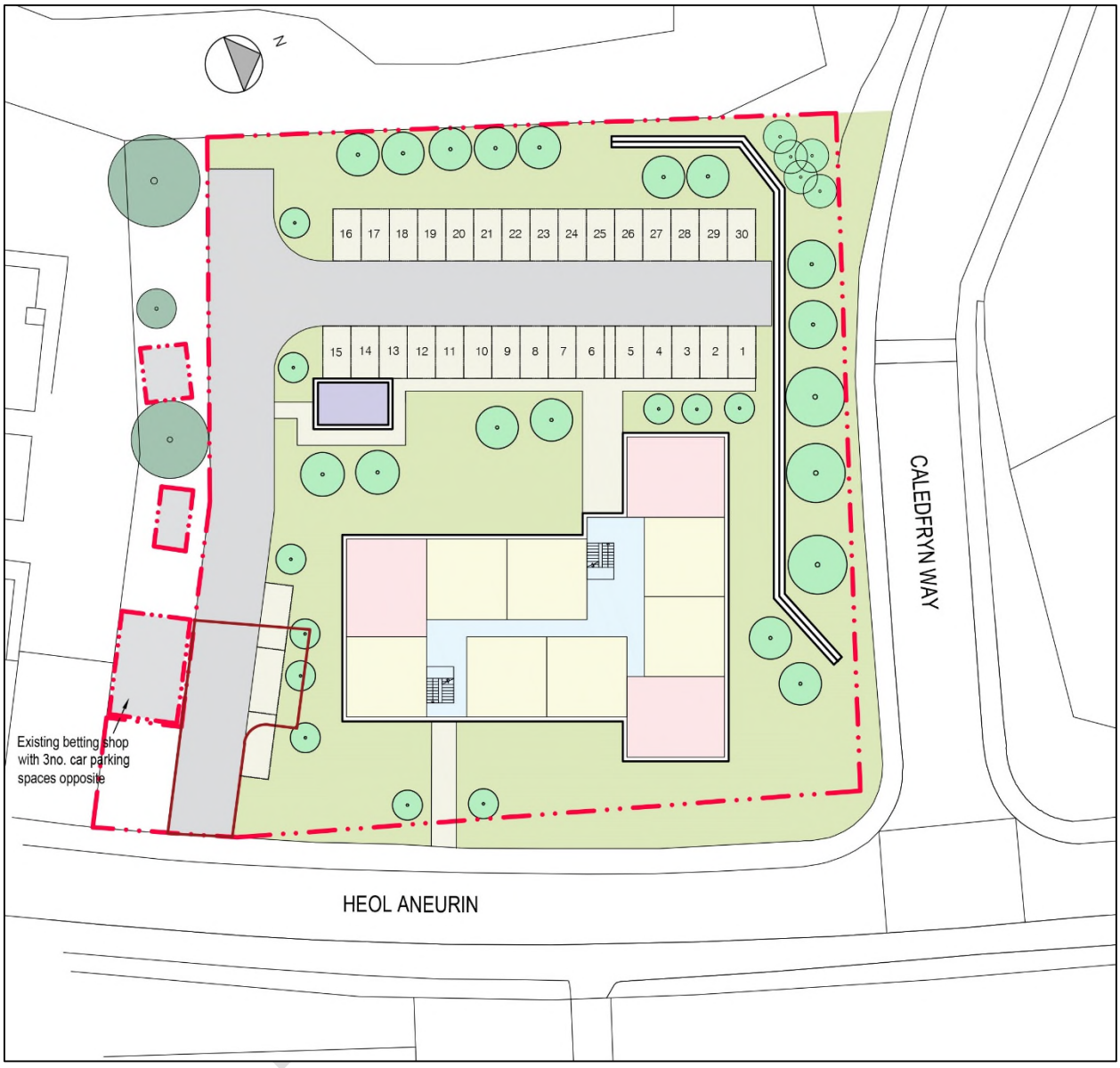

Figure 1.1 Proposed Site Layout (Red Boundary)

TFW Group Limited have been commissioned by the Client to undertake a Phase 1 desk study for the site.

The main objectives of the assessment programme are to:

- Provide information on past and current uses of the site and surrounding area.
- Provide information on the nature of any hazards and physical constraints, for example buried structures/obstructions.
- Provide information on the likely ground conditions beneath the site, including soil types, groundwater and if made ground is likely to be present.

- Identify the likely potential environmental liabilities at the site associated with any soil and groundwater contamination from past site uses.
- Identify if gas emissions either from the site or surrounding areas is likely to be present.
- Produce an initial site conceptual model of the site, to detail the nature and extent of potential contamination, its source, potential pathways and likely receptors (pollutant linkage).
- Prepare a human health and environmental risk assessment for the site.
- Provide information on the likely past underground mining for the site.
- Provide data to assist in the design of an intrusive site investigation and give early indications of possible remediation requirements.
- Provide tentative engineering foundation and floor slab recommendations for the proposed development.

In order to achieve the above objectives, TFW Group Limited conducted an assessment programme including a site walkover and a review of existing data.

1.2 Limitations and Exceptions of Investigation

The Client has requested that a Phase 1 Desk Study (DS) be undertaken to enable the outlined main objectives.

The DS was 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 TFW Group 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. TFW Group Limited does not provide legal advice and the advice of lawyers may be required.

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 development site is irregular in shape and locates Aneurin Labour Club, Heol Aneurin, Caerphilly, CF83 2PG. The site centres on an approximate National Grid Reference of 322380, 191660, occupying a plan area of approximately 0.98 Hectares.

Site boundaries are defined by Caledfryn Way to the north and Heol Aneurin to the east. The southern site boundary is largely defined by a metal fence, segregating the site from the adjacent Penyrheol Community Centre. The site's western boundary is vegetated with shrubs and juvenile trees, beyond which is disused open land.

All previous site buildings have been demolished. The site is surfaced with degraded tarmac and the concrete floor slabs of the former buildings, with a grassed/vegetated perimeter to the east and northeast.

Just inside the northern boundary a grassed and partially vegetated and wooded mound runs parallel to Caledfryn Way, raised above the level of the remainder of the site. To the east, the south facing mound slope is seen as remnant rumble material. To the west, a low brick & breeze block built wall or poor condition retains the slope face. This retaining wall continues southwards along the western boundary.

In the south of the site three existing structures are present, which are to be retained upon development. Facing Heol Aneurin is a single storey brick built betting shop. Centrally alongside the southern site boundary is a green Wales and West gas utility cabin. Further west and also alongside the southern boundary is a small single storey building of brick construction. The past use of this building is unknown.

The Nant Yr Aber is located 200m to the southwest.

The site elevation is approximately 124m AOD in the northwest sloping gently down to 120m AOD in the south.

The site location can be seen on **Figure 2.1**.

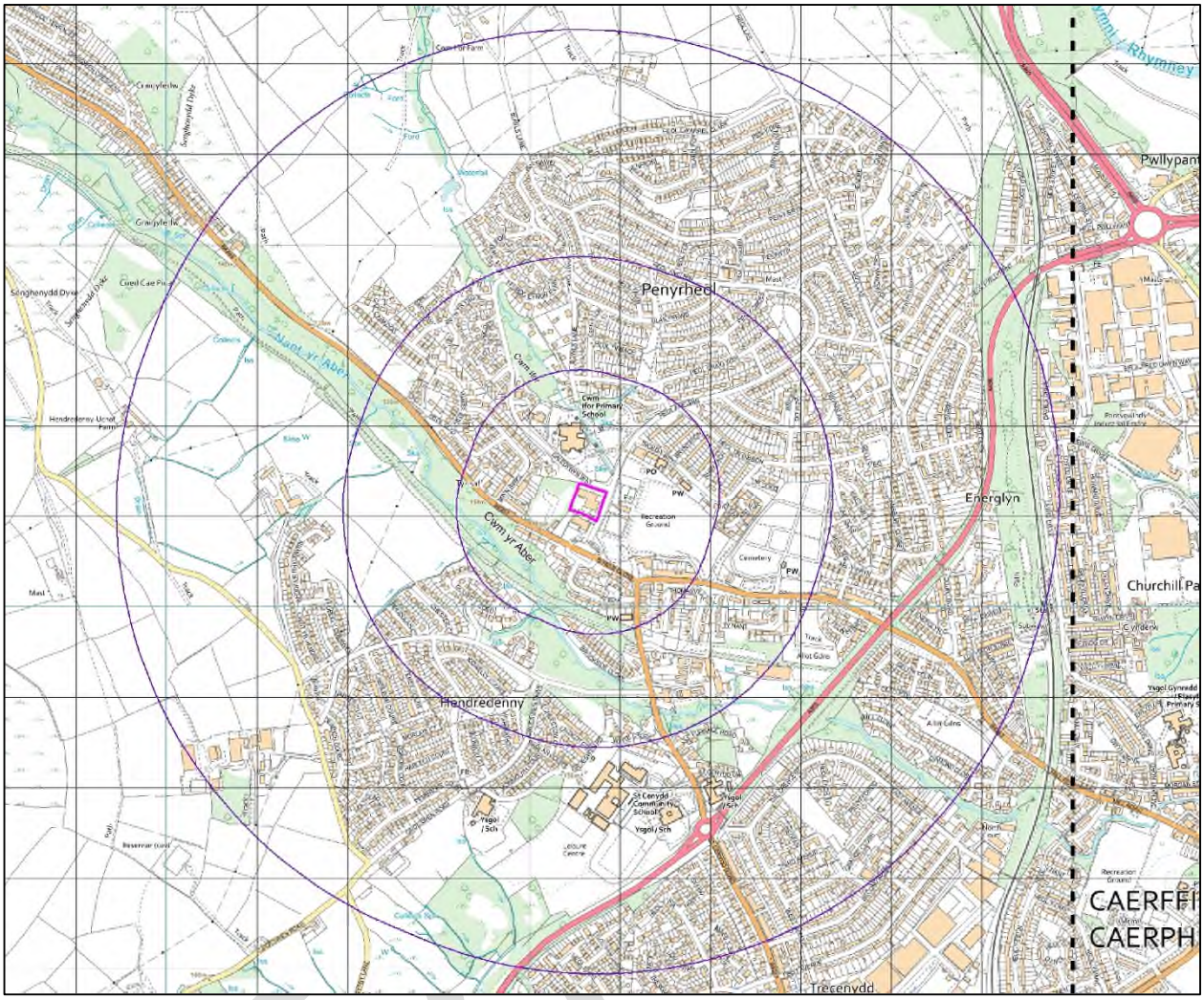

Figure 2.1 Site Location

2.2 Site History

Historical maps of the site 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 Site	Key Features off Site
1875-1878 1:2,500	There is an old coal shaft in the north westernern corner of the site. The southern end of the Old Mill Dam extends into the norther corner of the site.	The site is surrounded by agricultural fields. There are old shafts 60m to the west, 130m to the north and 110m to the west with and air shaft 95m northeast. There is an old coal level 150m to the south. A Quarry is located 130m north of the site. The surrounding area is dominated by field land, crossed by roads with localised residential properties. A stream, the Aber Brook, is located 150m to the southwest and it is shown to flow in a south easterly direction.
1885 1:10,560	No significant changes.	The Rhymney Railway has been built 250m south of the site.
1900 1:2,500	No significant changes.	The Quarry to the north has been extended to within 100m of the site.
1920 1:2,500	The Old Mill Dam on site has been infilled.	Allotment gardens and terrace housing has been built just over 100 southeast of the site. The area to the east is now identified as the Tir-Gibbon Colliery (Disused).
1937 1:2,500	No significant changes.	The allotment gardens have been extended north.
1947-1951 1:10,560	No significant changes.	No significant changes.
1961-1962 1:2,500	No significant changes.	A community centre has been built to the immediate south of the site and the T A Centre has been built to the immediate southwest. A Junior School has been built to the immediate north, partly in the old quarry. There has been residential development over 100m northeast and southeast of the site.
1970-1972 1:2,500	On the eastern half of the site a Club and a bungalow has been built.	The majority of allotment gardens have been replaced by a recreation ground and the eastern end of this has had a playground, tennis court and bowling green built on it. One of the T A Centre buildings is now a Depot with Tanks at the northern end. There has been residential development over 100m west of the site.
1975-1976 1:1,250	The Club on site has been extended and is now the Aneurin Labour Club.	Cwm Ifor Nursery School has been built 90m northwest of the site. the T A Centre is now Welland Buildings.
1982-1989 1:1,250	No significant changes.	No significant changes.
1993 1:1,250	The Club has been extended to the northwestern corner of the site and the Mine shaft is no longer illustrated.	No significant changes.
1999 1:10,000	No significant changes.	No significant changes.
2006 1:10,000	No significant changes.	No significant changes.
2024 1:10,000	No significant changes.	The Welland Buildings to the west have been demolished. The School to the north has been demolished and a new school built in its place.

2.3 Geological Setting

2.3.1 Geology

The British Geological Maps of the area (Sheet 249, ST18NW and Glamorgan 29 SW) were consulted for geology underlying the site. The site is shown to be underlain by siltstone and mudstone rocks of the Grovesend Formation.

Superficial deposits are recorded as Devensian Glaciofluvial Deposits.

Made ground is anticipated at the site associated with the construction of the existing building.

Detailed stratigraphical information is provided in **Table 2.2**.

Table 2.2 Detailed Stratigraphical Information

Age	Formation	Description
Quaternary	Devensian Glaciofluvial Deposits	Glaciofluvial deposits were deposited by meltwater streams. Includes mostly coarse-grained sediments (i.e. sand and gravel) with some finer-grained layers (i.e. clay and silt). Sand and gravel, locally with lenses of silt, clay or organic material.
Carboniferous	Grovesend Formation	Predominantly argillaceous, comprising mudstones and siltstones, with well developed coals; minor lithic ("Pennant") sandstones; locally developed red mudstones in the type area.

Strata are typically dipping 7º to the southeast in the local area.

The Mynyddislwyn Coal seam is located 155m north west of the site, the seam is 3 foot 4 inches in thickness. Given the dip, distance from the site, and topography of the area the anticipated depth of the coal seam has been estimated using trigonometry. On the western boundary the coal seam is estimated to be at a depth of 15m and 22m on the eastern boundary.

The generalised vertical section shows the Small Rider Coal Seam next in the sequence above the Mynyddislwyn. There are then four thin coals shown above the Small Rider before the Big Rider above that.

There are three faults in the local area trending northwest to southeast. The closest is 170m northeast of the site with the down through to the southwest. The Energlyn Fault is located 550m northeast with down through to the northeast. The Aber-Tridwr Fault is located 220m southwest with the down through to the northeast.

2.3.2 BGS Borehole Information

The BGS borehole closest to the site is located 45m northwest on an approximate National Grid Reference of 313910, 188320. The borehole, referenced ST18NW191, is summarised in Error! Reference source not found..

Table 2.3 BGS Borehole

Depth (m)			Stratum
0.00	-	0.25	MADE GROUND.
0.25	-	2.45	SAND and GRAVEL.
2.45	-	4.25	Boulder CLAY.
4.25	-	19.25	Dark grey occasionally dark green SANDSTONE. Driller indicates broken ground from 15m.
19.25	-	19.50	Dark grey SHALE locally grading to coal
19.50	-	20.25	Grey MUDSTONE
20.25	-	21.00	Broken gravel size fragments of coal, carboniferous shale and mudstone. Probable workings of the Mynyddislwyn Coal Seam
21.00	-	23.60	Dark Grey MUDSTONE/SEATEARTH.
23.60	-	24.20	Ligh grey SILTSTONE.
24.20	-	26.50	Dark Grey MUDSTONE.
26.50	-	27.25	Ligh grey SILTSTONE.
27.25	-	27.75	Dark grey MUDSTONE with fine interbeds of coal and traces of pyrite.

2.3.3 Radon

The Envirocheck Report (**Annex A**) details that **no** radon protective measures are required for new developments on the investigation site.

2.3.4 Mining

The site situates inside the South Wales coal fields.

Relevant BGS mineral sites as recorded in the Envirocheck Report datasheets (**Annex A**) are summaries in **Table 2.**.

Table 2.4 BGS Recorded Mineral Sites

Site Name	Distance/Direction	Type	Commodity
Ty-Isaf	On site	Underground	Coal - Deep
Ty-Isaf	104m East	Underground	Coal - Deep
Craig-Wen Cottage	118m North	Opencast	Sandstone
Bowls Inn	135m Southwest	Underground	Coal - Deep
Tir-Gibbon Colliery	154m East	Underground	Coal - Deep

Coal Authority Report records one historic underground mine beneath the site, this is summarised in **Table 2.**.

Table 2.5 Past Underground Mining

Colliery	Depth (m)	Seam	Extraction Thickness (cm)	Year Last Mined
Unnamed	78	Mynyddislwyn Lower Leaf	110	1870

The Pennyscallen Seam is recorded to outcrop on the site and an unnamed out crop is located 15.8m to the northwest.

There are no recorded spine roadways at shallow depth beneath the site.

There is a shaft in the northwestern corner of the site on the grid reference 313919, 188267. The shaft, reference 313188-001, is recorded to be 12.20m deep and 2.50m in diameter. There are shafts 45m to the west and 100m to the northeast.

There are no faults, fissures or breaklines recorded beneath the site.

There is no mine gas within 500m of the site boundary.

The Coal Authority Consultants Coal Mining Report is appended in (**Annex B**).

2.3.5 Natural Hazards

The Envirocheck details the following hazard potentials for the site.

Ground Dissolution:	No Hazard
Collapsible Ground:	Very Low Potential
Compressible Ground:	No Hazard
Landslide:	Very Low Potential
Running Sand:	Very Low Potential
Shrinking and Swelling Clays:	Very Low Potential

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

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

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 693m west, operated by Mr and Mrs E Morris.

2.4.2 Hydrology

The nearest surface water feature locates on offsite 42m to the northeast and comprises an inland river.

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

The dominant surface water feature in the area is the Nant Yr Aber which locates 185m southwest of the site. The river flows in a southeasterly direction.

2.4.3 Flooding

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

The site has potential for groundwater flooding to occur at the surface.

The site is not at risk from surface water flooding.

2.4.4 Waste

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

Discharge consents within 250m of the site are summaries in Error! Reference source not found..

Table 2.6 Discharge Contents Summary

Operator	Distance/Direction	Discharge Type	Status
Dwr Cymru Cyfyngedig	184m West	Sewage discharges: storm overflow	Effective

2.4.5 Pollution

One pollution incident is recorded to have occurred within 250m radius of the site. The incident occurred 226m north of the site on 16th October 1991. The incident severity was Category 2 – Significant Incident, with the pollutant being light oil.

2.4.6 Sensitive Land Use

The site is not located within a sensitive land use area, however there is an area of ancient woodland located 101m southwest.

2.4.7 Estimated Urban Soil Chemistry

The BGS have published estimated urban soil chemistry concentrations locally to the site for a number of common contaminants, i.e. arsenic, cadmium, chromium, lead and nickel. All of the given determinands have anticipated concentrations that are below the recognised trigger levels for a residential with plant uptake scenario.

2.4.8 Industrial Land Use

Relevant contemporary trade directory entries recorded within proximity of the site are summarised in **Table 2.**.

Table 2.7 Relevant Contemporary Trade Summary

Company	Distance/Direction	Classification	Status
Euro Fluid 88 Ltd	73m West	Hydraulic equipment sales and services	Inactive
Merry Maid of Cardiff	98m Southwest	Cleaning services	Inactive

2.4.9 Infilled Land

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

Table 2.8 Potentially Infilled Land

Feature	Distance/Direction
Infilled land associated with the infilling of the Old Mill Dam.	On site
Infilled land associated with the infilling of the Old Mill Dam.	69m North
Infilled land.	88m Northeast
Infilled Land associated with the allotment gardens.	96m East
Infilled Land associated with the allotment gardens.	100m East
Infilled land associated with the construction of the railway.	141m Southwest
Infilled Land associated with the allotment gardens.	165m East
Infilled Water – infilling of reen in the allotment gardens.	53m Northeast

Infilled Water associated with the residential development.	167m Northwest
Infilled Water associated with the residential development.	181m Northeast
Infilled Water.	189m Northeast
Infilled Water.	189m Northeast
Infilled Water associated with the residential development.	225m Northwest

2.4.10 Historic Ground Investigation

TFW Group undertook a ground investigation for the proposed residential development of the land previously occupied by the former Cwm Ifor School in Caerphilly, centred at a National Grid Reference of 314050, 188450, approximately 175m north of the site.

The site investigation was carried out between the 13th and 17th July comprising machine excavated trial pits and rotary probe holes. The ground conditions encountered during the site investigation are summarised in Error! Reference source not found..

Table 2.9 BGS Borehole

Depth (m)			Stratum
0.00	-	0.60 - <3.00	**MADE GROUND:** Firm brownish grey sandy very gravelly **CLAY** with inclusions of brick, concrete, glass and timber.
0.60	-	>3.00	Medium dense brown very sandy very clayey **GRAVEL** (TP1 only).
11.70 - 12.20	-	22.50 - 32.60	MEASURES
22.50 - 32.60	-	24.00 - 34.10	COAL / VOID
24.00 - 34.10	-	>35.00	MEASURES

The investigation revealed workings in one seam of coal at shallow depth beneath the site. Over the majority of the site there was insufficient rock cover (less than 10:1 cover to void thickness) above the workings to prevent ground instability from the collapse of the workings. It was therefore concluded that the site was at a very high risk from ground instability posed by the collapse of shallow mine workings.

In 2019 Terra Firma also supervised a program of drilling and grouting at the site to stabilise the identified legacy mining features. This comprised the drilling of 141 boreholes and the injection of 1000 tonnes of grout.

SECTION 3 Coal Mining Risk Assessment

3.1 Geotechnical Risk

3.1.1 Underground Mining

Based upon geological map data, the stratigraphical sequence within 40m of the ground surface of the site is illustrated in **Figure 3.1**.

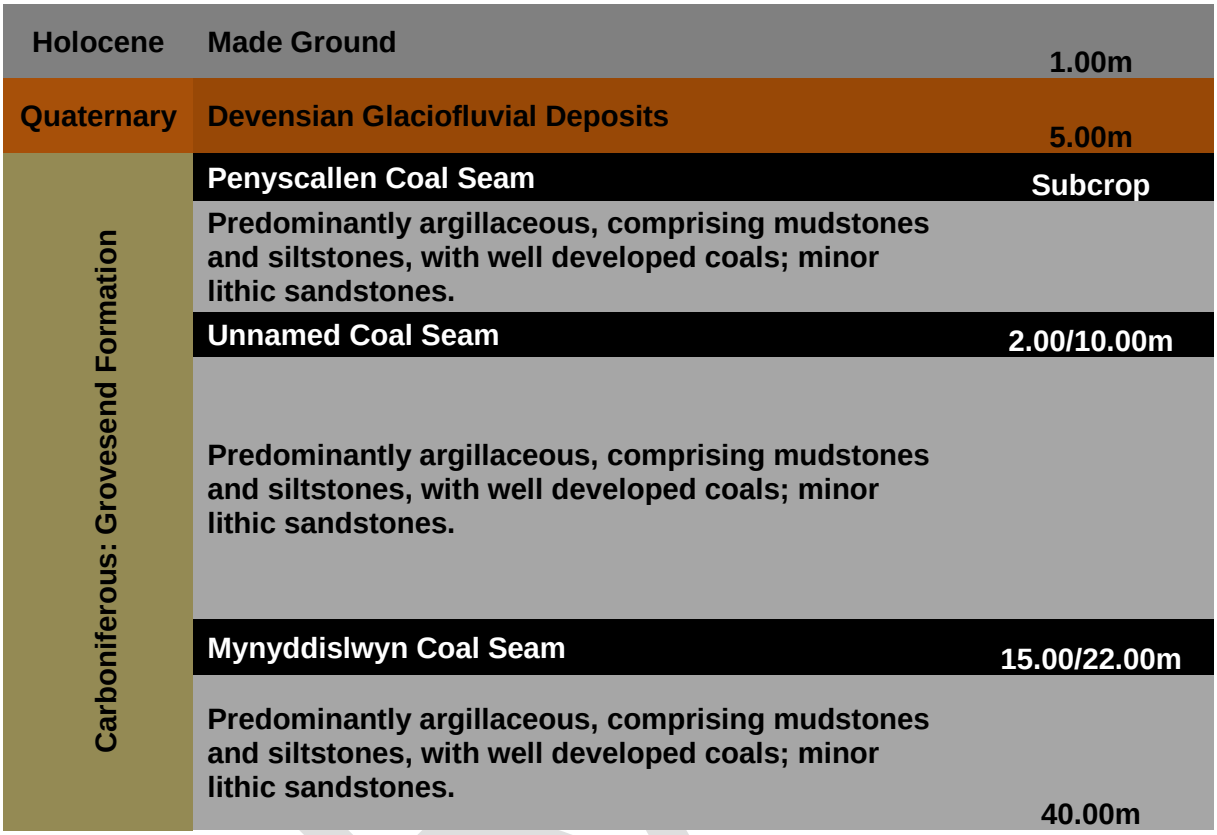

Figure 3.1 Geology and Strata Base below Ground Level

The Coal Authority Report states there is one historic underground mine beneath the site. It exploited the Mynyddislwyn Lower Leaf which is located at 78m below ground level, with an extraction thickness of 1.81m, last mined in 1870.

An unnamed outcrop is located 15.8m to the northwest and the Pennyscallen Seam is recorded to outcrop on the site.

There are no recorded spine roadways at shallow depth beneath the site.

There are no faults, fissures or breaklines recorded beneath the site.

The Mynyddislwyn Coal seam is located 155m northwest of the site, the seam is 3 foot 4 inches in thickness. Given the dip, distance from the site, and topography of the area the anticipated depth of the coal seam has been estimated using trigonometry. On the western boundary the coal seam is estimated to be at a depth of 15m and 22m on the eastern boundary.

The unnamed outcrop 15.8m to the north west and the Pennyscallen Seam are potentially the Small Rider seen on the generalised vertical section which is identified as being 3 foot 2 inches in two coals. Using trigonometry the unnamed outcrop would be at a depth of 2m on the western boundary and 10m on the eastern boundary. The Pennyscallen would subcrop

below the western side of the site and be present at approximately 5.5m depth on the eastern boundary.

3.1.2 Shafts & Adits

There is a shaft in the northwestern corner of the site on the grid reference 313919, 188267. The shaft, reference 313188-001, is recorded to be 12.20m deep and 2.50m in diameter. There are shafts 45m to the west and 100m to the northeast. The Coal Authority online viewer details that this shaft has a departure area of 5.00m indicating it could be 5.00m from the supplied coordinates.

The proposed building is not located within influencing distance of the mine shafts. Bedrock is anticipated to be approximately 5.00m, however this should be confirmed with an intrusive ground investigation. The publication CIRIA C758D: 2019 'Abandoned Mine Workings Manual' advises that the potential surface crater size caused by shaft collapse is dependent on the shaft shape, ground conditions and presence of groundwater. Where competent rocks subcrop with little superficial cover or beneath areas of hardstanding the zone is likely to be smaller. Conversely where thicker and weaker superficial deposits or made ground exist the zone of collapse could extend further with progressive failures into the void. At present for the purpose of risk assessment a shaft failure using a 45° line struck from the edge of the shaft at rock head where it strikes the ground surface has been used. Therefore, the anticipated influencing distance from the edge of the shaft should be taken as 5.00m. The exclusion zone, comprising the shaft size (red), departure area (orange) and potential zone of collapse (blue) is 11.25m in radius and can be seen on **Figure 2.1**.

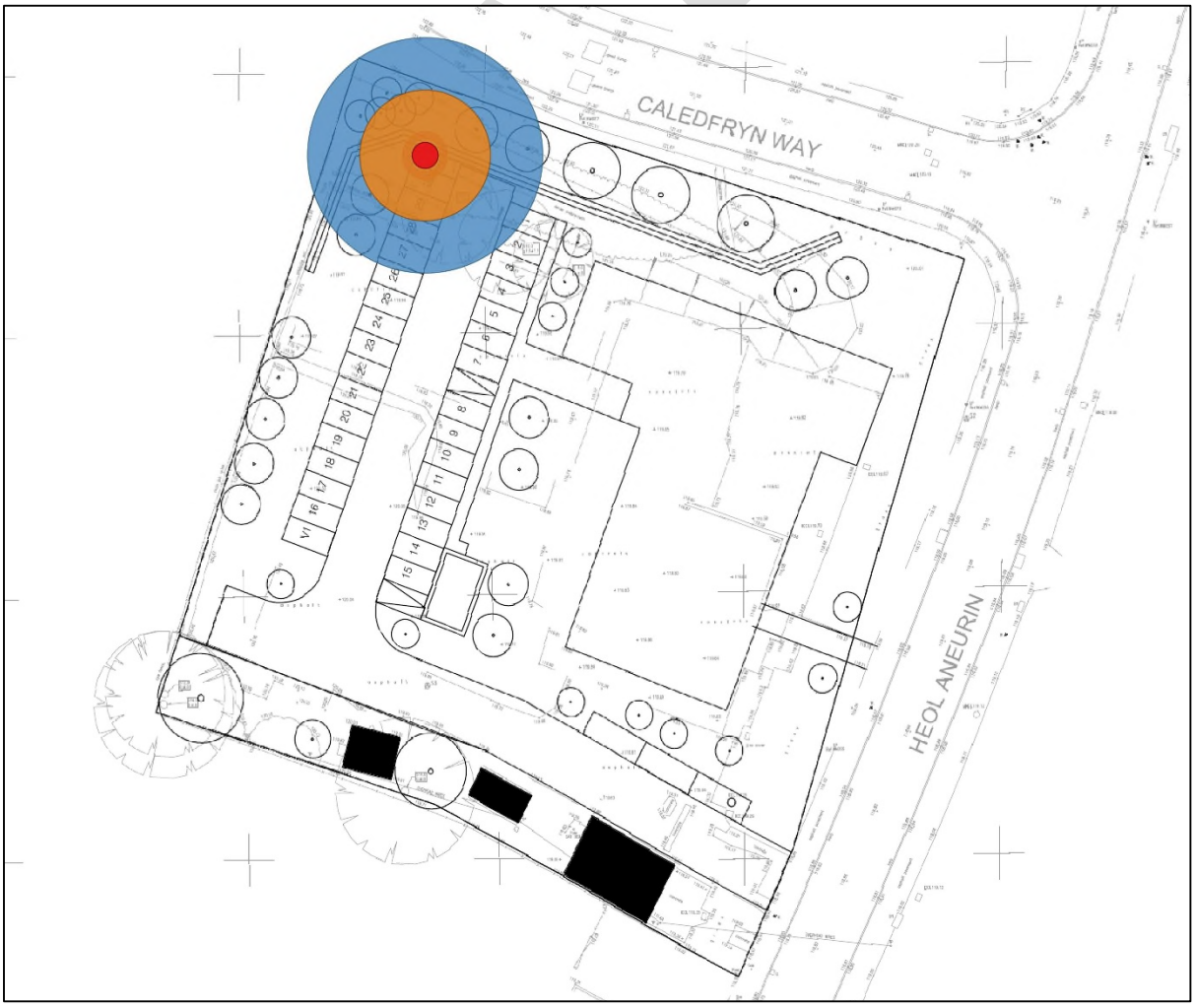

Figure 3.2 Exclsion Zone from the Shaft

The Shaft Plan and Data Sheets for Shafts 313188-001, 314188-007 and 314188-009 were obtained from the Coal Authority, the report is appended in (**Annex B**). No new information was presented in the plans.

3.1.3 Conclusion

The overall risk to the surface stability of the site from possible unrecorded workings is considered high given the presence of the mine shaft in the north west corner.

The development layout will need consideration of the exclusion zone around the mine shaft as development in proximity to this feature will be restricted.

3.2 Geoenvironmental Risk

3.2.1 Mine Gas Risk Assessment

This assessment has been completed in accordance with guidance published in CL:AIRE, 2021, Good practice for risk assessment for coal mine gas emissions. In the first instance, the risk assessment process requires the screening out of 'potentially at risk sites' utilising the decision support tool for mine gas risk assessment, provided in Figure 13.1 - CLAIRE 2021. A summary of the decision tool and site outcome is presented in **Table 2.2**.

Table 3.1 Decision Support Tool

Step	Qualifier Question	Outcome	Comment
1	Is the site within a Coal Authority defined Coal Mining Reporting Area?	Yes	Go to step 2
2	Are all these statements true? • Mine entries >50m from site boundary. • Workings >150m depth. • No faults or other potential pathways connecting surface to deeper unflooded workings. • Outside are of past or probable shallow workings on Coal Authority Viewer.	No	Got to step 3
3	Are all these statements true? • Workings between 30m and 150m but permanently flooded or covered by 10m+ of low permeable superficial deposits. • Mine entries > 50m from site boundary. • Low permeability superficial deposits of sufficient thickness - <$1x10^{-4}$ m/s hydraulic conductivity.	No	Go to step 4
4	Are any of these statements true? • Mine entries on site or <20m from site boundary. • Workings below site <30m depth and unflooded or variable water level. • Faults or other pathways connecting surface to deeper unflooded workings. • Within area of past or probable shallow workings on Coal Authority Viewer.	Yes	High Risk Zone

It is determined the site is at high risk of mine gas and a detailed mine gas risk assessment (MGRA) is required to determine whether suitable mitigation measures can be incorporated into the development.

SECTION 4 Site Reconnaissance Findings

A site reconnaissance survey was completed by TFW Group Limited on the 25th of April 2024. The characteristics of the site observed during the walkover are summarised in **Table 2.2**. Photographs of the site were taken during the walk over and these have been included in **Annex C**.

Whilst the walkover summary includes consideration of current operations and housekeeping on the site as potential sources of contamination, it does not constitute a comprehensive environmental audit of the site as covered under ISO 14001.

Table 4.1 Site Reconnaissance Findings

Feature	Description
Physical Characteristics	
Access Constraints	The site is currently open and accessible from Heol Aneurin.
Site Topography	The main body of the site is generally flat, with limited level change between tarmac and concrete slab areas. Within the far north of the site, a mound of several metres in height runs parallel to Caledfryn Way.
Surface Cover	The site is largely surfaced with tarmac, or the concrete floor slabs from former buildings. Grassed areas situate along the east and northern extents of the site, alongside Heol Aneurin and Caledfryn Way, and a smaller grassed area lies in the south of the site, behind the betting shop. Shrubs and juvenile trees exist along the site's western boundary and atop the mound in the north.
Site Drainage	Several manhole covers to old sub-surface drainage runs were noted.
Surface Water	No surface water features were observed.
Invasive species	No invasive species were noted.
Existing Buildings	A single storey building used as a betting shop situates in the southwest corner of the site. To the rear of the shop, adjacent to the southern site boundary, is a Wales and West gas utility cabin and a small single storey building of brick construction.
Retaining Walls	A low wall, constructed of brick and breezeblock, is present in the north-west corner or the site, retaining soils above the floor slab of a former building.
Basements on Site	No evidence of previous basement structures was noted.
Adjacent Buildings	Penyrheol Community Centre situates south of the site.
Potentially Unstable Slopes	The low retaining walls in the northwest of the site will need to be replaced or the ground profiles amended to prevent small scale slope instability.
Buried and Overhead Services	No overhead services were seen.
Areas of Public Open Space and Rights of Way	The site does not include any public open space or rights of way.

Environmental Characteristics	
Underground/Above Ground Storage Tanks and Pipework	No evidence of tanks on site was recorded.
Potentially Hazardous Materials Storage and Use	None recorded
Asbestos Containing Materials.	Scattered fragments of roof tiles suspected of containing asbestos can be seen on the surface along the western section of the site-facing edge of the mound, including above the retaining wall. Similar tile fragments are also seen on the edge of the tarmac-concrete boundary in the west of the site, which comprises a low upward slope to the tarmac.
Waste Storage and Fly-Tipping	None recorded
Electricity Sub-stations / Transformers	None recorded
Evidence of Possible Land Contamination	None recorded
Potential Off-Site Sources of Ground Contamination	None recorded

SECTION 5 Preliminary Human Health and Environmental Risk Assessment

5.1 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 D** which includes our classifications of consequence and probability, and risk assessment matrix.

5.2 Potential Sources of Contamination

Potential or known sources of contamination associated the sites current and historical land use are summarised in **Table 5.1**.

Table 5.1 Contamination Sources

ID	Source	Contaminant
S1	Made ground	Metals, Metalloids, Organics and Inorganics Asbestos, Petroleum Hydrocarbons (TPH) and Speciated Polycyclic Aromatic Hydrocarbons (PAH)
S2	Demolished buildings on site	Asbestos including Asbestos Containing Materials (ACMs)
S3	Legacy mining features	Mine Gas
S4	Infilled land	Ground Gas
S5	Tanks approximately 30m west of the site	Petroleum Hydrocarbons (TPH) and Speciated Polycyclic Aromatic Hydrocarbons (PAH)
S6	Substation on site	Polychlorinated biphenyl

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

5.3 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 – Consumption of home grown produce
P3 – Dermal contact
P4 – Inhalation of dust and vapours
P5 – Vertical migration of leachates (unsaturated zone)
P6 – Horizontal and vertical migration of contaminants (saturated zone)
P7 – Artificial contaminant pathway (borehole, pile, excavation etc)
P8 – Surface run-off
P9 – Plant uptake
P10 – Horizontal and vertical migration of ground gasses and vapours
P11 – Direct contact with construction materials
P12 – Inhalation of asbestos fibres

5.4 Potential Receptors

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

R1 – Construction and maintenance workers
R2 – Future site users (residents)
R3 – Passers-by or neighbouring site users
R4 – Groundwater (aquifer)
R5 – Surface waters (river/lake)
R6 – Area of public open space
R7 – Construction materials (concrete/potable water pipes)

5.5 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 5.2**.

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 5.2 Preliminary Conceptual Site Model

Source	Pathway	Receptor	Preliminary Risk Assessment		
			Consequence	Probability	Risk & Justification
Human Health					
Contaminated Soils S1, S2, S5 & S6	Direct soil and dust ingestion P1 Dermal contact P3 Inhalation of dust and vapours P4	Construction and maintenance workers R1	**Medium**	**Likely**	**Medium Risk:** COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required. Suitably designed site investigation recommended.
		Passers-by or neighbouring site users R3	**Medium**	**Unlikely**	**Near Zero Risk**: Dust suppression measures if required.
		Future site users (Residents) R2	**Medium**	**Likely**	**Medium Risk:** Suitably designed site investigation recommended.
Ground Gas S4	Horizontal and vertical migration of ground gasses and vapours P10	Future site users (Residents) R2 Construction and maintenance workers R1	**Severe**	**Low Likelihood**	**Medium Risk:** Infilled within 250m of the site is a potential source.
Vapours S1 & S5			**Severe**	**Unlikely**	**Low Risk:** Tanks located 30m to the west are a potential source of vapours. Transport of volatile contamination to the site is considered unlikely given the small size of the tanks and they have subsequently been removed.
Mine Gas S3			**Severe**	**Likely**	**High Risk:** Shallow mining beneath the site a potential source for mine gas and the mine shaft a viable pathway present on site.
Impacted Groundwaters S1	Horizontal and vertical migration of contaminants (saturated zone) P6 Dermal contact P3	Construction and maintenance workers R1	**Medium**	**Low Likelihood**	**Low Risk:** Tanks located 30m to the west are a potential source of contamination. Construction works are likely to be adequately protected by standard PPE.
Contaminated Soils S1, S2, S5 and S6	Plant uptake P9 Consumption of home grown produce P2	Future site users (Residents) R2	**Medium**	**Likely**	**Medium Risk:** Demolition material, the substation on site and tanks located 30m to the west are potential sources of contamination.
Contaminated Soils S1	Direct Contact P11	Construction materials (water pipes) R7	**Mild**	**Low Likelihood**	**Low Risk:** An appropriate water supply pipe material should be chosen after the potable water supplier has completed an assessment in accordance with UK Water Industry Research guidance; Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites, UKWIR Report Ref: 10/WM/03/21.

Aggressive ground conditions – Sulphates S1		Construction materials (concrete) R7	**Mild**	**Low Likelihood**	**Low Risk:** Chemical analysis of the soils should be undertaken and the appropriate classification of concrete should be specified as per BRE Special Digest 1: Concrete in Aggressive Ground.
Aquatic Environment					
Contaminated Soils S1 & S5	Vertical migration of leachates (unsaturated zone) P5	Groundwater (aquifer) R4 Surface waters (river/lake) R5	**Mild**	**Low Likelihood**	**Low Risk:** Significant contamination is not anticipated on the site. The tanks located 30m to the west are a potential source of contamination however given the small size and the fact that they have been removed the impact to the study site is likely to have been minimal.
	Surface run-off P8	Surface waters (river/lake) R5			
	Horizontal and vertical migration of contaminants (saturated zone) P6				

SECTION 6 Anticipated Ground Conditions

6.1 Geology

Based on the available desk study information anticipated ground conditions at the site are summarised in **Table 5.1**.

Table 6.1 Contamination Sources

Stratum	Depth (m)
Made Ground: Asphalt.	0.10
Made Ground: Likely to comprise reworked soils with occasional anthropogenic items (brick, concrete etc. from surrounding buildings).	0.50/1.00
River Terrace Deposits: SAND and GRAVEL with varying quantities of clay, silt, cobbles and boulders.	5.00
Bedrock: Mudstone, Sandstone and Coal.	Unknown

6.2 Groundwater

Groundwater may be present at shallow depth associated with the inland river 42m to the northeast of the site.

SECTION 7 Preliminary Engineering Recommendations

Recommendations given in this section are based upon the available desk study information and need to be confirmed by a relevant intrusive investigation.

7.1 Preparation of Site

Prior to demolition the existing building should be subject to a refurbishment and demolition survey to identify any ACMs. Any deleterious materials should be removed by a suitably qualified person and disposed of at an appropriately licences landfill. Precautions should be in place to prevent any contamination of the soils on site during the removal process.

Any areas of vegetation including all roots should be stripped and removed from beneath the proposed development site. Areas of hard standing should also be broken out and removed from below the proposed development.

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

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

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department of Transport (DoT) 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 based on their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified based on their specific chemical properties. TFW Group Limited offer this service if required.

7.2 Tentative Foundation and Floor Slab Solution

At this stage and due to the potential for mining legacy features below the site it is considered that, after stabilisation of any identified features, reinforced concrete strip or raft foundations will be suitable for the proposed structures. These should be founded within the competent granular deposits.

The foundations should be designed to span a nominal crown hole of 1.50m with a cantilever effect on corners of 1.00m.

It is likely that an allowable bearing pressure of 100kN/m^2 for reinforced strips.

Floor slabs may be designed as suspended.

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.

The proposed development is blocks of flats and the above allowable bearing pressure may not be sufficient, therefore a piled foundation solution should be used.

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.

To confirm the foundation solution a site investigation should be conducted to confirm the prevailing ground conditions across the development area.

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

7.3 Excavations and Formations

Shallow excavations will likely be possible with normal soil excavating machinery. Allowances should be made for using a breaker attachment when dealing with hard standings and historic / current foundations.

Excavations may encounter shallow groundwater flows. Any inflows together with rainwater infiltration should be dealt with by conventional pumping techniques.

The sides of any excavations deeper than 1.00m, or shallower, if necessary, should be supported by planking and strutting or other proprietary means.

The sub-formations/formations will be highly 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.

7.4 Protection of Buried Concrete

Within BRE Special Digest 1 the chemical agents that aggressively attack concrete are sulphate, sulphides, magnesium ions, ammonium ions, carbon dioxide, chloride ions and phenols.

Aggressive ground conditions may be encountered at the site, though the risk is considered to be low.

7.5 Car Parking Areas

For car parking and road area formations the CBR value for shallow soils may be determined by in-situ CBR testing.

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.

7.6 Excavations and Formations

Soakaway drainage may be viable for the proposed development as the anticipated ground conditions are anticipated to be granular in nature however there will be a cohesive component which may inhibit infiltration. Groundwater may be present at shallow depth associated with the inland river 42m to the northeast of the site.

The suitability of stormwater drainage should be confirmed by in-situ soakaway testing.

SECTION 8 Recommended Works / Site Investigation

8.1 General

An intrusive site investigation designed and justified in accordance with guidance provided in BS10175:2011+A2:2017 and BS5930:2015 should be undertaken to achieve the following objectives:

- Identify the potential environmental liabilities at the site associated with any soil and groundwater contamination from past site uses, to substantiate and enhance the conceptual site model, for a residential scenario.
- Provide a summary of the environmental conditions at the site, together with any necessary remediation works to render the site fit for its intended use.
- Provide recommendations regarding any relevant geotechnical aspects pertaining to the development including past mining.
- Locate the shaft reported to be on site and confirm diameter and depth.

Please note that by necessity site investigation works are undertaken on a phased approach and additional phases may be required as information is collected and the conceptual site model is developed. The following section outlines a likely scope of investigation, this scope should be agreed with the local authority prior to being undertaken.

8.2 Intrusive Investigation

It is recommended that an intrusive investigation is undertaken to inspect the ground conditions, to take soil samples for laboratory chemical and geotechnical testing.

Due to the nature of the site which is currently hard standing used for car parking it is recommended that a windowless sampling method is used. This is less disruptive and allows a greater degree of reinstatement.

Additionally, however it is recommended that soakaways are undertaken in trial pits to conform to BRE 365.

8.2.1 Soakaway Information

It is recommended that soakaway tests are undertaken in trial pits to the requirements of BRE365 at the locations and depths of the proposed infiltration systems where possible. It would also be prudent, were soakaways are found to be viable, to take samples for leachate testing from the locations to assess the risk to the aquatic environment.

8.2.2 Mine Shaft Location and Rotary Drilling

It is recommended that rotary boreholes are undertaken to confirm or negate the presence of shallow coal mining beneath the site. The boreholes should be sunk to confirm a minimum rock sequence of 30m from rock head. If thick superficial deposits are encountered the boreholes should be extended to a corresponding depth.

The location of the mine shaft should be identified by trial trenching across the area of the departure zone within the site boundaries. Once located a borehole should be drilled at the location of the shaft to confirm the depth. If the made ground or reworked soils are prohibitively thick it may be necessary to locate the shaft using rotary borehole techniques.

During the drilling process the presence of mine gases should be monitored at the borehole location.

These works will require a permit from the Coal Authority prior to being undertaken on site.

8.2.3 Gas Monitoring

A desk based MGRA and Ground Gas risk assessment should be undertaken due to the presence of the infilled land and historic mining beneath the site.

Due to the possible presence of shallow mining features beneath the site there is a potential risk to the proposed development from mine gases. A Mine Gas Risk Assessment (MGRA) should be undertaken in accordance with CL:AIRE Guidance, Good Practice for Risk Assessment for Coal Mine Gas Emissions (October 2021). Depending on the findings of the MGRA it may also be necessary to undertake investigations. This may include the installation of a gas monitoring well into rock head in the rotary boreholes, if the windowless sampling boreholes have not achieved a comparable depth.

The well construction should be determined on site depending on the ground conditions encountered. The wells should then be monitored on a fortnightly basis for the presence of ground gases with the concentrations recorded as well as ground water depth and the barometric pressure. The concentrations of methane, carbon dioxide, oxygen, carbon monoxide and hydrogen sulphide should be recorded.

These works should be undertaken in accordance with Ciria C665: Assessing Risk Posed by Hazardous Ground Gases to Buildings and BS8576:2013: Guidance on Investigation for Ground Gas, Permanent Gases and Volatile Organic Compounds (VOCs).

On completion of the investigation and monitoring a mine gas risk assessment can be compiled.

8.2.4 Soil Sampling Strategy

The soil sampling strategy should be undertaken in accordance with the technical approach presented in Land Contamination Risk Management (LCRM) which supersedes CLR11 Model Procedures for Land Contamination.

Soil sampling locations should be selected on a targeted basis to investigate the areas of the former buildings and in addition selected on a non-targeted basis to characterise the contamination status of the wider site.

8.2.5 Recommended Soil Chemical Analysis

It is recommended that soil samples be taken of the made ground and underlying natural materials and tested at an accredited laboratory for the determinants listed in **Table 5.1**.

Table 8.1 Contamination Sources

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

Soil samples exhibiting elevated levels of metal and metalloid determinants should be further schedule for leachate testing of the offending substance.

ANNEX A
Envirocheck Report

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
340965028_1_1

Customer Reference:
17900JR

National Grid Reference:
313930, 188230

Slice:
A

Site Area (Ha):
0.42

Search Buffer (m):
1000

Site Details:

Site at 313950, 188370

Client Details:

Ms J Rual
TFW Group Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

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Contents

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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Ove Arup Copyright Notice

Stantec Copyright Notice

Radon Potential dataset Copyright Notice

Natural Resources Wales Copyright Notice

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Summary

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	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		1	5	4
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 5			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5		1	7	12
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 8			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 9				1
Water Abstractions	pg 9				1 (*11)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 12	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 12		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 12		Yes	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 12		22	17	51

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 23				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 23			1	
Local Authority Landfill Coverage	pg 23	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 23	1	6	1	7
Potentially Infilled Land (Water)	pg 24		6	2	14
Registered Landfill Sites	pg 25				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

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 26	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 26	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 29	1	4	2	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 31	Yes	n/a	n/a	n/a
Mining Instability	pg 32	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 32	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 32		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 32	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 34		2	6	16
Fuel Station Entries	pg 36			1	
Points of Interest - Commercial Services	pg 36			5	5
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 36		1	7	4
Points of Interest - Public Infrastructure	pg 37			5	
Points of Interest - Recreational and Environmental	pg 38		6		7
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 40		1	3	7
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 40				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: Potential for Groundwater Flooding to Occur at Surface	A13NE (SW)	0	1	313931 188232
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	89	1	313931 188100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	136	1	313800 188350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	146	1	313750 188250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	181	1	313750 188100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	191	1	313700 188232
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	192	1	313700 188200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	214	1	313850 188000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	234	1	314200 188300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	239	1	313931 187950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	245	1	313900 187950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	245	1	314000 187950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	259	1	313850 187950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	279	1	313800 187950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	280	1	314250 188250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	283	1	314100 187950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	287	1	313700 188000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	289	1	313931 187900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	289	1	313950 187900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	294	1	313900 187900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	294	1	314000 187900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	330	1	314300 188232

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	A8NE (S)	339	1	313931 187850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	339	1	313950 187850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	352	1	314150 187900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	364	1	313750 188600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	378	1	313550 188050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	380	1	314350 188232
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	383	1	314350 188200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	389	1	313950 187800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	393	1	314000 187800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	430	1	314400 188232
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	433	1	314400 188200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	442	1	314000 187750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	442	1	314400 188150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	451	1	314050 187750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	456	1	314400 188100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	491	1	314450 188150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	499	1	314050 187700
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Combined Sewer Overflow At Bryn Siriol, Abertridwr Rd, Penyrheol, Caerphilly, Cf83 2ap Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bb3395cu Permit Version: Not Supplied Effective Date: 6th August 2019 Issued Date: 6th August 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Y Aber **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	184	2	313718 188152

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Redrow Plc Property Type: General Construction Work Location: De Clare Gardens, Hendredenny Drive, Hendredenny, Caerphilly, Cf83 2uq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cb3596fe Permit Version: Not Supplied Effective Date: 22nd June 2022 Issued Date: 22nd June 2022 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Yr Aber **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	389	2	313539 188048
3	**Discharge Consents** Operator: Redrow Plc Property Type: General Construction Work Location: De Clare Gardens, Hendredenny Drive, Hendredenny, Caerphilly, Cf83 2uq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cb3596fe Permit Version: Not Supplied Effective Date: 22nd June 2022 Issued Date: 22nd June 2022 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Yr Aber **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	395	2	313506 188302
4	**Discharge Consents** Operator: Bailey Homes Ltd Property Type: Undefined Or Other Location: Land Adj Bryn-Yr-Ysgol Penyrheol Ca, Penyrheol Caerphilly Authority: Natural Resources Wales Catchment Area: River Rhymney Reference: An0022001 Permit Version: 1 Effective Date: 6th March 1987 Issued Date: 6th March 1987 Revocation Date: 31st March 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Nant-Yr-Aber **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	427	2	313500 188390
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Housing Development Between Thomasv, Thomasville & Ty Nant Penyrheol, Penyrheol Authority: Natural Resources Wales Catchment Area: NANT Y ABER - SOURCE TO CONF RHYMNEY R Reference: Ae2034901 Permit Version: 1 Effective Date: 25th November 1965 Issued Date: 25th November 1965 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Tributary To Nant Yr Aber **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	457	2	314258 187852

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Housing Development Between Thomasv, Thomasville & Ty Nant Penyrheol, Penyrheol Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ae2034901 Permit Version: Not Supplied Effective Date: 25th November 1965 Issued Date: 25th November 1965 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Tributary To Nant Yr Aber **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	457	2	314258 187852
6	**Discharge Consents** Operator: Redrow Plc Property Type: General Construction Work Location: De Clare Gardens, Hendredenny Drive, Hendredenny, Caerphilly, Cf83 2uq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cb3596fe Permit Version: Not Supplied Effective Date: 22nd June 2022 Issued Date: 22nd June 2022 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Yr Aber **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	513	2	313442 187965
7	**Discharge Consents** Operator: Redrow Plc Property Type: General Construction Work Location: De Clare Gardens, Hendredenny Drive, Hendredenny, Caerphilly, Cf83 2uq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cb3596fe Permit Version: Not Supplied Effective Date: 22nd June 2022 Issued Date: 22nd June 2022 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Yr Aber **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	545	2	313346 188234
8	**Discharge Consents** Operator: Design Engineer Property Type: Sewerage Network - Pumping Station - Others Location: Arkana Phase 2 Off Brynhyfryd Road, A Sewage Pumping Station, Arkana Phase 2, Off Brynhyfryd Road, Trecenydd Caerphilly Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0337401 Permit Version: 1 Effective Date: 13th October 2003 Issued Date: 13th October 2003 Revocation Date: 18th February 2005 Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: That Nant Yr Aber **Status:** **Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	702	2	314494 187746

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: Sunrise Homes Ltd Property Type: Sewerage Network - Pumping Staions Location: Energlyn Terrace Ps Caerphilly Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0259101 Permit Version: Not Supplied Effective Date: 31st July 1995 Issued Date: 31st July 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: A Tributary Of The Nany-Y-Aber **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	877	2	314550 187550
10	**Local Authority Pollution Prevention and Controls** Name: Newmans GarageMurco Location: St Cenydd Road, Hendredenny Park, CAERPHILLY, Mid Glamorgan, CF83 2RP Authority: Caerphilly County Borough Council, Environmental Health Department Permit Reference: P032 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A8NE (S)	419	3	314102 187799
	Nearest Surface Water Feature	A13NE (NE)	42	-	313983 188295
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Cwm Ifor School Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 16th October 1991 Incident Reference: 902 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	226	4	313910 188500
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 30 Yards From, 4 Morgan Street Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage Incident Date: 23rd June 1997 Incident Reference: 32877 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	326	4	313800 187900
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 30 Yards From 4 Morgan St Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: N Yr Aber At Caerphilly; Overflow Incident Date: 23rd June 1997 Incident Reference: 32877 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	330	4	313800 187895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: N Yr Aber; Leakage Incident Date: 7th July 1997 Incident Reference: 33435 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	393	4	314000 187800
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: TRECENYDD Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: N Yr Aber; Leakage Incident Date: 7th July 1997 Incident Reference: 33435 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	398	4	314000 187795
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Stream Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 19th June 1995 Incident Reference: 24946 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	463	4	314200 187800
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Mr Welshegg, Penyrheol/Orchard Poultry Farm, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Tributary Nant Yr Aber Incident Date: 17th April 1998 Incident Reference: 35388 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	A8NE (SE)	467	4	314200 187795
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 9th April 1996 Incident Reference: 28017 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	A18SW (NW)	476	4	313700 188700
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Adjacent, Asdas, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Weather Incident Date: 11th January 1996 Incident Reference: 27684 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	A12SE (W)	602	4	313300 188100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Adjacent Asdas, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Weather Incident Date: 11th January 1996 Incident Reference: 27684 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	A12SE (W)	603	4	313300 188095
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Penrheol Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage Incident Date: 16th June 1997 Incident Reference: 32943 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	693	4	313255 188495
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Penrheol Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: N Yr Aber; Overflow Incident Date: 16th June 1997 Incident Reference: 32943 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	695	4	313255 188500
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Asda, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: N Yr Aber; Overflow Incident Date: 16th June 1997 Incident Reference: 32943 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	697	4	313255 188505
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rear Of Diamond Close, Mill Road, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage Incident Date: 16th June 1997 Incident Reference: 32943 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	698	4	313250 188495
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Asdas, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage Incident Date: 16th June 1997 Incident Reference: 32943 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	700	4	313250 188500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rear Of Diamond Close, Mill Road, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: N Yr Aber; Overflow Incident Date: 16th June 1997 Incident Reference: 32943 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	702	4	313250 188505
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Nant Yr Aber, Behind 49 Club Authority: Environment Agency, Welsh Region Pollutant: Sullage Note: Natural Causes Incident Date: 12th July 1995 Incident Reference: 25677 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	814	4	314600 187700
19	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Not Supplied Incident Date: 11th March 1997 Incident Reference: 31700 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	A9NE (SE)	896	4	314700 187700
20	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: Wistech Site, CAERPHILLY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 17th April 1992 Incident Reference: 3835 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	935	4	314800 187800
21	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 2-300 Yards Below, Footbridge Pwlly Pant Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage Incident Date: 23rd April 1997 Incident Reference: 32754 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	974	4	314700 188900
	River Quality Name: Nant Y Aber GQA Grade: River Quality B Reach: U/S Pont Y Gwindy Ind.Est.-Nant Cwm Parc Estimated Distance (km): 5.1 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A13SW (SW)	261	4	313674 188068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 25th June 2001 Incident Reference: 11404 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: Pollutant Not Identified: Not Identified	A17SW (NW)	741	2	313247 188599
23	**Water Abstractions** Operator: Mr & Mrs E Morris Licence Number: 21/57/12/0040 Permit Version: 100 Location: Well At Hendredenny Ganol Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th May 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	693	4	313200 188270
	Water Abstractions Operator: Messrs M & T Moore Licence Number: 21/57/12/0041 Permit Version: 100 Location: Well At Cwmivor Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1169	4	313600 189400
	Water Abstractions Operator: Messrs M & T Moore Licence Number: 21/57/12/0042 Permit Version: 100 Location: Well At Graigwen Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Well At Graigwen Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd February 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SE (NW)	1389	4	313260 189500
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0063 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 636 Yearly Rate (m3): 227272.72 Details: Not Supplied 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	A3SE (S)	1584	4	314230 186630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0099 Permit Version: 1 Location: Borehole C At Clarkson Knitting Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Clarkson Knitting - Caerphilly Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1611	4	314270 186610
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0099 Permit Version: 1 Location: Borehole ""C"" At Clarkson Knitting Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Clarkson Knitting - Caerphilly Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1611	4	314270 186610
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0099 Permit Version: 1 Location: Borehole A At Clarkson Knitting Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Clarkson Knitting - Caerphilly Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1616	4	314240 186600
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0099 Permit Version: 1 Location: Borehole ""A"" At Clarkson Knitting Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Clarkson Knitting - Caerphilly Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1616	4	314240 186600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0062 Permit Version: 101 Location: Borehole At Clarkson Knitting Ltd, Western Ind. Est. Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3SE (S)	1634	4	314170 186570
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0099 Permit Version: 1 Location: Borehole B At Clarkson Knitting Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Clarkson Knitting - Caerphilly Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1651	4	314270 186570
	Water Abstractions Operator: Clarkson Knitting Limited Licence Number: 21/57/12/0099 Permit Version: 1 Location: Borehole ""B"" At Clarkson Knitting Authority: Environment Agency, Welsh Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Clarkson Knitting - Caerphilly Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1651	4	314270 186570
	Water Abstractions Operator: Messrs T Roberts & Son Licence Number: 21/57/25/0060 Permit Version: 100 Location: Borehole At Penygroes Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th May 1985 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	1731	4	312310 187510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: High	A13NE (SW)	0	2	313931 188232
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (SW)	0	2	313931 188232
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (SW)	0	2	313931 188232
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	132	2	313785 188135
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	133	2	313805 188110
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 522.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (NE)	33	5	313997 188273
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (NE)	43	5	313984 188296
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (N)	74	5	313961 188336
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 598.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (N)	113	5	313931 188386

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (N)	113	5	313931 188386
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (N)	120	5	313935 188391
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 122.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13NE (N)	141	5	313941 188412
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 159.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (SW)	155	5	313802 188087
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (SW)	180	5	313732 188130
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 269.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (SW)	180	5	313732 188130
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 297.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (W)	195	5	313710 188141
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (W)	195	5	313710 188141
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: Underground Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (SW)	197	5	313825 188029

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (W)	201	5	313700 188150
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (W)	201	5	313700 188150
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (SW)	212	5	313821 188014
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (SW)	212	5	313788 188028
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (SW)	218	5	313820 188008
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (SW)	225	5	313827 187998
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (SW)	225	5	313827 187998
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (S)	236	5	313858 187972
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 2	A13SW (S)	236	5	313858 187972

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 322.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A13SW (S)	271	5	313877 187928
47	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (SW)	285	5	313775 187954
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A13SW (SW)	298	5	313757 187948
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	330	5	313580 188324
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A12NE (W)	330	5	313580 188324
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	354	5	313552 188317
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	357	5	313550 188319
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8NE (SE)	457	5	314259 187852
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8NE (S)	459	5	314117 187762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A8NE (S)	459	5	314117 187762
56	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12SE (SW)	477	5	313471 187988
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (NW)	477	5	313464 188436
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 325.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A12NE (NW)	480	5	313463 188443
59	**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: Rhymney Primacy: 1	A12SE (SW)	484	5	313466 187983
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A8NE (SE)	492	5	314223 187780
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12SE (SW)	492	5	313459 187979
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A8NE (SE)	493	5	314226 187781
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	502	5	313394 188288

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 136.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A8NE (SE)	503	5	314255 187789
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 169.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	503	5	313416 188378
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	505	5	313391 188288
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12SE (SW)	511	5	313444 187965
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	546	5	313346 188240
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NE (W)	546	5	313346 188246
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12SE (W)	569	5	313322 188227
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 462.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12SE (W)	569	5	313322 188227
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A9NW (SE)	581	5	314391 187811

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A9NW (SE)	605	5	314388 187773
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18SW (NW)	623	5	313641 188835
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18SW (NW)	623	5	313641 188835
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18SW (NW)	630	5	313637 188840
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18SW (NW)	661	5	313620 188867
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NW (W)	666	5	313247 188383
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 507.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A9NW (SE)	669	5	314457 187753
80	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 54.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18SW (NW)	690	5	313613 188895
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NW (W)	694	5	313213 188361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 302.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NW (W)	697	5	313209 188359
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18NW (NW)	728	5	313630 188945
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8SW (S)	754	5	313658 187494
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8SW (S)	757	5	313653 187493
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 314.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8SW (S)	760	5	313661 187486
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A17SW (NW)	783	5	313208 188617
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	783	5	313207 188615
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	787	5	313194 188594
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	790	5	313192 188597

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	791	5	313184 188582
92	**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: Rhymney Primacy: 2	A17SW (NW)	791	5	313184 188582
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	792	5	313184 188585
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 326.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	795	5	313178 188579
95	**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: Rhymney Primacy: 1	A17SW (NW)	795	5	313178 188579
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18NW (N)	844	5	313594 189055
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A18NW (N)	844	5	313594 189055
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 326.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Aber Catchment Name: Rhymney Primacy: 1	A17SW (NW)	873	5	313147 188694
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17SW (NW)	873	5	313147 188694

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12SW (W)	921	5	312972 188142
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 158.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A7SE (S)	933	5	313572 187337
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17NE (NW)	936	5	313555 189139
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 247.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17NE (NW)	936	5	313555 189139
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 250.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A12NW (W)	943	5	312964 188386
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A7SE (SW)	959	5	313540 187322
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8SW (S)	974	5	313724 187242
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17NE (NW)	974	5	313467 189140
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17NE (NW)	974	5	313467 189140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A7SE (S)	987	5	313576 187276
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A8SW (S)	988	5	313739 187224
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17NE (NW)	990	5	313442 189146
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A17NE (NW)	990	5	313442 189146
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rhymney Primacy: 1	A7SE (S)	991	5	313585 187268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**Historical Landfill Sites** Licence Holder: Griff Davies Location: Caephilly Name: Mill Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15028 First Input Date: 31st December 1987 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6920/0007 BGS Ref: Not Supplied Other Ref: Not Supplied	A9NW (SE)	679	2	314512 187809
115	**Historical Landfill Sites** Licence Holder: Griff Davis and Sons Location: Caerphilly Name: Mill Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15029 First Input Date: 31st December 1981 Last Input Date: 31st December 1983 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6920/0008 BGS Ref: Not Supplied Other Ref: 16	A9NE (SE)	897	2	314705 187705
116	**Licensed Waste Management Facilities (Locations)** Licence Number: AB3391HB Location: Energy Pyrolysis, Penyrheol Sidings, St Cenydd Road, Caerphilly, Caerphilly, CF83 2RP Operator Name: Energy Pyrolysis Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Clinical Waste Transfer Station + treatment **Licence Status: Surrendered** Issued: 15th December 2016 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 13th May 2019 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	498	2	314325 187862
	Local Authority Landfill Coverage Name: Caerphilly County Borough Council - Has supplied landfill data		0	3	313931 188232
117	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NW (N)	0	-	313923 188255
118	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NW (N)	69	-	313909 188343
119	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NE (NE)	88	-	314051 188290
120	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SE (E)	96	-	314063 188231
121	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NE (E)	100	-	314070 188268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SW (SW)	141	-	313831 188087
123	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SE (E)	165	-	314129 188208
124	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8NE (SE)	412	-	314137 187822
125	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A18SW (NW)	631	-	313660 188852
126	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NE (E)	672	-	314622 188421
127	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NE (E)	835	-	314782 188450
128	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SE (NE)	850	-	314718 188660
129	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NE (E)	859	-	314812 188430
130	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A17SW (NW)	919	-	313154 188793
131	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19NW (NE)	993	-	314360 189168
132	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NE (NE)	53	-	313982 188307
133	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (NW)	167	-	313754 188332
134	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A13NW (W)	181	-	313720 188273
135	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A13NE (NE)	189	-	314118 188373
136	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (NE)	189	-	314125 188365
137	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (NW)	225	-	313803 188471
138	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13SE (SE)	318	-	314228 188037
139	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A18SE (N)	340	-	314029 188593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A18SE (NE)	567	-	314244 188752
141	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A14NW (NE)	577	-	314474 188537
142	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A14NW (NE)	577	-	314463 188556
143	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A18SE (NE)	581	-	314211 188783
144	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A9NW (SE)	600	-	314409 187802
145	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A14NW (E)	626	-	314596 188259
146	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SE (N)	647	-	314149 188877
147	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A18SW (NW)	684	-	313638 188901
148	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A19SW (NE)	691	-	314280 188873
149	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A14NE (E)	760	-	314730 188232
150	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A19SW (NE)	780	-	314581 188740
151	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A19SW (NE)	782	-	314462 188862
152	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8SE (S)	869	-	314038 187324
153	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8SW (S)	955	-	313853 187240
154	**Registered Landfill Sites** Licence Holder: Griff Davies & Sons (Motors) Ltd Licence Reference: 23 (16) Site Location: Off Mill Road, Caerphilly, Mid Glamorgan Licence Easting: 314700 Licence Northing: 187650 Operator Location: Mill Road, Caerphilly, Mid Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1981 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert,Non-Tox,Non-Flam.Builders Waste Subsoil Prohibited Waste: Waste N.O.S	A9NE (SE)	924	4	314700 187650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: South Wales Upper Coal Measures Formation	A13NE (SW)	0	1	313931 188232
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (SW)	0	1	313931 188232
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	30	1	314000 188232
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	67	1	313909 188341
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	152	1	313769 188333
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	152	1	313783 188355
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	161	1	313833 188413

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	209	1	313701 188127
	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	A13NE (N)	226	1	313931 188500
	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	A13SW (SW)	258	1	313747 188000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	261	1	313782 188500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	302	1	313664 188015
	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	A13SW (S)	309	1	313820 187909

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	328	1	313643 188000
	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	A14NW (E)	380	1	314350 188254
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	387	1	313536 188059
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (NW)	543	1	313419 188500
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	545	1	313389 188000
	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	A12NE (NW)	585	1	313373 188500

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	595	1	313339 188438
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	727	1	313196 188000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	780	1	313627 189000
	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	A12NW (W)	783	1	313161 188500
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (W)	929	1	312965 188144
155	**BGS Recorded Mineral Sites** Site Name: Ty-Isaf Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158679 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (N)	0	1	313923 188259

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	**BGS Recorded Mineral Sites** Site Name: Ty-Isaf Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158678 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (E)	104	1	314073 188269
157	**BGS Recorded Mineral Sites** Site Name: Graig-Wen Cottage Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158677 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (N)	118	1	313876 188386
158	**BGS Recorded Mineral Sites** Site Name: Bowls Inn Location: Abertridwr, Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 160533 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	135	1	313834 188092
159	**BGS Recorded Mineral Sites** Site Name: Tir-Gibbon Colliery Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176326 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (E)	154	1	314122 188229
160	**BGS Recorded Mineral Sites** Site Name: Pen-Yr-Heol Pit Location: Abertridwr, Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 160534 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	436	1	314191 187826
161	**BGS Recorded Mineral Sites** Site Name: Tir-Gibbon Colliery Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 160550 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	456	1	314313 187913

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	**BGS Recorded Mineral Sites** Site Name: Genea'R-Glyn Colliery Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158680 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	670	1	314618 188427
163	**BGS Recorded Mineral Sites** Site Name: Cwm-Ifor Location: Abertridwr, Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158675 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	702	1	313648 188924
164	**BGS Recorded Mineral Sites** Site Name: Genea'R-Glyn Colliery Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158681 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	883	1	314835 188433
165	**BGS Recorded Mineral Sites** Site Name: Tir-Cwm Location: Abertridwr, Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 158685 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	916	1	313161 188798
166	**BGS Recorded Mineral Sites** Site Name: Genea'R-Glyn Colliery Location: Caerphilly, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176323 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grovesend Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	932	1	314812 188655
	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.	A13NE (SW)	0	6	313931 188232

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (SW)	0	-	313931 188232
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	147	1	313806 188093
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	147	1	313806 188093
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	67	1	313909 188341
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	136	1	313953 188403
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	156	1	313750 188145
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	173	1	313863 188440
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	210	1	313776 188039
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	234	1	313659 188240
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	67	1	313909 188341
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	147	1	313806 188093
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	46	1	314014 188225
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	209	1	313701 188127

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	313931 188232

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	**Contemporary Trade Directory Entries** Name: Euro Fluid 88 Ltd Location: Welland Buildings, Penyrheol, Caerphilly, Mid Glamorgan, CF83 2AP Classification: Hydraulic Equipment & Accessories - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	73	-	313818 188216
168	**Contemporary Trade Directory Entries** Name: Merry Maids Of Cardiff Location: Plas Newydd, Penyrheol, Caerphilly, Mid Glamorgan, CF83 2AP Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	98	-	313815 188151
169	**Contemporary Trade Directory Entries** Name: Celtic Windscreens Location: 21, Cefn-y-Lon, Caerphilly, Mid Glamorgan, CF83 2JS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	336	-	313920 188610
170	**Contemporary Trade Directory Entries** Name: Newmans Location: St. Cenydd Road, Caerphilly, Mid Glamorgan, CF83 2RP Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	418	-	314102 187800
170	**Contemporary Trade Directory Entries** Name: Texaco Service Station Location: St Cenydd Road, Caerphilly, Mid Glamorgan, CF83 2RP Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned to the address or location	A8NE (S)	419	-	314102 187799
171	**Contemporary Trade Directory Entries** Name: Goodcall Tyers & Air Conditioning Location: Bryn Yr Ysgol, Caerphilly, Mid Glamorgan, CF83 2BY Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18SW (NW)	447	-	313651 188637
172	**Contemporary Trade Directory Entries** Name: Telecom Solutions Uk Location: 21, Heol Fawr, Caerphilly, Mid Glamorgan, CF83 2JU Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	459	-	313942 188732
173	**Contemporary Trade Directory Entries** Name: Oasis Location: 23, Carmarthen Court, CAERPHILLY, Mid Glamorgan, CF83 2TX Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	499	-	313718 187746
174	**Contemporary Trade Directory Entries** Name: W J P Cleaning Services Location: 128, Heol Aneurin, Caerphilly, Mid Glamorgan, CF83 2PF Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	533	-	314060 188786
175	**Contemporary Trade Directory Entries** Name: T W S Equipment Services Location: 8, Raglan Court, Caerphilly, CF83 2TF Classification: Plant & Machinery Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	549	-	313847 187650
176	**Contemporary Trade Directory Entries** Name: Unique Blinds Location: 39, Pen-y-Bryn, Caerphilly, Mid Glamorgan, CF83 2JY Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	605	-	314219 188806
177	**Contemporary Trade Directory Entries** Name: Budge Blinds Location: 10, Heol Cwm Ifor, Caerphilly, Mid Glamorgan, CF83 2EU Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	613	-	313678 188840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Contemporary Trade Directory Entries** Name: Ashley Location: 26, Monmouth Court, Caerphilly, Mid Glamorgan, CF83 2TG Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	621	-	313729 187609
179	**Contemporary Trade Directory Entries** Name: B & J Williams Location: 88, Y Cilgant, Caerphilly, Mid Glamorgan, CF83 2NB Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	644	-	314386 188747
179	**Contemporary Trade Directory Entries** Name: B & J Williams Location: 88, Y Cilgant, Caerphilly, Mid Glamorgan, CF83 2NB Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	644	-	314386 188747
180	**Contemporary Trade Directory Entries** Name: Locust Sports Location: Ty Energlyn,Heol Las, Caerphilly, Mid Glamorgan, CF83 2TT Classification: Sports Equipment Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	652	-	314573 188505
181	**Contemporary Trade Directory Entries** Name: Style-Clean Location: 17, Pembroke Court, Caerphilly, Mid Glamorgan, CF83 2TN Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	687	-	313576 187603
182	**Contemporary Trade Directory Entries** Name: Ces Location: 36, Brynawel, Caerphilly, Mid Glamorgan, CF83 2EX Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	723	-	313865 188996
183	**Contemporary Trade Directory Entries** Name: Arkana Designs Ltd Location: Arkana Designs Ltd, Brynhyfryd, Caerphilly, CF83 2AF Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	772	-	314646 187856
184	**Contemporary Trade Directory Entries** Name: Gary Owen 365 Ltd Location: 9, Court Road, Caerphilly, Mid Glamorgan, CF83 2QW Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	849	-	314759 187935
185	**Contemporary Trade Directory Entries** Name: Scaffolding Supplies Direct Ltd Location: 1, Cae Ffynnon, Energlyn, Caerphilly, Mid Glamorgan, CF83 2UT Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	850	-	314511 188911
186	**Contemporary Trade Directory Entries** Name: Commercial Motors Uk Ltd Location: Graig-y-Fedw, Abertridwr, Caerphilly, Mid Glamorgan, CF83 4AS Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	911	-	313162 188791
187	**Contemporary Trade Directory Entries** Name: Print One Promotions Ltd Location: 27, Pentwyn Isaf, Caerphilly, CF83 2NR Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	931	-	314753 188759
188	**Contemporary Trade Directory Entries** Name: Beetle Transport Location: 11, Heol Rhos, Caerphilly, Mid Glamorgan, CF83 2BE Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	966	-	313929 187223

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	**Fuel Station Entries** Name: Mfg Caerphilly Location: St Cenydd Road , , Caerphilly, Caerphilly, CF83 2RP Brand: Texaco Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A8NE (S)	419	-	314102 187799
190	**Points of Interest - Commercial Services** Name: Celtic Windscreens Location: 21 Cefn-y-Lon, Penyrheol, Caerphilly, CF83 2JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (N)	335	7	313919 188609
190	**Points of Interest - Commercial Services** Name: Celtic Windscreens Location: 21 Cefn-y-Lon, Caerphilly, CF83 2JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (N)	336	7	313920 188610
191	**Points of Interest - Commercial Services** Name: Mfg Caerphilly Location: Service Station, St Cenydd Road, Trecenydd, Caerphilly, CF83 2RP Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	419	7	314102 187799
191	**Points of Interest - Commercial Services** Name: Car Wash Location: St Cenydd Road, Caerphilly, Mid Glamorgan, CF83 2RP Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	419	7	314102 187799
192	**Points of Interest - Commercial Services** Name: Goodcall Tyres & Air Conditioning Ltd Location: 3 Bryn yr Ysgol, Caerphilly, CF83 2BY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (NW)	454	7	313696 188673
193	**Points of Interest - Commercial Services** Name: Asw Motors Location: 19 Cae Marchog, Penyrheol, Caerphilly, CF83 2TZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	806	7	314563 188801
194	**Points of Interest - Commercial Services** Name: Gary Owen 365 Ltd Location: 9 Court Road, Caerphilly, CF83 2QW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	848	7	314759 187935
195	**Points of Interest - Commercial Services** Name: Commercial Motors UK Ltd Location: Graig-y-Fedw, Abertridwr, Caerphilly, CF83 4AS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	911	7	313162 188791
195	**Points of Interest - Commercial Services** Name: Commercial Motors UK Ltd Location: Graig-y-Fedw, Abertridwr, CF83 4AS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	917	7	313160 188799
196	**Points of Interest - Commercial Services** Name: A J H Associates G B Ltd Location: 53 St. Cenydd Road, Caerphilly, CF83 2TA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9SW (S)	987	7	314292 187263
197	**Points of Interest - Manufacturing and Production** Name: Tank Location: CF83 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	18	7	313880 188236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	**Points of Interest - Manufacturing and Production** Name: Poultry Houses Location: CF83 Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	378	7	314138 187861
198	**Points of Interest - Manufacturing and Production** Name: Poultry Houses Location: CF83 Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to address or location	A8NE (SE)	385	7	314141 187855
198	**Points of Interest - Manufacturing and Production** Name: Poultry Houses Location: CF83 Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	401	7	314158 187847
198	**Points of Interest - Manufacturing and Production** Name: E W Orchard & Son Location: Brontridwr Bungalow Orchards Poultry Farm, St Cenydd Road East, Trecenydd, Caerphilly, CF83 2RP Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to address or location	A8NE (SE)	426	7	314194 187840
198	**Points of Interest - Manufacturing and Production** Name: Poultry Houses Location: CF83 Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to address or location	A8NE (SE)	429	7	314142 187806
198	**Points of Interest - Manufacturing and Production** Name: Mr Welshegg Location: Poultry Farm, St Cenydd Road, Caerphilly, CF83 2RP Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to address or location	A8NE (SE)	430	7	314151 187809
199	**Points of Interest - Manufacturing and Production** Name: Works Location: CF83 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	488	7	314310 187860
200	**Points of Interest - Manufacturing and Production** Name: Business Centre Location: CF83 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	647	7	314564 188513
201	**Points of Interest - Manufacturing and Production** Name: Tank Location: CF83 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	703	7	314592 187903
201	**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	A9NE (SE)	740	7	314615 187865
202	**Points of Interest - Manufacturing and Production** Name: Little Quarry Location: CF83 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	852	7	314392 188995
203	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	398	7	314354 188147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	**Points of Interest - Public Infrastructure** Name: Cemetery Location: CF83 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	398	7	314354 188148
204	**Points of Interest - Public Infrastructure** Name: Texaco Service Station Location: St Cenydd Road, Caerphilly, CF83 2RP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	411	7	314102 187808
204	**Points of Interest - Public Infrastructure** Name: Caerphilly Murco Service Station Location: St Cenydd Road, Caerphilly, CF8 32RP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	416	7	314104 187803
204	**Points of Interest - Public Infrastructure** Name: Caerphilly Service Station Location: St, Cenydd Road, Caerphilly, CF83 2RP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	419	7	314102 187799
205	**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	A13NE (NE)	27	7	313995 188266
205	**Points of Interest - Recreational and Environmental** Name: Playground Location: CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	53	7	314019 188277
205	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Heol Aneurin), CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (NE)	70	7	314028 188294
205	**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	A13NE (NE)	71	7	314029 188294
205	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Heol Aneurin), CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	71	7	314029 188294
205	**Points of Interest - Recreational and Environmental** Name: Playground Location: CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	87	7	314040 188307
206	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Heol Graig Wen), CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	550	7	314367 188636
206	**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	A19SW (NE)	558	7	314377 188637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	**Points of Interest - Recreational and Environmental** Name: Play Area Location: (Pen-Y-Bryn), CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18SW (N)	611	7	313853 188882
207	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	613	7	313854 188884
208	**Points of Interest - Recreational and Environmental** Name: Playground Location: Third Avenue, CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	887	7	314483 187480
208	**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	A9SW (SE)	887	7	314483 187480
208	**Points of Interest - Recreational and Environmental** Name: Playground Location: Grange Close, CF83 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	896	7	314508 187488

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	**Ancient Woodland** Name: Not Supplied Reference: 17884 Area(m²): 46148.45 Type: Ancient and Semi-Natural Woodland	A13SW (SW)	101	2	313835 188130
210	**Ancient Woodland** Name: Not Supplied Reference: 12198 Area(m²): 2624.41 Type: Ancient and Semi-Natural Woodland	A18SW (N)	332	2	313797 188585
211	**Ancient Woodland** Name: Not Supplied Reference: 17891 Area(m²): 67200.71 Type: Ancient and Semi-Natural Woodland	A12NE (NW)	368	2	313566 188398
212	**Ancient Woodland** Name: Not Supplied Reference: 15759 Area(m²): 5149.57 Type: Ancient and Semi-Natural Woodland	A8NE (S)	386	2	313946 187803
213	**Ancient Woodland** Name: Not Supplied Reference: 15760 Area(m²): 7411.5 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	567	2	314374 187813
214	**Ancient Woodland** Name: Not Supplied Reference: 23020 Area(m²): 57215.27 Type: Restored Ancient Woodland Site	A12NE (NW)	631	2	313322 188497
215	**Ancient Woodland** Name: Not Supplied Reference: 15758 Area(m²): 4132.9 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	636	2	314401 187741
216	**Ancient Woodland** Name: Not Supplied Reference: 17892 Area(m²): 5422.99 Type: Ancient and Semi-Natural Woodland	A18NW (N)	786	2	313614 189001
217	**Ancient Woodland** Name: Not Supplied Reference: 17885 Area(m²): 6917.1 Type: Ancient and Semi-Natural Woodland	A14NE (E)	849	2	314819 188291
218	**Ancient Woodland** Name: Not Supplied Reference: 11871 Area(m²): 2503.1 Type: Ancient and Semi-Natural Woodland	A8SW (S)	960	2	313628 187285
219	**Ancient Woodland** Name: Not Supplied Reference: 12199 Area(m²): 9394.12 Type: Ancient and Semi-Natural Woodland	A17NE (N)	969	2	313583 189185
220	**Sites of Special Scientific Interest** Name: Gwaun Gledyr Multiple Areas: Y Total Area (m2): 282548.58 Source: Natural Resources Wales Reference: 147733wkk Designation Details: Biological Designation Date: 1st October 2009 Date Type: Notified	A8SW (S)	781	2	313674 187458

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Cardiff Council - Pollution Control Division	January 2020	Annual Rolling Update
Natural Resources Wales	November 2023	Annually
Rhondda Cynon Taff County Borough Council - Environmental Services	October 2017	Annual Rolling Update
Caerphilly County Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	February 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Natural Resources Wales	December 2023	Quarterly
Environment Agency - Welsh Region	January 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Cardiff Council - Pollution Control Division	March 2016	Variable
Caerphilly County Borough Council - Environmental Health Department	September 2014	Variable
Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	September 2014	Variable
Local Authority Pollution Prevention and Controls		
Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	December 2020	Annual Rolling Update
Cardiff Council - Pollution Control Division	March 2016	Annual Rolling Update
Caerphilly County Borough Council - Environmental Health Department	September 2014	Not Applicable
Local Authority Pollution Prevention and Control Enforcements		
Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	December 2020	Variable
Cardiff Council - Pollution Control Division	March 2016	Variable
Caerphilly County Borough Council - Environmental Health Department	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	February 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register		
Natural Resources Wales	February 2024	Quarterly
Environment Agency Wales - South East Area	January 2021	Quarterly
Water Abstractions		
Natural Resources Wales	February 2024	Quarterly
Environment Agency - Welsh Region	October 2023	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations Natural Resources Wales	January 2018	As notified
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
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	January 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South East Area	January 2023	Quarterly
Natural Resources Wales	October 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Natural Resources Wales	February 2024	Quarterly
Environment Agency Wales - South East Area	July 2021	Quarterly
Local Authority Landfill Coverage		
Caerphilly County Borough Council - Environmental Health Department	February 2003	Not Applicable
Cardiff Council	February 2003	Not Applicable
Rhondda Cynon Taff County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Caerphilly County Borough Council - Environmental Health Department	October 2018	
Cardiff Council	October 2018	
Rhondda Cynon Taff County Borough Council	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South East Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2024	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Rhondda Cynon Taff County Borough Council - Planning Department	February 2016	Variable
Caerphilly County Borough Council - Planning Department	January 2023	Variable
Cardiff Council - Regulatory Services	July 2023	Variable
Planning Hazardous Substance Consents		
Rhondda Cynon Taff County Borough Council - Planning Department	February 2016	Variable
Caerphilly County Borough Council - Planning Department	January 2023	Variable
Cardiff Council - Regulatory Services	October 2015	Variable

Data Currency

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2024	Quarterly
Points of Interest - Education and Health PointX	March 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2024	Quarterly
Points of Interest - Public Infrastructure PointX	March 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2024	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	October 2023	Bi-Annually
Areas of Adopted Green Belt		
Caerphilly County Borough Council	February 2024	Quarterly
Cardiff Council	February 2024	Quarterly
Rhondda Cynon Taff County Borough Council	February 2024	Quarterly
Areas of Unadopted Green Belt		
Caerphilly County Borough Council	February 2024	Quarterly
Cardiff Council	February 2024	Quarterly
Rhondda Cynon Taff County Borough Council	February 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	November 2023	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Caerphilly County Borough Council	February 2024	Bi-Annually
Cardiff Council	February 2024	Bi-Annually
Rhondda Cynon Taff County Borough Council	February 2024	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	February 2024	Bi-Annually
National Nature Reserves		
Natural Resources Wales	September 2023	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	March 2023	Bi-Annually
Ramsar Sites		
Natural Resources Wales	February 2024	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	October 2023	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	October 2023	Bi-Annually
Special Protection Areas		
Natural Resources Wales	October 2023	Bi-Annually

Data Suppliers

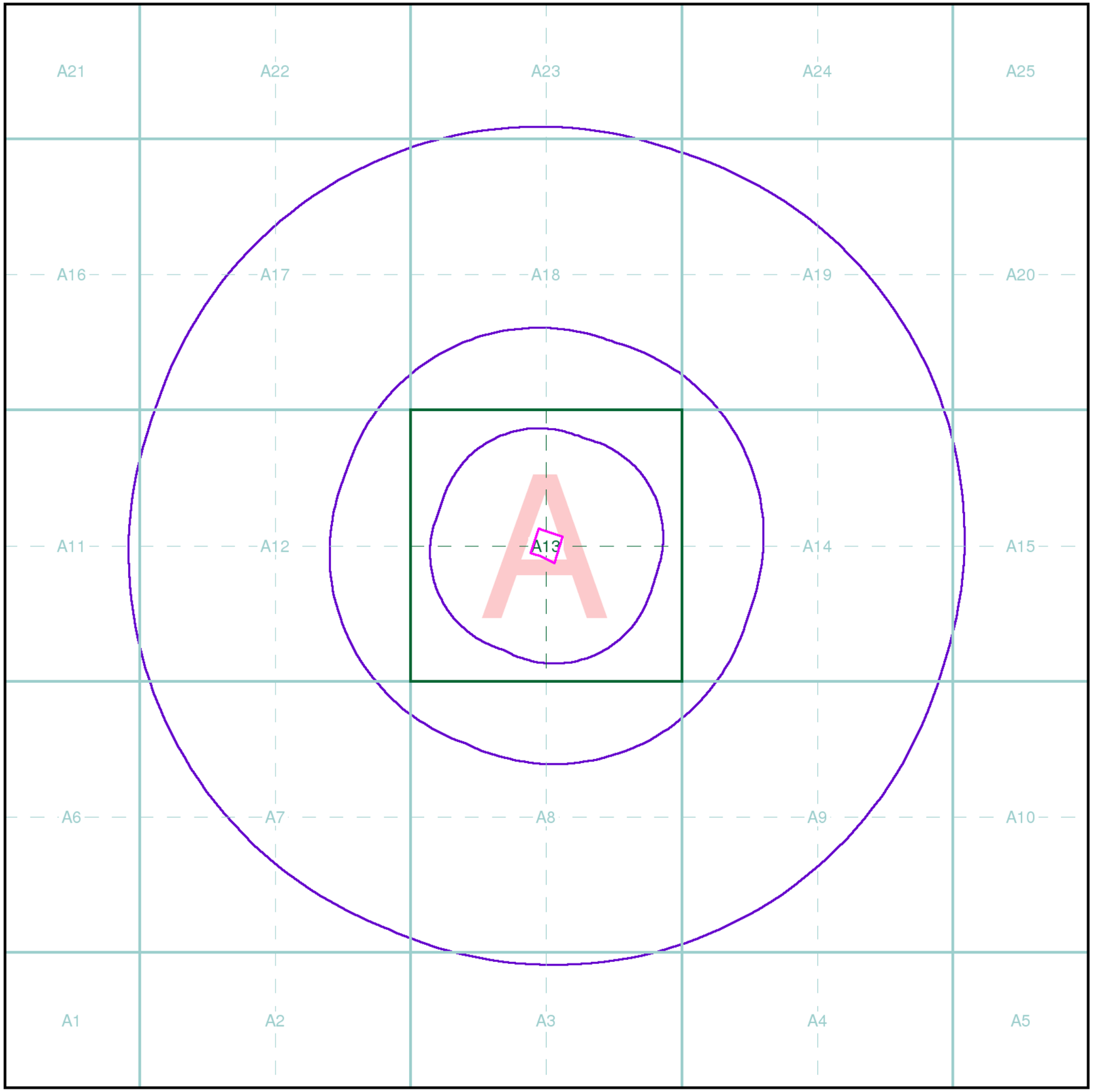
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Useful Contacts

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	**Caerphilly County Borough Council - Environmental Health Department** Pontllanfraith, Blackwood, NP12 2YW	Telephone: 01443 815588 Fax: 01443 864307 Website: www.caerphilly.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	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Cyfoeth Naturiol Cymru
Natural Resources Wales

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms J Rual, TFW Group Ltd, 5 Deryn Court, Wharfdale Road, Pentwyn, Cardiff, CF23 7HB

Order Details

Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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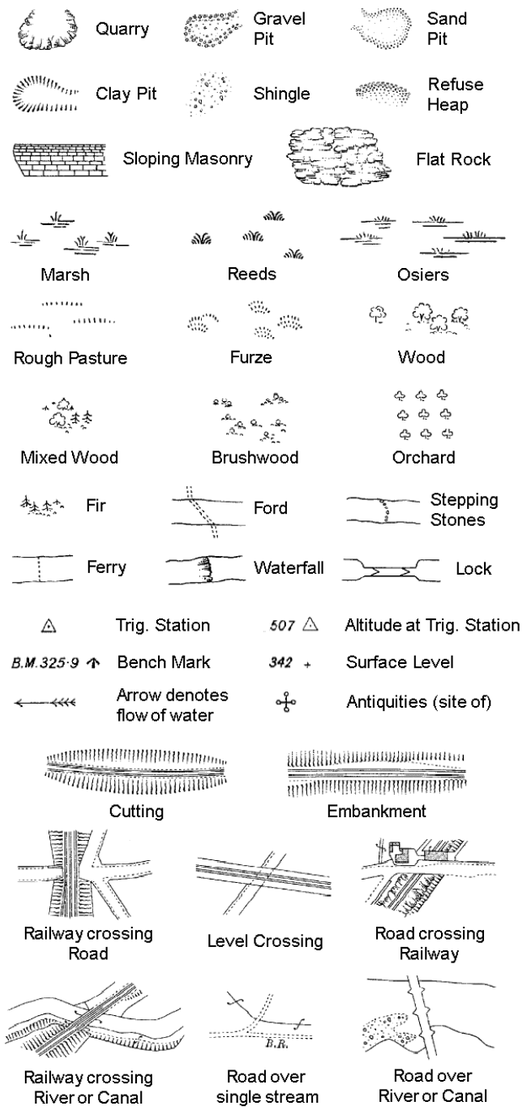
Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

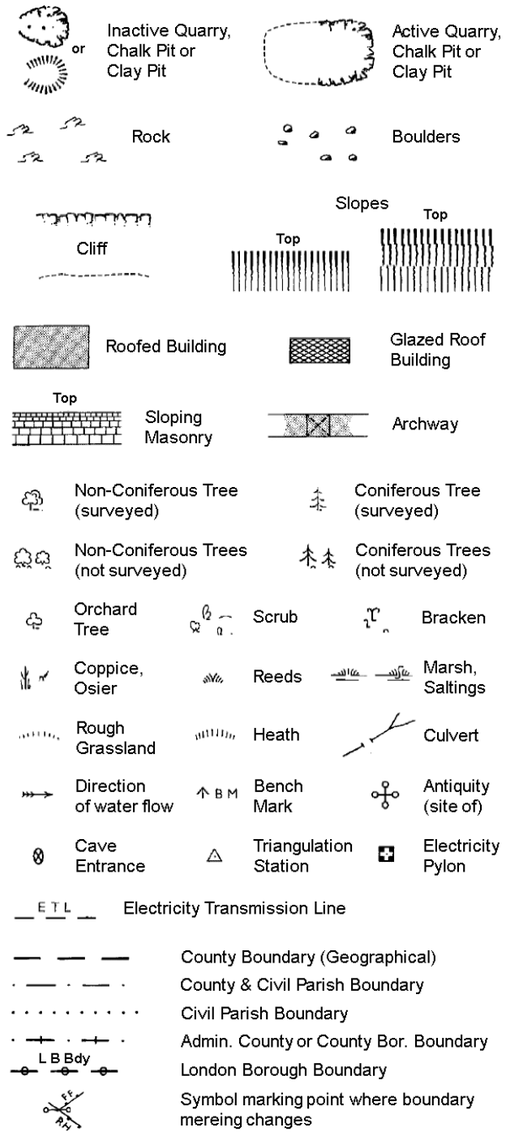
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

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

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

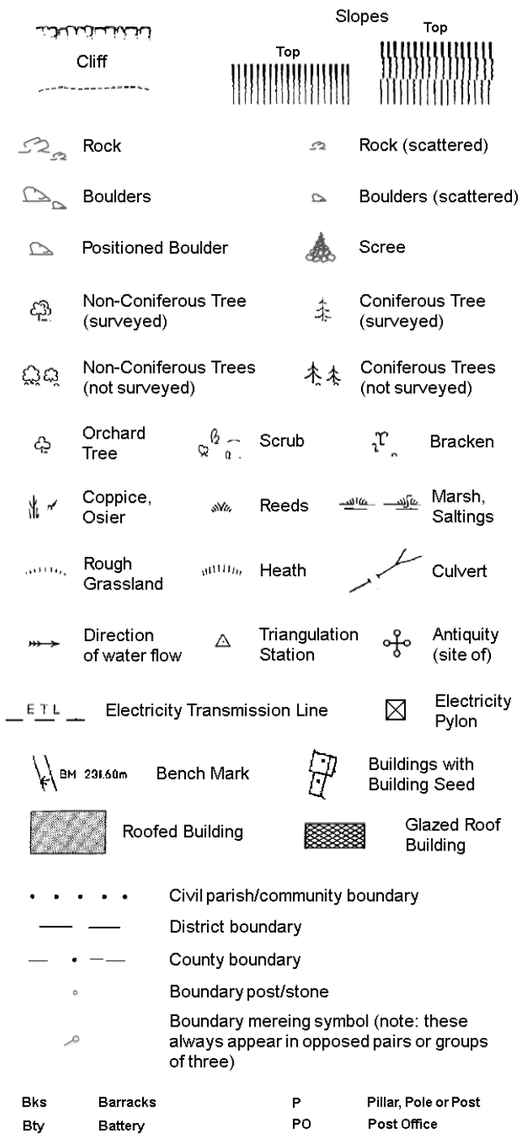
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

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

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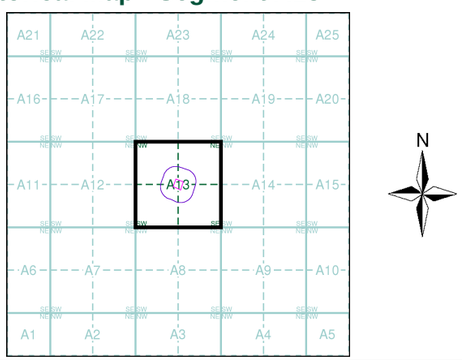
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1875 - 1878	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1920	4
Glamorganshire	1:2,500	1937	5
Additional SIMs	1:2,500	1960 - 1991	6
Ordnance Survey Plan	1:2,500	1961 - 1962	7
Ordnance Survey Plan	1:2,500	1970 - 1972	8
Ordnance Survey Plan	1:1,250	1975 - 1976	9
Additional SIMs	1:1,250	1982 - 1989	10
Additional SIMs	1:1,250	1988 - 1991	11
Ordnance Survey Plan	1:1,250	1989	12
Additional SIMs	1:2,500	1991	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1995	15
Large-Scale National Grid Data	1:1,250	1996	16
Historical Aerial Photography	1:2,500	2000	17

Historical Map - Segment A13



Order Details

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Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	100

Site Details

Site at 313950, 188370

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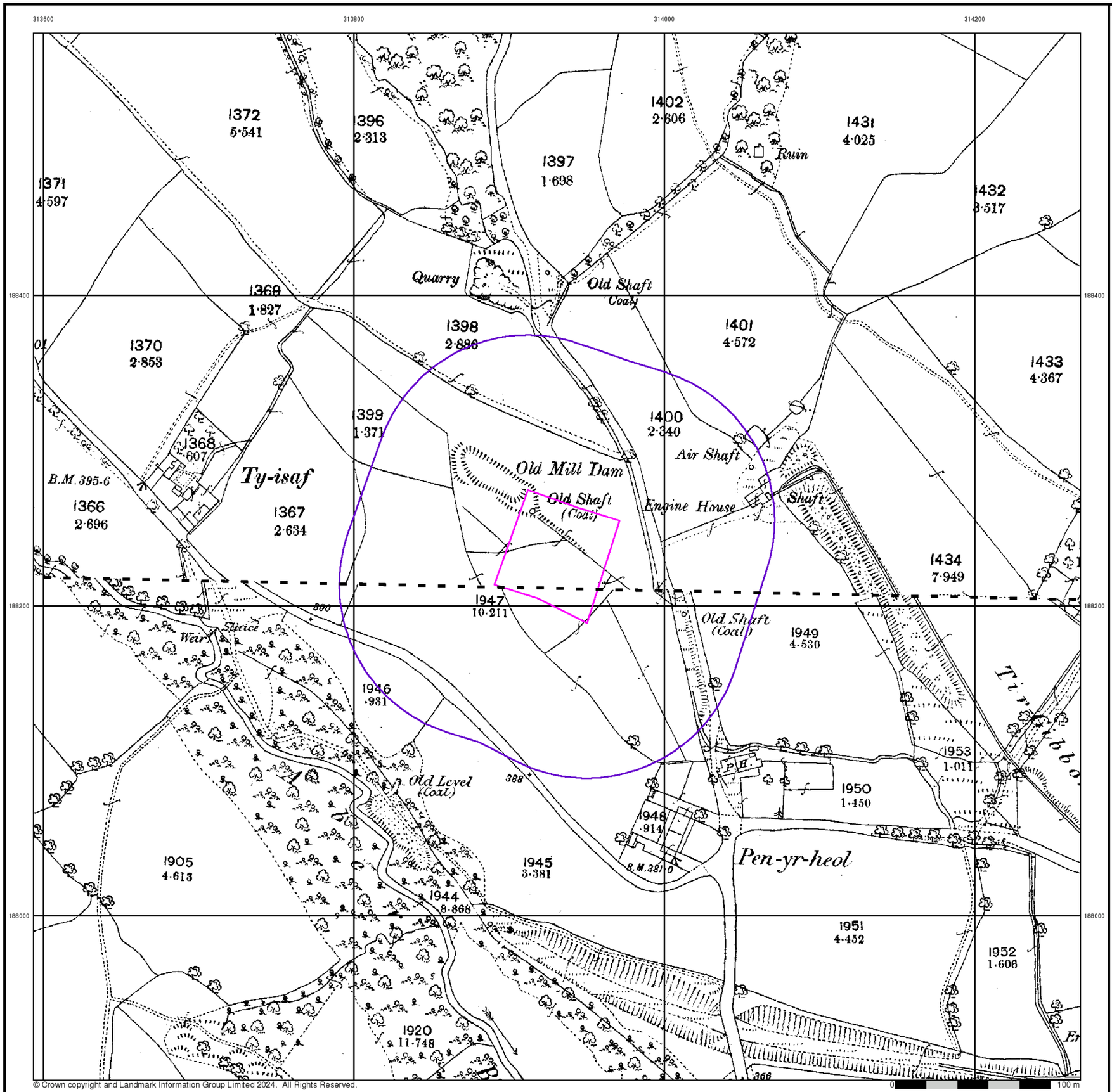

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Glamorganshire

Published 1875 - 1878

Source map scale - 1:2,500

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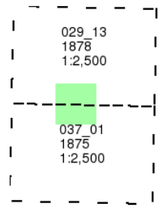
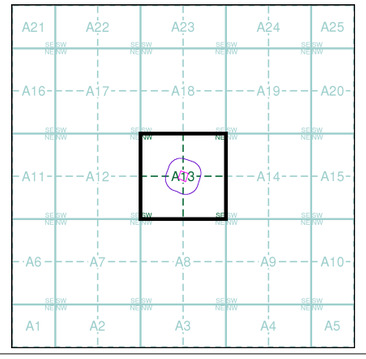
Map Name(s) and Date(s)



Historical Map - Segment A13



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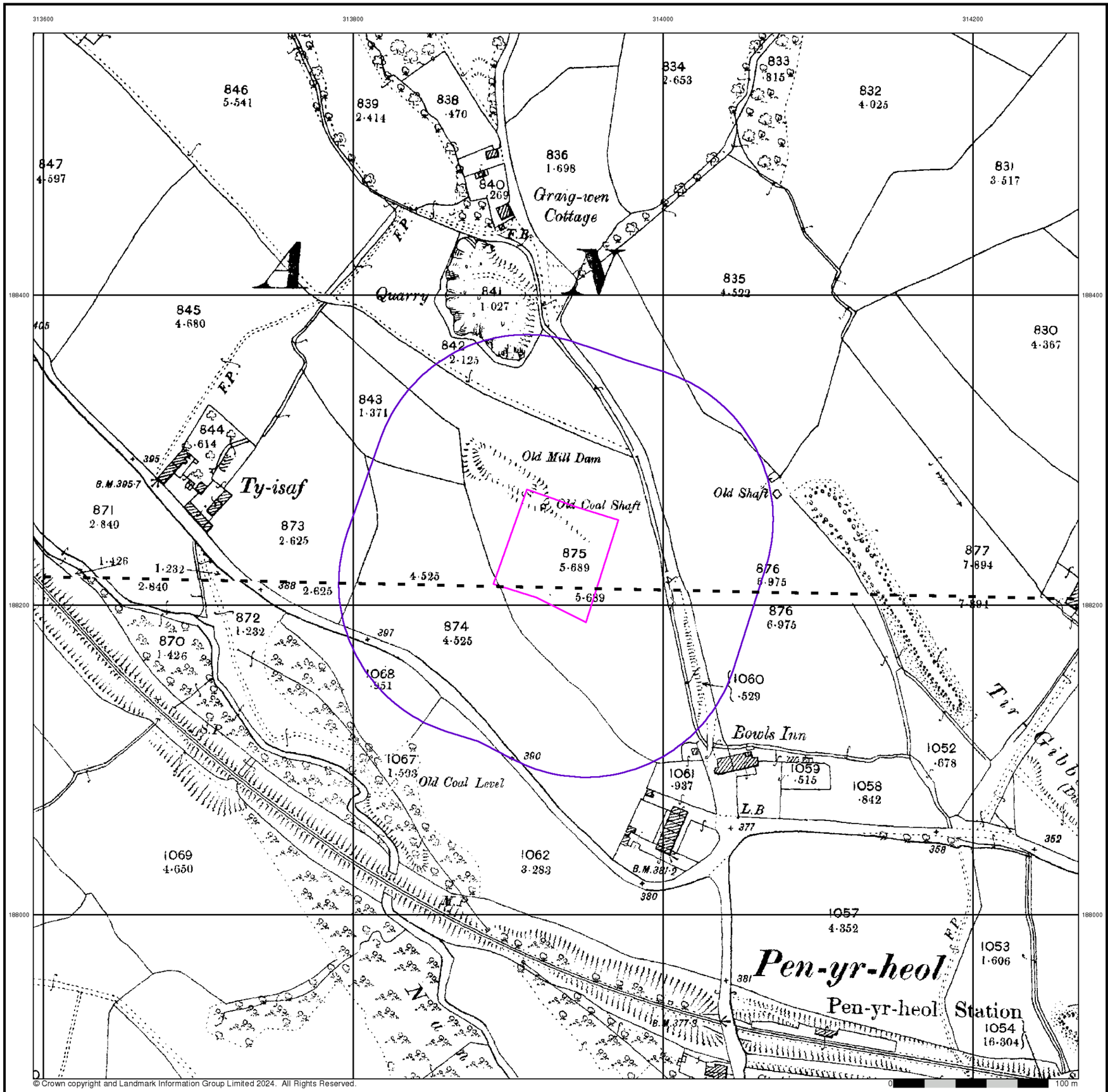

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Glamorganshire

Published 1900

Source map scale - 1:2,500

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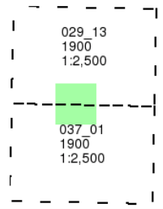
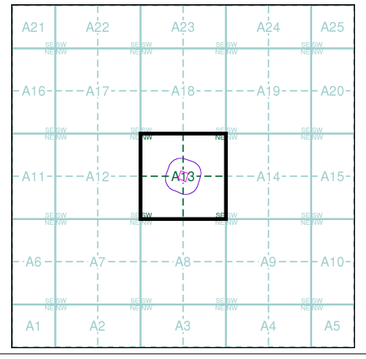
Map Name(s) and Date(s)



Historical Map - Segment A13



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Site Area (Ha):	0.42
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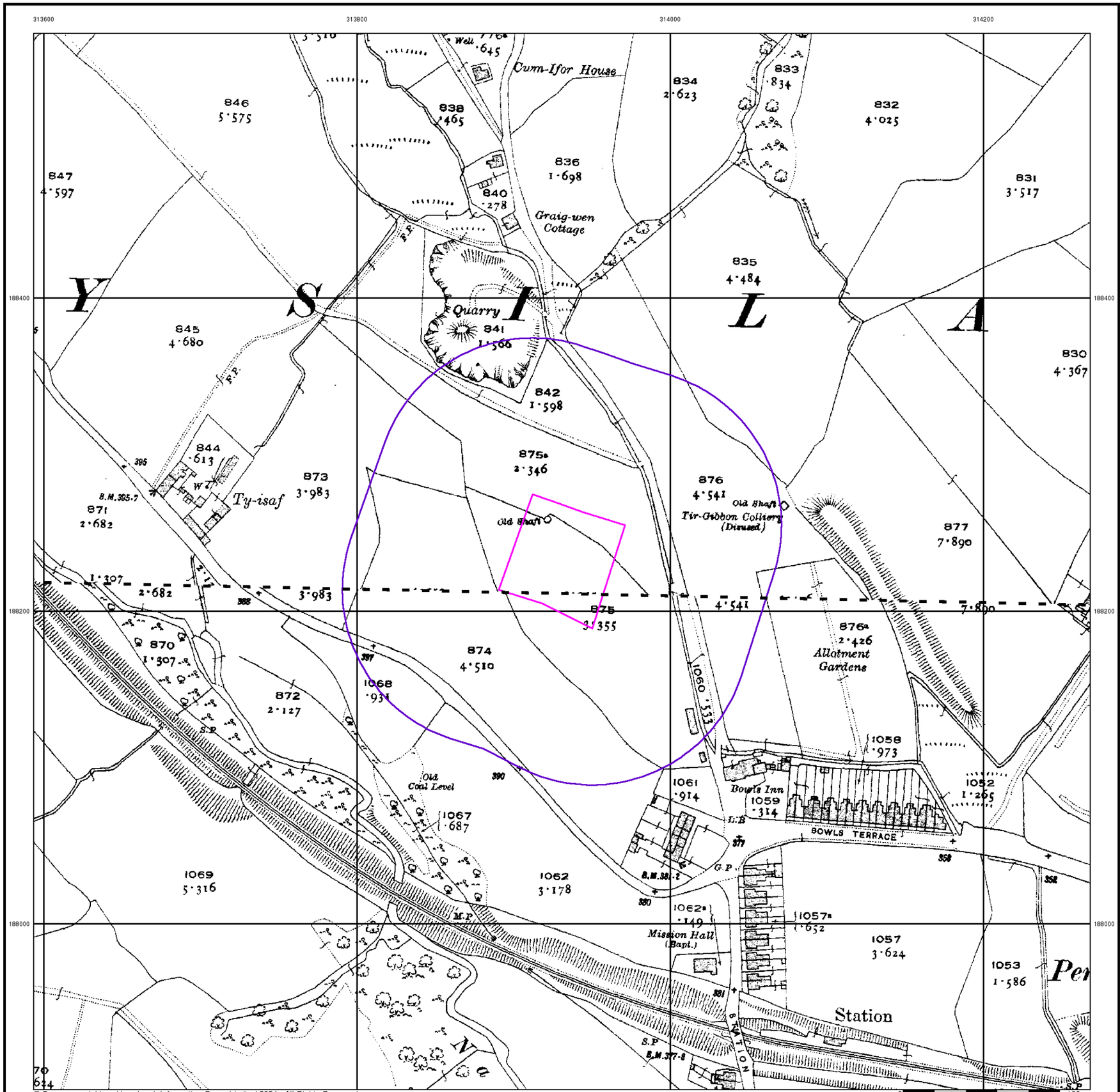

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Glamorganshire

Published 1920

Source map scale - 1:2,500

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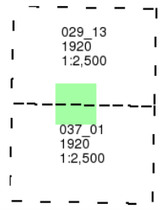
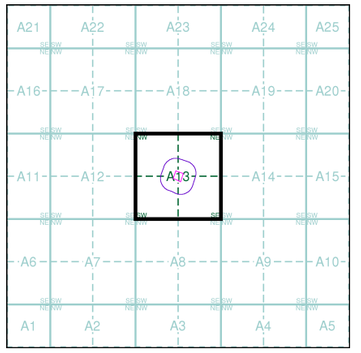
Map Name(s) and Date(s)



Historical Map - Segment A13



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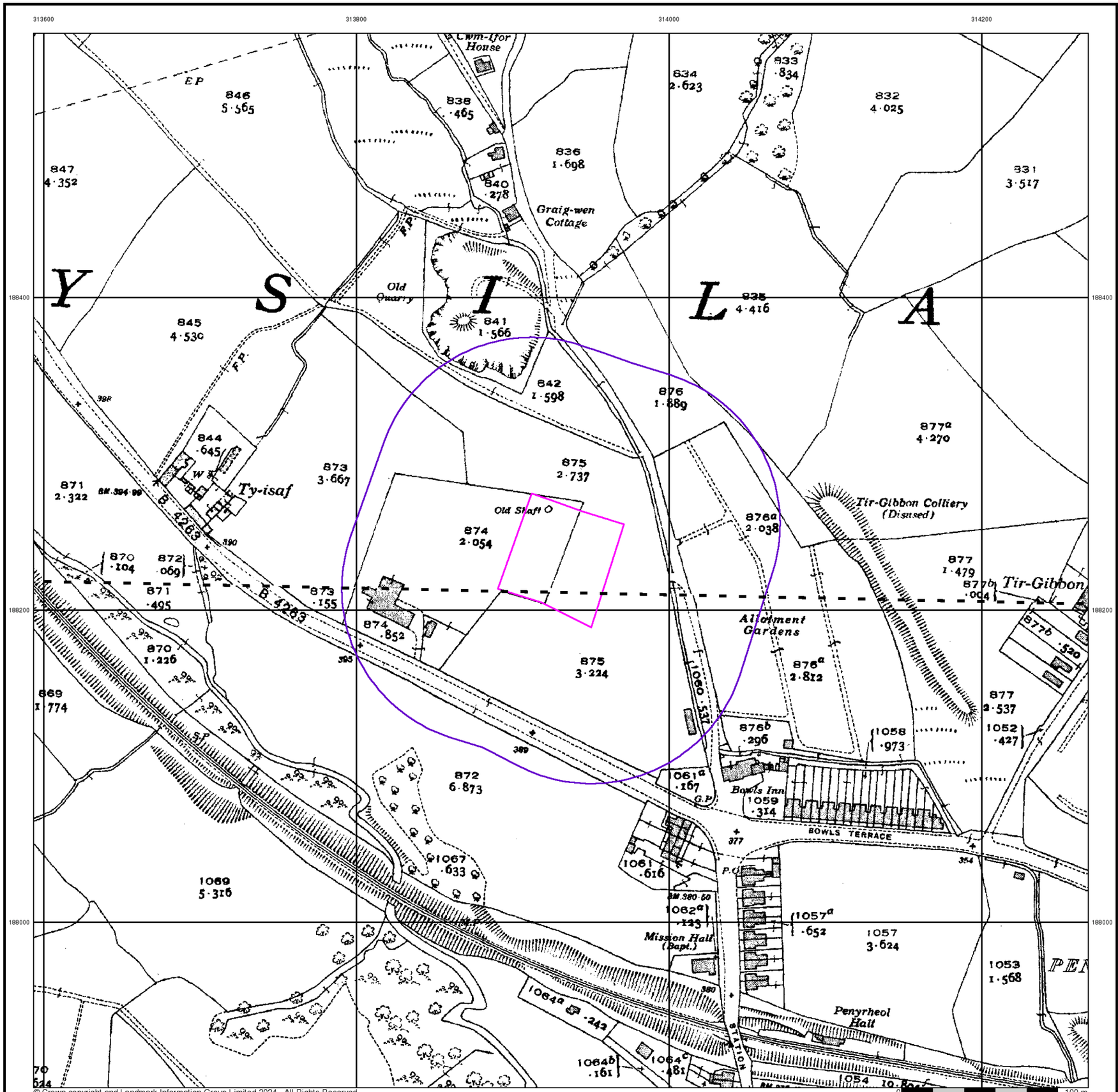

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Glamorganshire

Published 1937

Source map scale - 1:2,500

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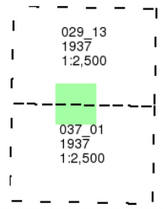
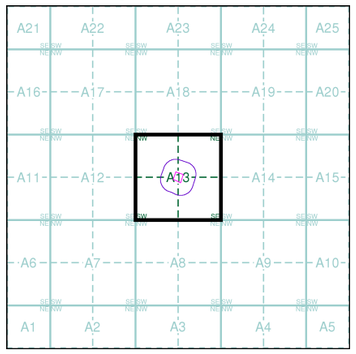
Map Name(s) and Date(s)



Historical Map - Segment A13



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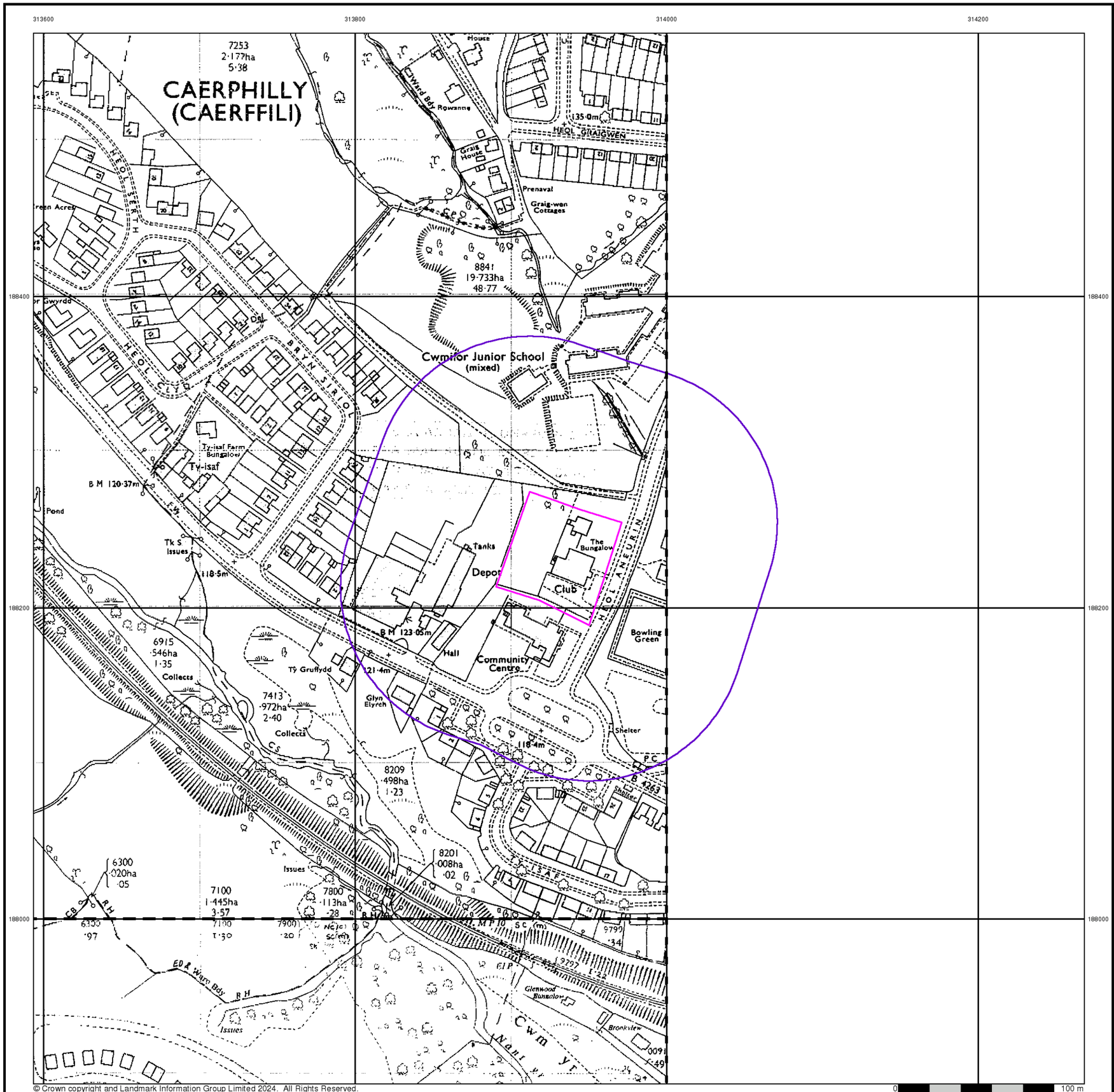

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Additional SIMs

Published 1960 - 1991

Source map scale - 1:2,500

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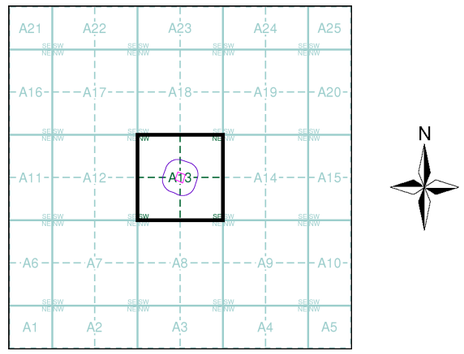
Map Name(s) and Date(s)

ST1388
1991
1:2,500

ST1387
1960
1:2,500

Historical Map - Segment A13



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Slice:	A
Site Area (Ha):	0.42
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Site Details

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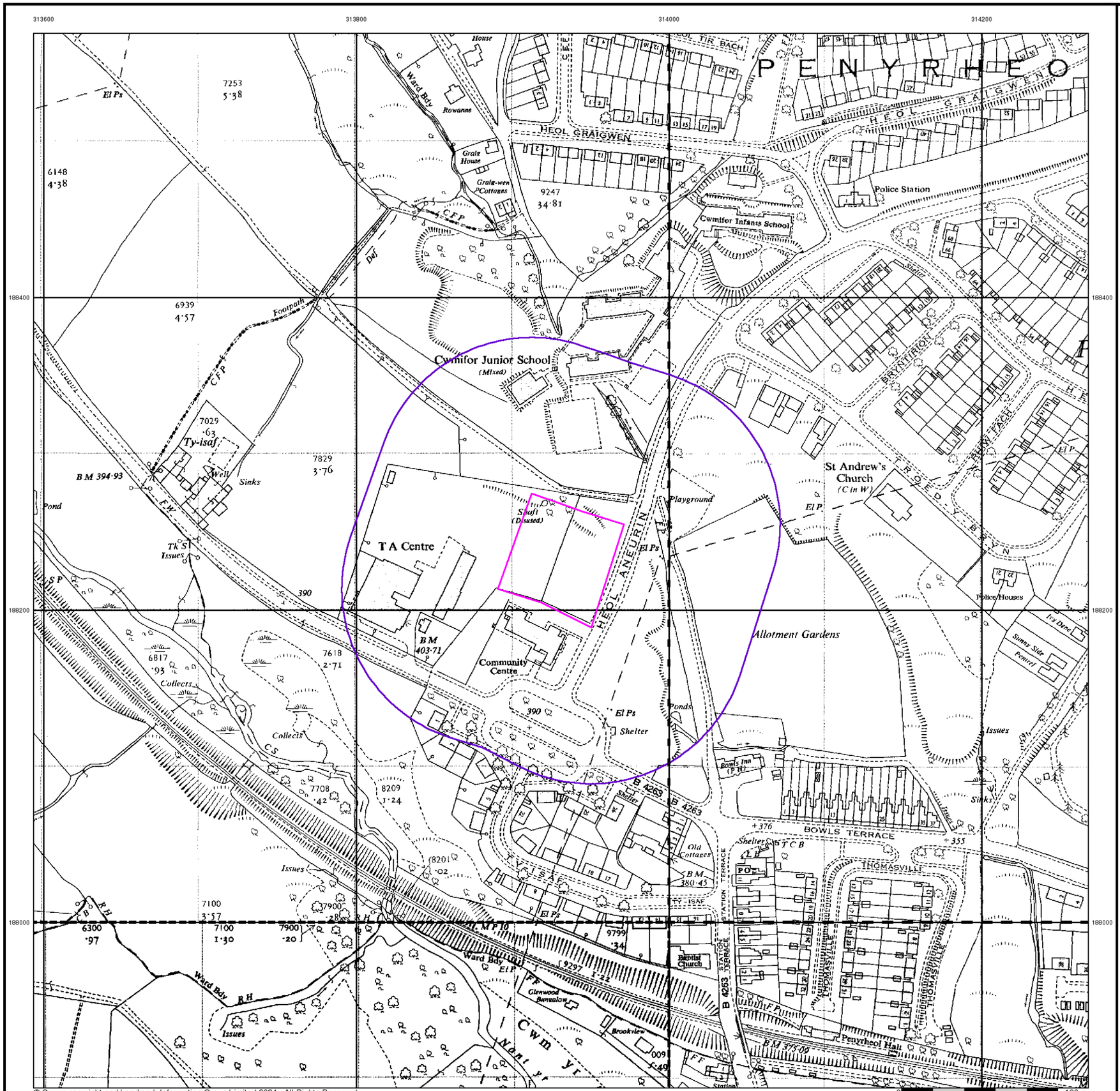

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Ordnance Survey Plan

Published 1961 - 1962

Source map scale - 1:2,500

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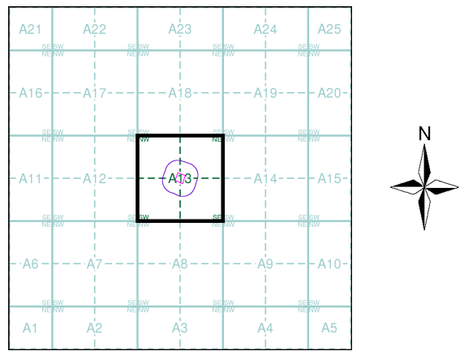
Map Name(s) and Date(s)

ST1388 1962 1:2,500	ST1488 1962 1:2,500
ST1387 1961 1:2,500	ST1487 1962 1:2,500

Historical Map - Segment A13



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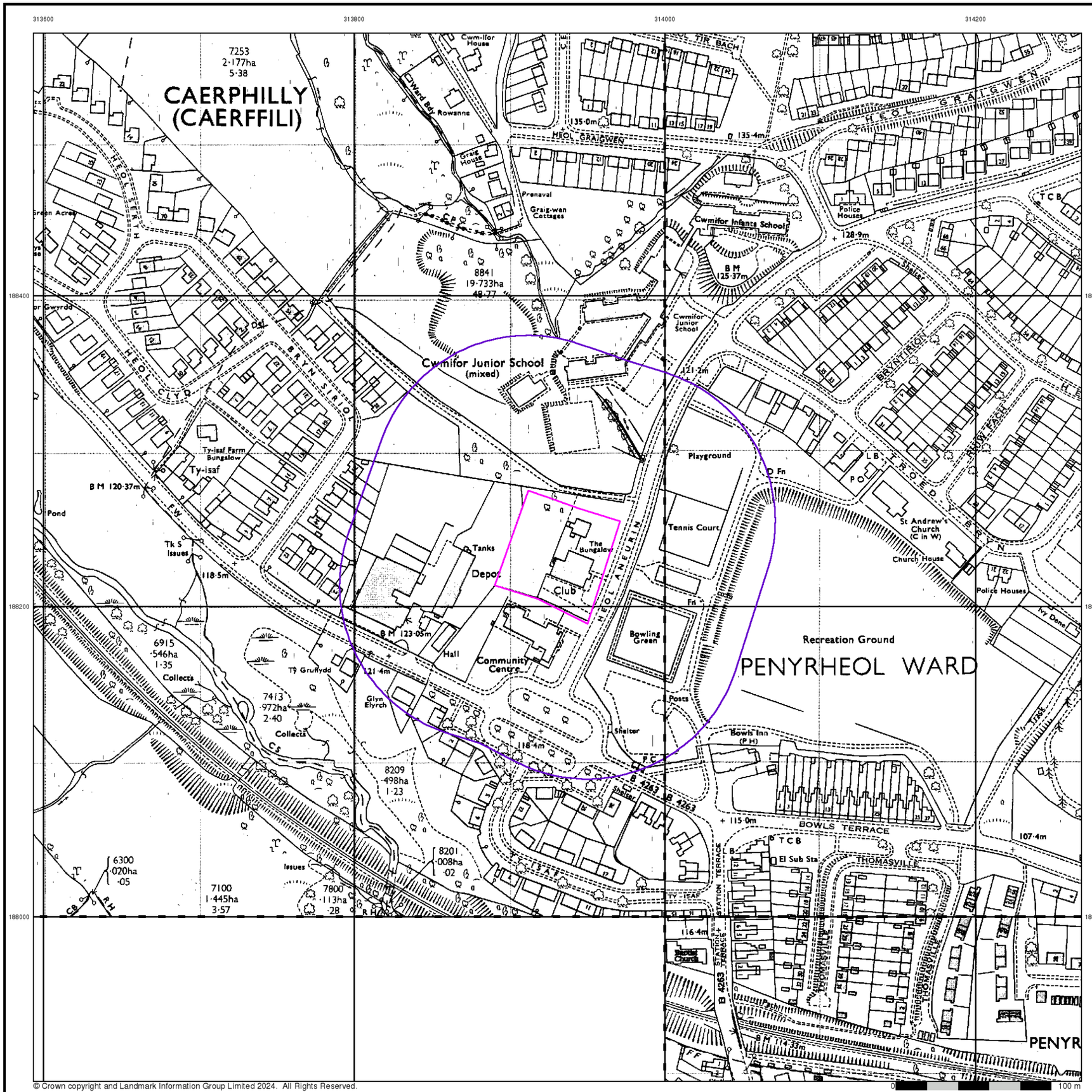

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Ordnance Survey Plan

Published 1970 - 1972

Source map scale - 1:2,500

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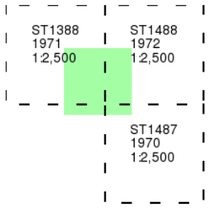
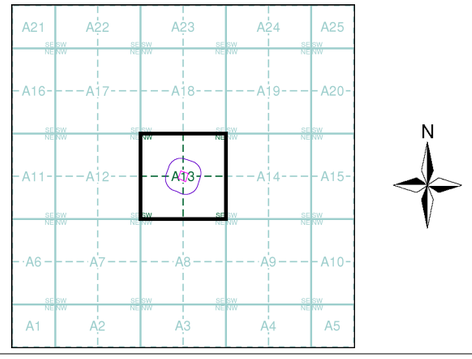
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Search Buffer (m):	100

Site Details

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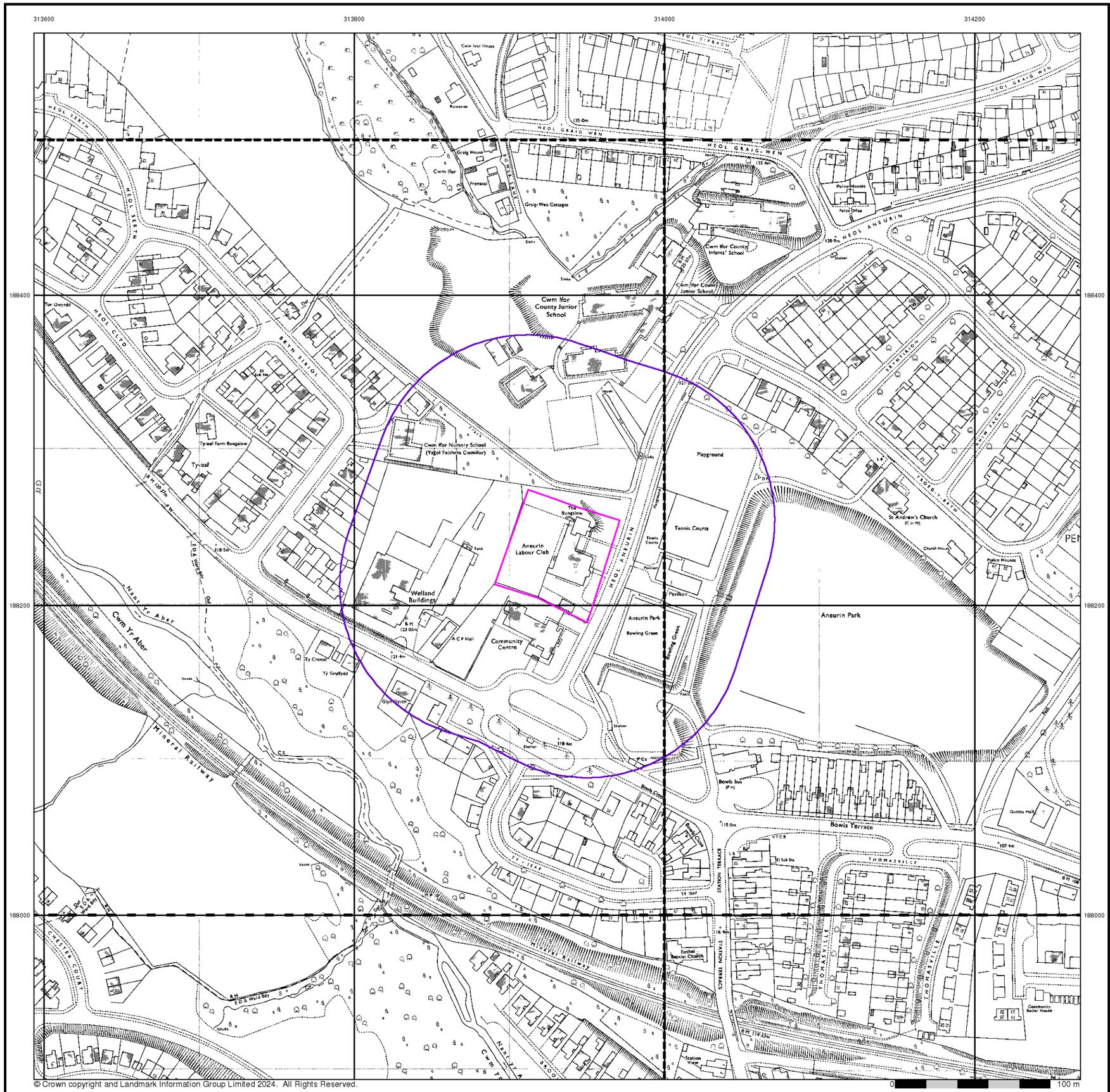

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Ordnance Survey Plan

Published 1975 - 1976

Source map scale - 1:1,250

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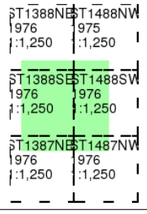
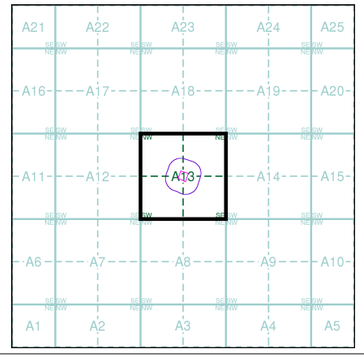
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Site Details

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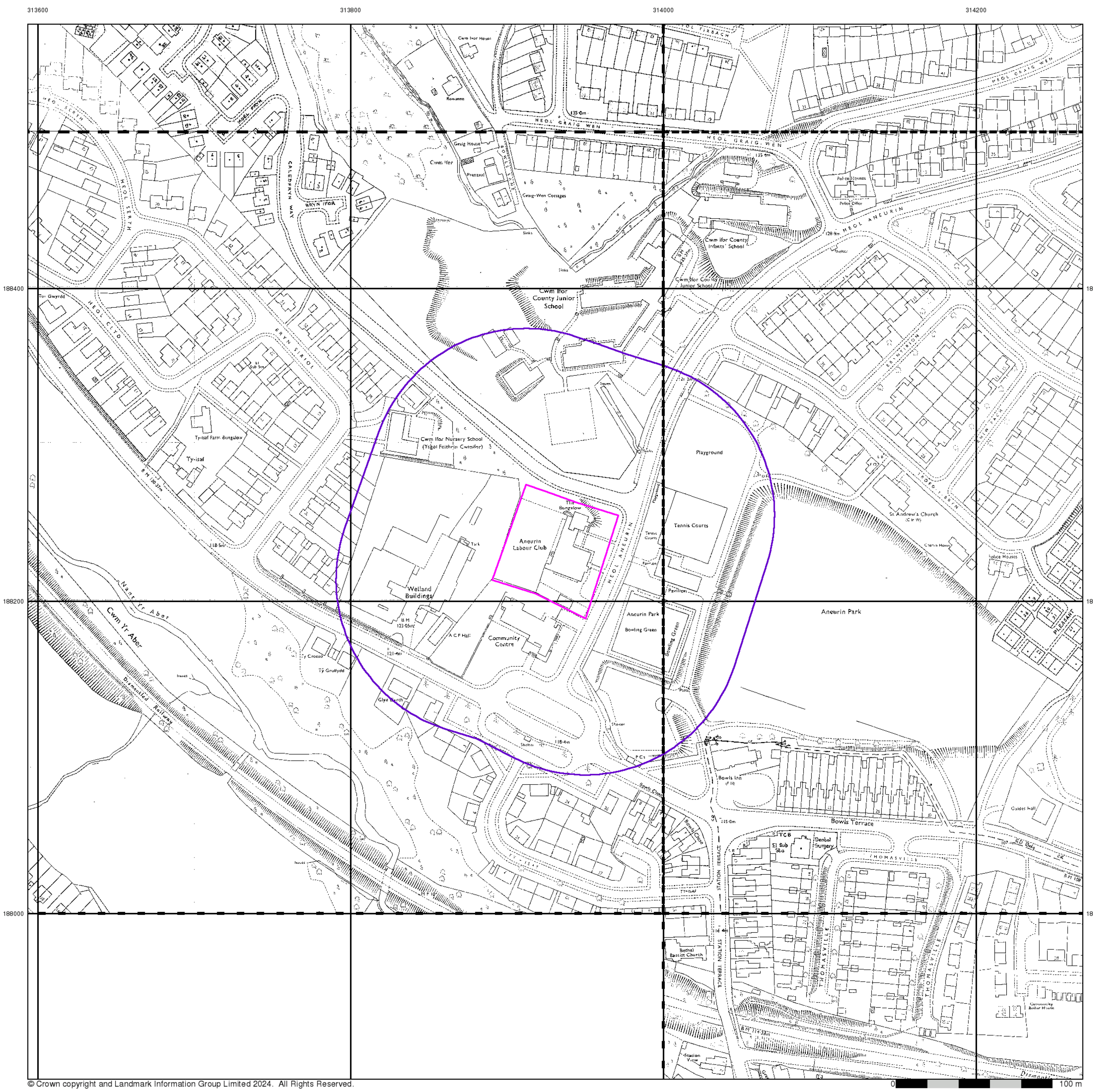

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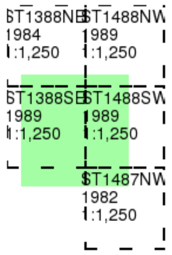
Additional SIMs

Published 1982 - 1989

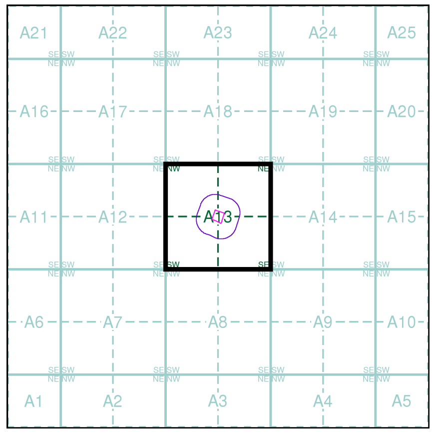
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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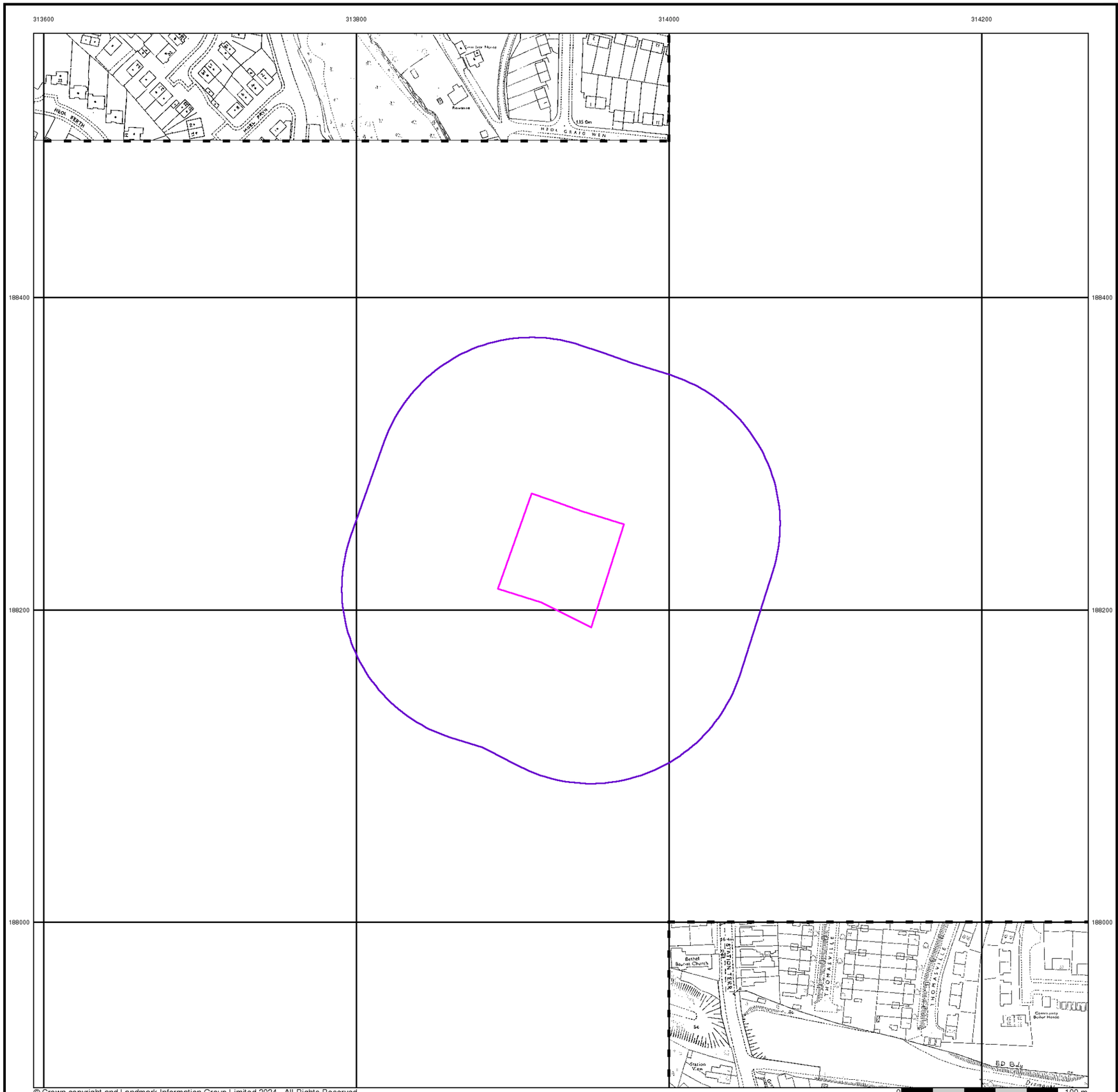

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Additional SIMs

Published 1988 - 1991

Source map scale - 1:1,250

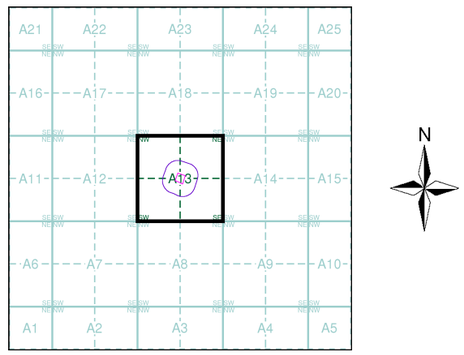
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

ST1388NE
1988
1:1,250

ST1487NW
1991
1:1,250

Historical Map - Segment A13



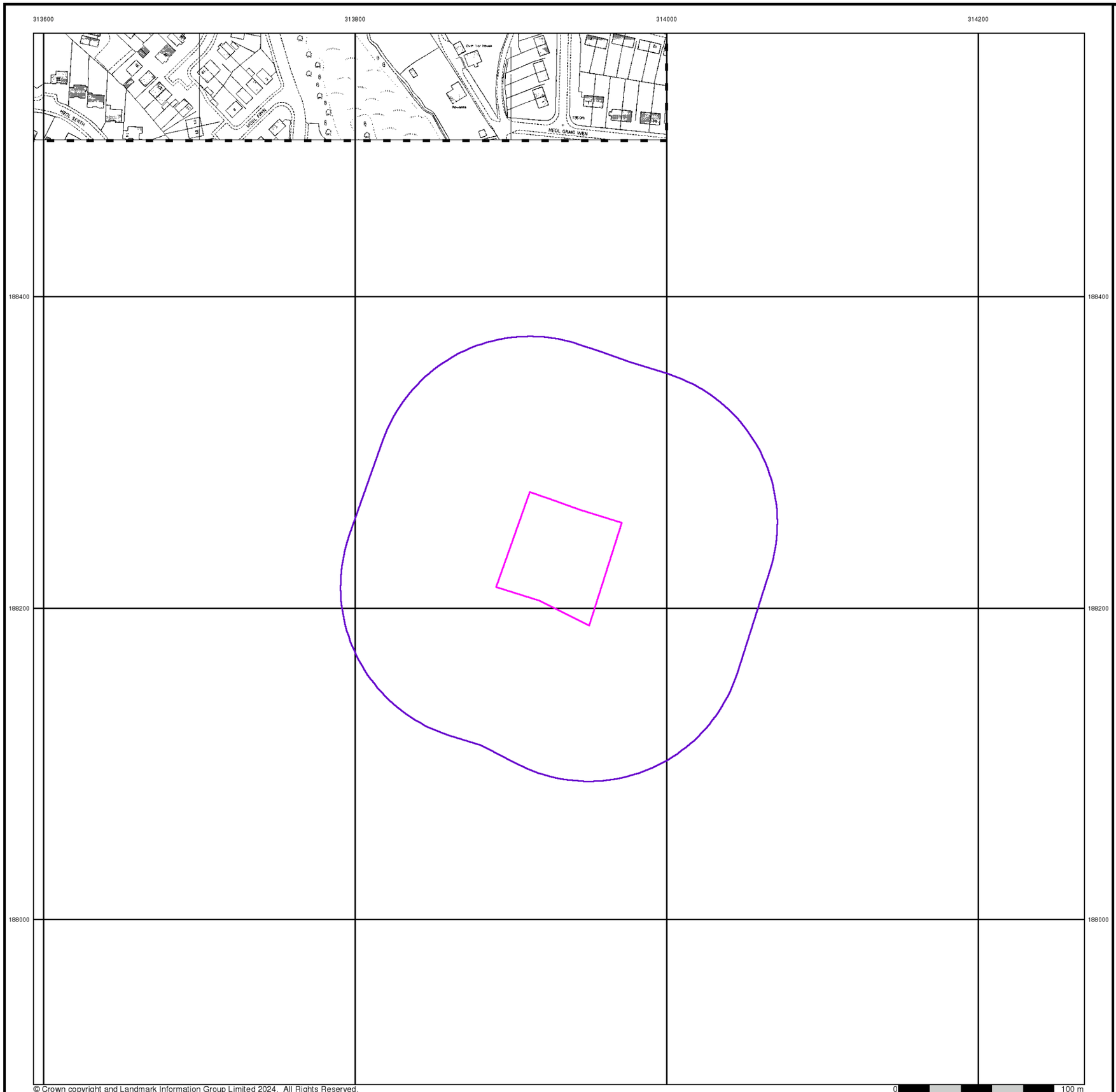
Order Details

Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	100

Site Details

Site at 313950, 188370

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



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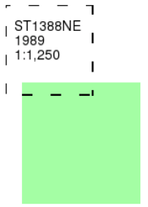
Ordnance Survey Plan

Published 1989

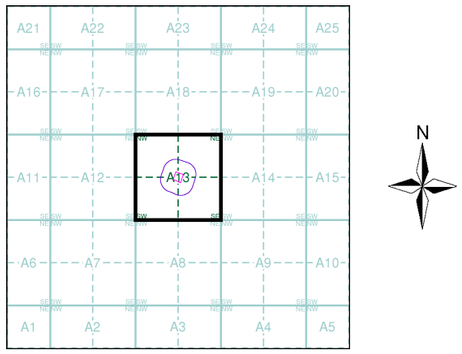
Source map scale - 1:1,250

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)



Historical Map - Segment A13



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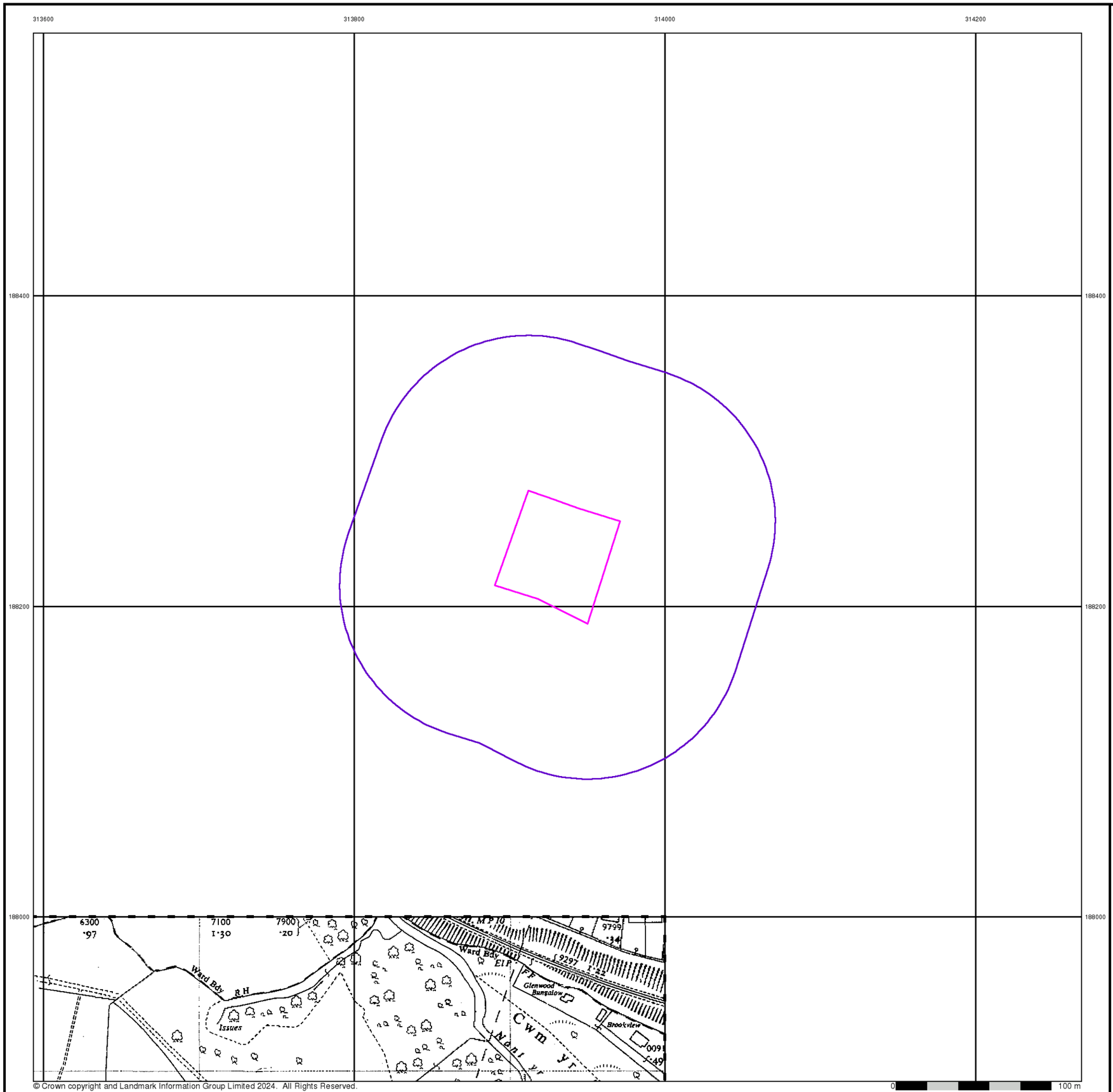

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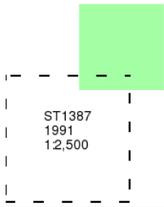
Additional SIMs

Published 1991

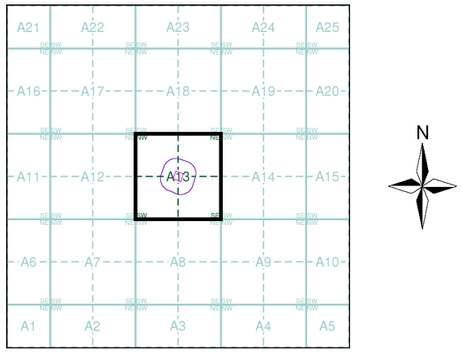
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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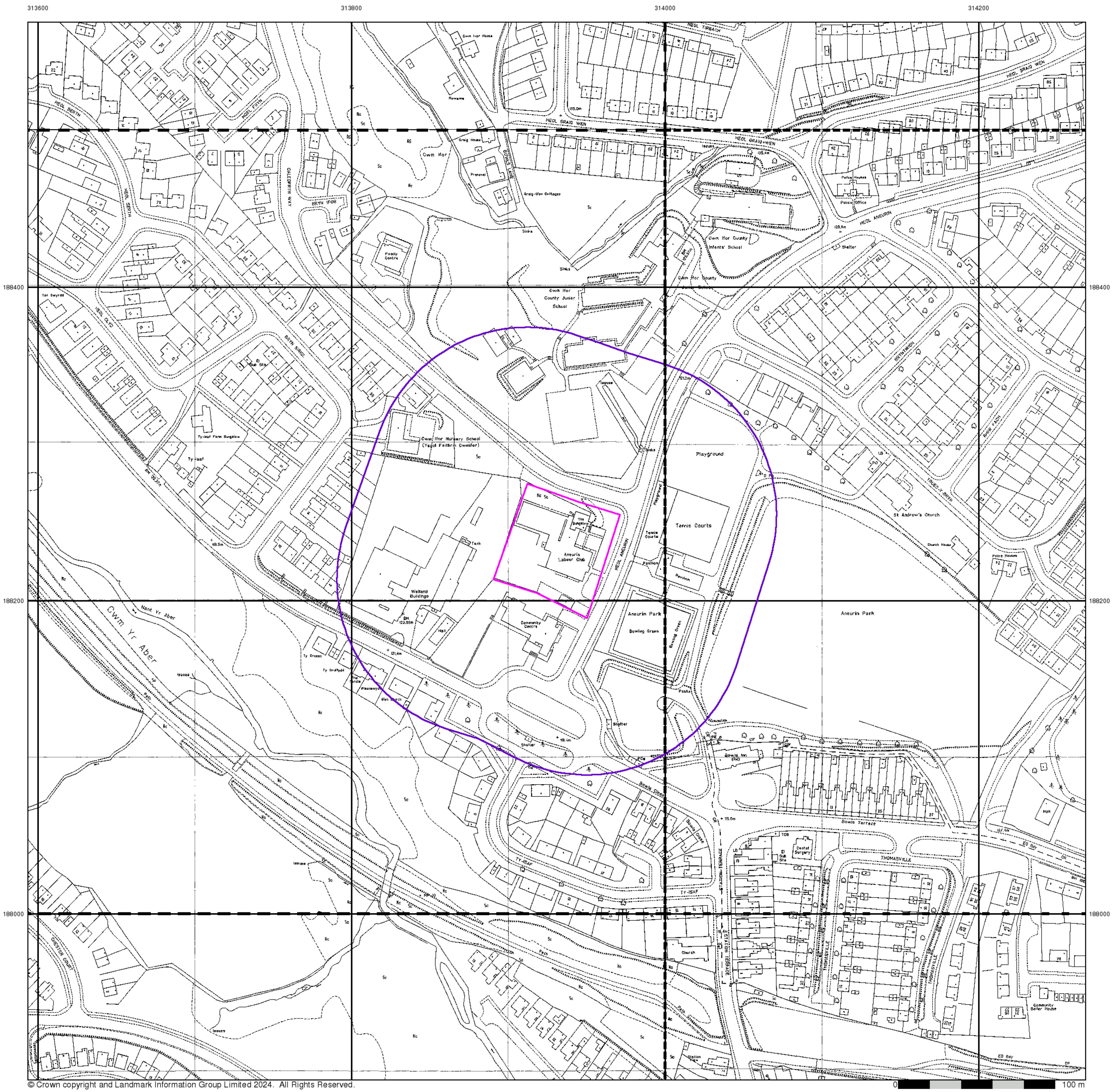

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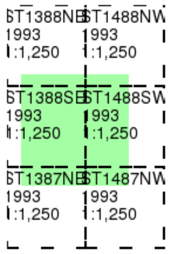
Large-Scale National Grid Data

Published 1993

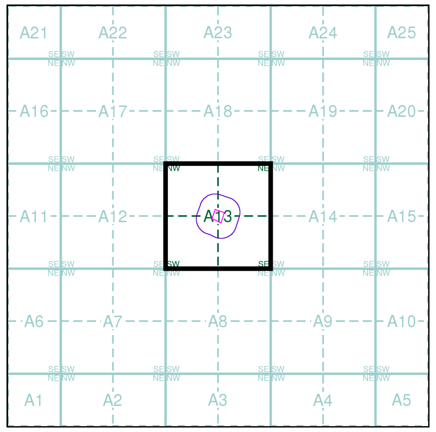
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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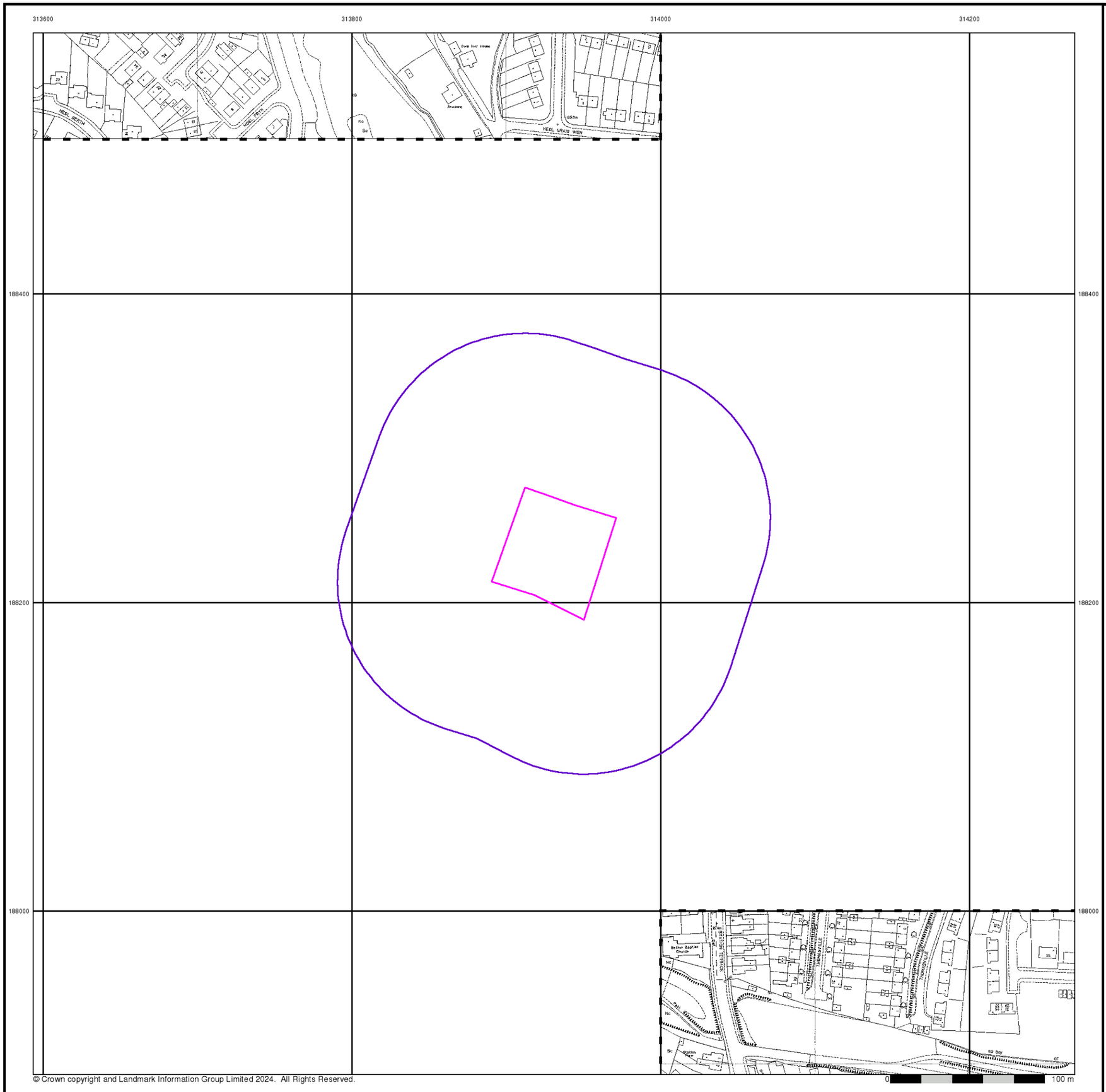

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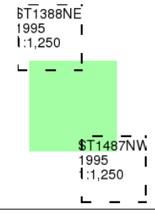
Large-Scale National Grid Data

Published 1995

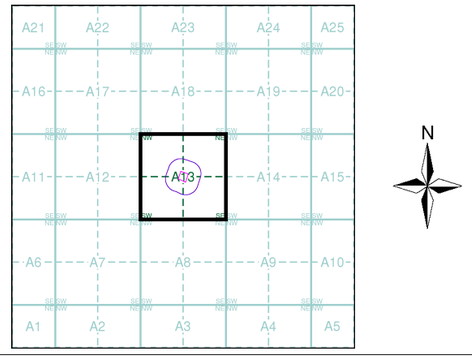
Source map scale - 1:1,250

'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



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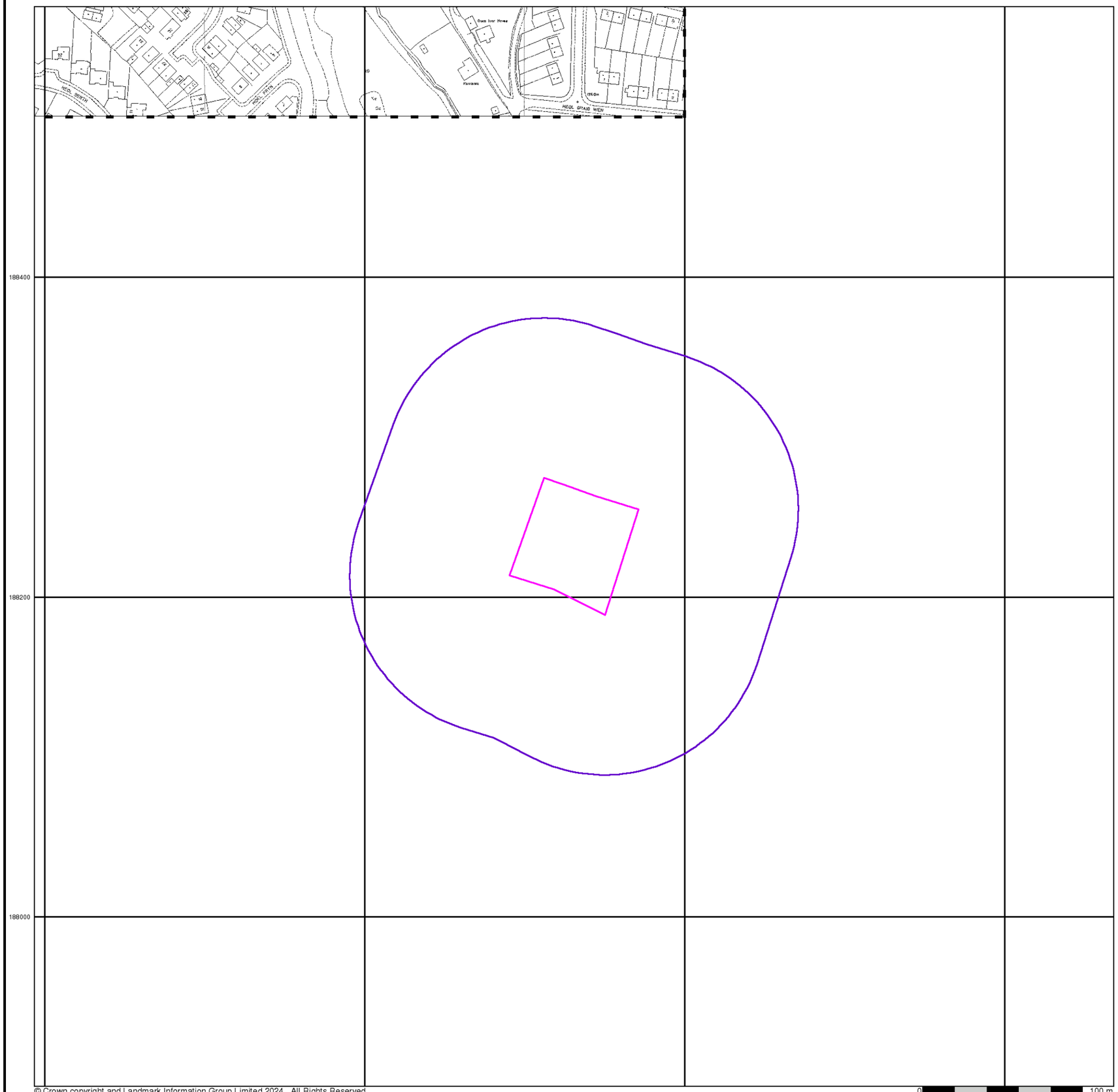

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Large-Scale National Grid Data

Published 1996

Source map scale - 1:1,250

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

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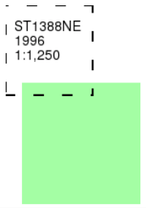
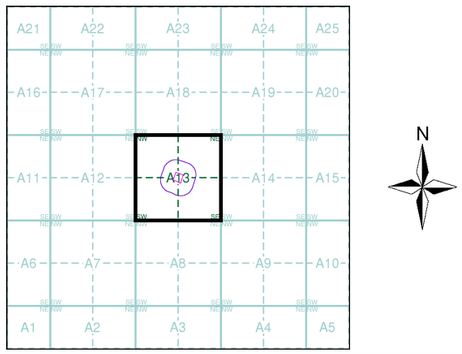


Historical Map - Segment A13



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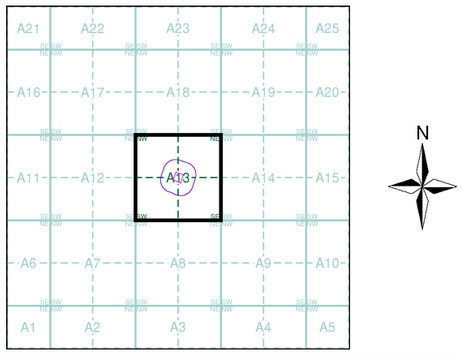
Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

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

1:10,000 Raster Mapping

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

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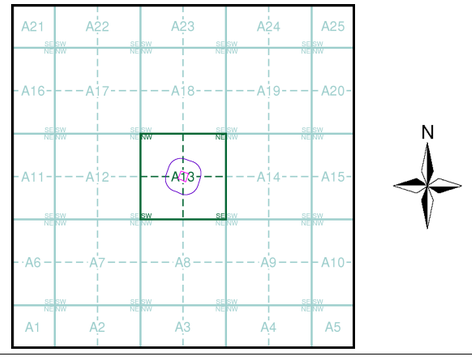
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1885	2
Glamorganshire	1:10,560	1885	3
Glamorganshire	1:10,560	1901	4
Glamorganshire	1:10,560	1921 - 1922	5
Glamorganshire	1:10,560	1947 - 1951	6
Historical Aerial Photography	1:10,560	1947 - 1949	7
Glamorganshire	1:10,560	1952 - 1953	8
Ordnance Survey Plan	1:10,000	1960 - 1965	9
Ordnance Survey Plan	1:10,000	1965	10
Ordnance Survey Plan	1:10,000	1969	11
Ordnance Survey Plan	1:10,000	1970	12
Ordnance Survey Plan	1:10,000	1981	13
Ordnance Survey Plan	1:10,000	1993	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2024	17

Historical Map - Slice A



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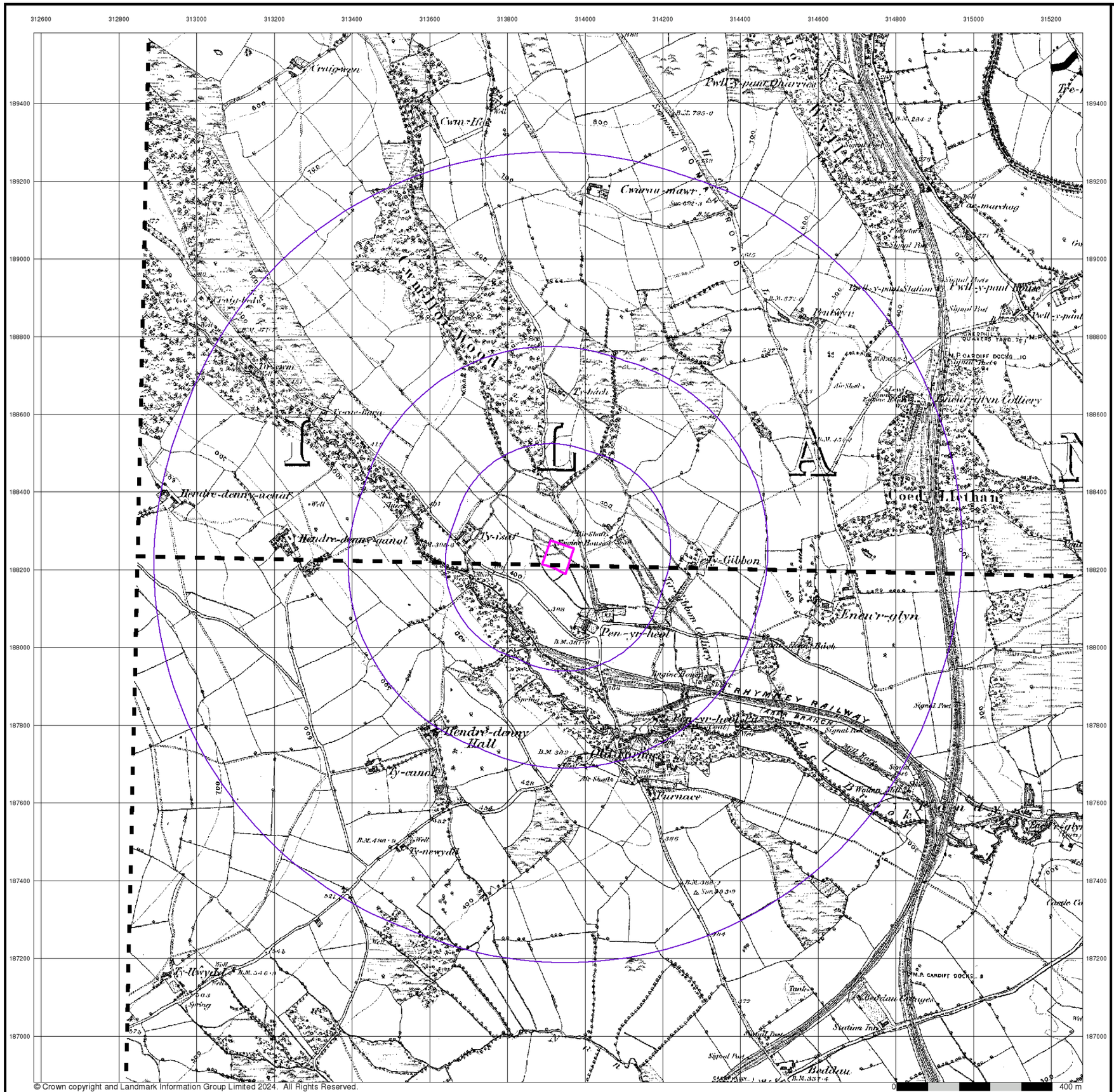

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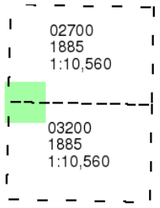
Monmouthshire

Published 1885

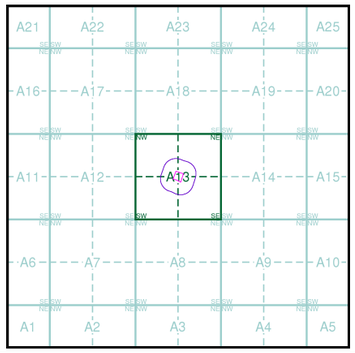
Source map scale - 1:10,560

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



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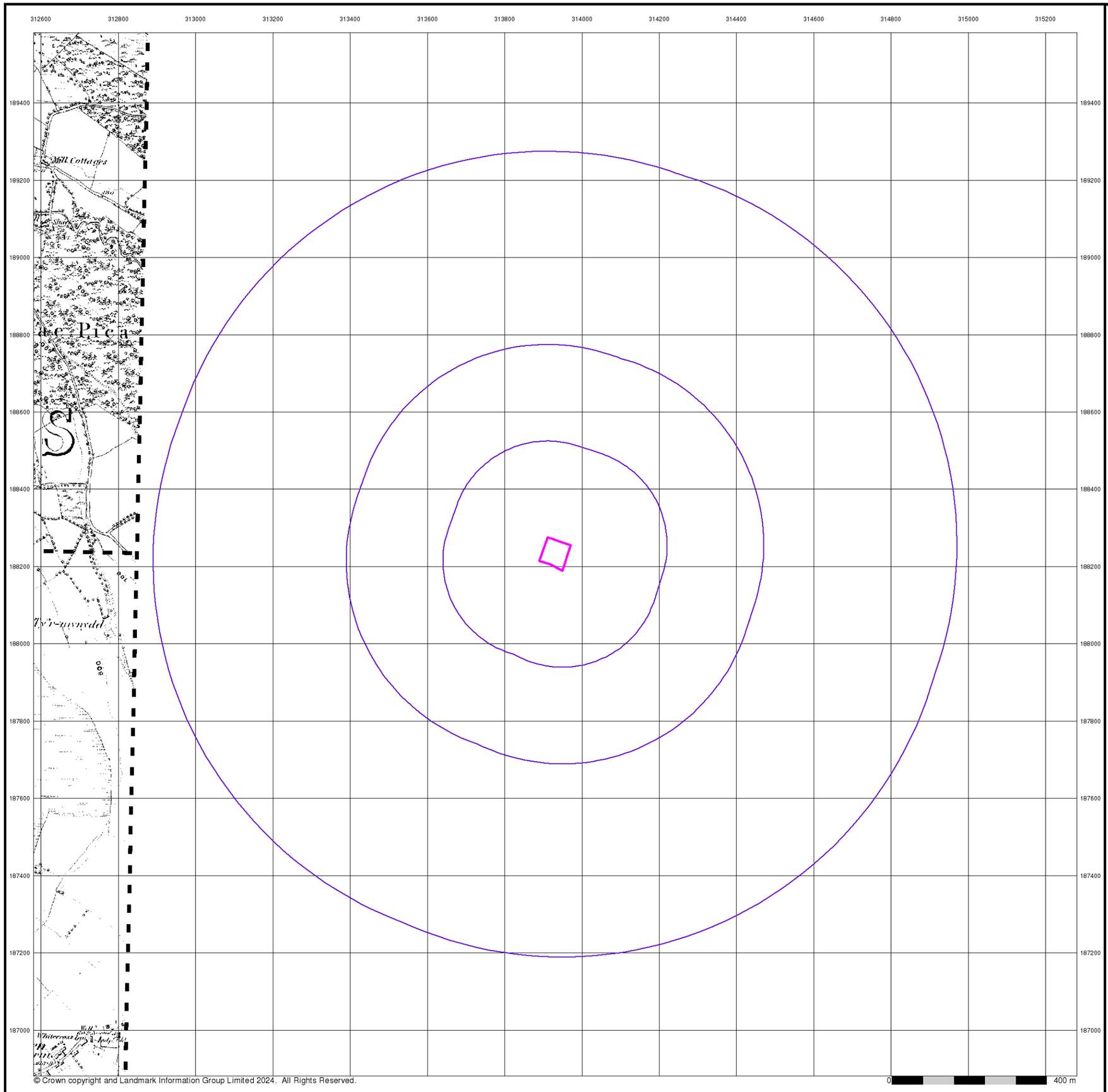

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Glamorganshire

Published 1885

Source map scale - 1:10,560

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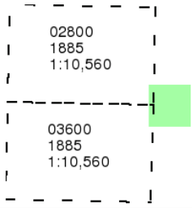
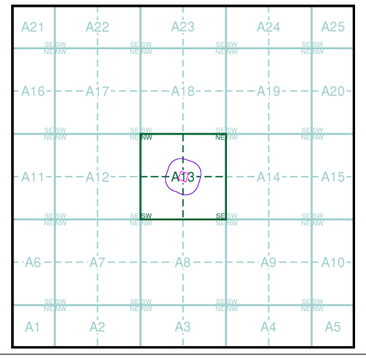


Historical Map - Slice A



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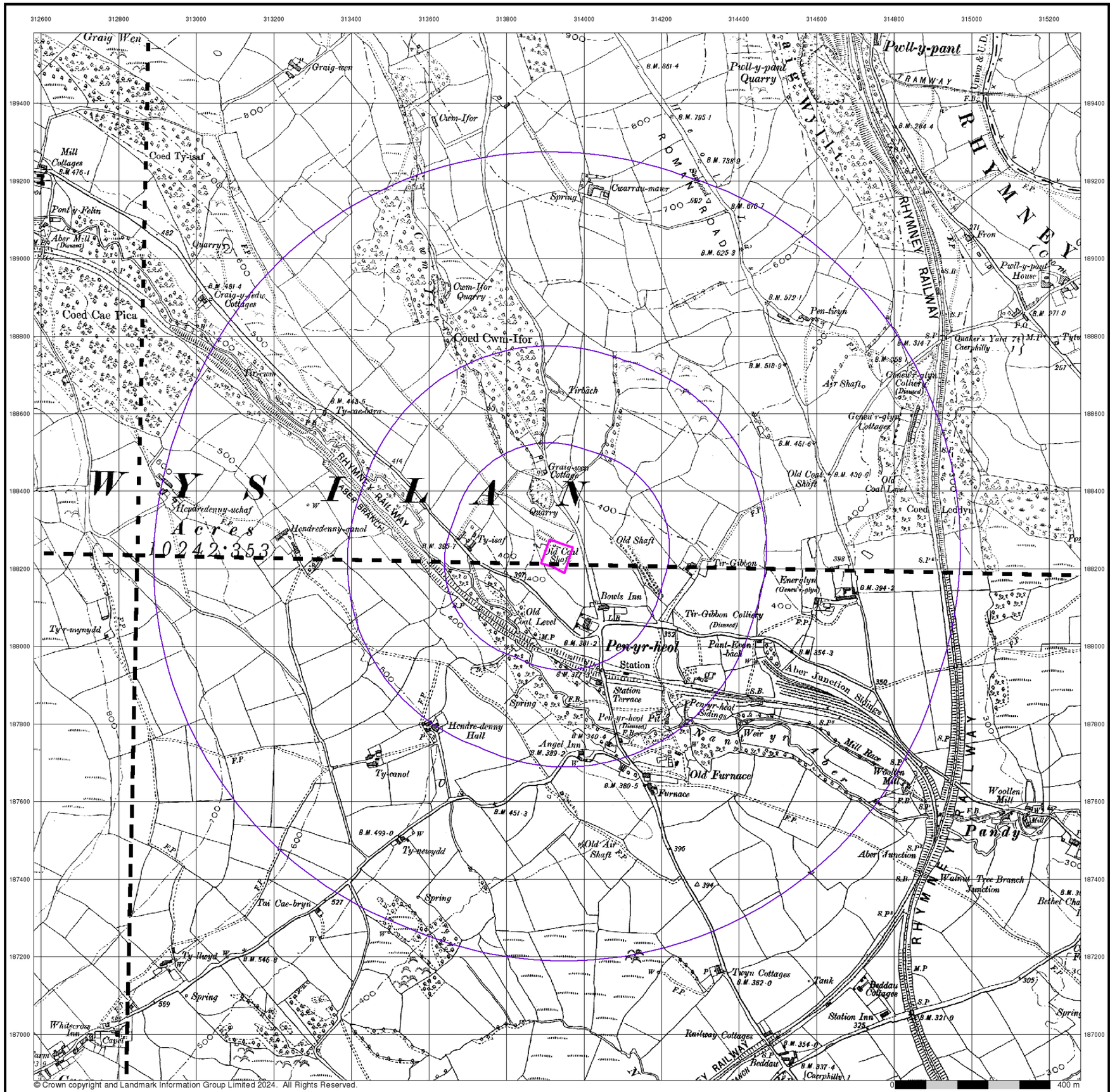

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Glamorganshire

Published 1901

Source map scale - 1:10,560

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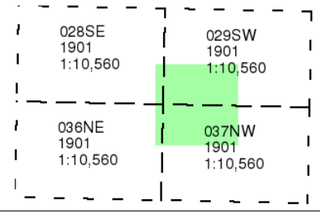
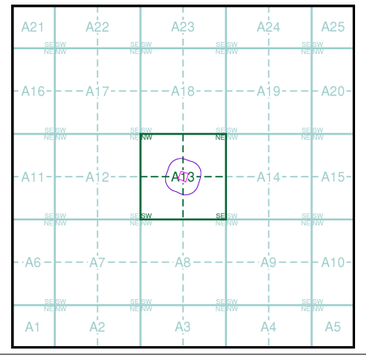


Historical Map - Slice A



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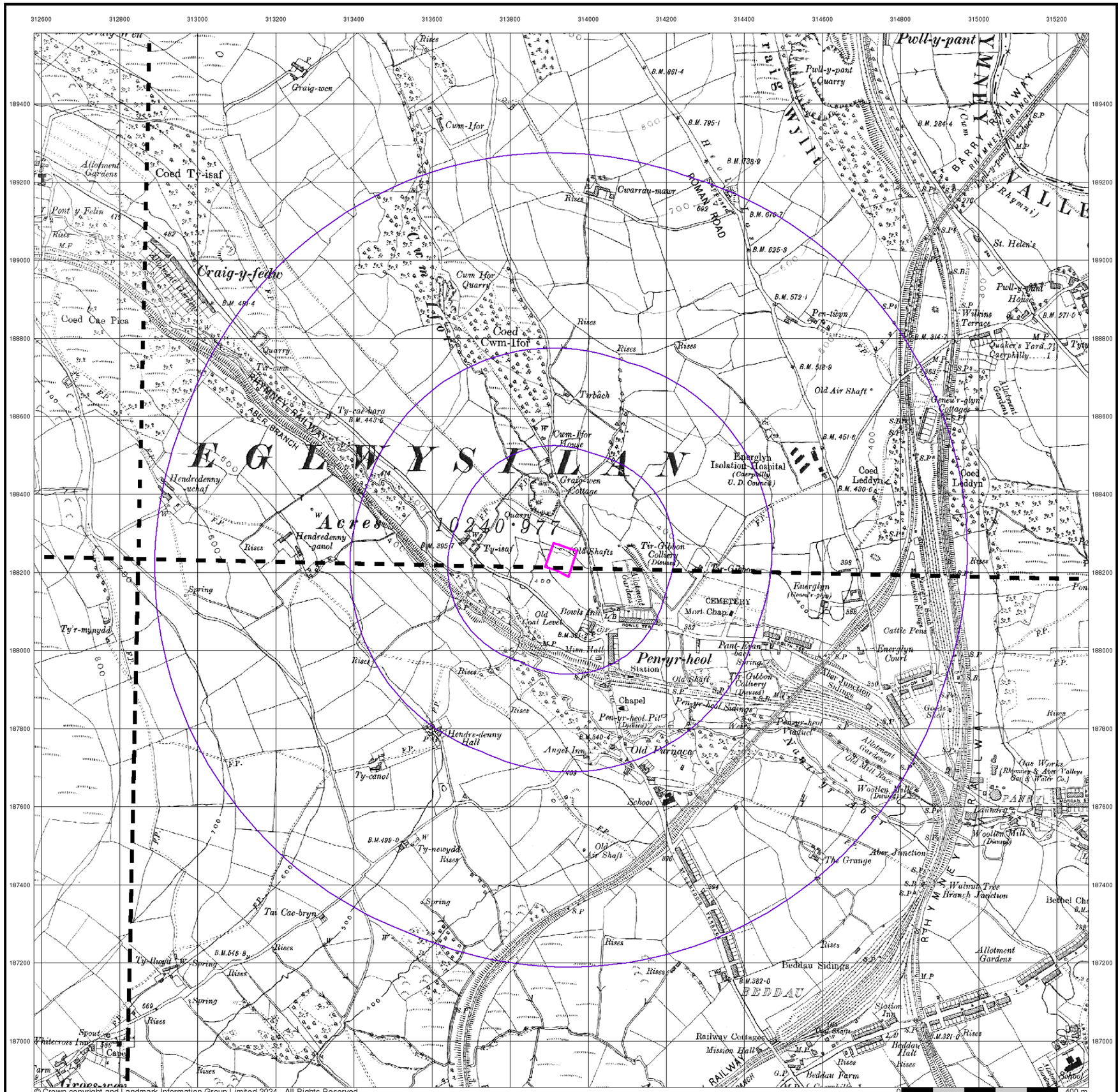

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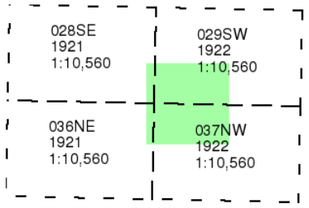
Glamorganshire

Published 1921 - 1922

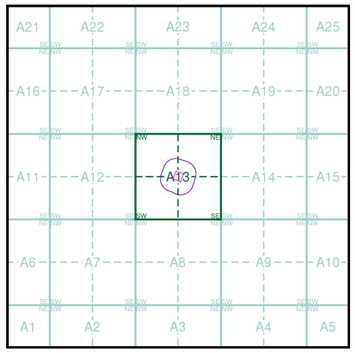
Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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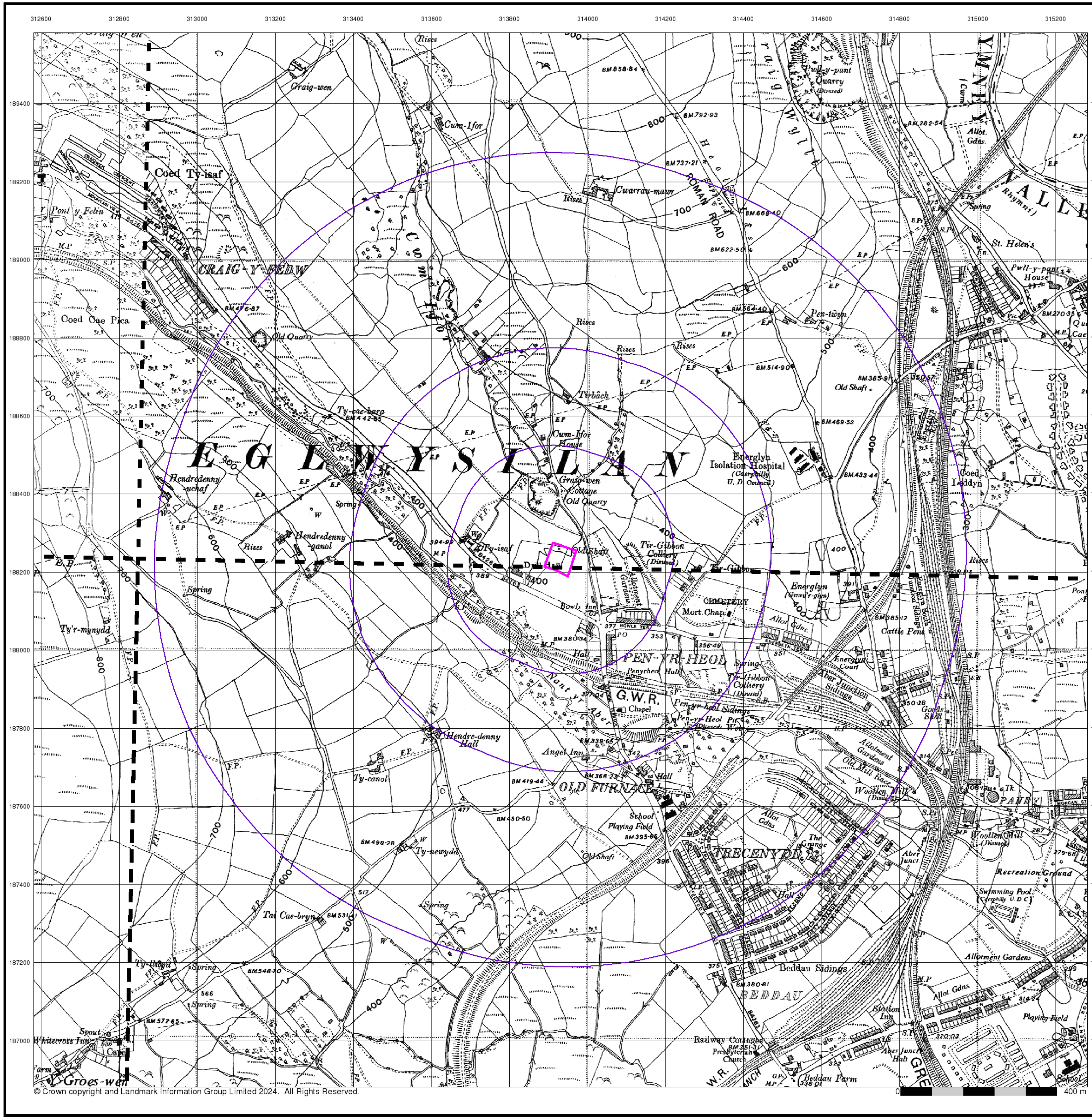

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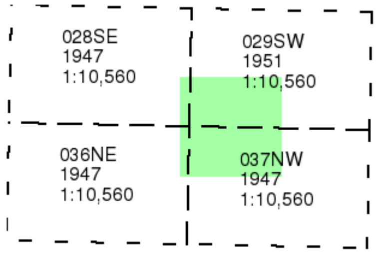
Glamorganshire

Published 1947 - 1951

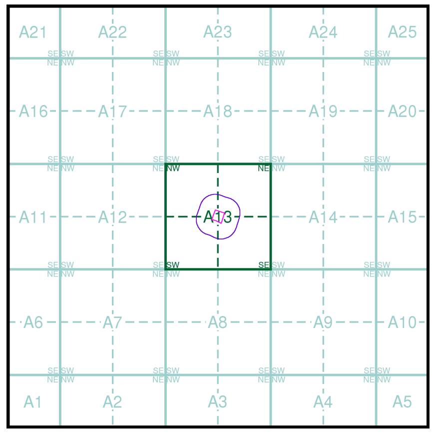
Source map scale - 1:10,560

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



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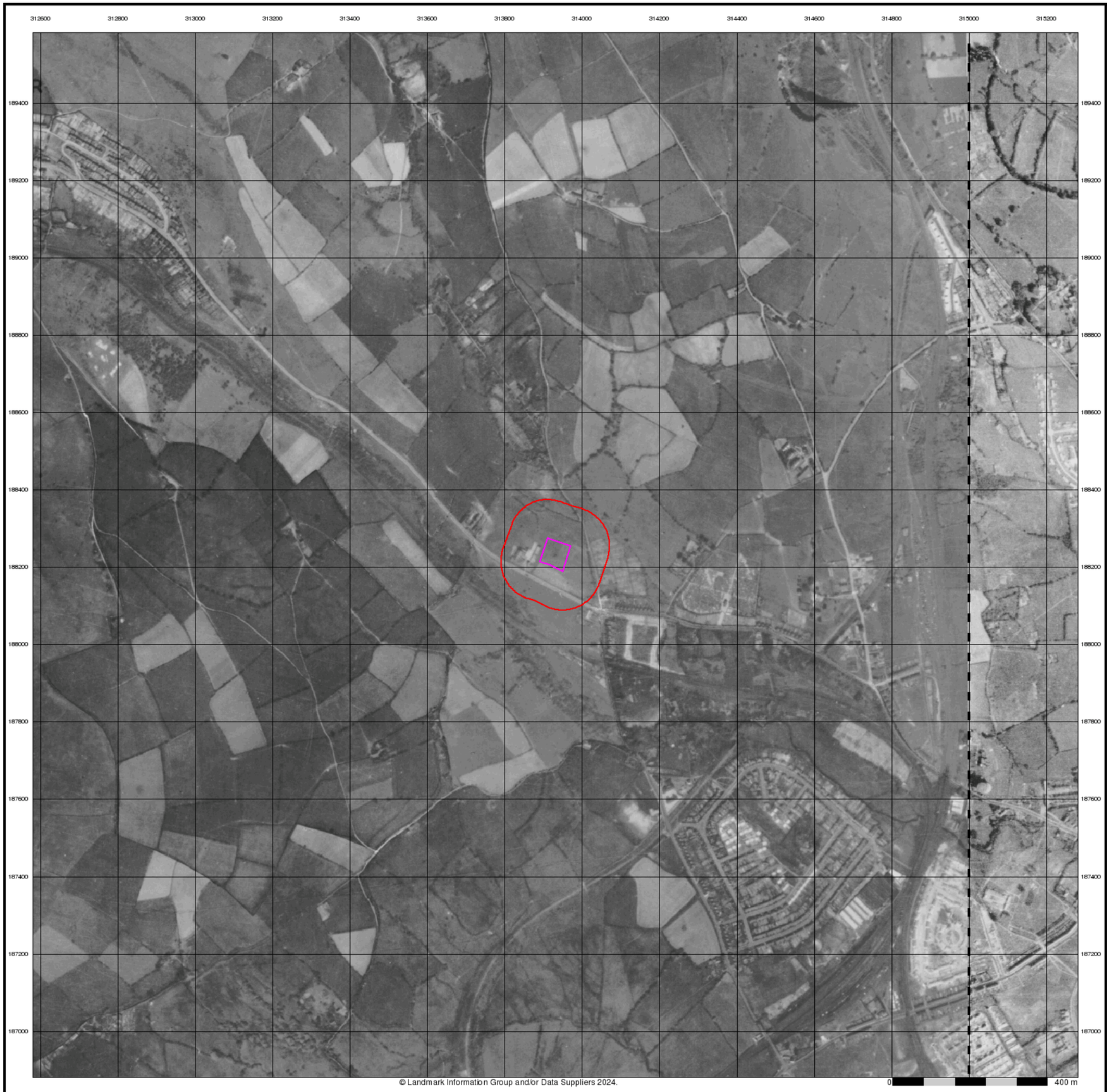

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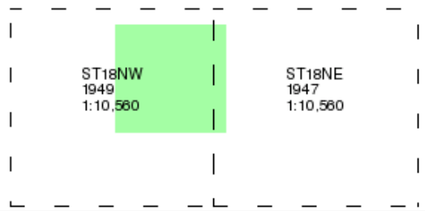
Historical Aerial Photography

Published 1947 - 1949

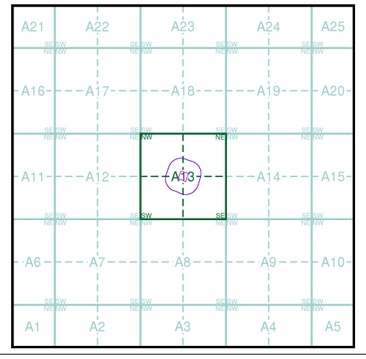
Source map scale - 1:10,560

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.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



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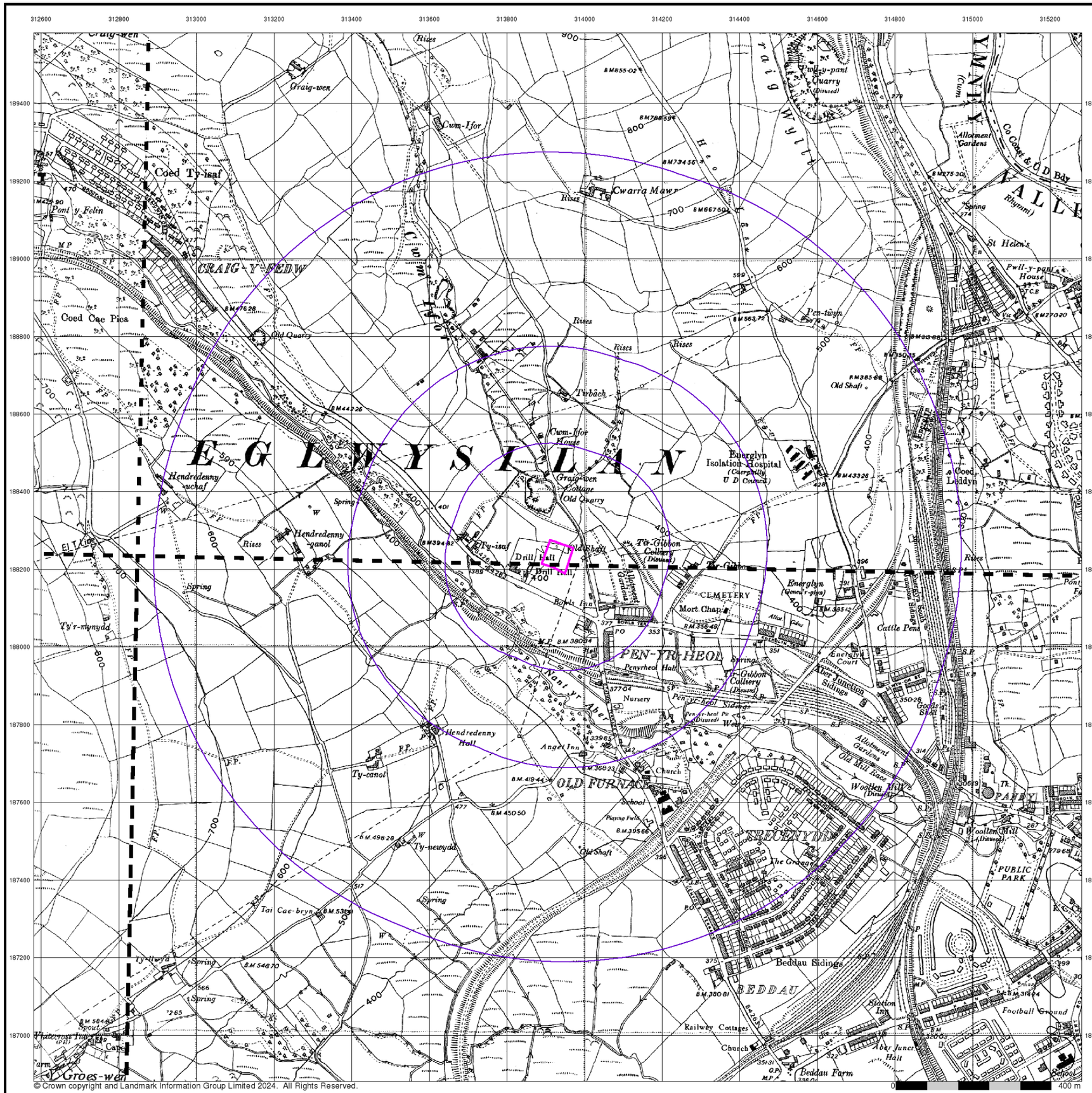

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Geotechnical & Geoenvironmental Specialists

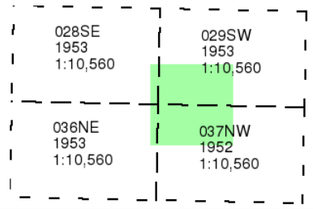
Glamorganshire

Published 1952 - 1953

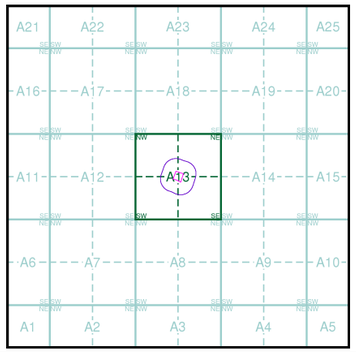
Source map scale - 1:10,560

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



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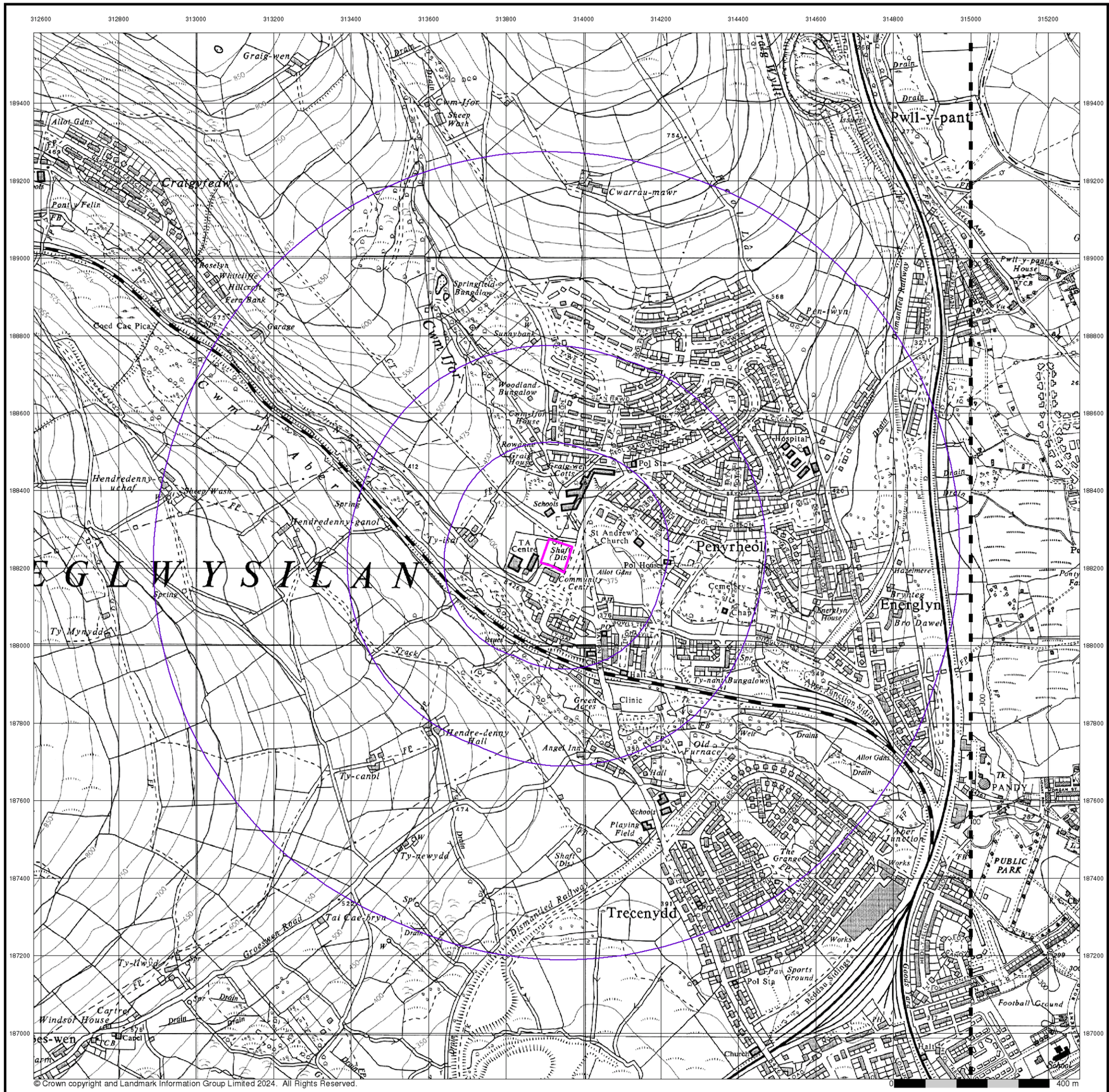

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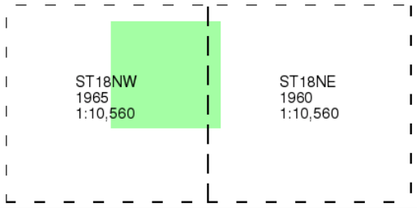
Ordnance Survey Plan

Published 1960 - 1965

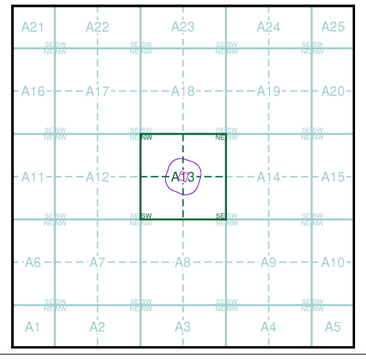
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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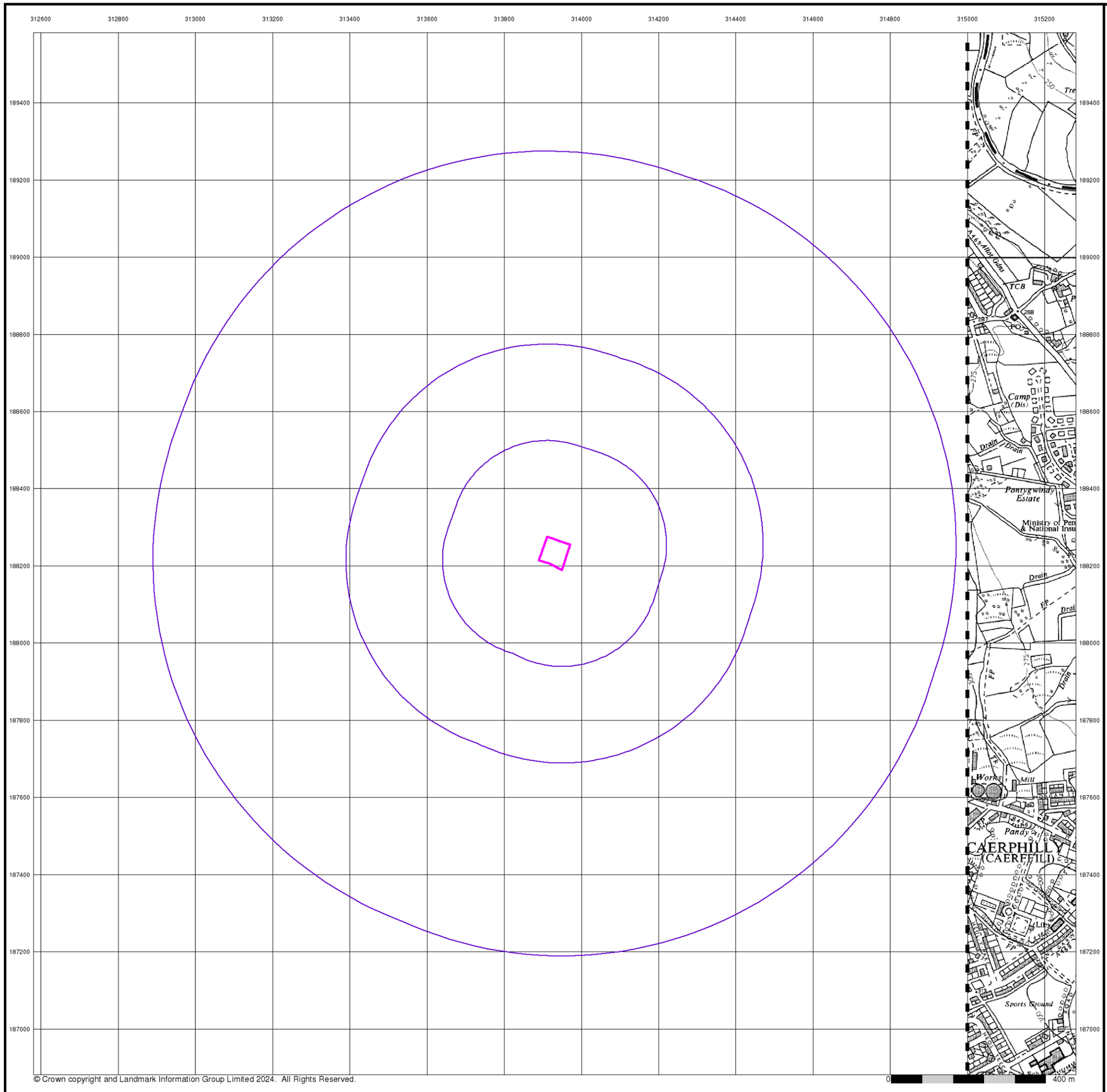

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Ordnance Survey Plan

Published 1965

Source map scale - 1:10,000

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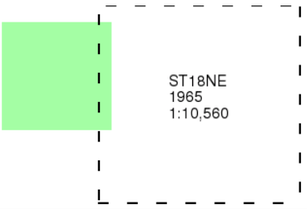
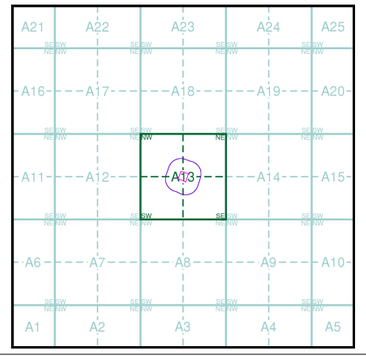
Map Name(s) and Date(s)



Historical Map - Slice A



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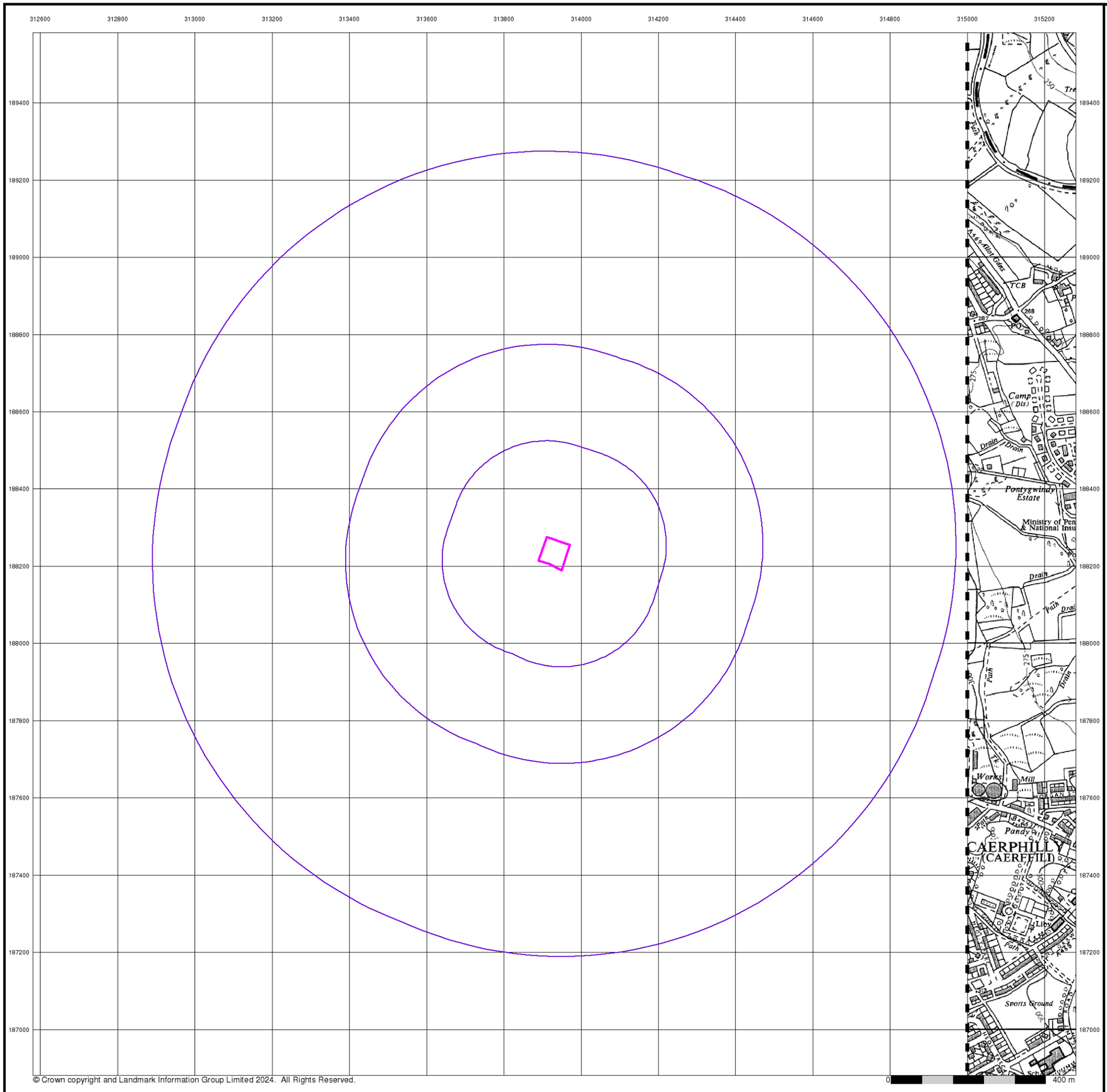

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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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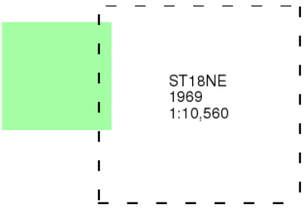
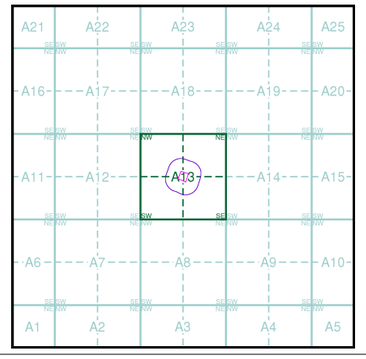
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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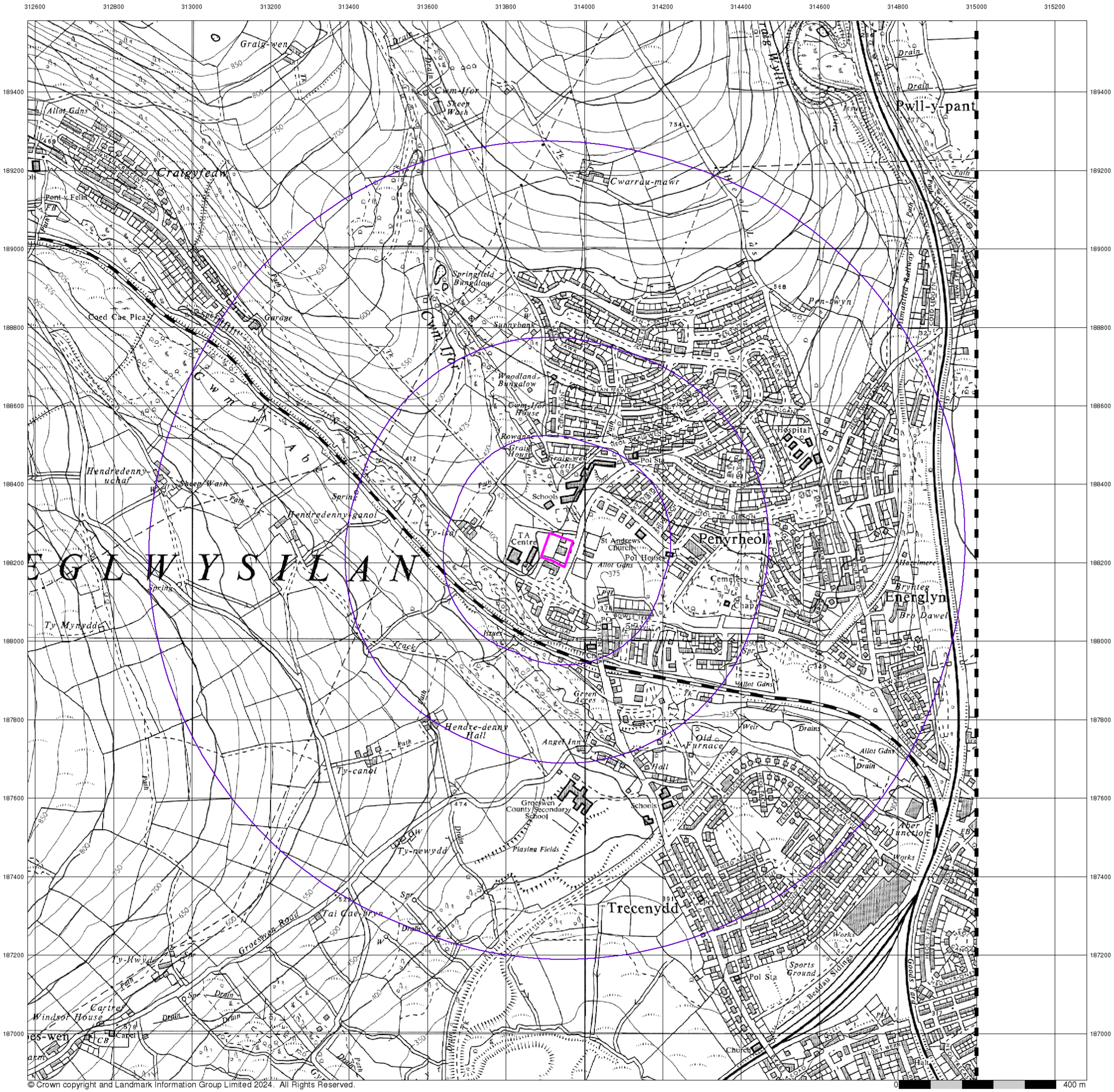

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Ordnance Survey Plan

Published 1970

Source map scale - 1:10,000

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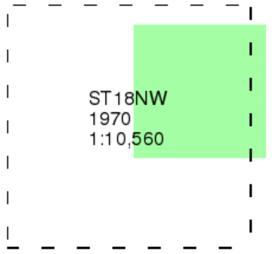
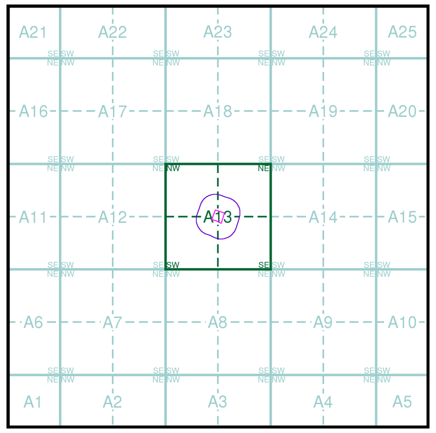


Historical Map - Slice A



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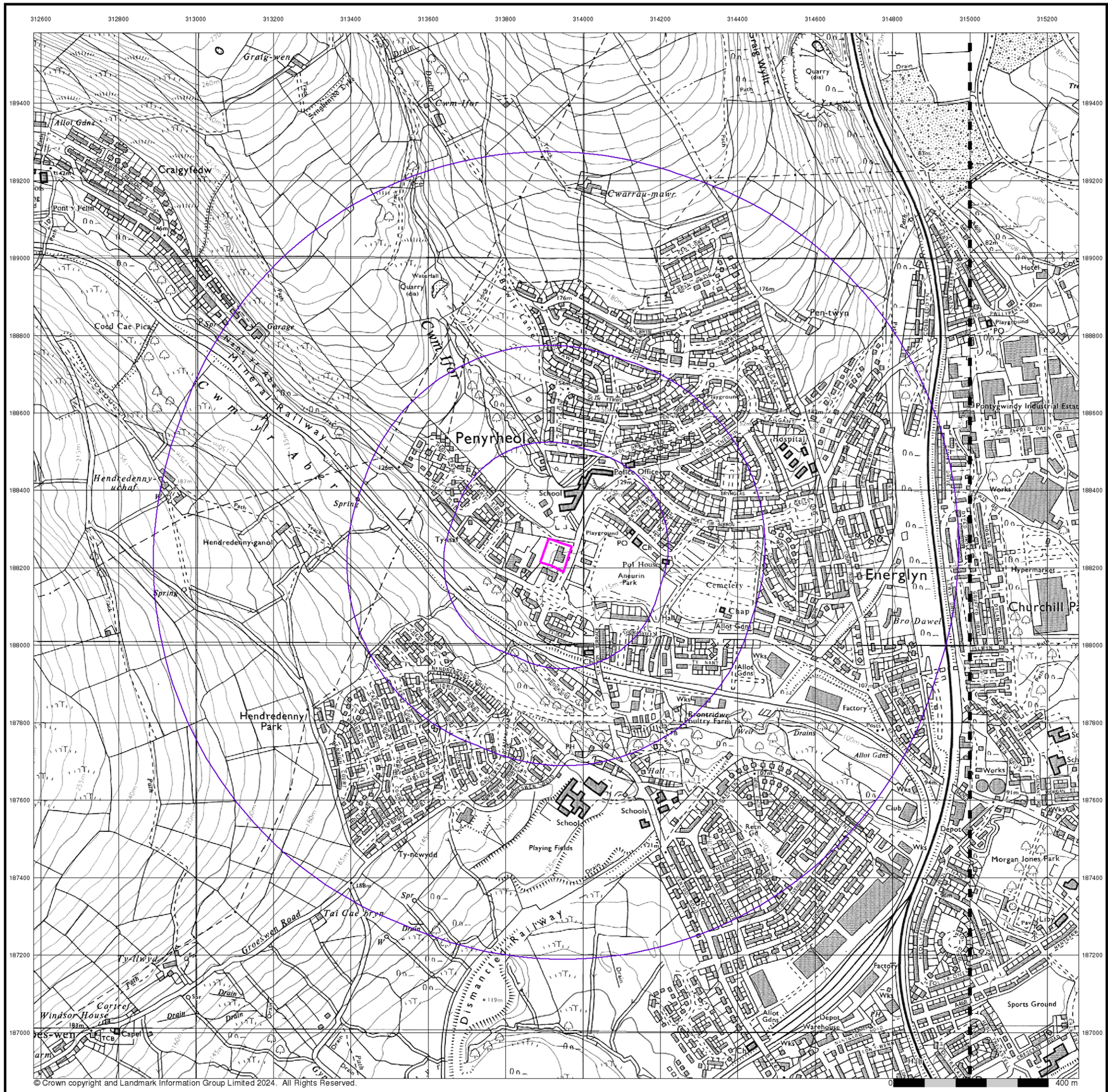

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Ordnance Survey Plan

Published 1981

Source map scale - 1:10,000

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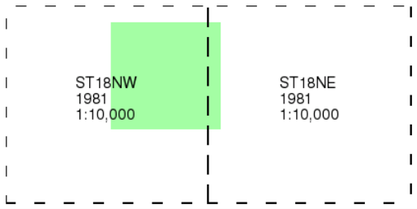
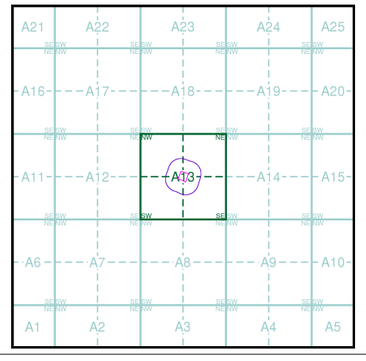


Historical Map - Slice A



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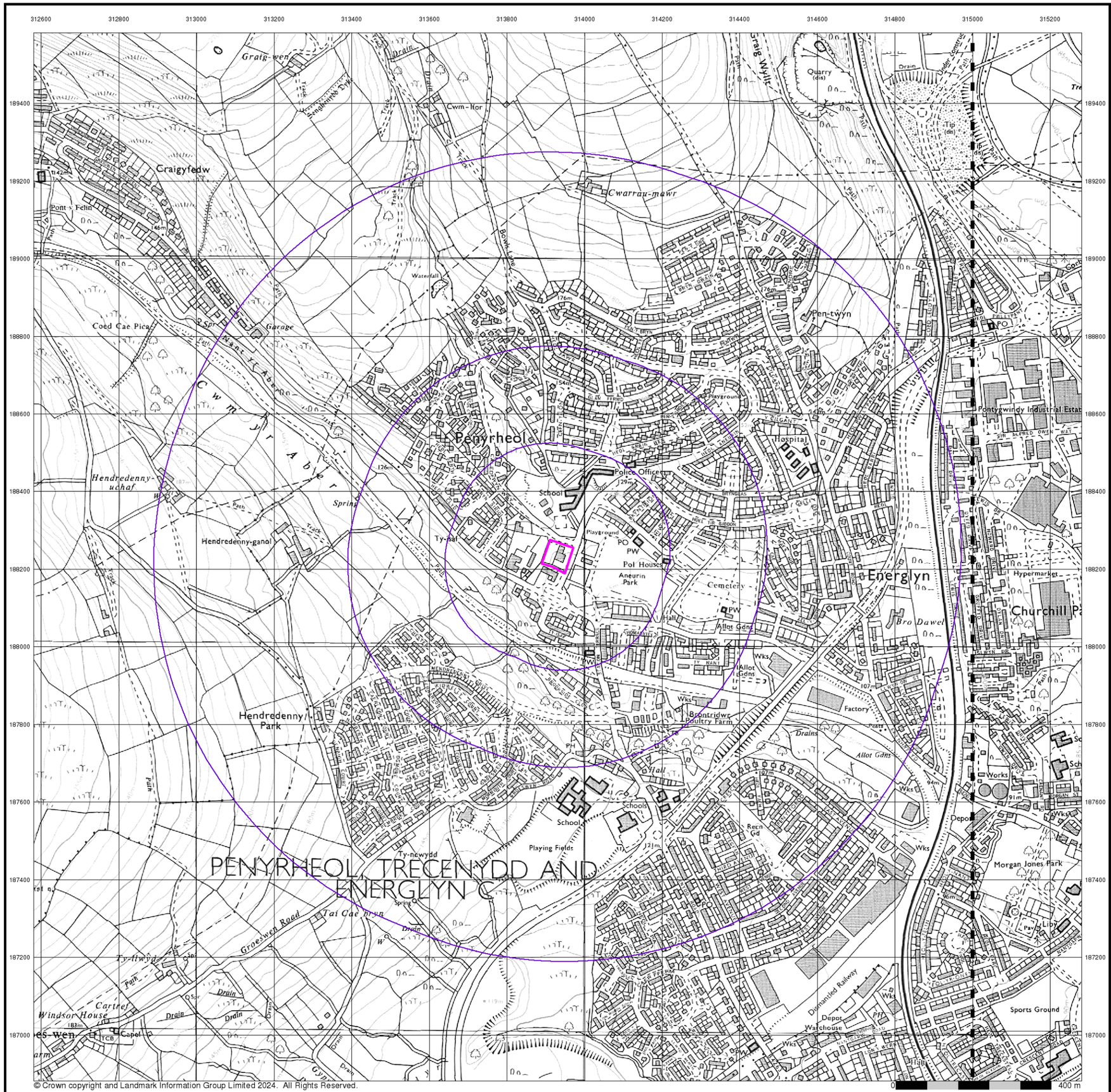

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Ordnance Survey Plan

Published 1993

Source map scale - 1:10,000

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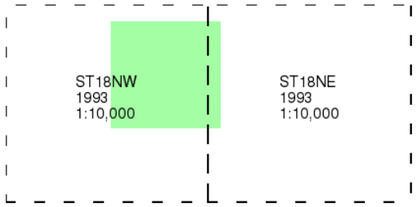
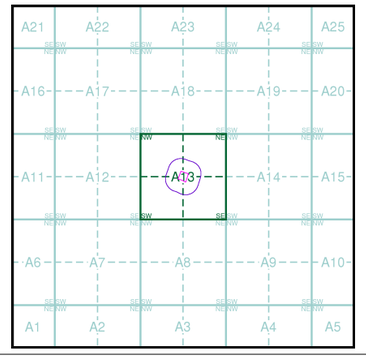


Historical Map - Slice A



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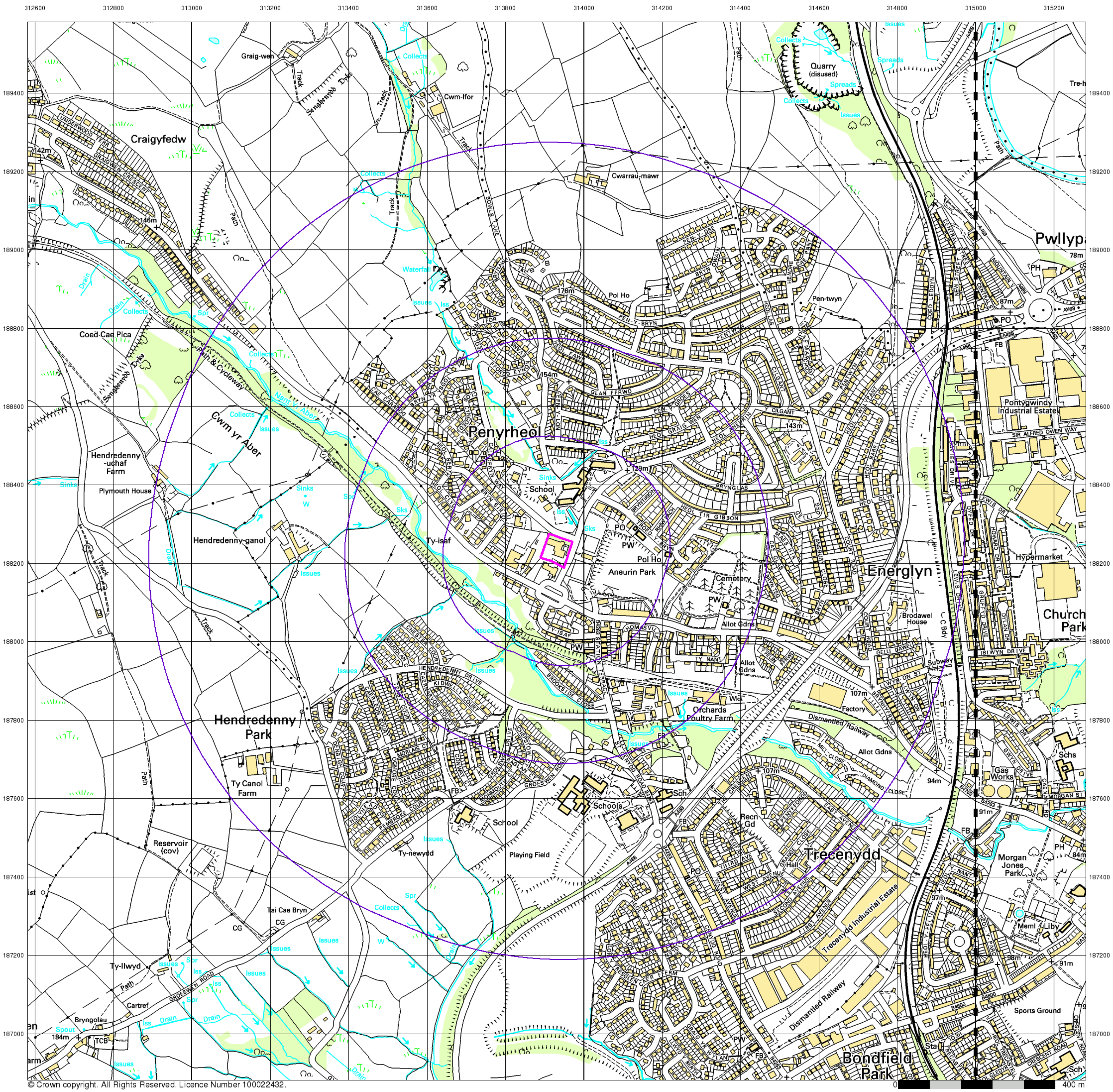

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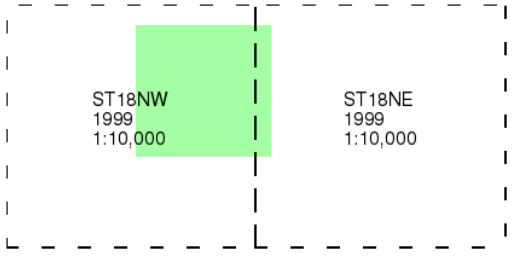
10k Raster Mapping

Published 1999

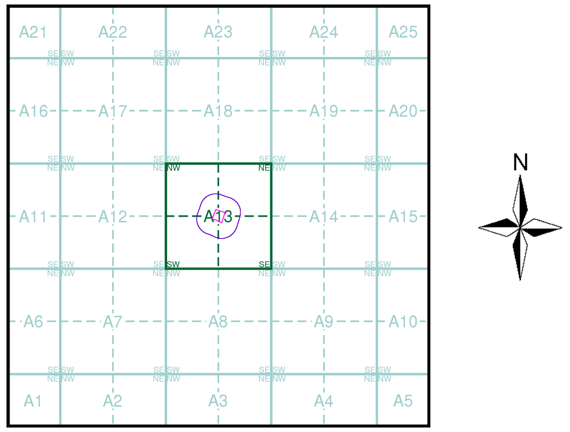
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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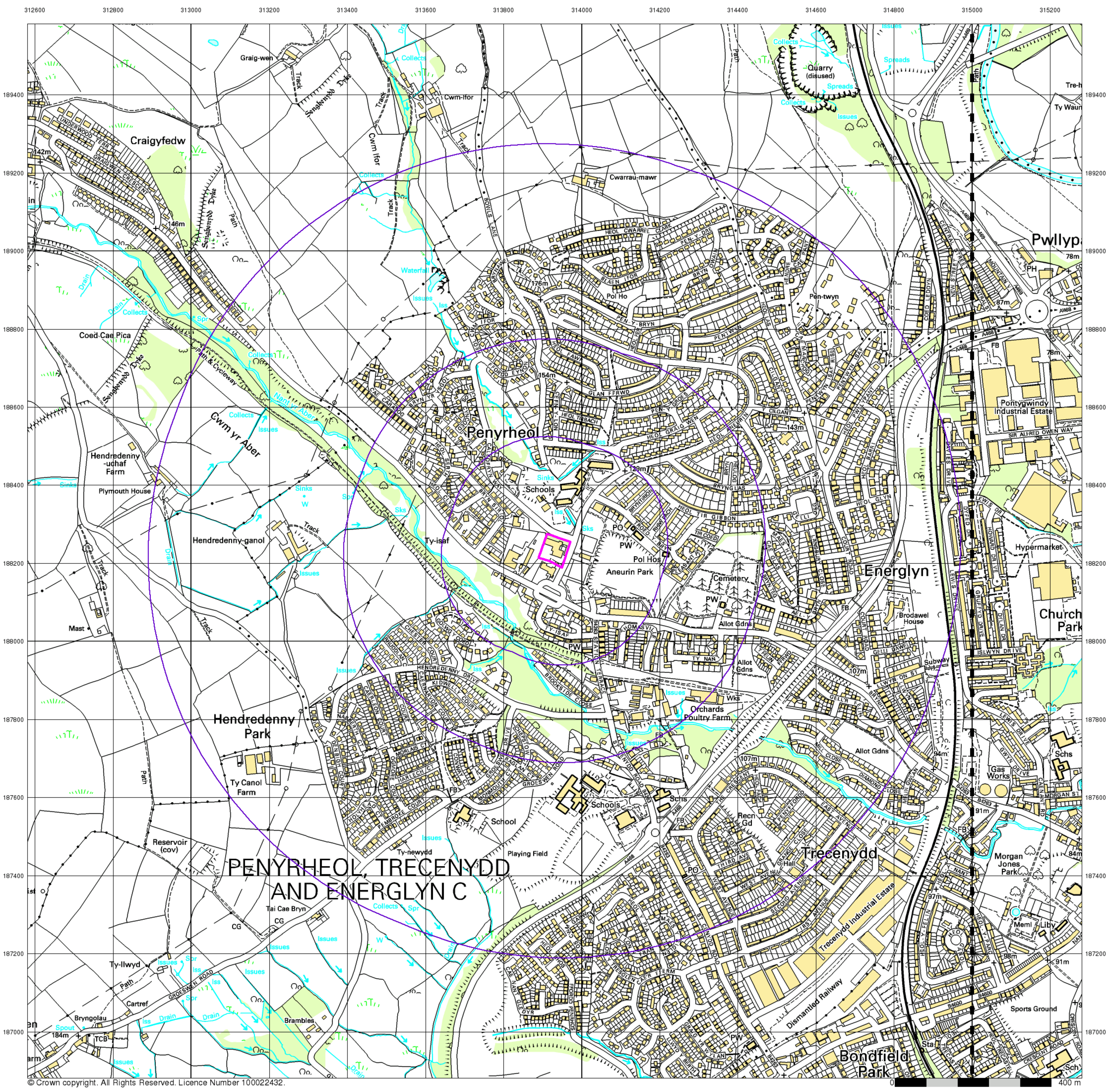

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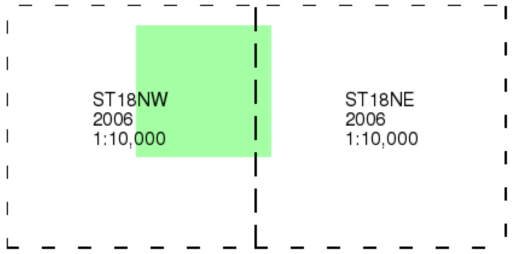
10k Raster Mapping

Published 2006

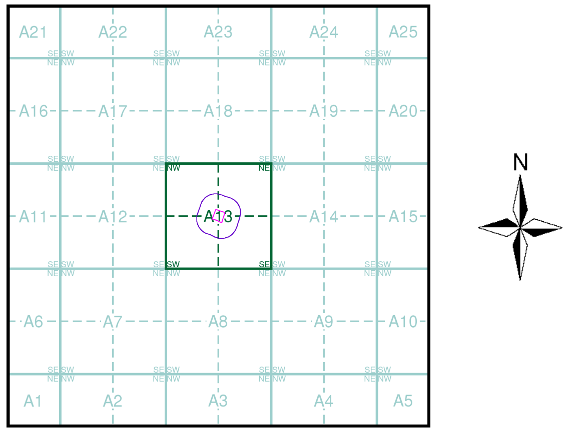
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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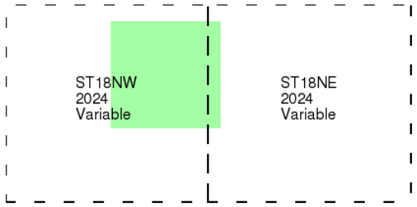
VectorMap Local

Published 2024

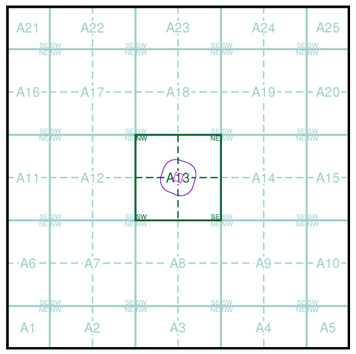
Source map scale - 1:10,000

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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Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Gravel, Sand, Silt and Clay	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	GDB	Grovesend Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	H	Hughes Member	Sandstone	Not Supplied - Westphalian
	H	Hughes Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	BD	Brithdir Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	BD	Brithdir Member	Sandstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		

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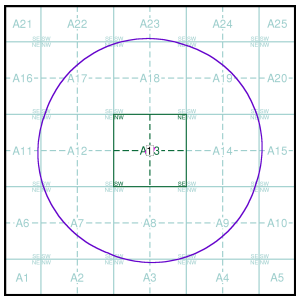
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**249**
Map Name:	**Newport**
Map Date:	**1969**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



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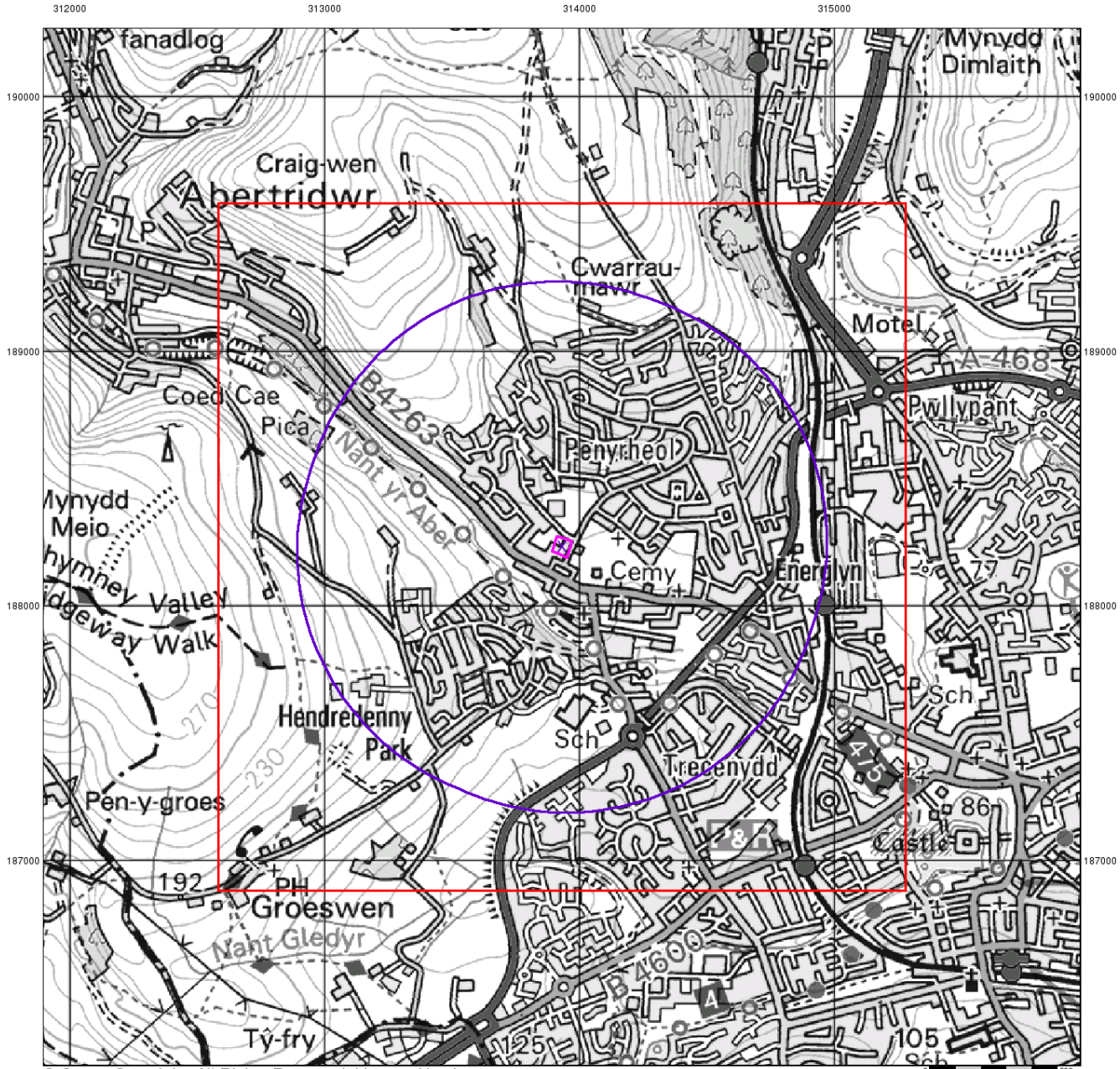

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Artificial Ground and Landslip

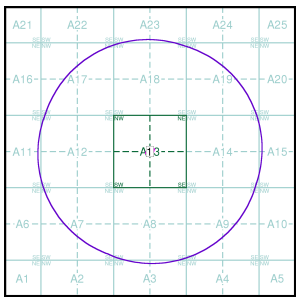
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



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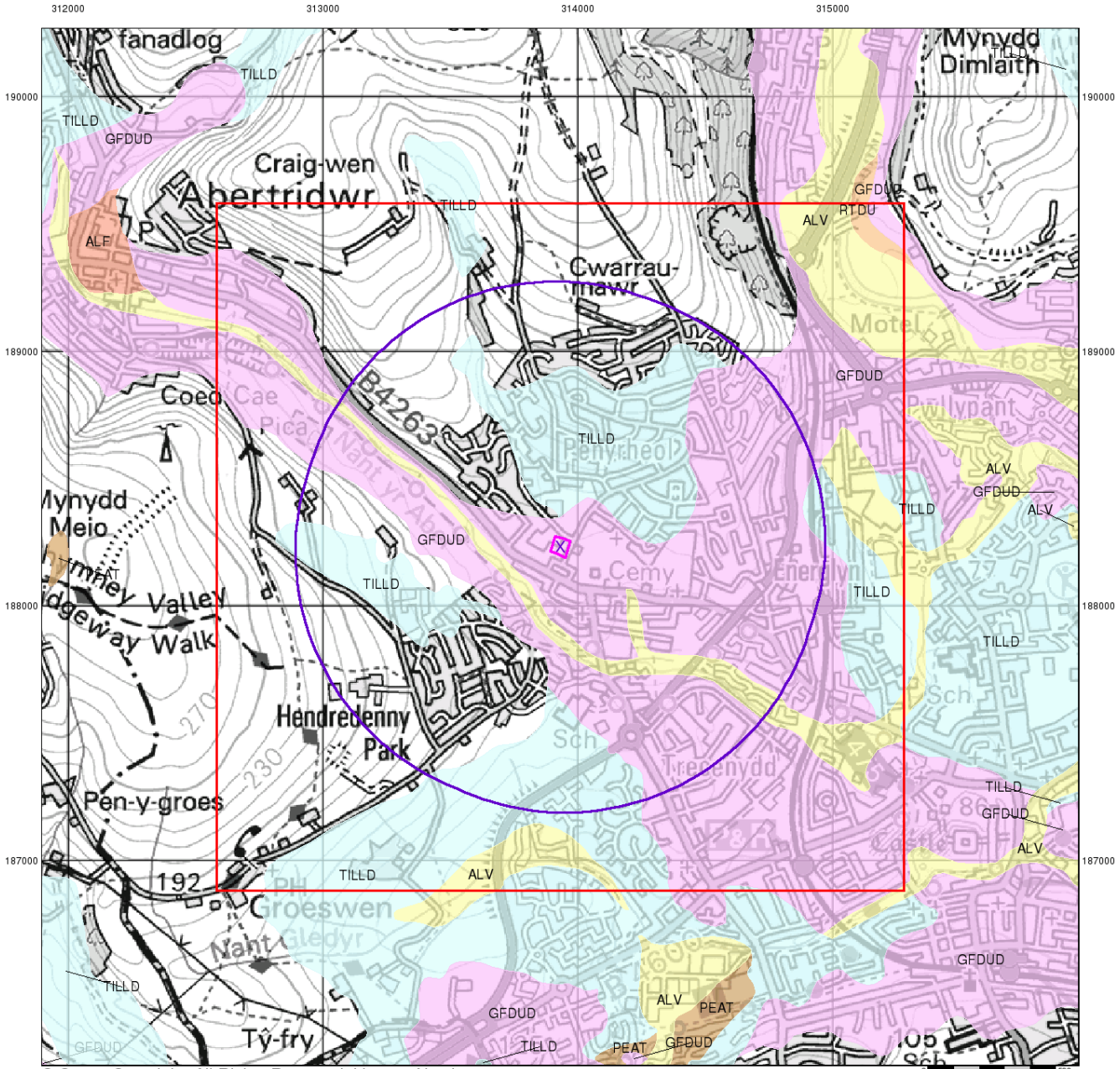

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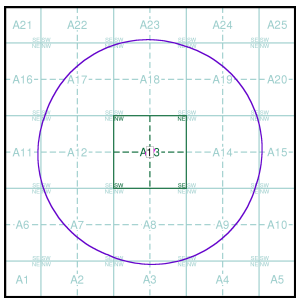
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



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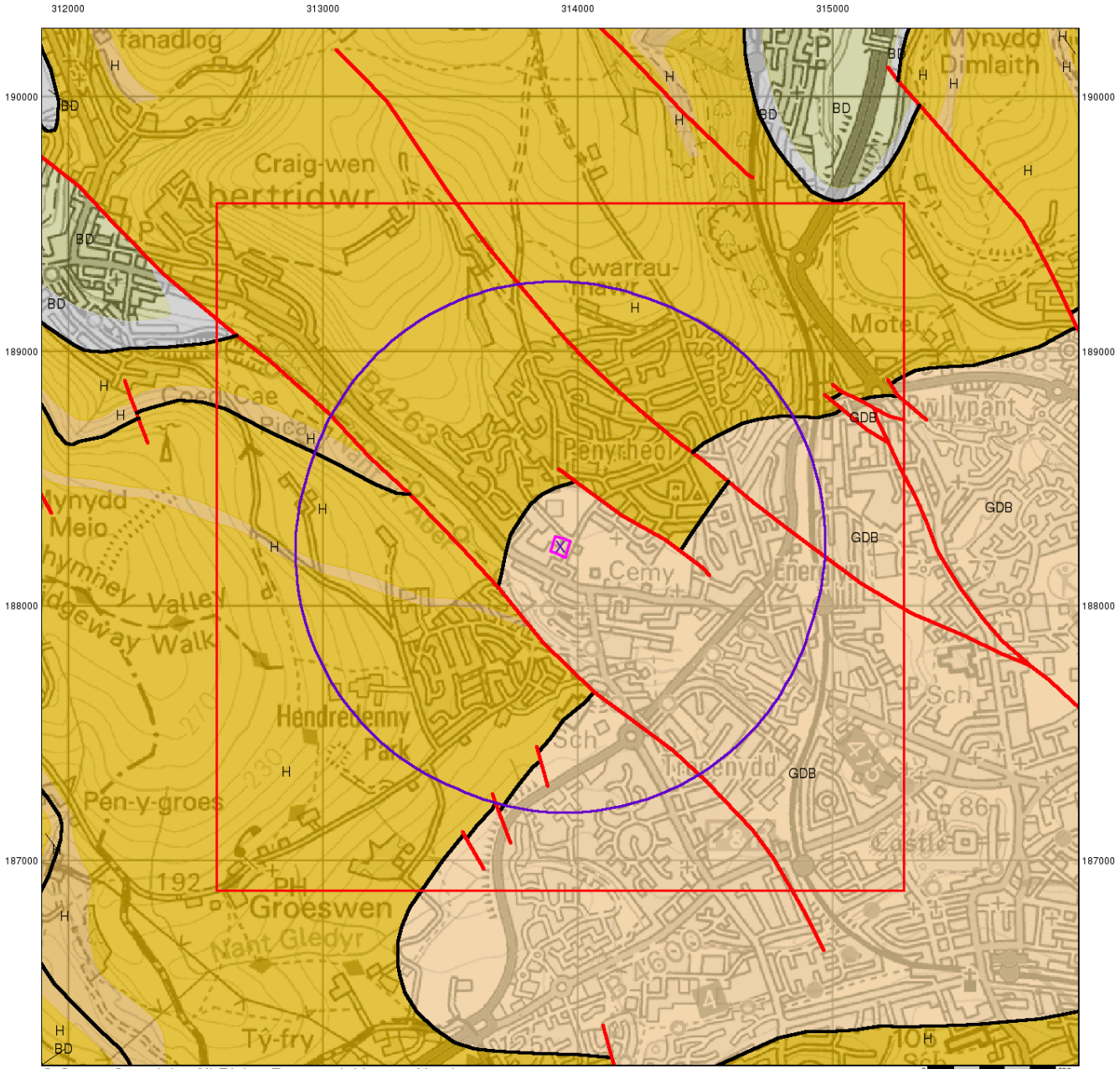

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Bedrock and Faults

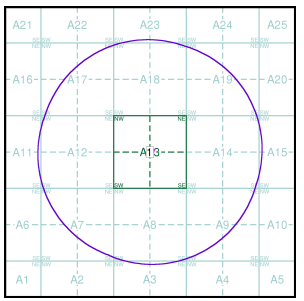
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



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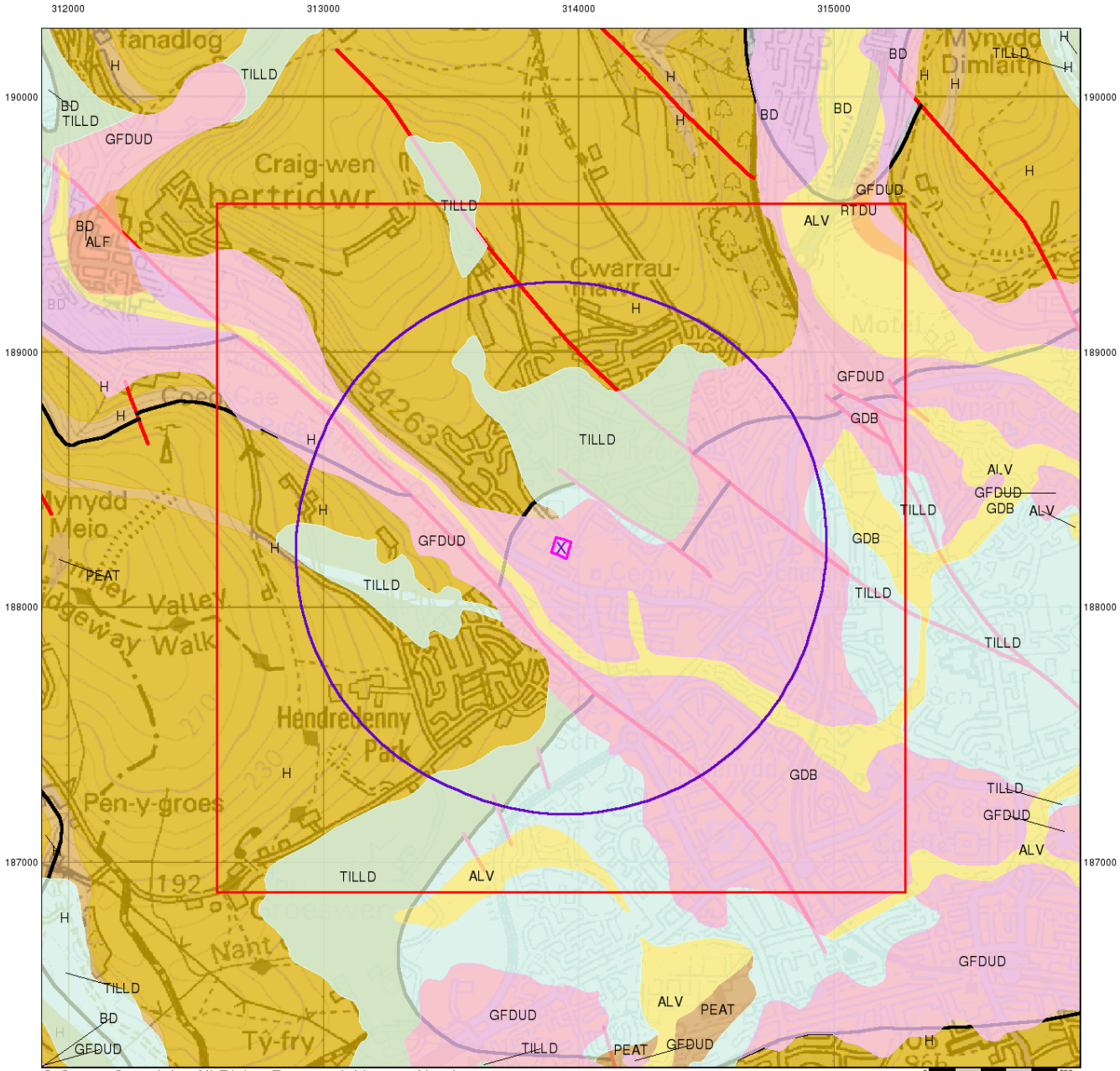

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

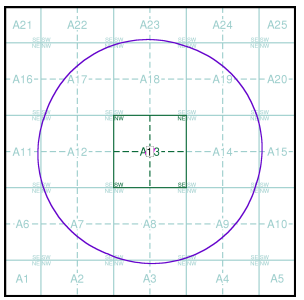
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



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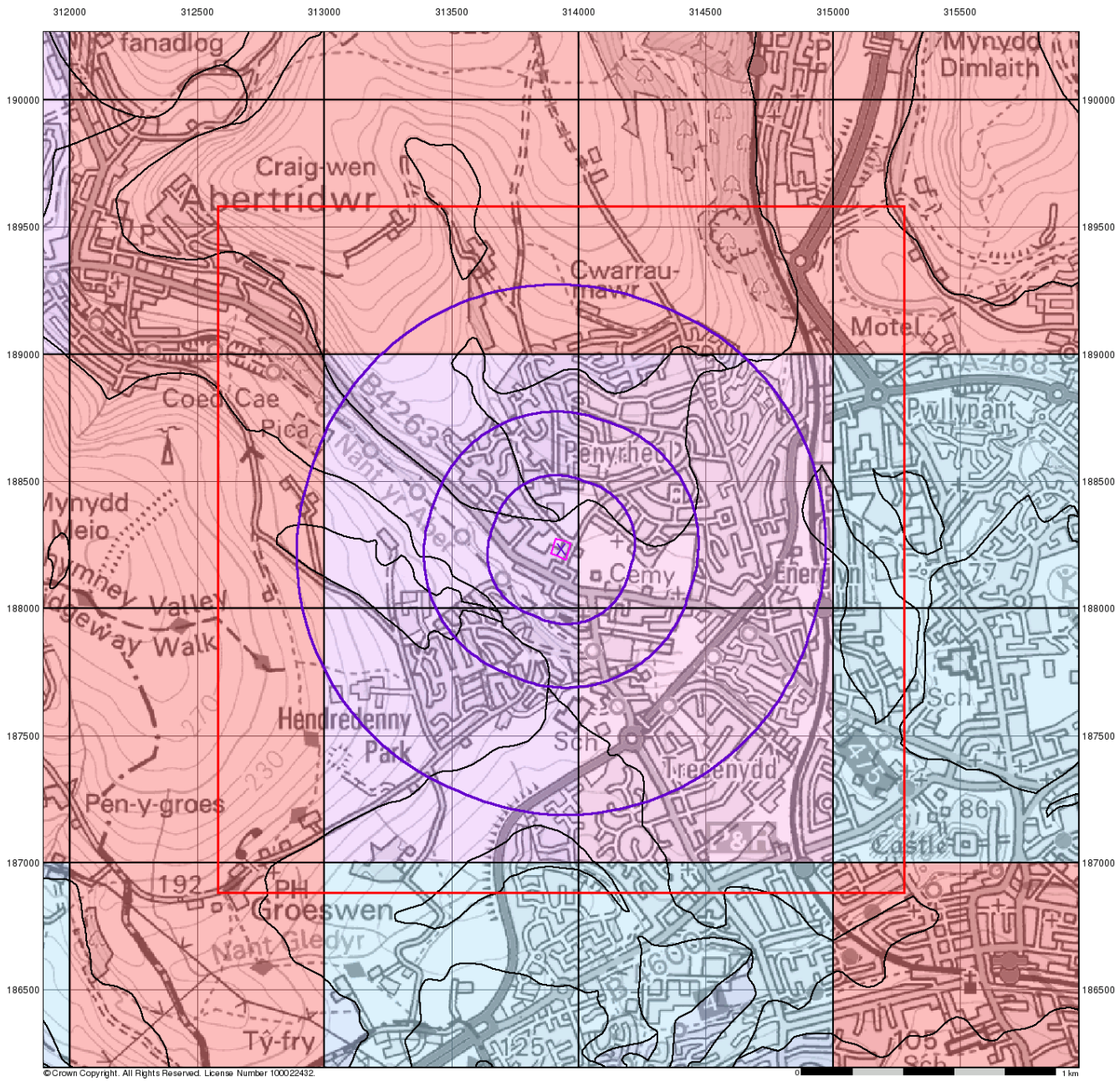

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Groundwater Vulnerability

General

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

Slice | Map ID

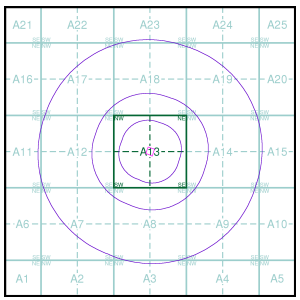
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



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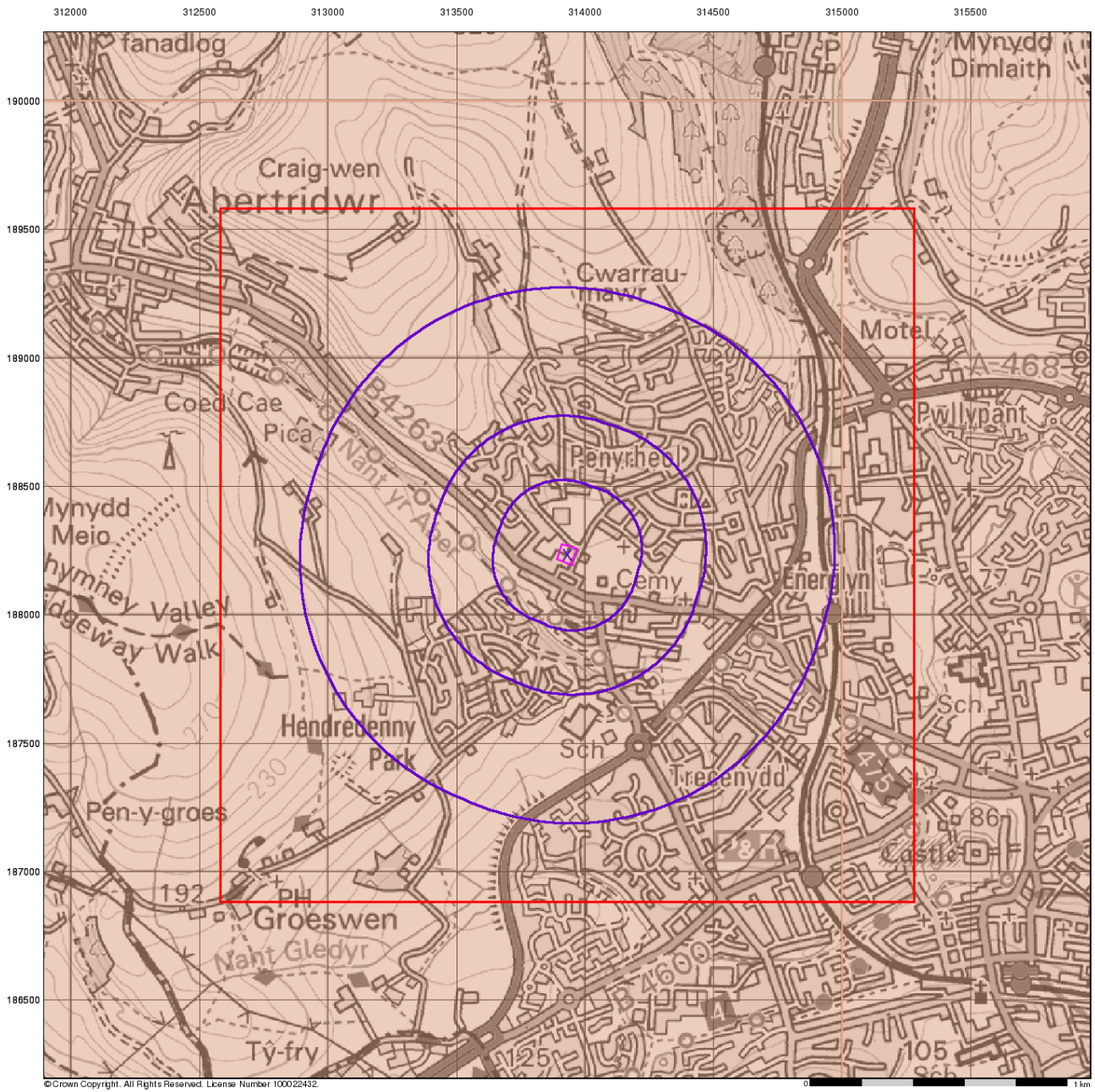

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Bedrock Aquifer Designation

General

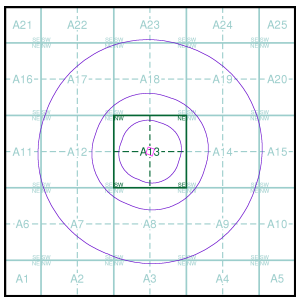
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



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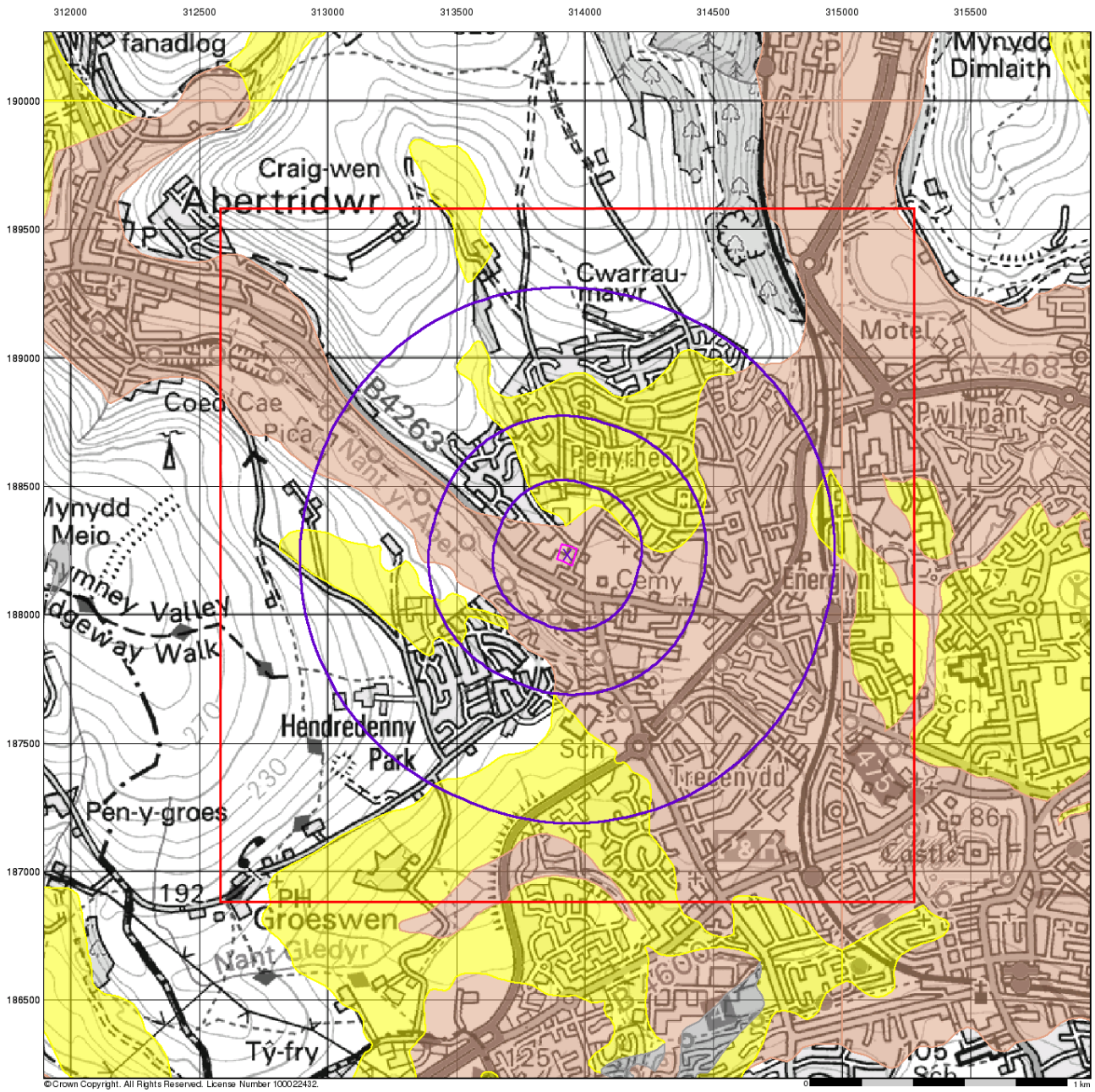

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Superficial Aquifer Designation

General

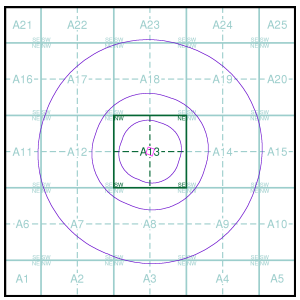
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



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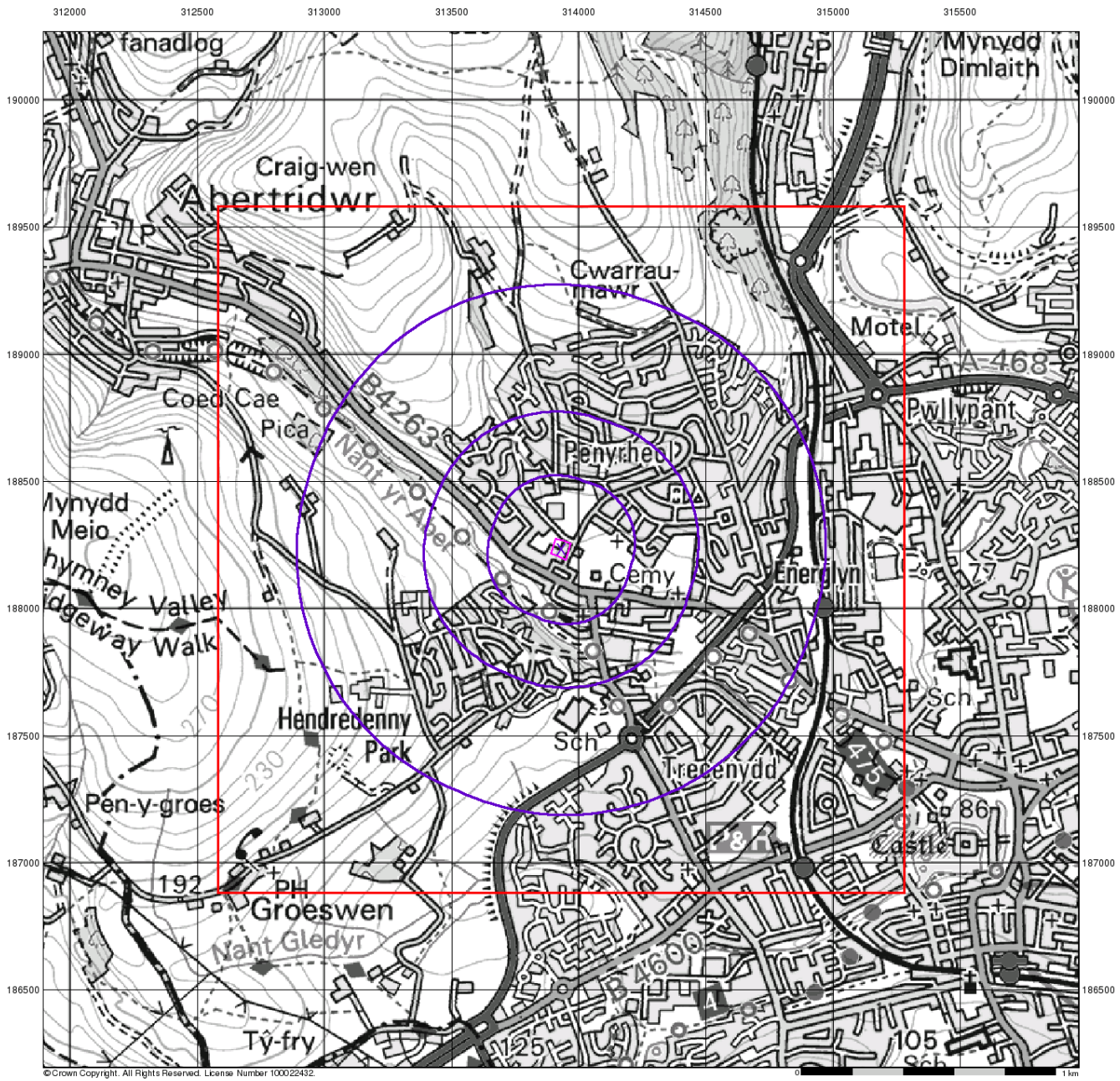

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Source Protection Zones

General

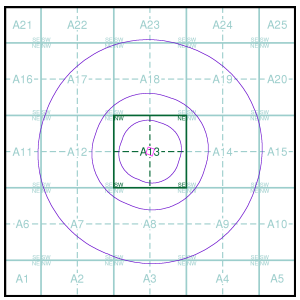
Specified Site | Specified Buffer(s) | Bearing Reference Point

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



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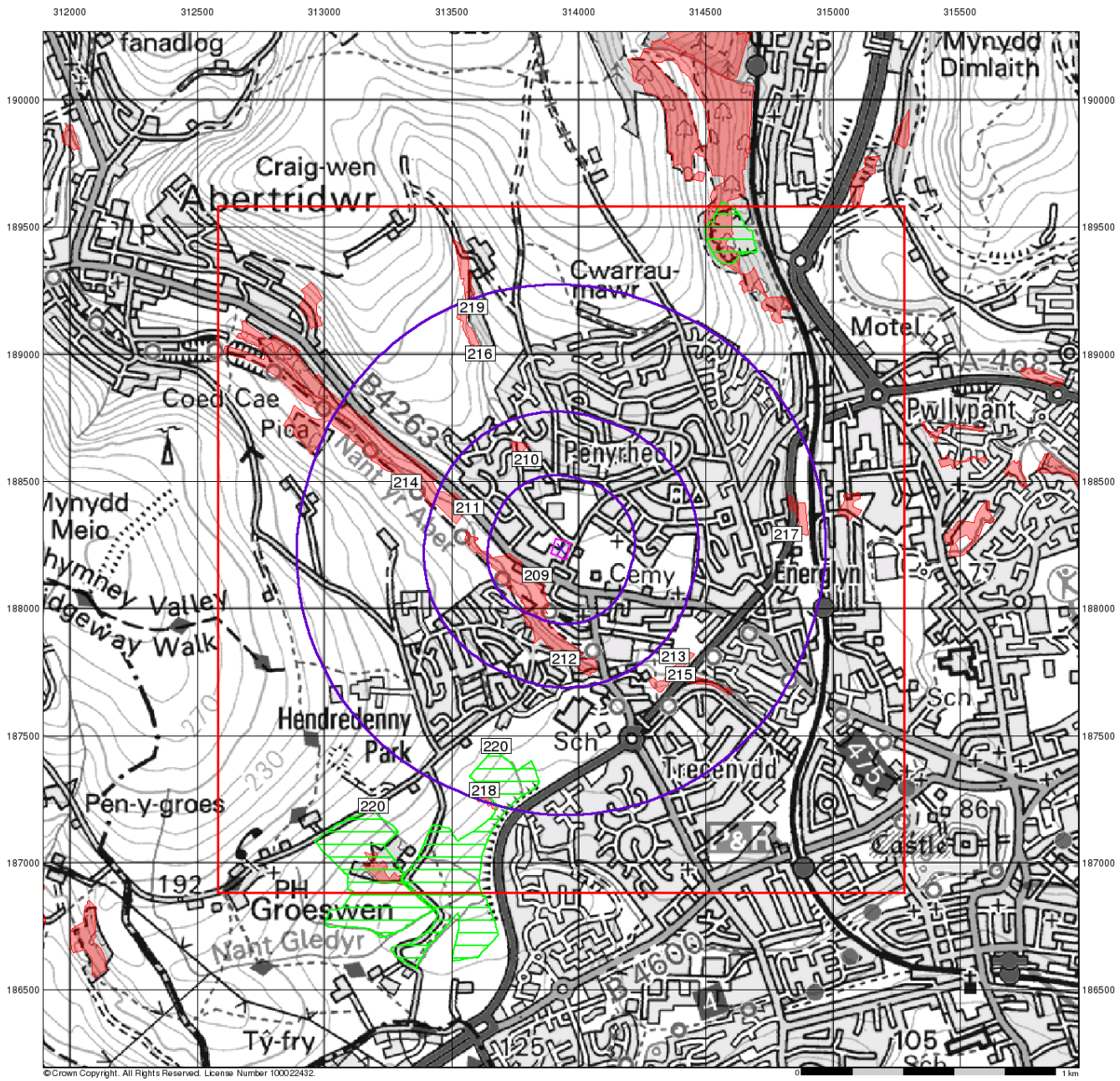

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Sensitive Land Uses

General

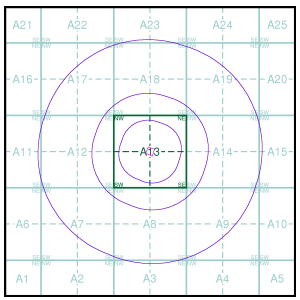
Specified Site | Specified Buffer(s) | Bearing Reference Point

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



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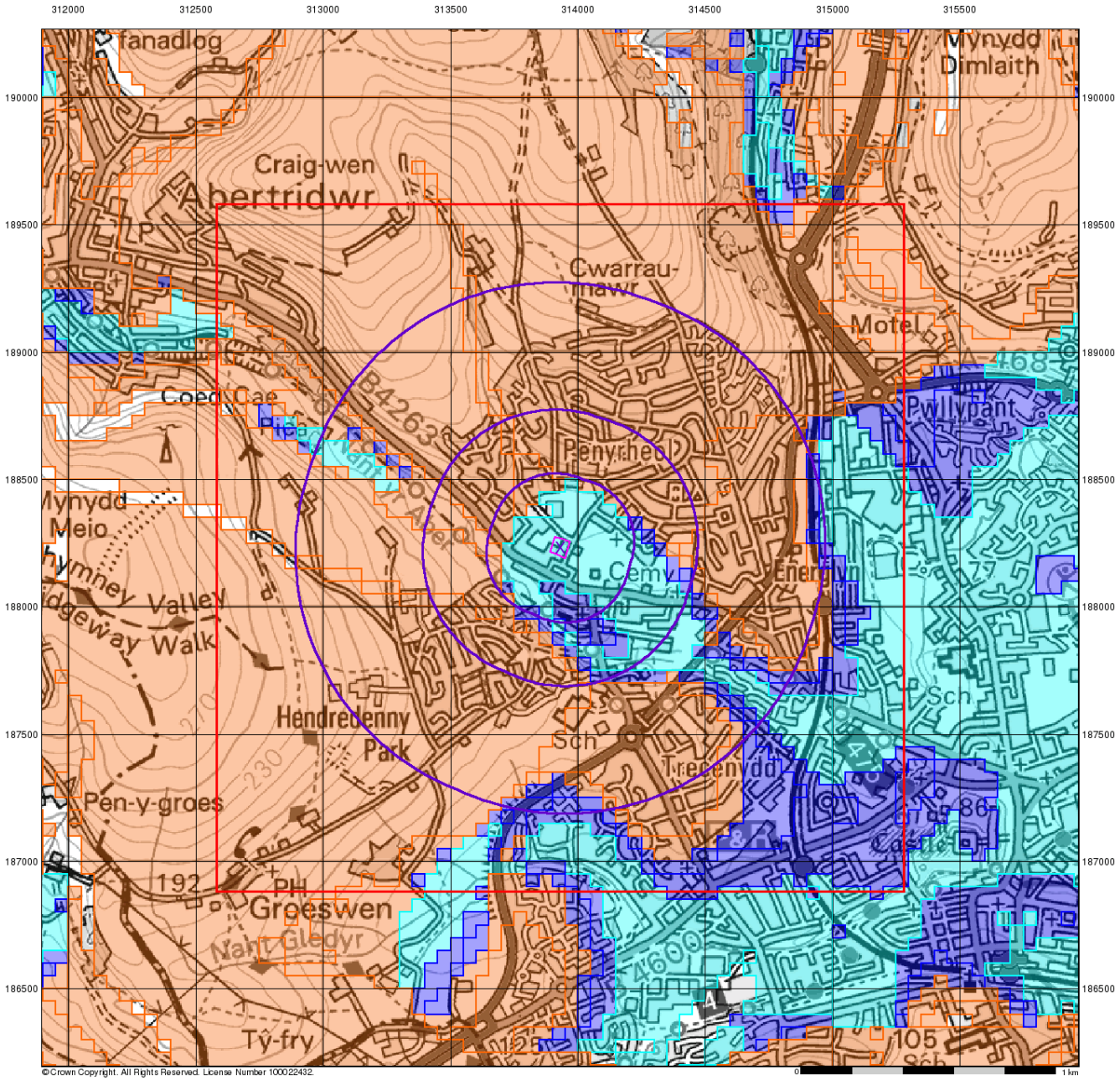

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BGS Flood GFS Data

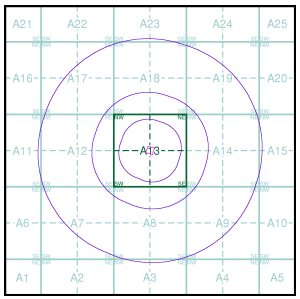
General

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



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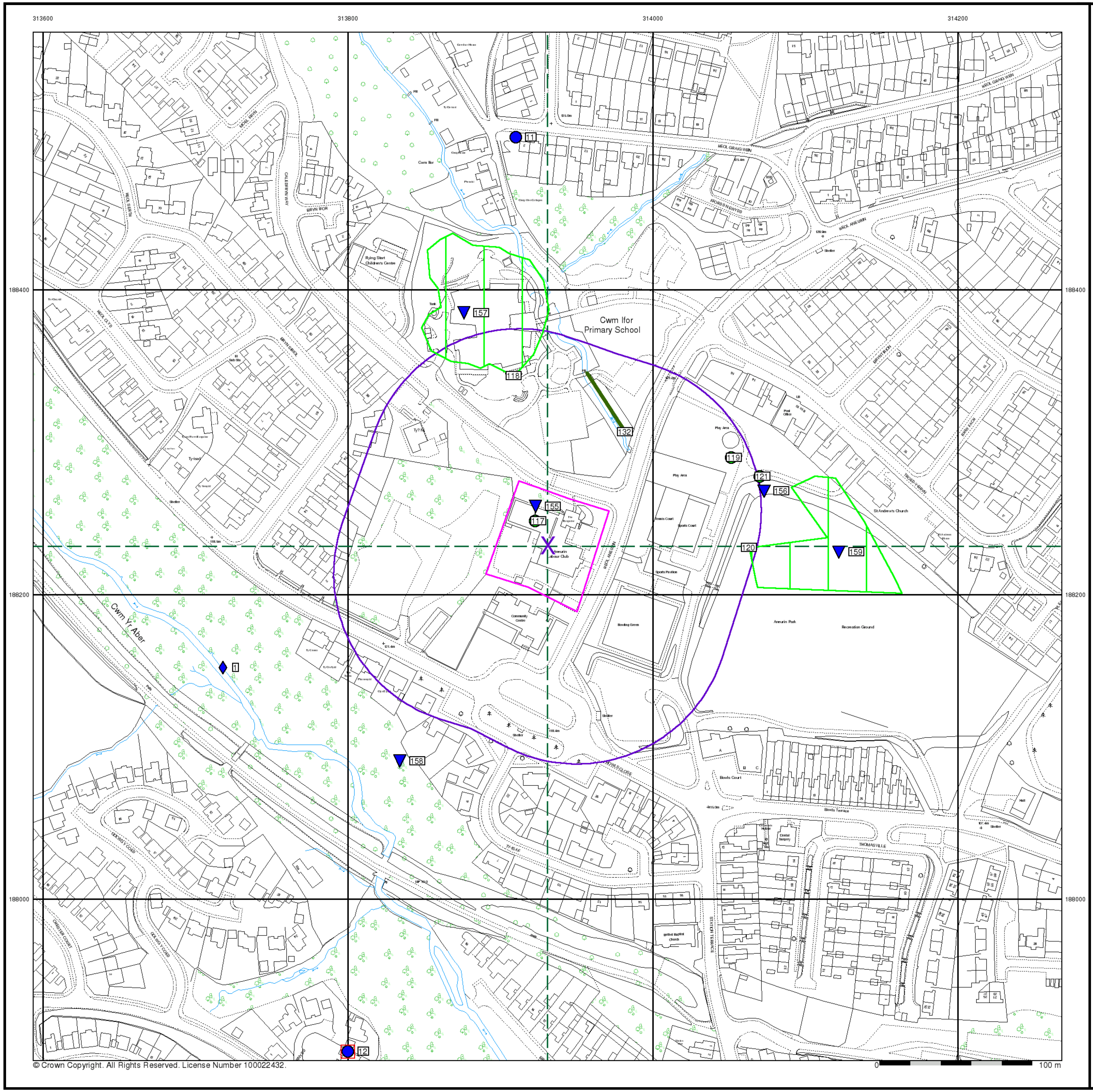

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General

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

Agency and Hydrological

- ● Contaminated Land Register Entry or Notice (Location)
- ▨ Contaminated Land Register Entry or Notice
- ◆ Discharge Consent
- ▲ Enforcement or Prohibition Notice
- ▲ Integrated Pollution Control
- 🟩 Integrated Pollution Prevention Control
- ■ Local Authority Integrated Pollution Prevention and Control
- △ Local Authority Pollution Prevention and Control
- ▽ 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

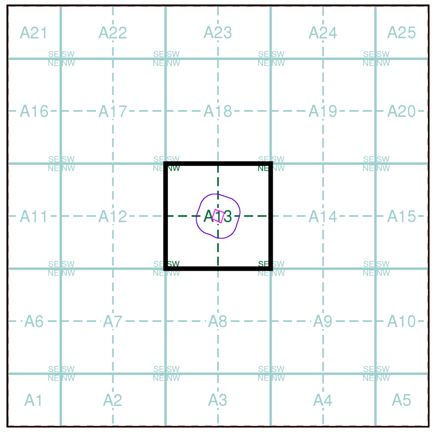
Geological

- ▼ BGS Recorded Mineral Site

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
- ▶ 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

Site Sensitivity Map - Segment A13



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Order Details

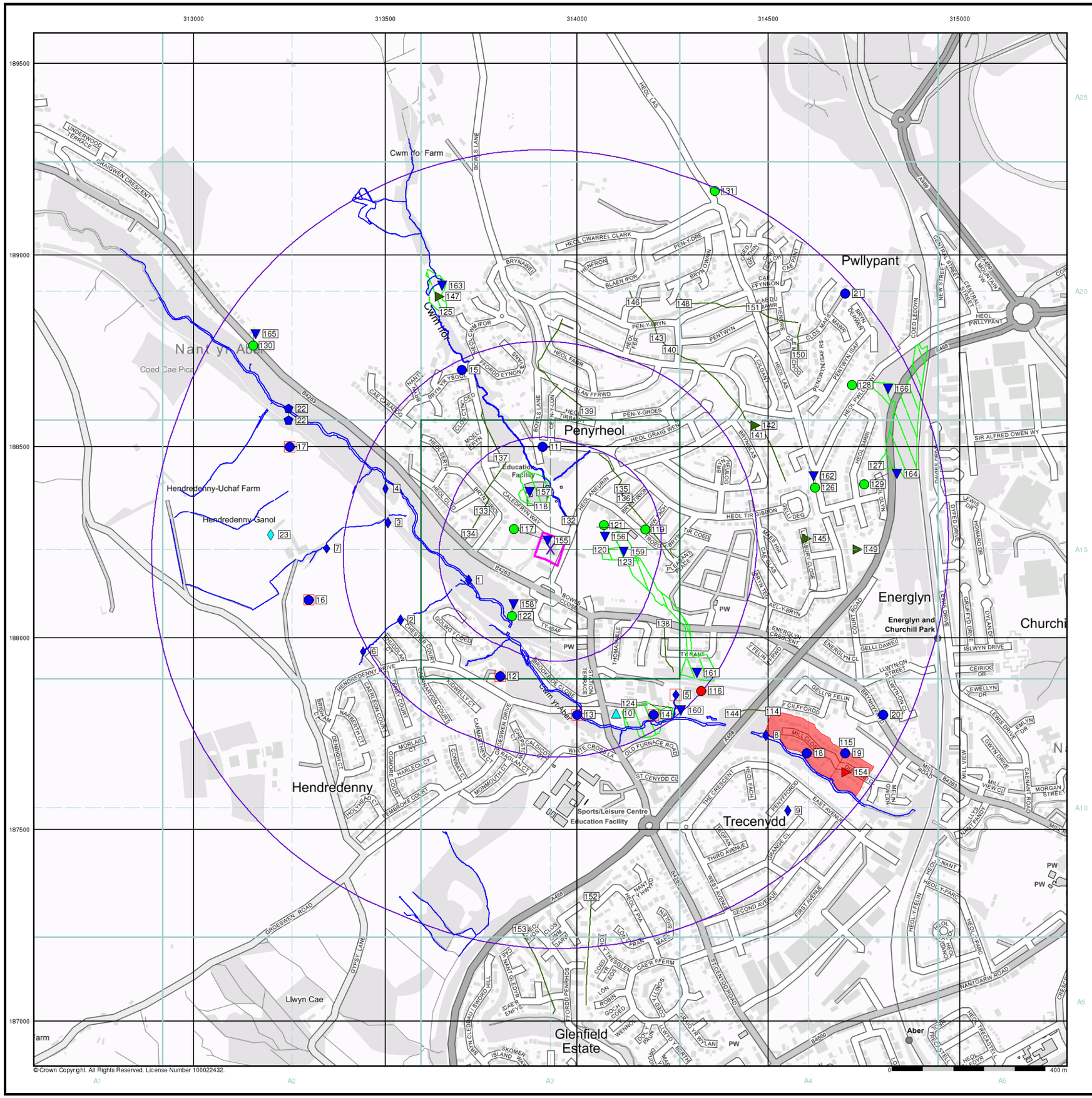
Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Plot Buffer (m):	100

Site Details

Site at 313950, 188370

Landmark
INFORMATION GROUP

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



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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

Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

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
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- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
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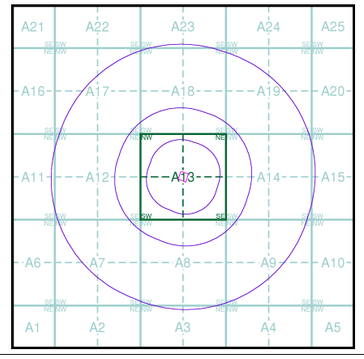
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

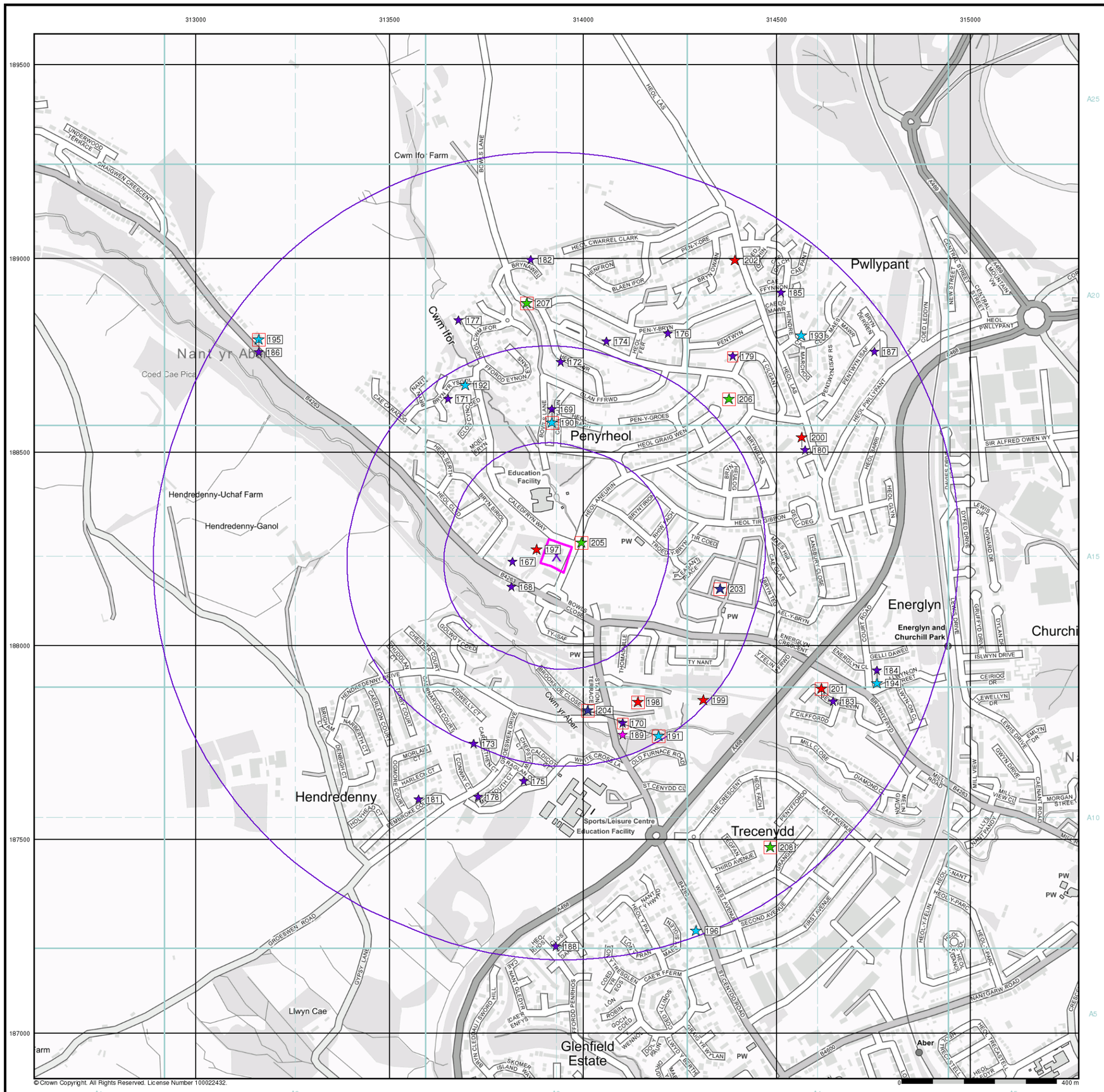
Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

Landmark INFORMATION GROUP

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



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Industrial Land Use Map

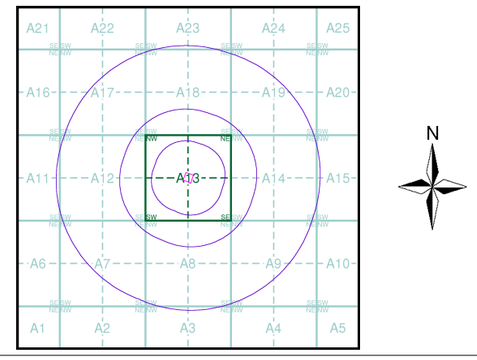
General

- 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:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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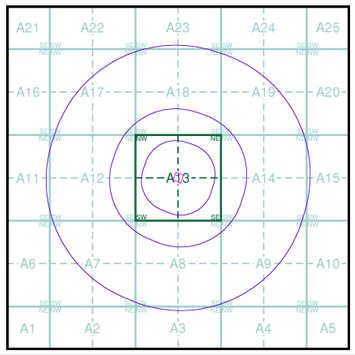
General

- Specified Site
- Specified Buffer(s)
- X 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



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Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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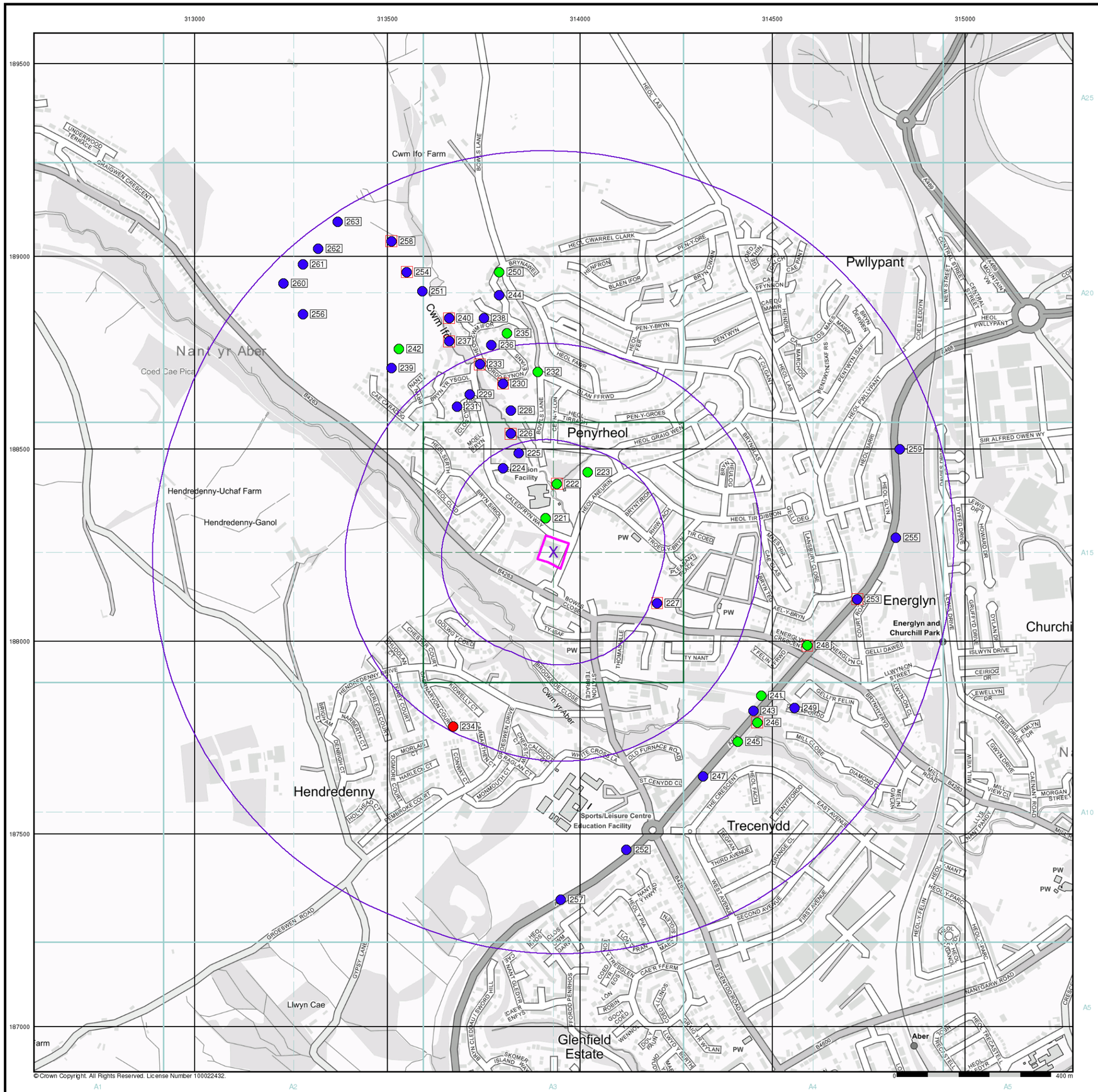

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General

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

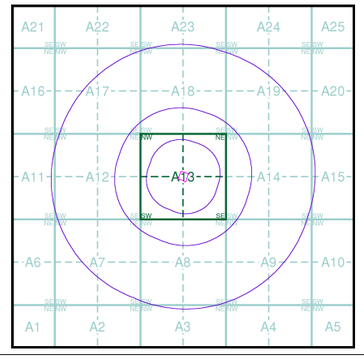
Agency and Hydrological (Boreholes)

- 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

Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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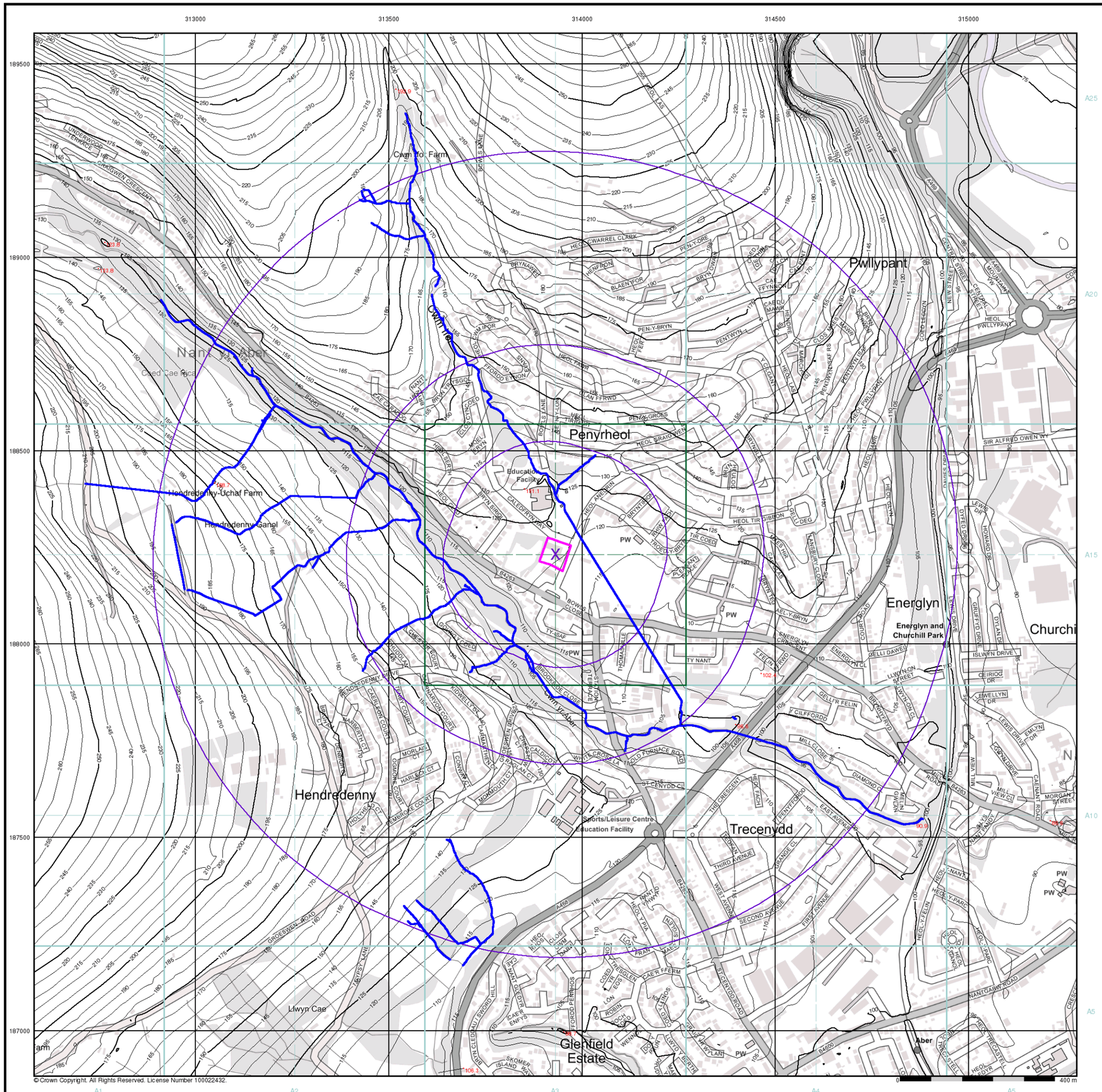

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General

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

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

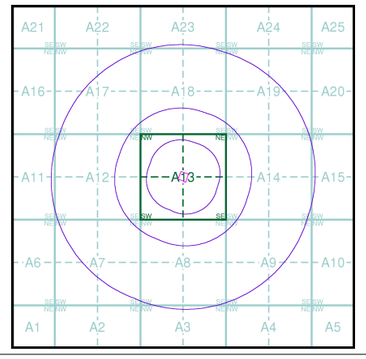
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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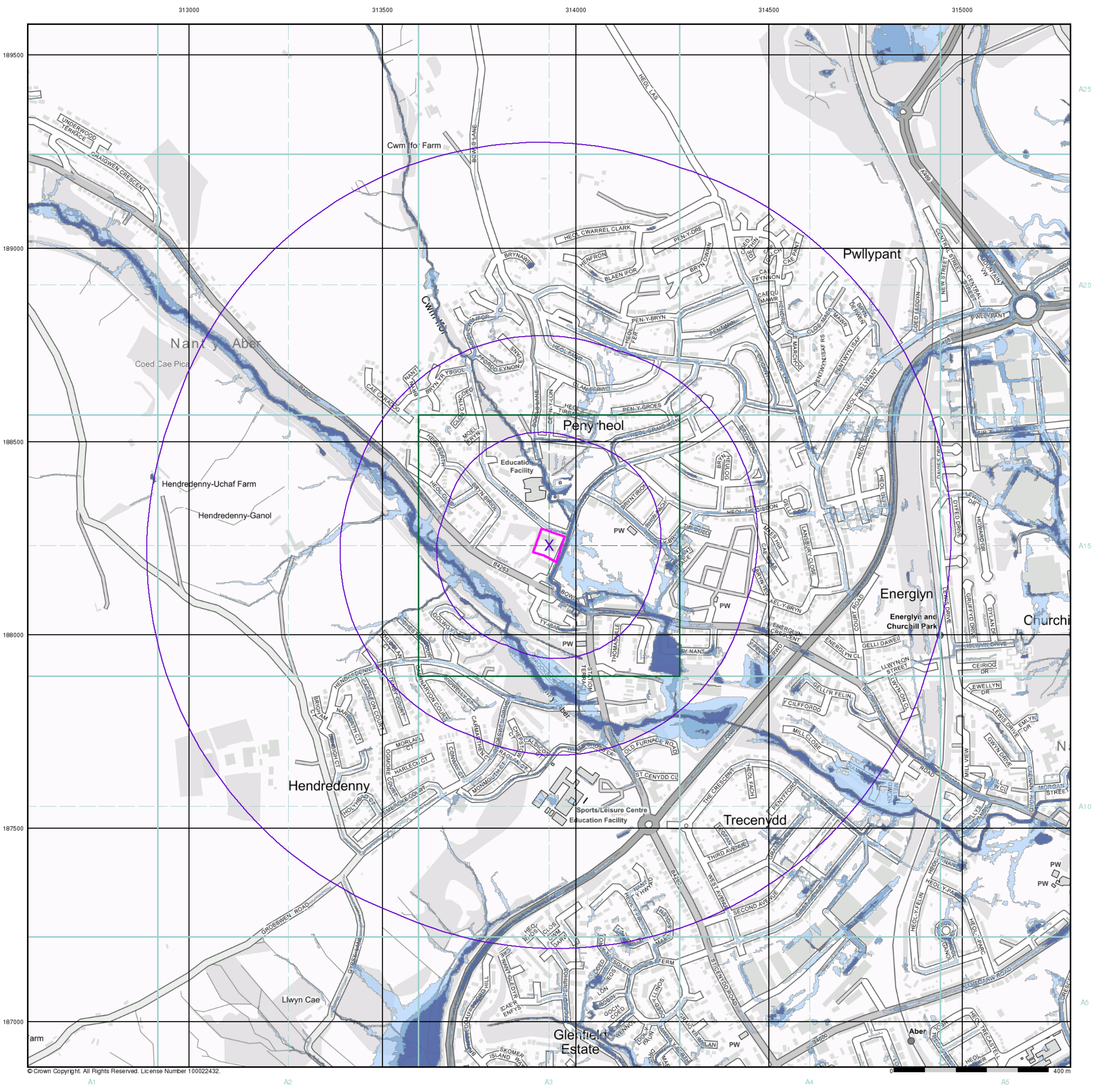


General

⬠ Specified Site
⬠ Specified Buffer(s)
X Bearing Reference Point

Risk of Flooding from Surface Water

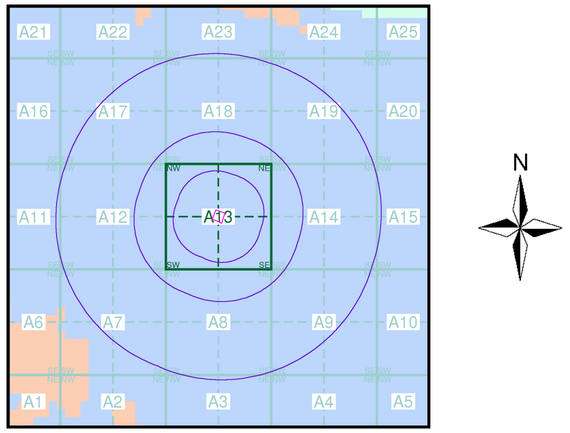
🟦 High - 30 Year Return
🟦 Medium - 100 Year Return
🟦 Low - 1000 Year Return

Suitability

See the suitability map below

🟩 National to county
🟧 County to town
🟦 Town to street
🟪 Street to parcels of land
🟨 Property

EA/NRW Suitability Map - Slice A



Order Details

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Customer Ref: 17900JR
National Grid Reference: 313930, 188230
Slice: A
Site Area (Ha): 0.42
Search Buffer (m): 1000

Site Details

Site at 313950, 188370

Landmark
INFORMATION GROUP

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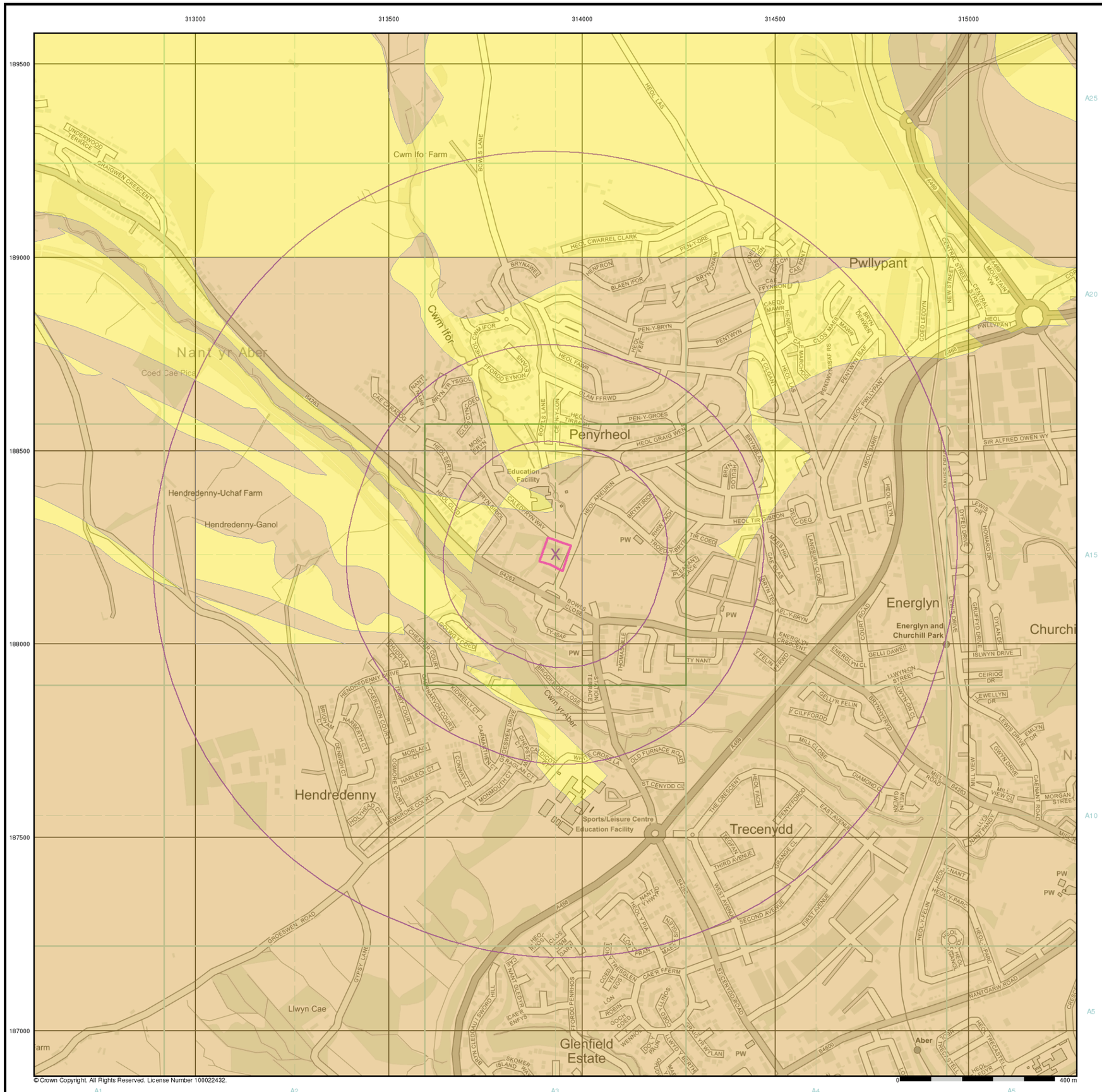
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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General

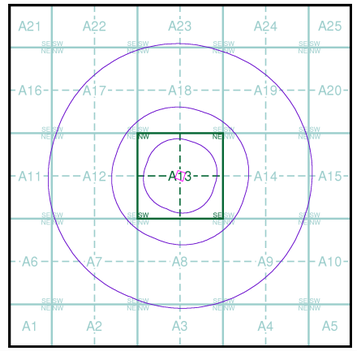
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
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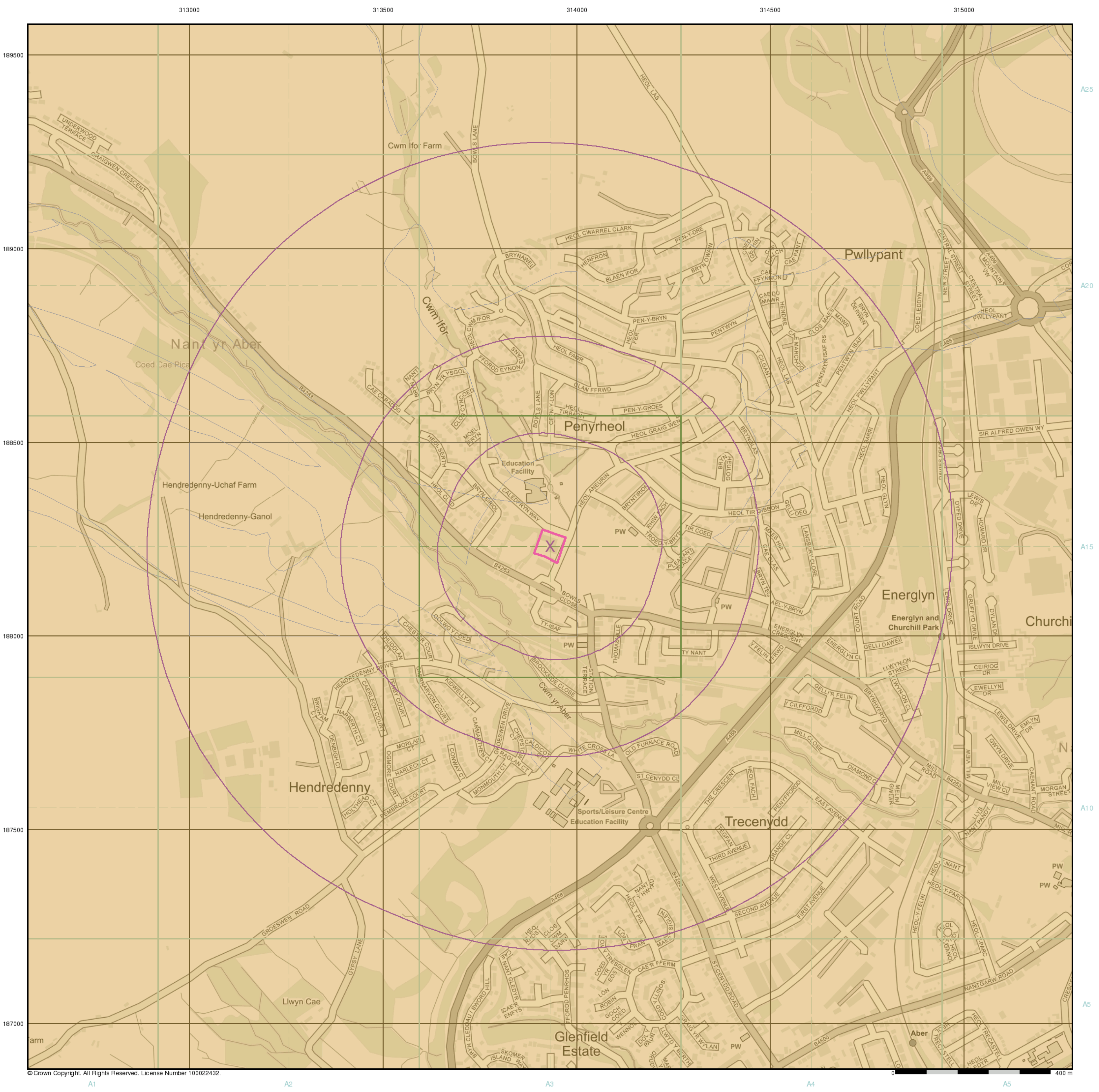

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General

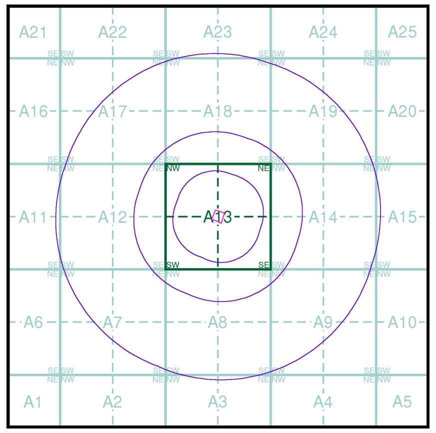
◇ Specified Site ◇ Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

▨	< 1.8
🟨	1.8 - 2.2
🟧	2.2 - 3.0
🟫	> 3.0

Estimated Soil Chemistry Cadmium - Slice A



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Order Details

Order Details:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

Landmark® INFORMATION GROUP

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

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General

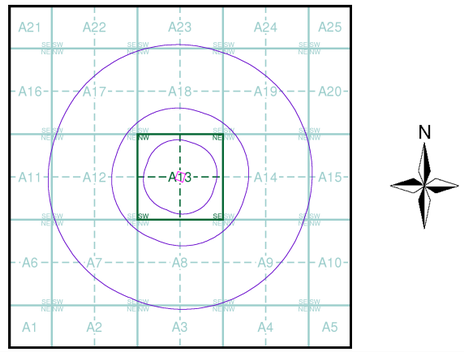
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
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Site Details

Site at 313950, 188370

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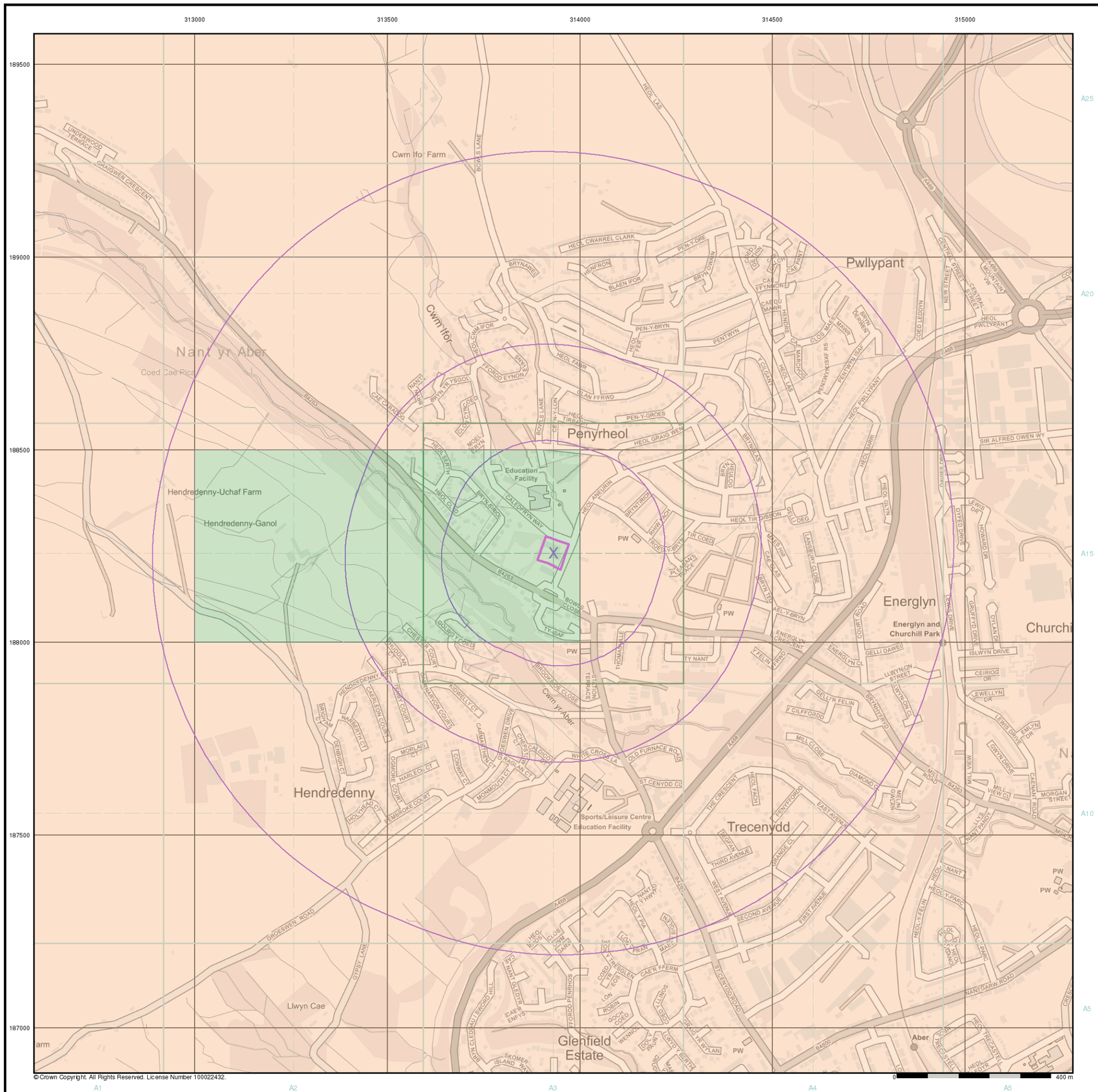

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Geotechnical & Geoenvironmental Specialists

General

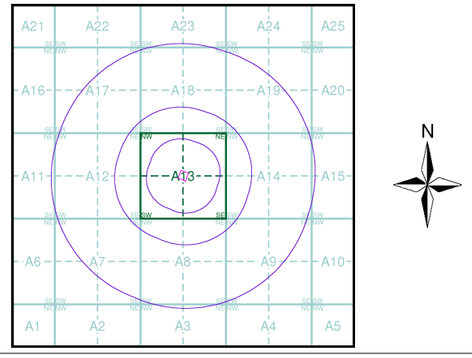
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



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Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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

terra firma
Geotechnical & Geoenvironmental Specialists

General

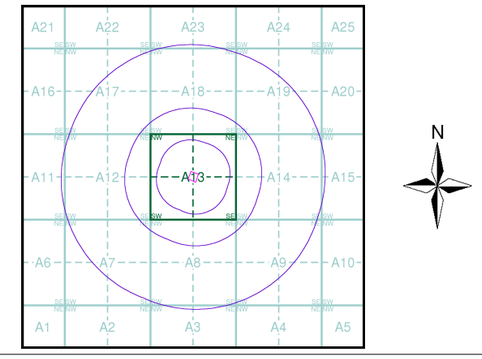
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	340965028_1_1
Customer Ref:	17900JR
National Grid Reference:	313930, 188230
Slice:	A
Site Area (Ha):	0.42
Search Buffer (m):	1000

Site Details

Site at 313950, 188370

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

ANNEX B
Coal Authority Mining Report

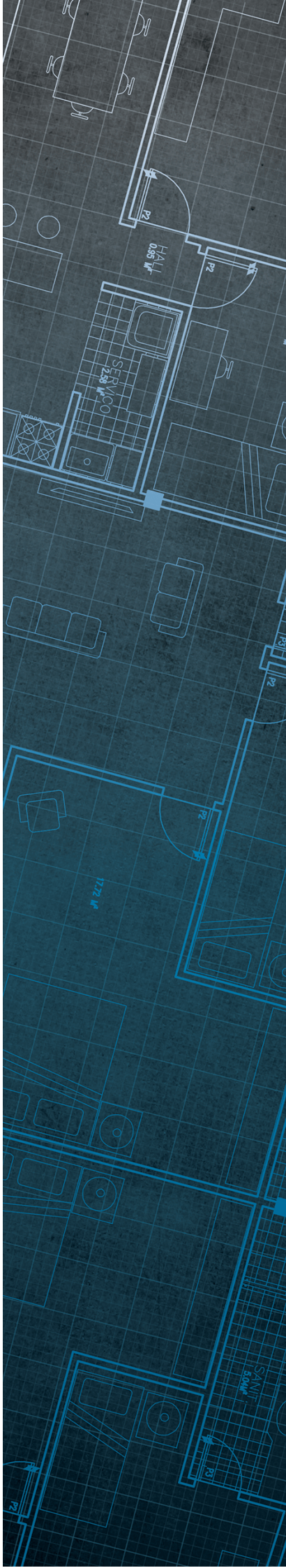
The Coal Authority

Consultants

Coal Mining Report

Site At 313950, 188370
Caerphilly

Date of enquiry:	**28 March 2024**
Date enquiry received:	**28 March 2024**
Issue date:	**28 March 2024**
Our reference:	**51003414503001**
Your reference:	**340965028_2**



Consultants

Coal Mining Report

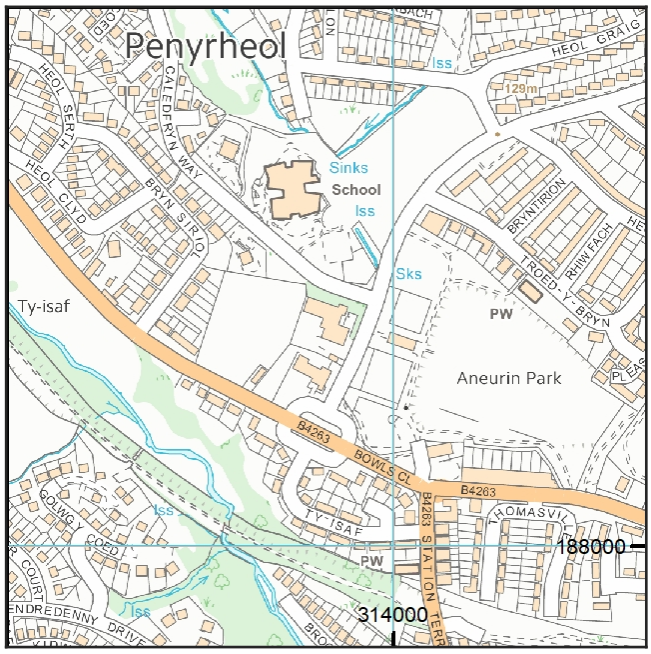
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Site At 313950, 188370
Caerphilly



Approximate position of property

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	MYNYDDISLWYN LOWER LEAF	Coal	43XP	78	Beneath Property	6.6	South-East	110	1870
unnamed	MYNYDDISLWYN LOWER LEAF	Coal	41S2	86	East	7.2	South-East	90	1873
unnamed	UPPER SIX FEET	Coal	43TY	610	North-West	8.8	South	200	1924
NANTGARW	UPPER SIX FEET	Coal	43TX	645	South-West	6.2	South-East	200	1968
unnamed	UPPER SIX FEET	Coal	43TZ	665	West	9.8	East	200	1972
unnamed	UPPER SIX FEET	Coal	43VH	667	South-West	4.3	North-East	220	1970
unnamed	UPPER SIX FEET	Coal	43VI	677	South-West	2.4	North-West	220	1985

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	313188-001	313919 188267		Coal	
Shaft	314188-007	314001 188202		Coal	
Shaft	314188-009	314058 188296		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

3024	SWR1834	PO0
SWA3224	6	SWR1835
1995	SWR4124	662

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
PENNYSCALLEN	Coal	Yes	Within	N/A	197
UNNAMED	Coal	Yes	15.8	North-West	207

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

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.

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

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

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1951 and 1976.

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.

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.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The Coal Authority

Summary of findings

Map data

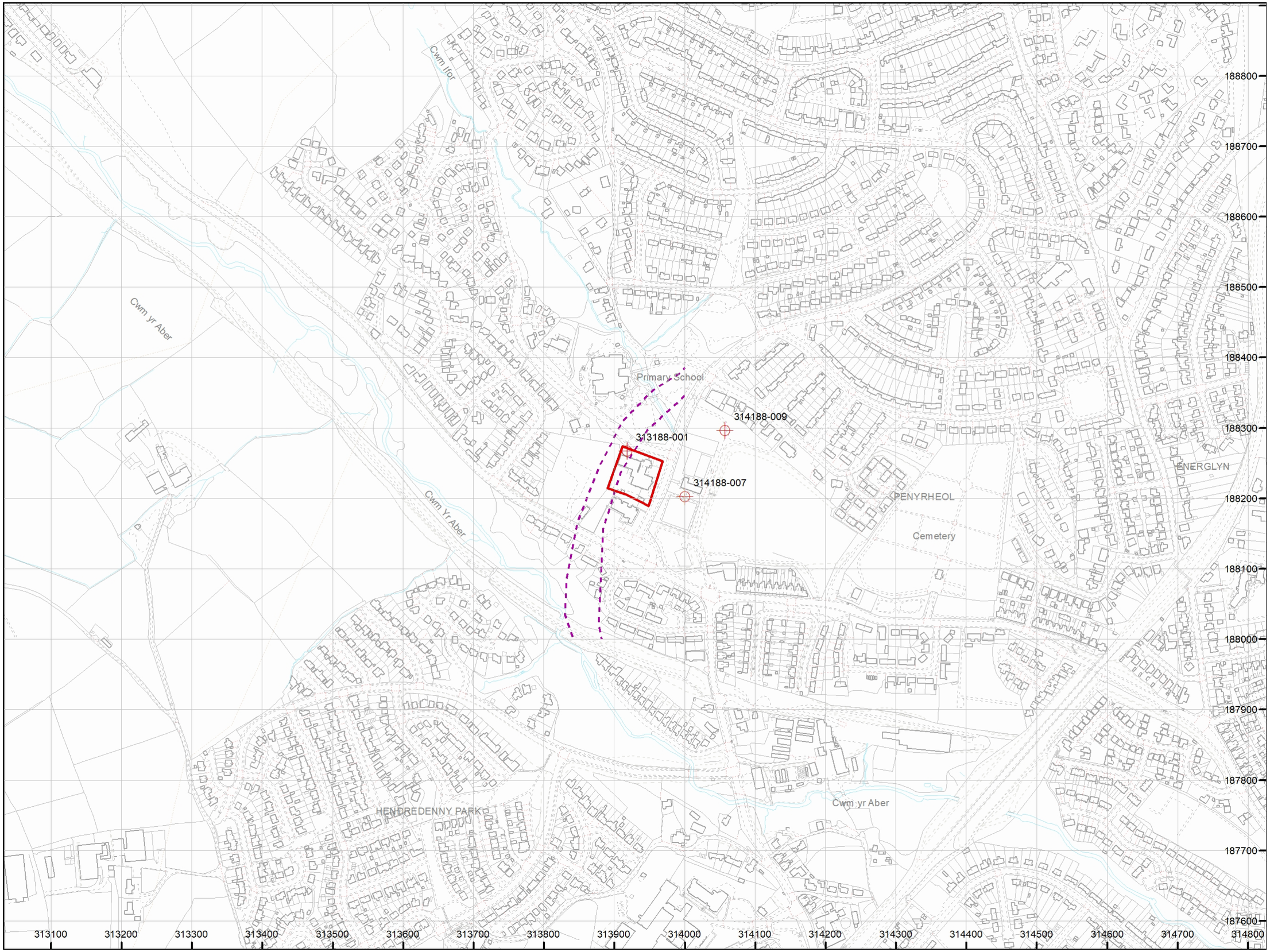
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Disused mine shaft

Outcrop (Conjectured)



How to contact us
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ANNEX C
Site Walkover Photographs

SITE RECONNISANCE PHOTOGRAPHS

Photo No:	01
Date:	25/04/24

Description:
View from the western boundary looking south

Photo No:	02
Date:	25/04/24

Description:
View from the western boundary looking southeast

Photo No:	03
Date:	25/04/24

Description:
View from the western boundary looking east

SITE RECONNISANCE PHOTOGRAPHS

Photo No:	04
Date:	25/04/24

Description:
View from the western boundary looking north

Photo No:	05
Date:	25/04/24

Description:
Substation on site

Photo No:	06
Date:	25/04/24

Description:
Asbestos tiles

ANNEX D
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 overreaching 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 is it 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.

DRAFT

terra firma

Geotechnical & Geoenvironmental Specialists

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