

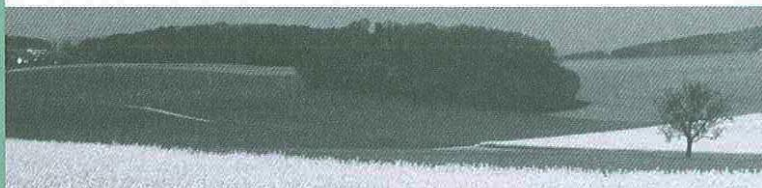
Coal Mining Risk Assessment Report
Leiros Park, Rhydding, Neath

Prepared For:
Hale Construction Limited



April 2017

Job No: 14156



REPORT TITLE : **Coal Mining Risk Assessment Report:**
Leiros Park, Rhydding, Neath

REPORT STATUS : **Final**

JOB NUMBER : **14156**

DATE : **April 2017**

PREPARED BY : 
(Mr M. Watkins)

REVIEWED BY : 
(Mrs R. Howells)

APPROVED BY : 
(Dr G. C. Lake)

Executive Summary

Site location	<i>The site situates on field land to the north of the Rhydding area of Neath at a National Grid Reference of 275340 199030. It occupies an approximate plan area of 11.09 hectares.</i>
Site history	<i>The majority of the site has been unoccupied field land 1877 apart from some small buildings at the south of the site. Surrounding the site has been dominated by the mining industry, small quarries and farming. Following the demise of the mining industry, a large housing estate (Rhydding) was built to the south and west of the site.</i>
Geology and Ground Conditions	<i>The site is underlain by the Hughes Member of the Upper Coal Measures Formation. These sedimentary rocks were formed in the Carboniferous Period. The north and southeast of the site are underlain by sandstone, and the central area of the site is underlain by bands of mudstones, siltstones and sandstones.</i> <i>Bedrock in the area dips at approximately to the north and west at between 9° and 12°.</i> <i>The Mountain coal seam is shown crossing the middle of the site, followed by a thin coal seam that lies approximately 12.5m below, and the Garlant coal seam approximately 54m below the Mountain coal seam; outcropping approximately 40m to the southeast.</i> <i>Various shafts, adits and 'old coal workings' are shown in close proximity to the site. Both the Mountain and Garlant coal seams are known to be worked in the local area.</i>
Mining	<i>The Coal Authority Report do not hold records of the workings in either Mountain or Garlant coal seams. However, workings are recorded in seams at greater depth (62m to 137m) beneath the site.</i> <i>Ten mine entries are located within or within close proximity of the site boundary; two of which are located on site. A shaft is located roughly at the centre of the site, and another at the far west of the site.</i> <i>An unknown structure was recorded within close proximity of the agricultural buildings at the south of the site during a site walkover. The possibility of it being a shaft cannot be discounted</i>
Assessment of risk	<i>When assessing the risks from shallow mine workings, as a rule of thumb to prevent the future collapse of mine workings migrating to the surface and forming crown holes there should be a 10:1 rock head to void ratio.</i> <i>It is unlikely that this criterion would be achieved over the Mountain and Unnamed coal seams across the north of the site. There may also be insufficient rockhead above the Garlant coal seam at the south-eastern area of the site.</i> <i>Given the amount of mining features shown on both the historical maps and geological maps for the area, and the mining report for the site, it is considered highly likely that unrecorded workings may have taken place beneath the site. Consequently, it is concluded that there is a significant risk to the surface stability of the site from past unrecorded coal workings and mine entries.</i>
Recommended	<i>A site investigation comprising rotary probeholes should therefore be carried out to quantify the risk from past shallow workings. All suspected mine entries should also be found, and their position, depth and dimensions recorded.</i>

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SECTION 1 Introduction and Proposed Development

Hale Construction Limited is proposing a residential development known as Leiros Park in the Rhydding area of Neath.

CB³ Consult Limited is the Consulting Civil and Structural Engineer for the proposed development.

Terra Firma (Wales) Limited has been commissioned to undertake a Mining Risk Assessment Report for the site.

The main objectives of Mining Risk Assessment were to:

- Investigate any historic mining activities that may pose a risk to the proposed development.
- Determine the geological conditions beneath the site.
- Determine if shallow workings are likely to be present beneath the site.
- Determine the likely amount of sound rock head cover above any workings.
- Provide an assessment of the risk from shallow workings beneath the site.

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a review of existing data.

1.1 Limitations and Exceptions

Hale Construction Limited has requested that a Mining Risk Assessment Report be prepared.

The report has been prepared for the sole internal reliance of Mr Mathew Samuel and his design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma (Wales) Limited. If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report represents the findings and opinions of experienced geo-environmental and geo-technical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may also be required.

The Coal Mining Risk Assessment was conducted and this report has been prepared for the sole internal reliance of Hale Construction Limited and its design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma (Wales) Limited. If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report represents the findings and opinions of experienced geotechnical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may also be required.

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

SECTION 2 Review of Existing Data

2.1 Physical Setting and Current Site Use

The site sits on field land to the north of the Rhydding area of Neath at a National Grid Reference of 275340 199030. It occupies an approximate plan area of 11.09 hectares.

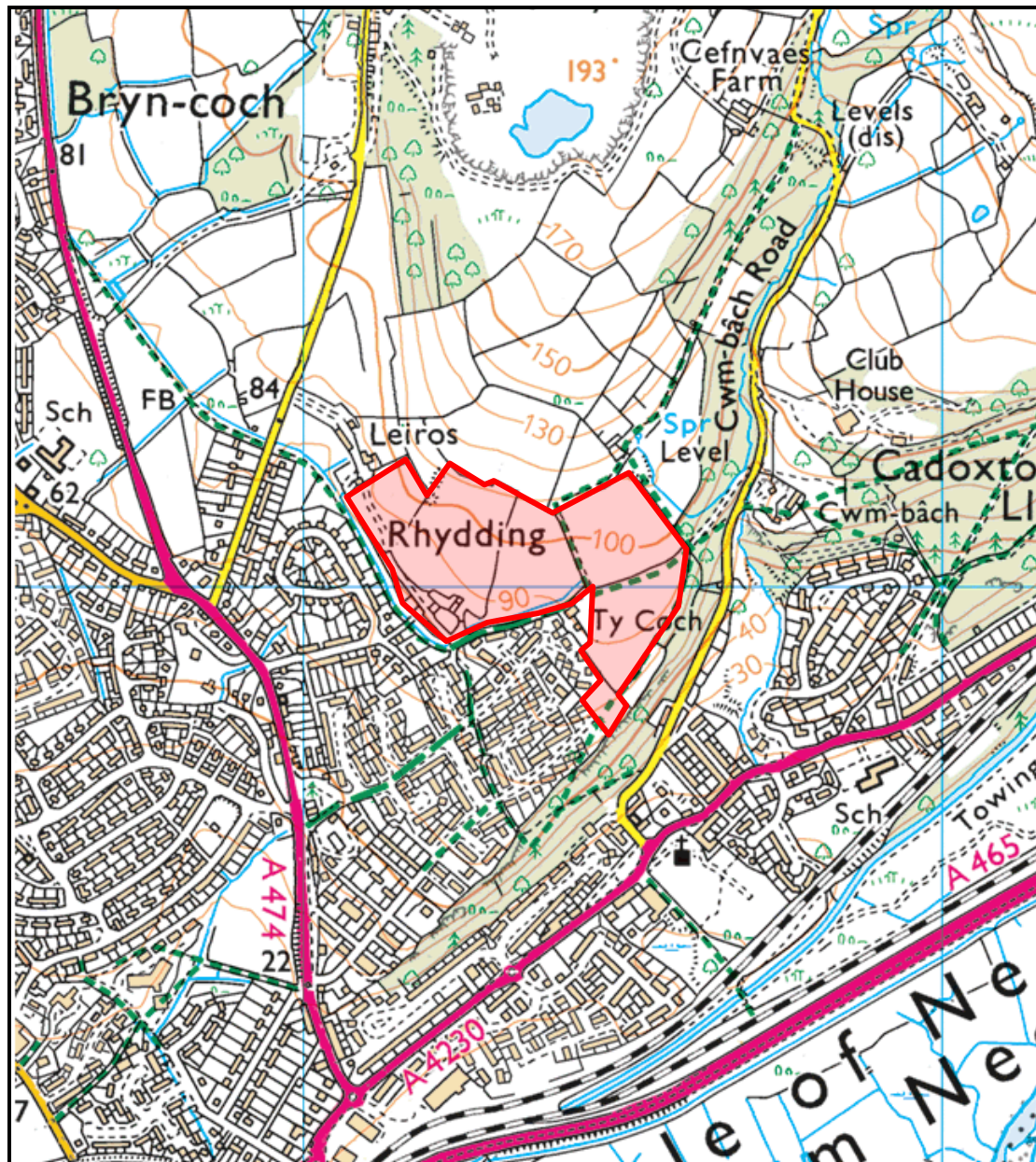


Figure 2.1: Site Location - OS Map

The site predominantly consists of fields, bounded by mature trees and hedgerows. A small parcel of land at the southwest of the site is occupied by old agricultural buildings and for storage and small scale agricultural use by local residents. A public right-of-way passes through the east of the site.

The far south of the site is covered by brambles and is separated from the remainder of the site by a damaged post and wire fence.

2.1 Physical Setting and Current Site Use

The site falls from approximately 115m AOD at the north, to approximately 90m AOD at the south, over a distance of approximately 200m.

The site is accessed from the southeast at the end of Daphne Road, or from the west at Gilfach Road via Leiros Farm.

The far southwest of the site is covered by brambles and is separated from the remainder of the site by a damaged post and wire fence.

The site is bound to the south and southwest by a large housing estate; to the north by fields; to the east by woodland; and to the northwest by Leiros Farm's buildings. The woodland to the east slopes very steeply from 84m AOD at the west, to 44m AOD to the east, over a horizontal distance of approximately 80m.

2.2 History

The history of the site has been traced using historical Ordnance Survey maps obtained from Landmark Information Group. These are presented in **Annex A**. A summary of the history of the site is given below. Distances, where quoted are approximate.

1877-81 (1:2,500 Scale)

The site in the earliest edition is seen to be unoccupied field land. A small cluster of buildings known as Rhydding is located at the far south of the site. Leiros Farm is located to the immediate northwest of the site, an old gravel pit is located at the northwest boundary of the site, and a spring is located at the site's southwest boundary.

The site is surrounded by signs of coal mining; a coal pit and nearby furnace are located approximately 150m southwest of the site, an old coal level approximately 60m north of the site, a coal pit 110m north of the site, an air shaft approximately 160m, another coal pit located 140m to the east, and an old coal level 180m to the east. Rhydding Colliery is located approximately 220m south of the site.

Most of the surrounding area comprises farmland and woodland, sporadic houses, springs and a few small quarries; possibly mining the sandstone. Small settlements are located approximately 60m to the southwest and 140m to the west. A small track bisects the site from the northeast to the southwest of the site.

1899 (1:2,500 Scale)

Little change has been made to the site or surrounding area since the previous edition. Rhydding Colliery is no longer in use.

1918-1919 (1:2,500 Scale)

Little change has been made to the site or surrounding area since the previous edition. A small settlement known as Rhydding is located around the former Rhydding Colliery. A hydraulic ram (water pump) is located at a spring on the sites northwest boundary.

1935 (1:2,500 Scale)

There are no significant changes to the site or the immediate surrounding area since the previous edition apart from the growth of the residential settlement to the southwest around Rhydding.

2.1 History (Continued)

1964-68 (1:2,500 Scale)

There are no significant changes to the site. However the residential settlement of Rhydding has grown significantly since 1935 and now forms the southwest boundary of the site. A large residential estate has also been constructed and the Leiros Farm has also grown, and the buildings at the south of the site are known as Rhydding Cottages.

1978-89 (1:2,500 Scale)

The site appears to remain unchanged, however the residential development to the southwest and east of the site have continued to grow.

1999 (1:10,000 Scale)

The site and surrounding area appear to remain unchanged,

2017 (1:10,000 Scale)

The site and surrounding area appear to remain unchanged,

2.3 Geology

The 1:10,560 scale geological maps of the area (Sheets SS 79 NE) and the 1:50,000 scale geological map (Sheet 247) of the area was consulted.

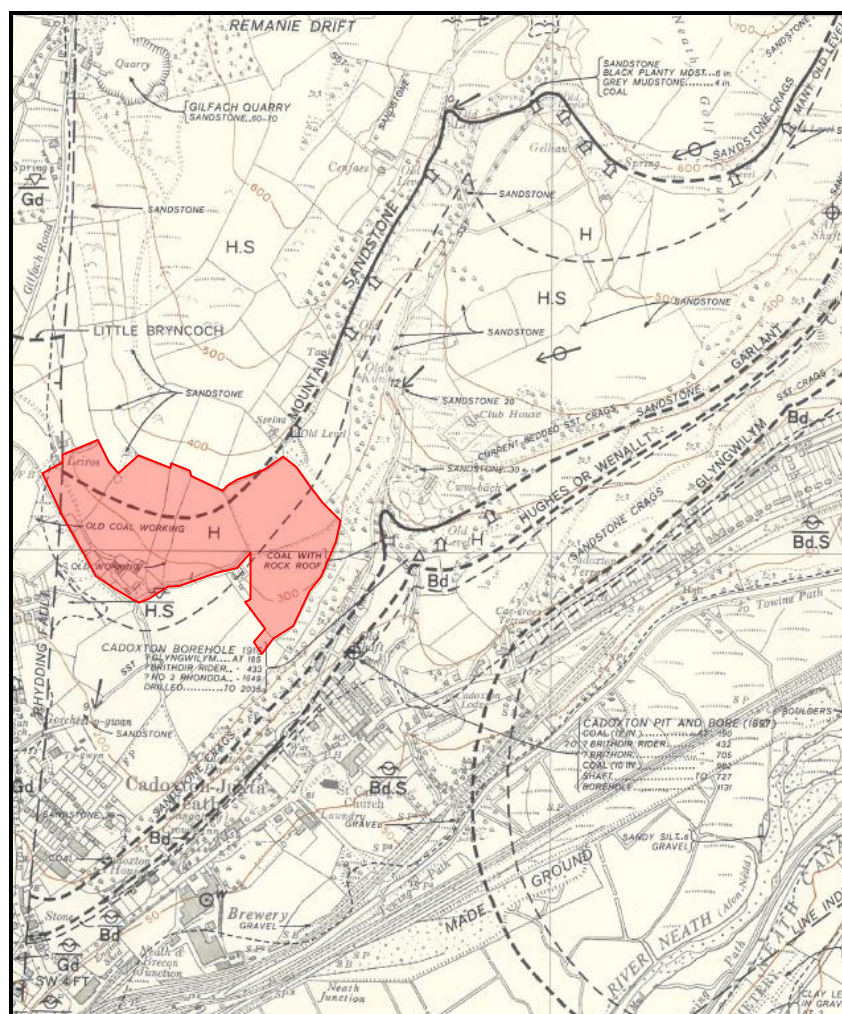


Figure 2.2: Extract from Geology Map (Sheet SS 79 NE)

2.3 Geology (Continued)

The site is underlain by the Hughes Member of the Upper Coal Measures Formation. These sedimentary rocks were formed in the Carboniferous Period. The north and southeast of the site are underlain by sandstone, and the central area of the site is underlain by bands of mudstones, siltstones and sandstones.

The bedrock in this area is recorded as dipping to the north and west at between 9° and 12°.

The Mountain coal seam is shown crossing the middle of the site. The seam will therefore underlie the northern area of the site at shallow depth. A number of adits working the seam are shown in the area; the closest of which is located approximately 50m northeast of the site.

The Generalised Vertical Section shows a thin coal seam that lies approximately 12.5m beneath the Mountain coal seam and therefore it too may underlie the northern area of the site at shallow depth.

The conjectured outcrop of the Garlant coal seam is located approximately 40m to the southeast of the site and approximately 54m below the Mountain coal seam. A number of adits and shafts show that the seam is commonly worked in the area. Based upon the recorded dip of the bedrock, the Garnant coal seam may lie at shallow depth beneath the south-eastern portion of the site.

The Bodwr coal seam (2ft to 3ft 6 in.) lies approximately 18m beneath the Garnat, and the Hughes (3ft to 4ft) another 18m beneath the Bodwr. Both seams are likely to have been worked however they should lie at sufficient depth to not affect ground stability at the surface.

Various shafts, adits and 'old coal workings' are shown in close proximity to the site.

The north to south orientated Rhydding Fault crosses the far west of the site; downthrowing to the west.

No superficial deposits are recorded on the site; however a small area of Glacial Till is located to the immediate southwest of the site.

2.4 Mining

A Coal Authority Mining Report was obtained for the site and is presented in **Annex B**.

The report states that there are two seams of coal beneath the site with records of them having been worked; Hughes coal seam (62-82m depth) and Mynyddislwyn Lower Leaf (137m depth). The Coal Authority report also states that there is one coal outcrop on site. Whilst the Coal Authority record the seam as Darren Ddu; it is most likely referring to the Mountain coal seam, which outcrops through the middle of the site.

The report also states that spine roadways are located at shallow depth.

Ten mine entries are located within or within close proximity of the site boundary; two of which are located on site. A shaft is located roughly at the centre of the site, and another at the far west of the site.

2.4 Mining (Continued)

The Coal Authority do not hold records describing how the mine entries were treated.

During the site walkover, a local resident who rents a small parcel of the site for agricultural/recreational use stated that an unknown hole was located within close proximity to old agricultural buildings; as described in Section 2.1. A tractor wheel had been placed over the hole to stop children or animals from falling into it.

Beneath the wheel was water-filled void with wooden and metal beams spanning across it. Water level was recorded at around 1.0m depth below ground level. The shape, depth or diameter of the structure could not be established.

Whilst the Coal Authority do not hold records of a shaft in this area of the site, the possibility of this structure being a shaft cannot be discounted.

The approximate location of the unknown structure is presented below.

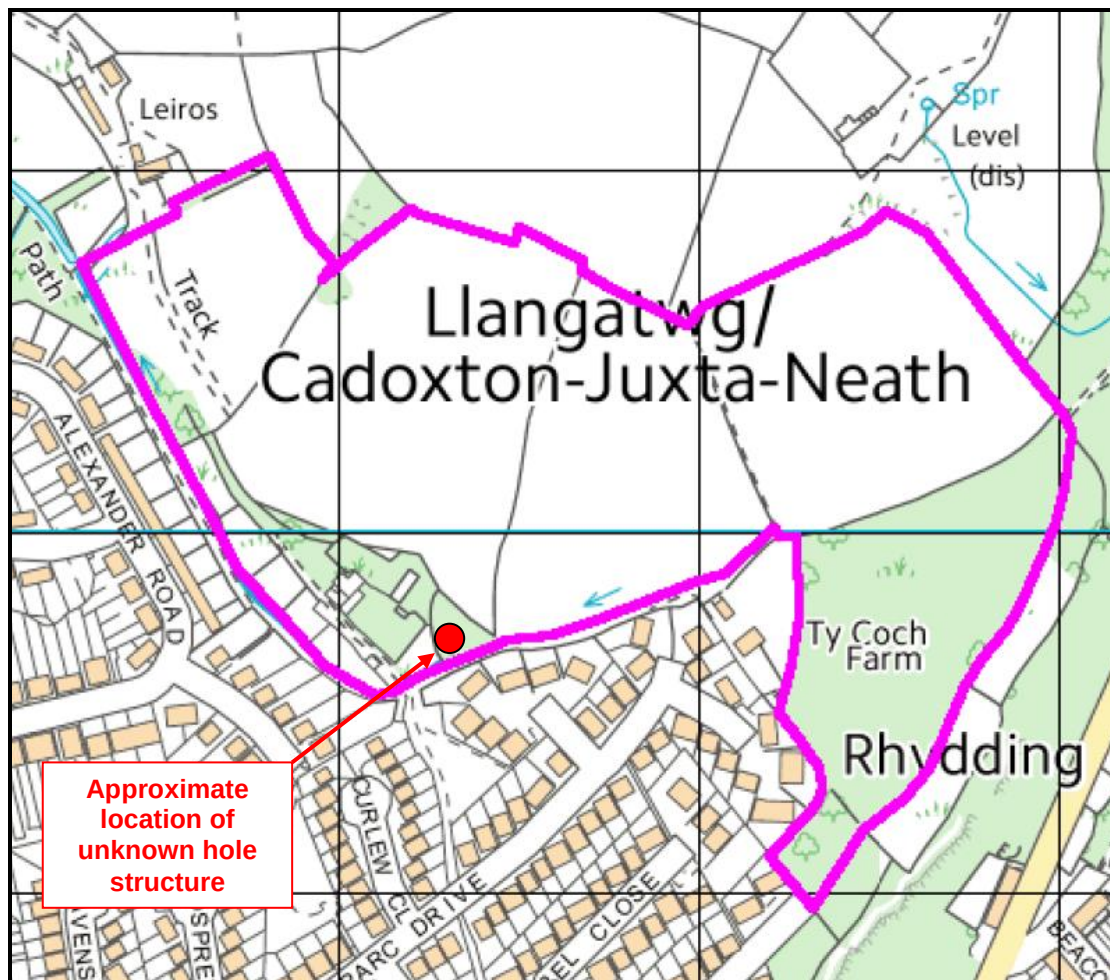


Figure 2.3: Approximate position of unknown hole structure

SECTION 3 Assessment of the Risk from Past Shallow Coal Mining

Based upon the geological and desk study information the stratigraphical sequence beneath the site and within 100m of the ground surface is taken to be:

- Measures
- **Mountain coal seam**
- Measures
- **Unnamed thin coal seam**
- Measures
- **Garlant coal seam**
- Measures
- **Bodwr coal seam**
- Measures
- **Hughes coal seam**

When assessing the risks from shallow mine workings, as a rule of thumb to prevent the future collapse of mine workings migrating to the surface and forming crown holes there should be a 10:1 rock head to void ratio.

It is unlikely that this criterion would be achieved over the Mountain and Unnamed coal seams across the north of the site. There may also be insufficient rockhead above the Garlant coal seam at the south-eastern area of the site.

Given the amount of mining features shown on both the historical maps and geological maps for the area, and the mining report for the site, it is considered highly likely that unrecorded workings may have taken place beneath the site. Consequently, it is concluded that there is a significant risk to the surface stability of the site from past unrecorded coal workings and mine entries.

A site investigation comprising rotary probeholes should therefore be carried out to quantify the risk from past shallow workings.

SECTION 4 Assessment of the Risk from Mine Entries

Investigation of the mine shafts and determination of their backfill/treatment should be completed. An excavator could be used to strip the ground to reveal any evidence of shafts on the site. In this way any mining feature should become visible. However, it would be prudent to complete a geophysical survey prior to any intrusive works to minimise intrusive activity and in the interest of safety.

If shaft features are identified rotary probehole drilling on the shaft areas should be undertaken to confirm the presence of any fill or voids, and depths of the shafts. The depth to bedrock adjacent to the shafts would also need to be confirmed so that the shaft exclusion zone to building may be determined.

There is a risk of collapse of superficial deposits/Made Ground around the abandoned mine shafts and of any deposits within the shafts. Collapse is typically radial around a shaft. An exclusion zone to development will therefore need to be applied around the mine shaft. To ascertain the minimum exclusion zone around each shaft, the area potentially at risk from collapse must be confirmed. This can be determined by knowing the depth of the superficial deposits. As a guide, a 45° line taken from the superficial soil and rockhead interface up to the surface defines this radial zone of potential collapse, i.e. the depth down to bedrock equals the radial length around the shaft.

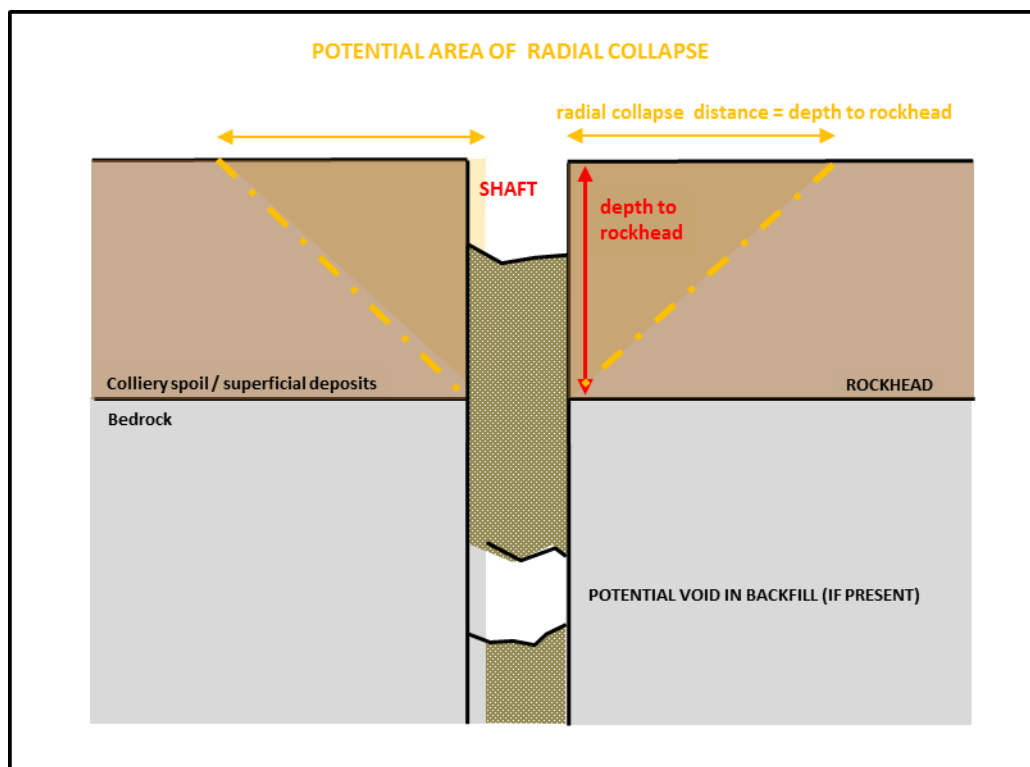


Figure 4.1: Mine Shaft Potential Area of Collapse

**Annex A
Historical Maps**

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

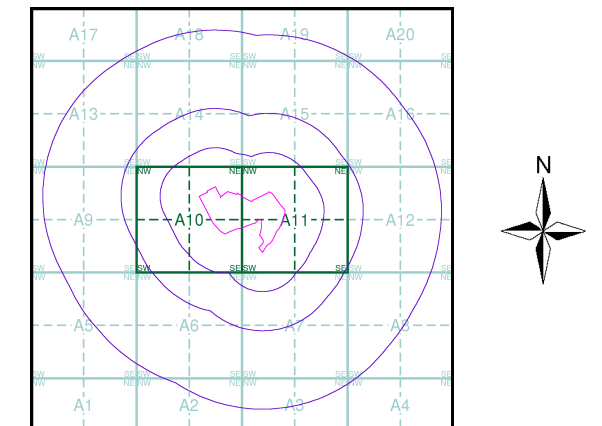
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1921	5
Glamorganshire	1:10,560	1935 - 1936	6
Glamorganshire	1:10,560	1938 - 1951	7
Historical Aerial Photography	1:10,560	1945 - 1949	8
Glamorganshire	1:10,560	1951 - 1952	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1968	11
Ordnance Survey Plan	1:10,000	1970 - 1973	12
Ordnance Survey Plan	1:10,000	1980 - 1989	13
Ordnance Survey Plan	1:10,000	1992	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2017	17

Historical Map - Slice A



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

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



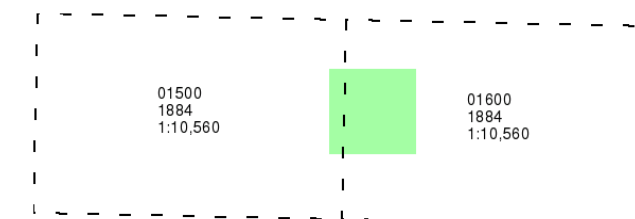
Glamorganshire

Published 1884

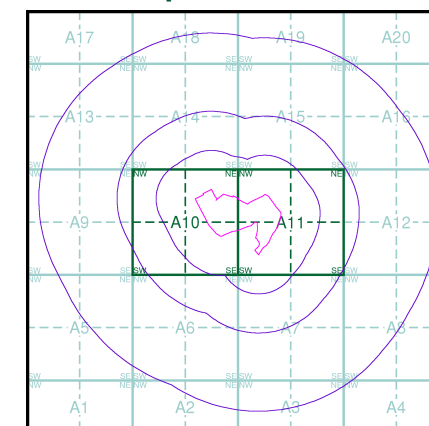
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Map Name(s) and Date(s)



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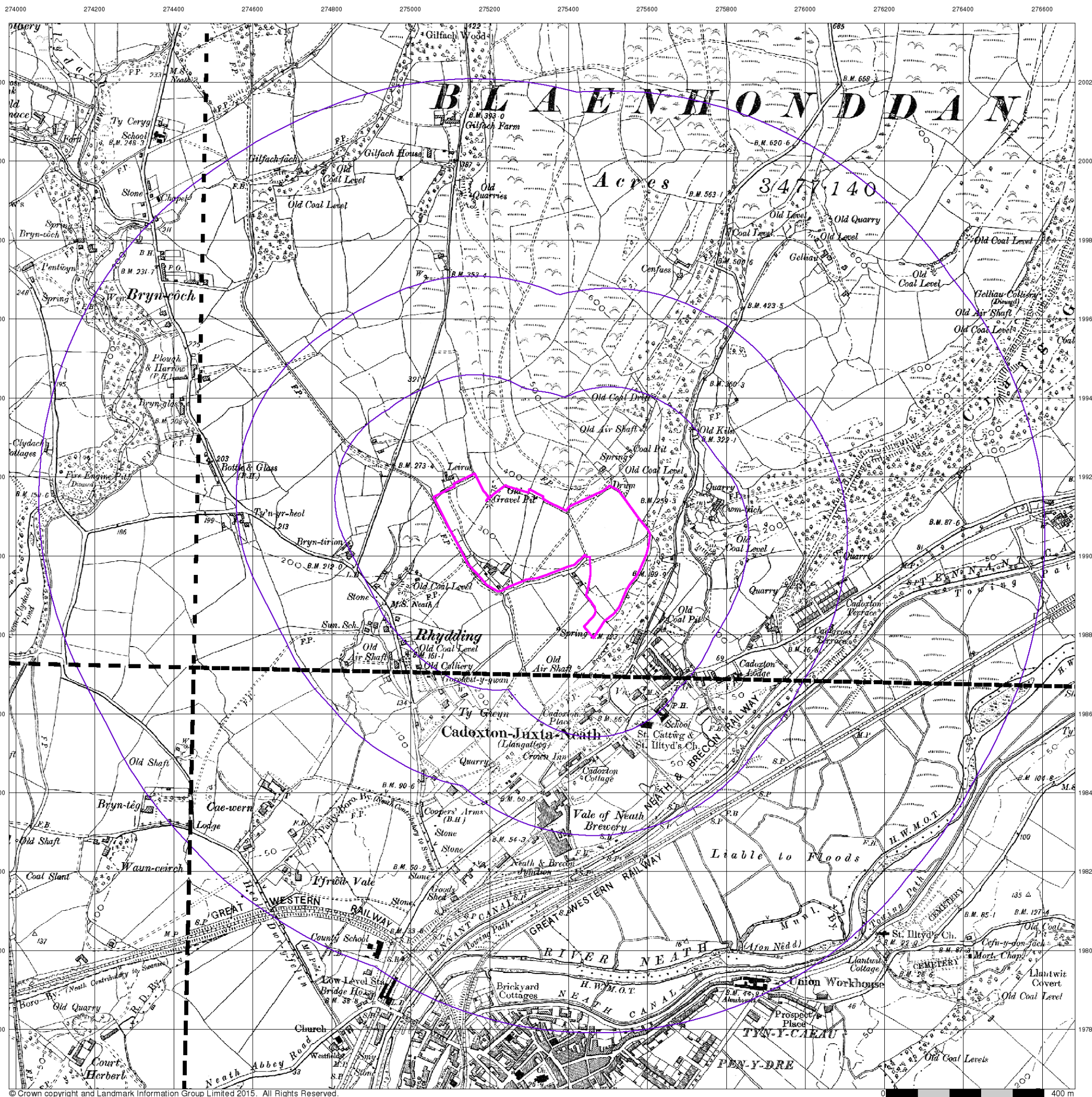
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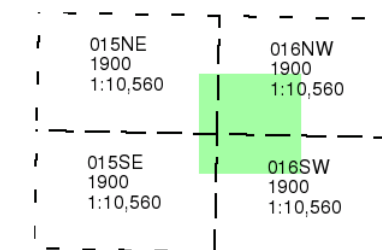
Glamorganshire

Published 1900

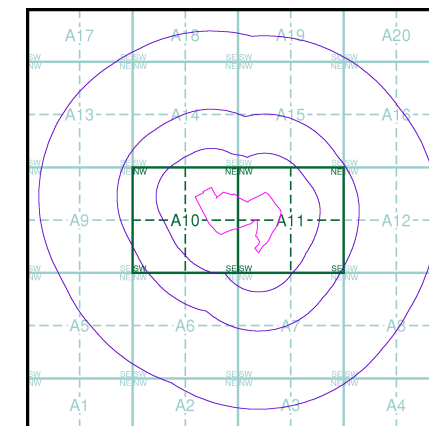
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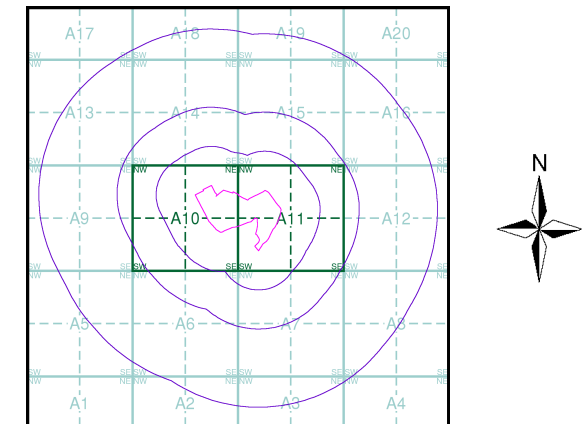
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Map Name(s) and Date(s)

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015SE 1921 1:10,560	016SW 1921 1:10,560

Historical Map - Slice A

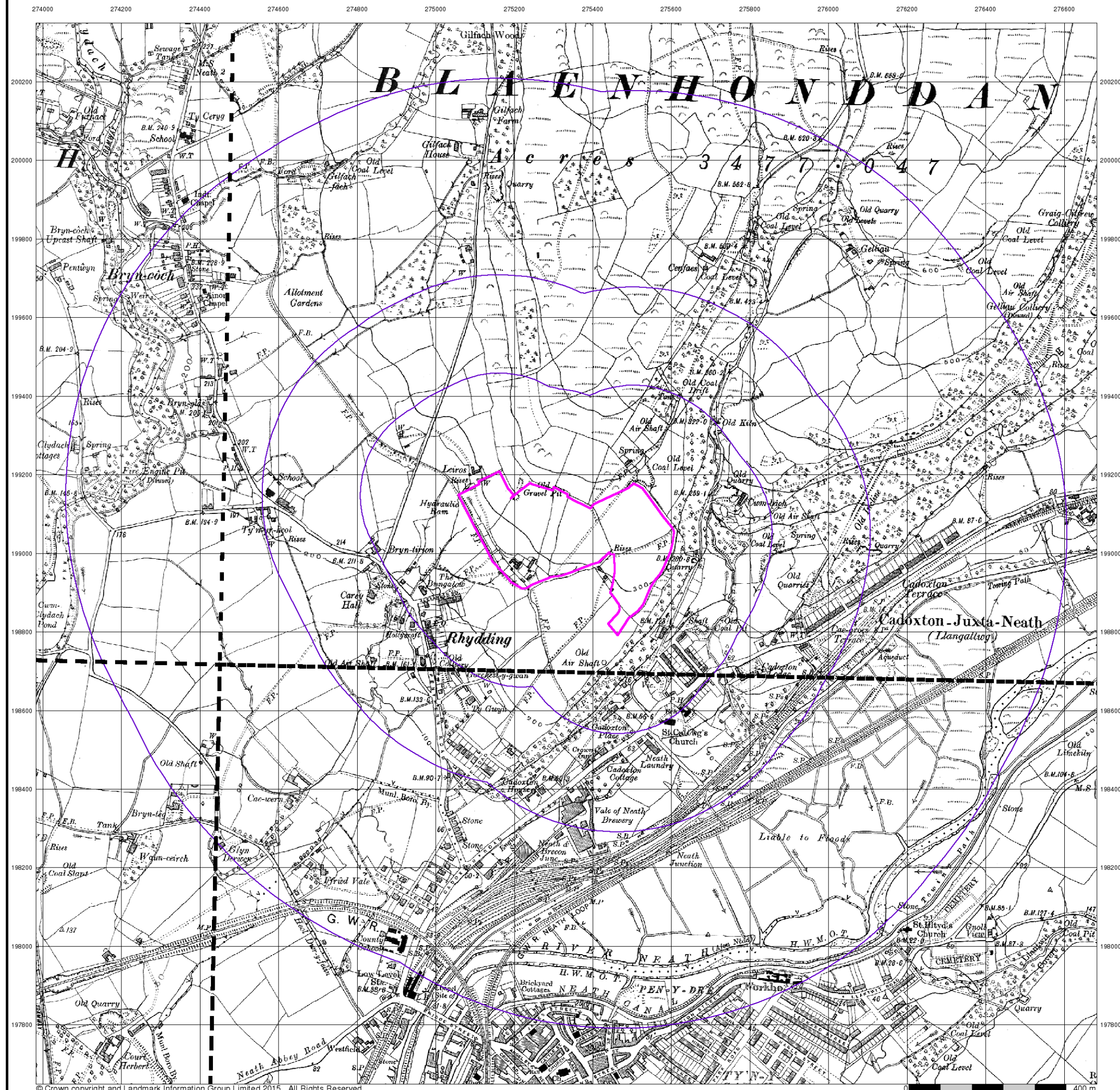


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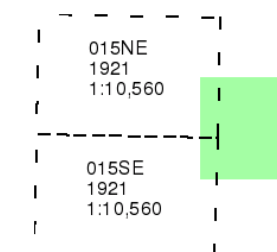
Glamorganshire

Published 1921

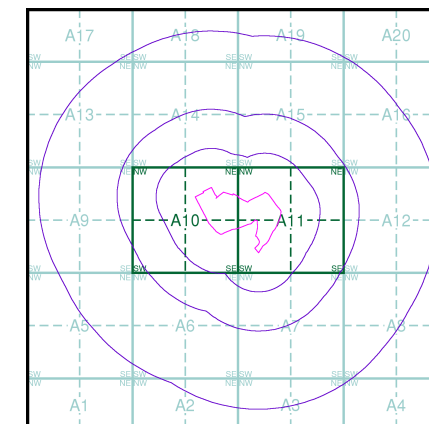
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A

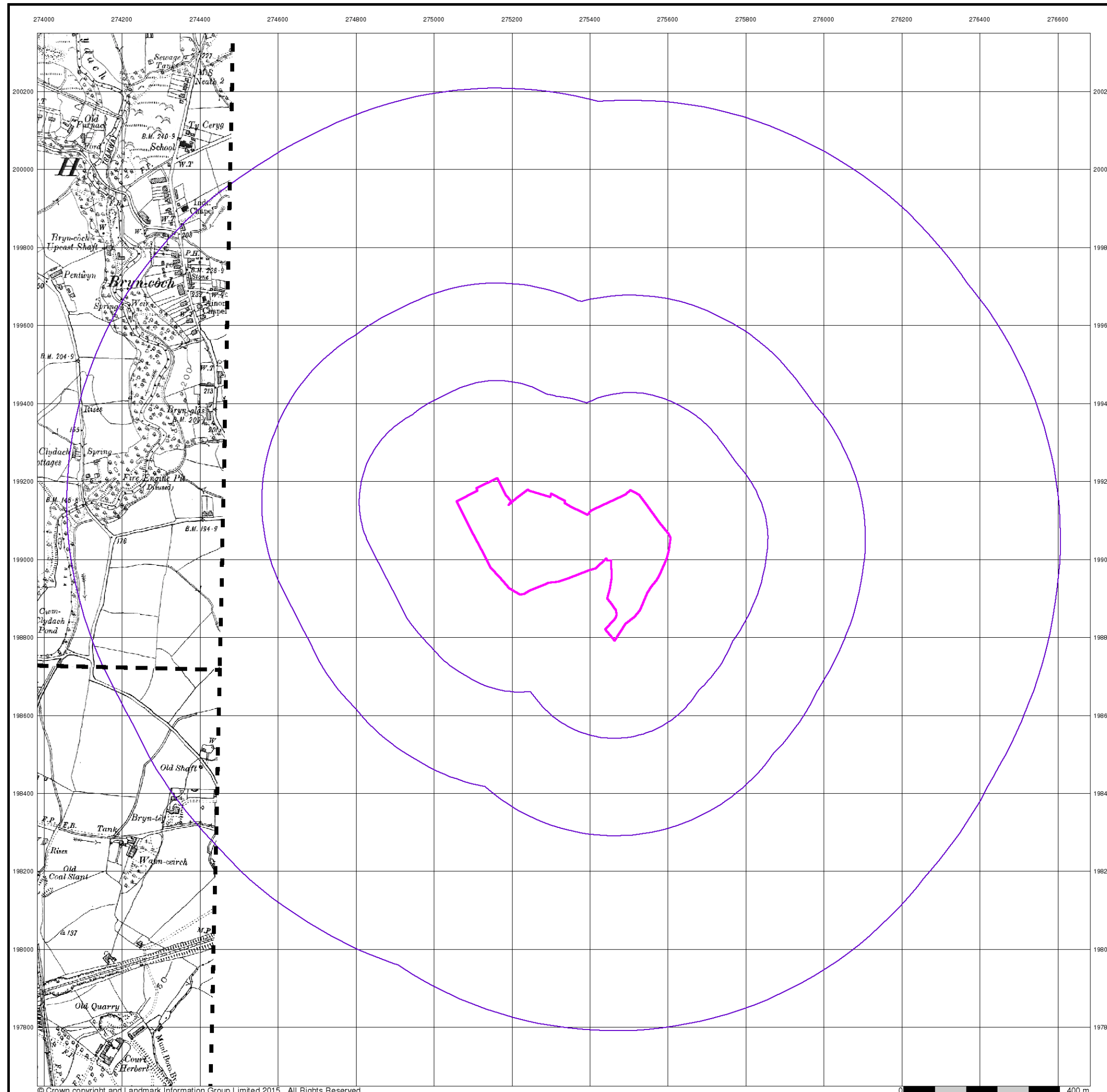


Order Details

Order Number: 118892601_1_1
 Customer Ref: 14156
 National Grid Reference: 275340, 199030
 Slice: A
 Site Area (Ha): 11.09
 Search Buffer (m): 1000

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

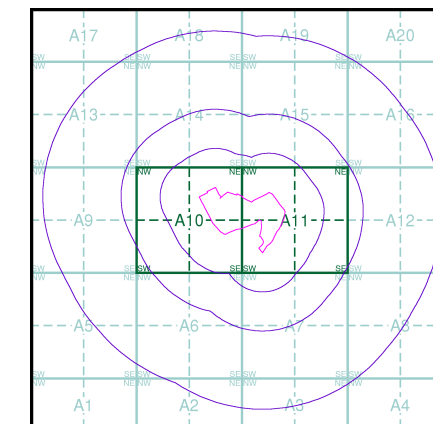


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

016NW	1935
1:10,560	
016SW	1936
1:10,560	

Historical Map - Slice A

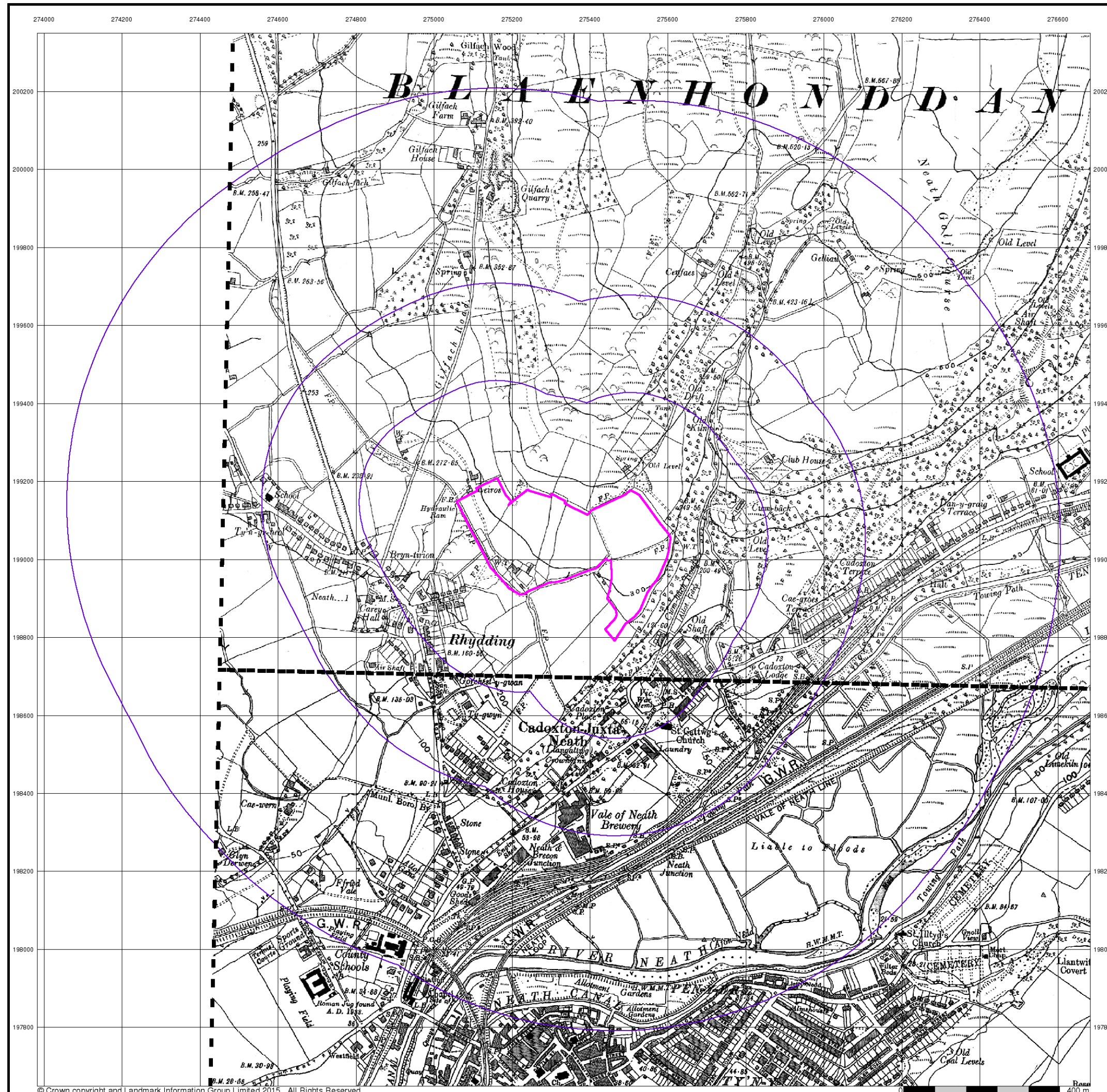


Order Details

Order Number: 118892601_1_1
 Customer Ref: 14156
 National Grid Reference: 275340, 199030
 Slice: A
 Site Area (Ha): 11.09
 Search Buffer (m): 1000

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

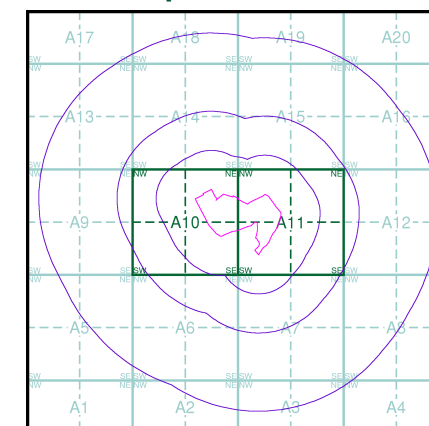


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

015NE 1938 1:10,560	016NW 1951 1:10,560
015SE 1940 1:10,560	016SW 1938 1:10,560

Historical Map - Slice A

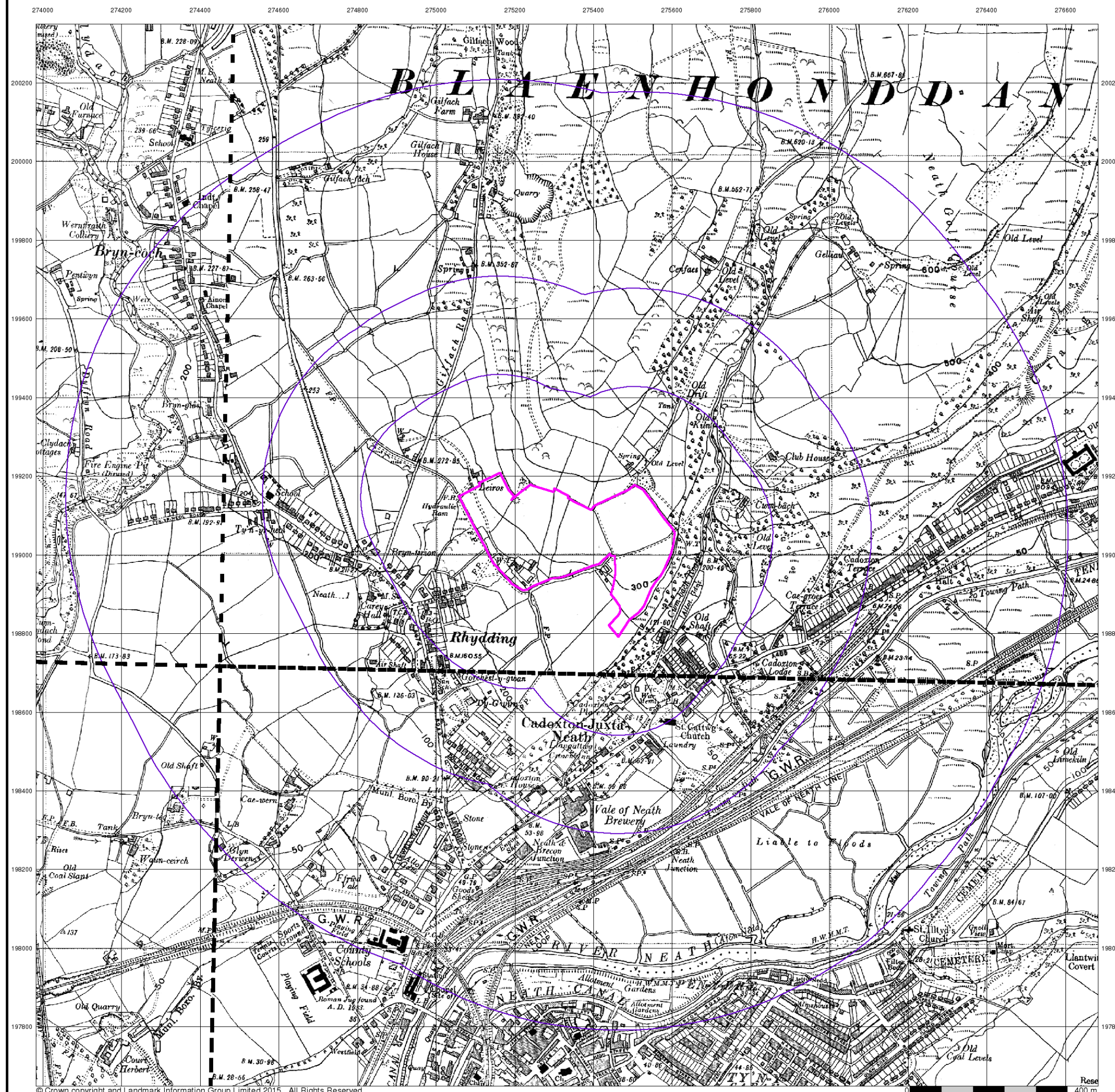


Order Details

Order Number: 118892601_1_1
 Customer Ref: 14156
 National Grid Reference: 275340, 199030
 Slice: A
 Site Area (Ha): 11.09
 Search Buffer (m): 1000

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX





Historical Aerial Photography

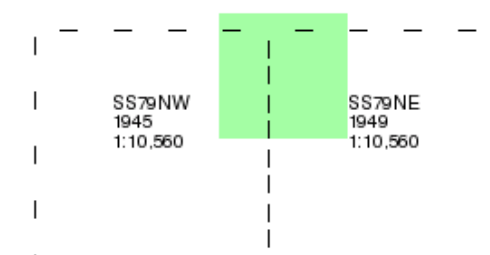
Published 1945 - 1949

Source map scale - 1:10,560

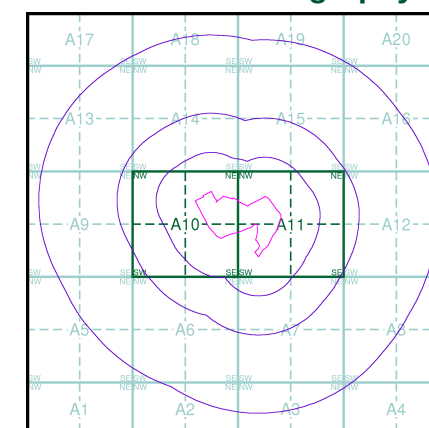
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

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Landmark
INFORMATION GROUP

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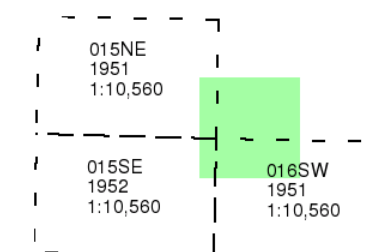
Glamorganshire

Published 1951 - 1952

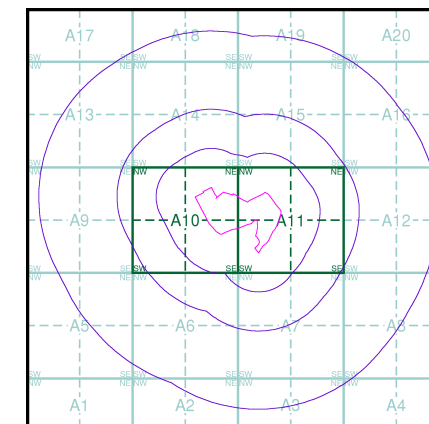
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

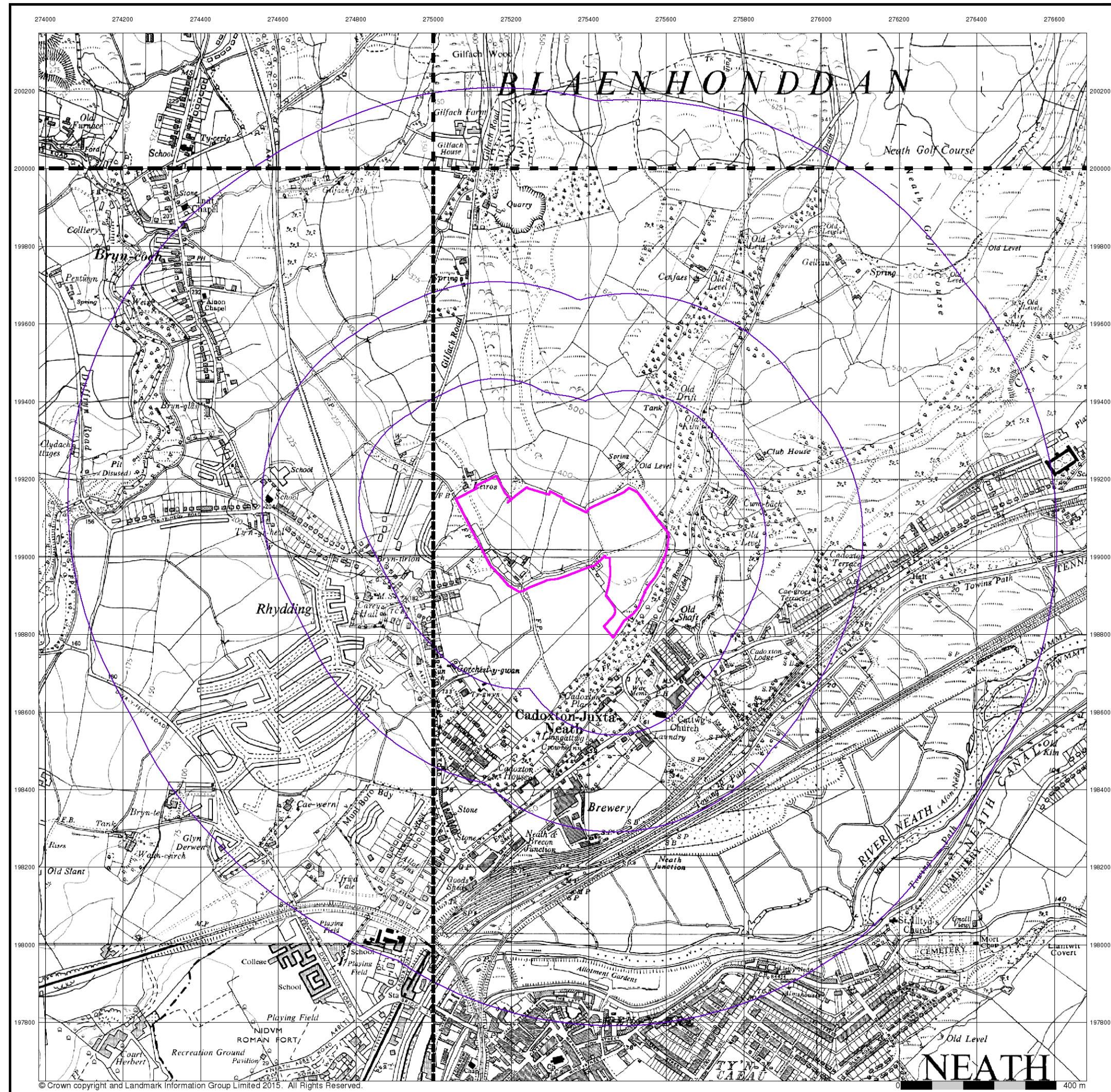
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

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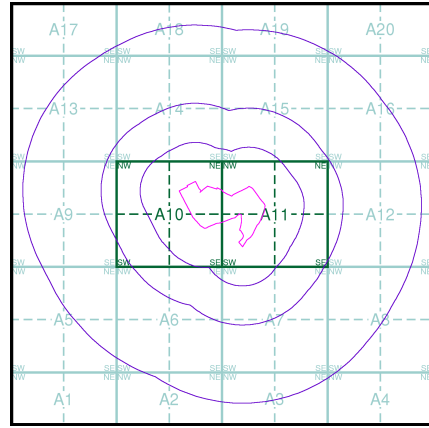
Ordnance Survey Plan
Published 1964 - 1965
Source map scale - 1:10,000

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)

SN70SW	SN70SE
1964	1964
1:10,560	1:10,560
SS79NW	SS79NE
1965	1964
1:10,560	1:10,560

Historical Map - Slice A



Order Details
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details
Leiros Park, Bryn-coch, Neath, SA10 7EX



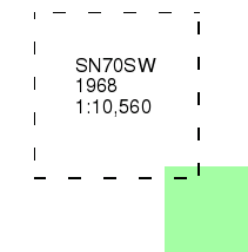
Ordnance Survey Plan

Published 1968

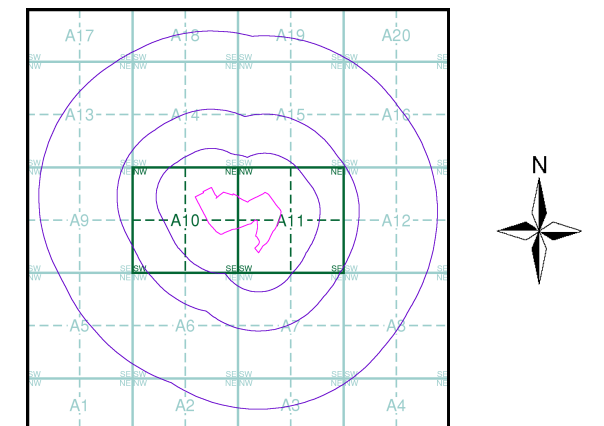
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

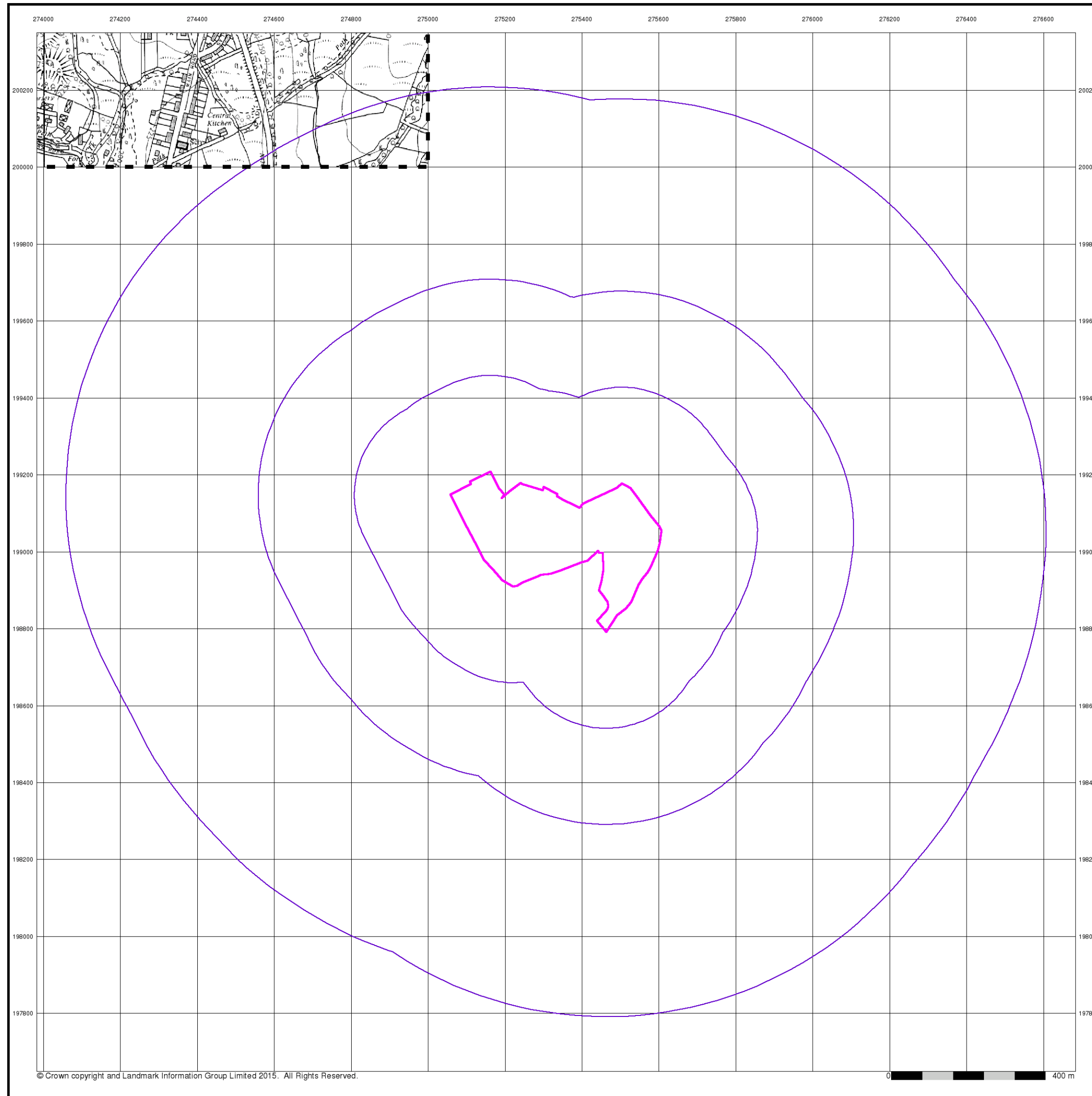
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

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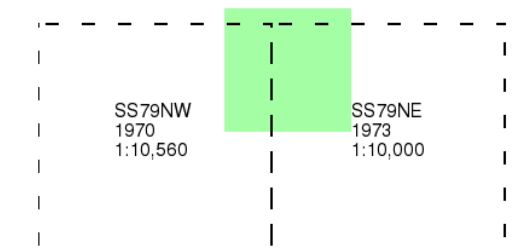
Ordnance Survey Plan

Published 1970 - 1973

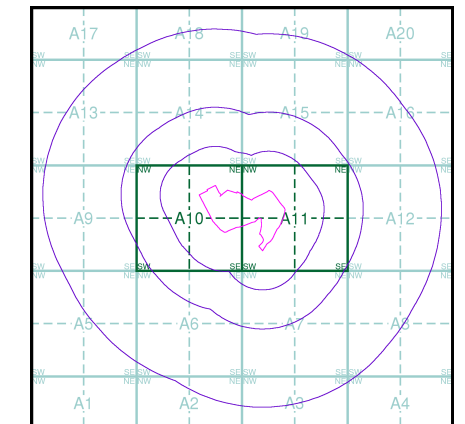
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

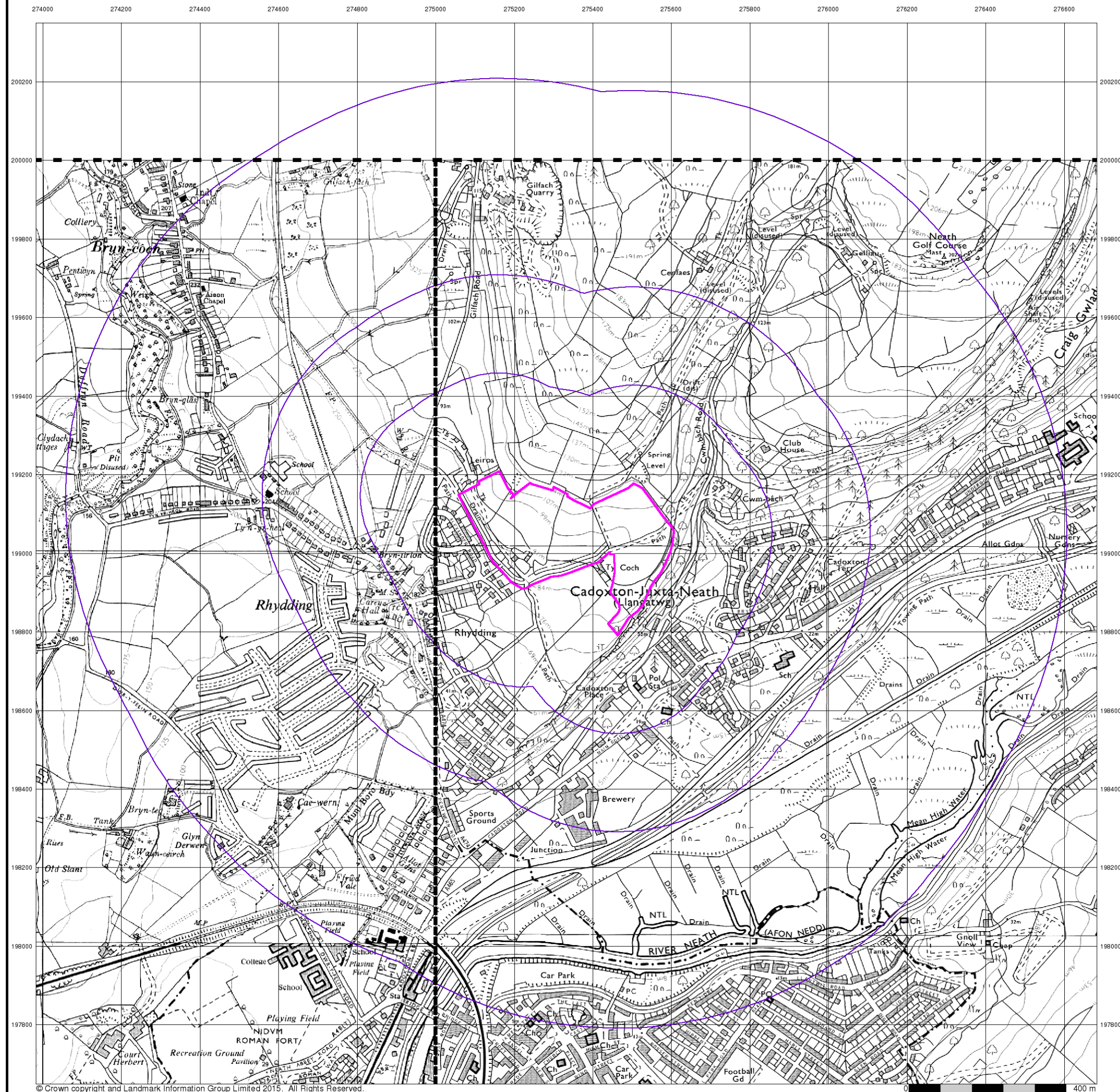


Order Details

Order Number: 118892601_1_1
 Customer Ref: 14156
 National Grid Reference: 275340, 199030
 Slice: A
 Site Area (Ha): 11.09
 Search Buffer (m): 1000

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX





Ordnance Survey Plan

Published 1980 - 1989

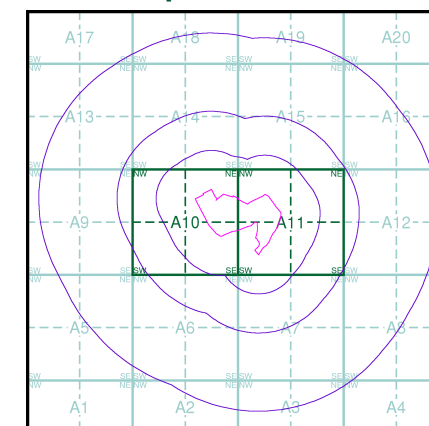
Source map scale - 1:10,000

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)

SN70SW	SN70SE
1982	1989
1:10,000	1:10,000
SS79NW	SS79NE
1980	1983
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1992

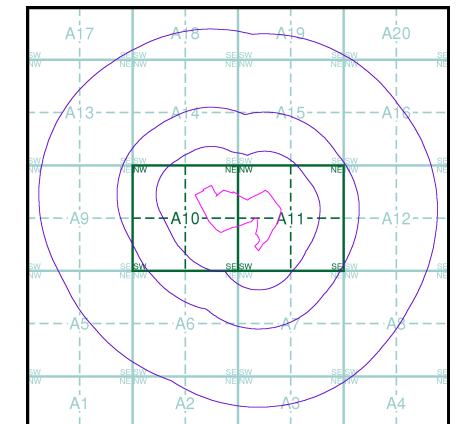
Source map scale - 1:10,000

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)

SN70SW	1992	1:10,000
SS79NW	1992	1:10,000
SS79NE	1992	1:10,000

Historical Map - Slice A



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 1999

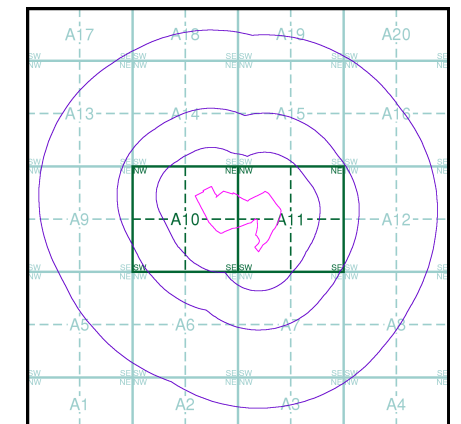
Source map scale - 1:10,000

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)

SN70SW	SN70SE
1999	1999
1:10,000	1:10,000
SS79NW	SS79NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

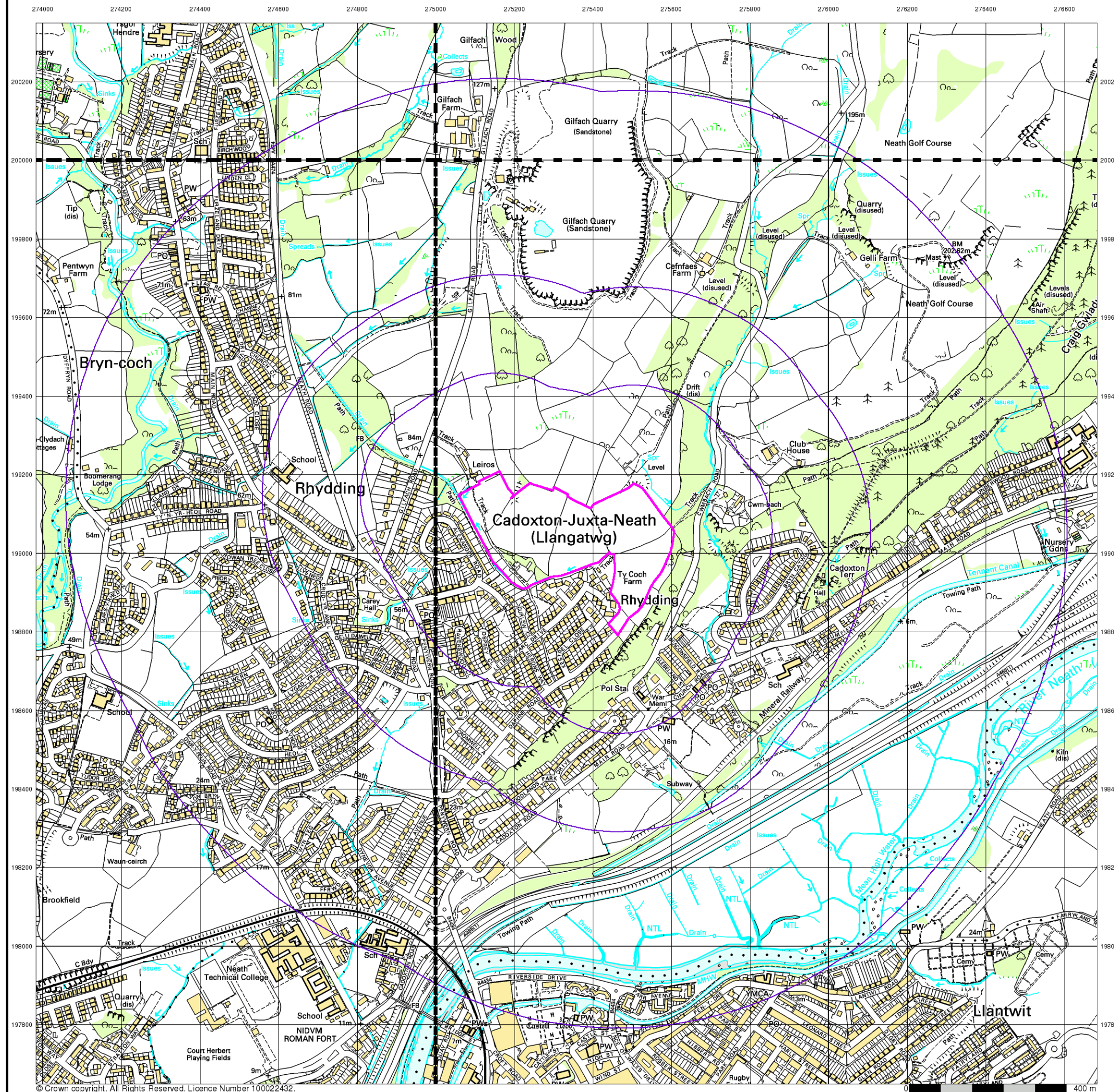
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

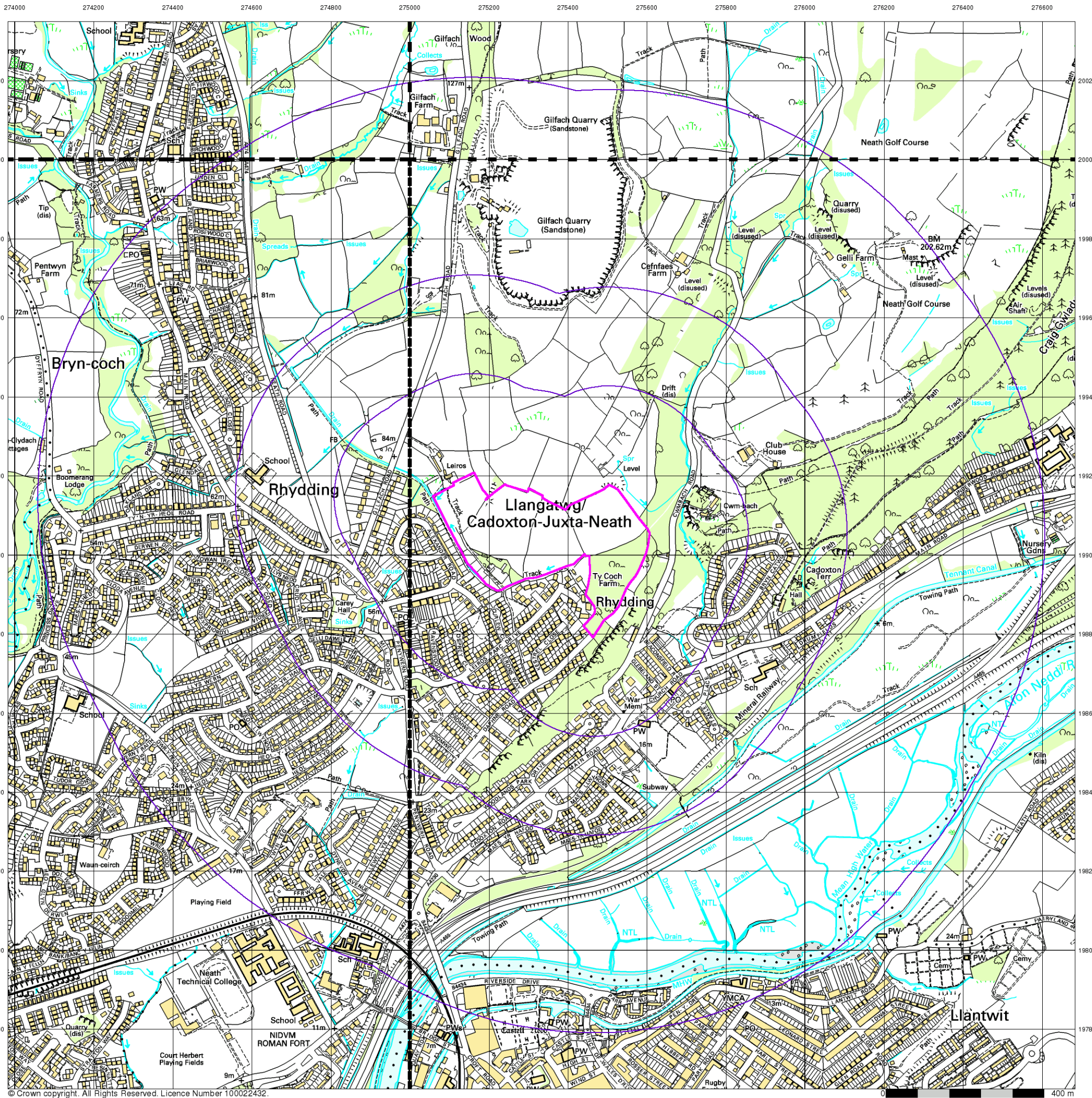
Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

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10k Raster Mapping

Published 2006

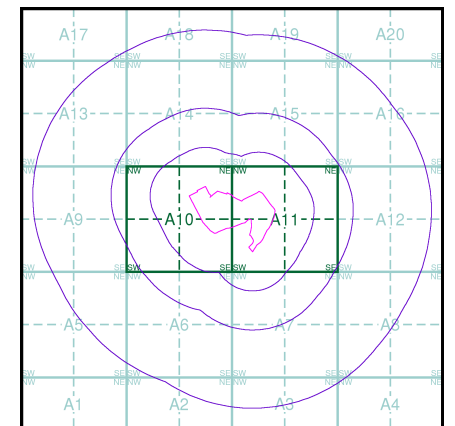
Source map scale - 1:10,000

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)

SN70SW	SN70SE
2006	2006
1:10,000	1:10,000
SS79NW	SS79NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

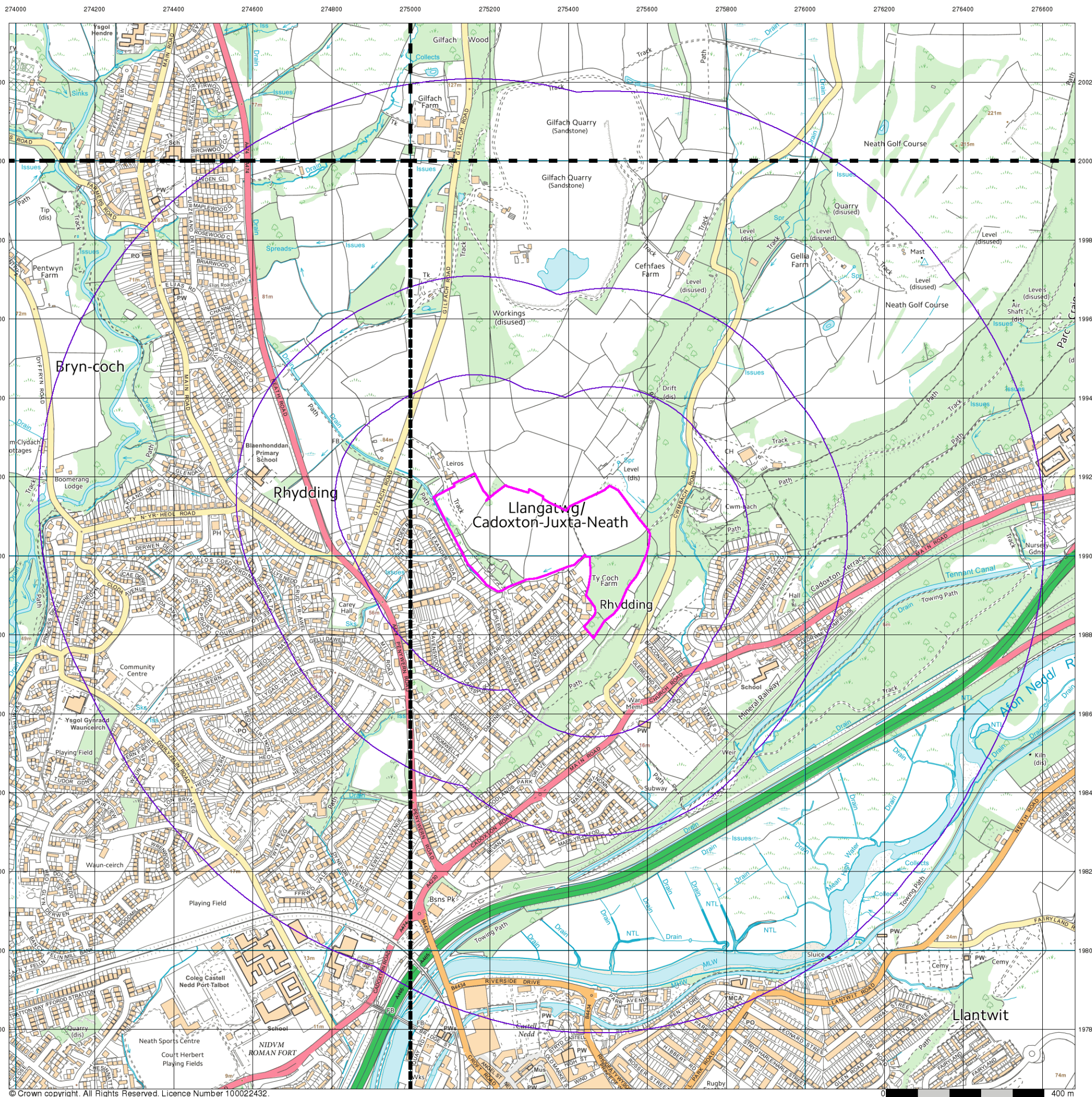
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

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VectorMap Local

Published 2017

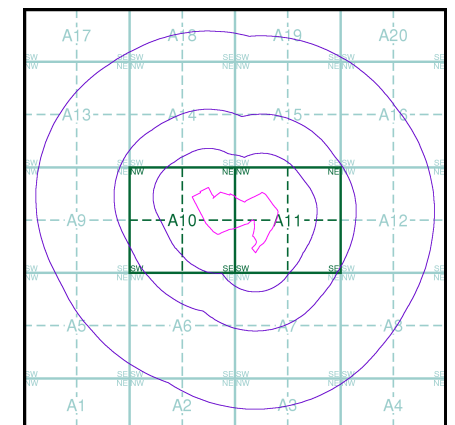
Source map scale - 1:10,000

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)

SN70SW 2017 Variable	SN70SE 2017 Variable
SS79NW 2017 Variable	SS79NE 2017 Variable

Historical Map - Slice A



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 1000

Site Details

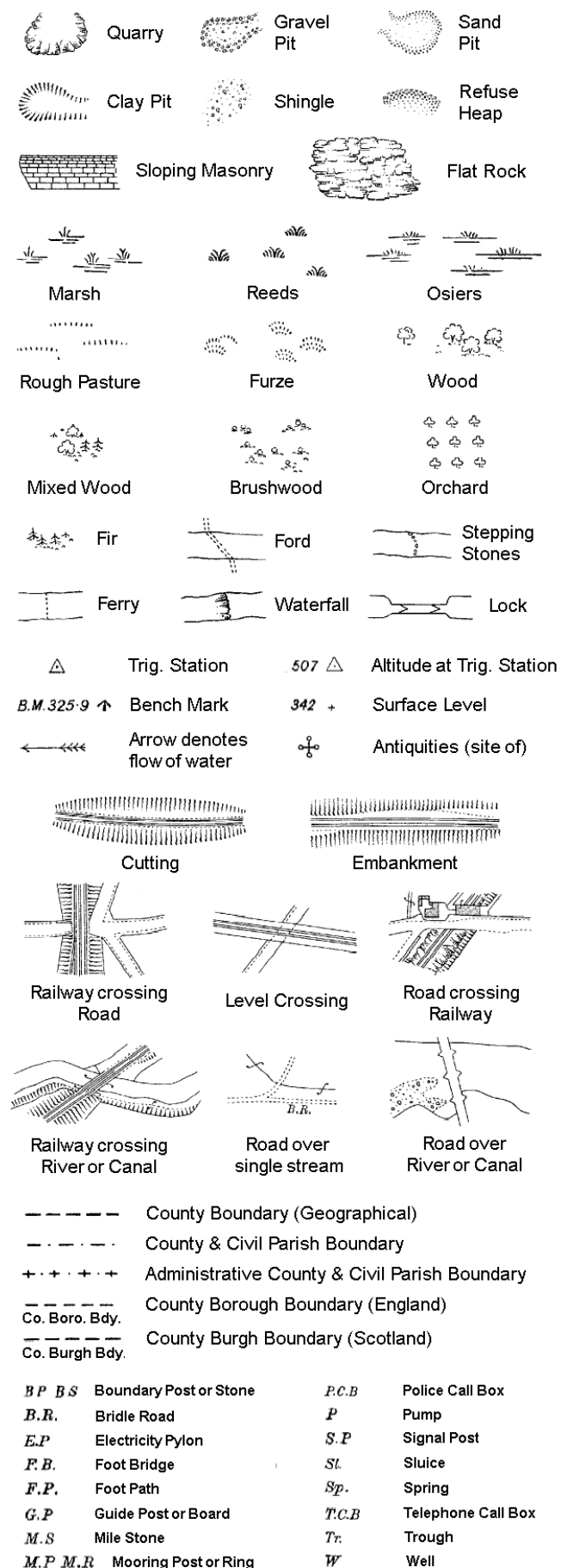
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Fax: 0844 844 9951
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Historical Mapping Legends

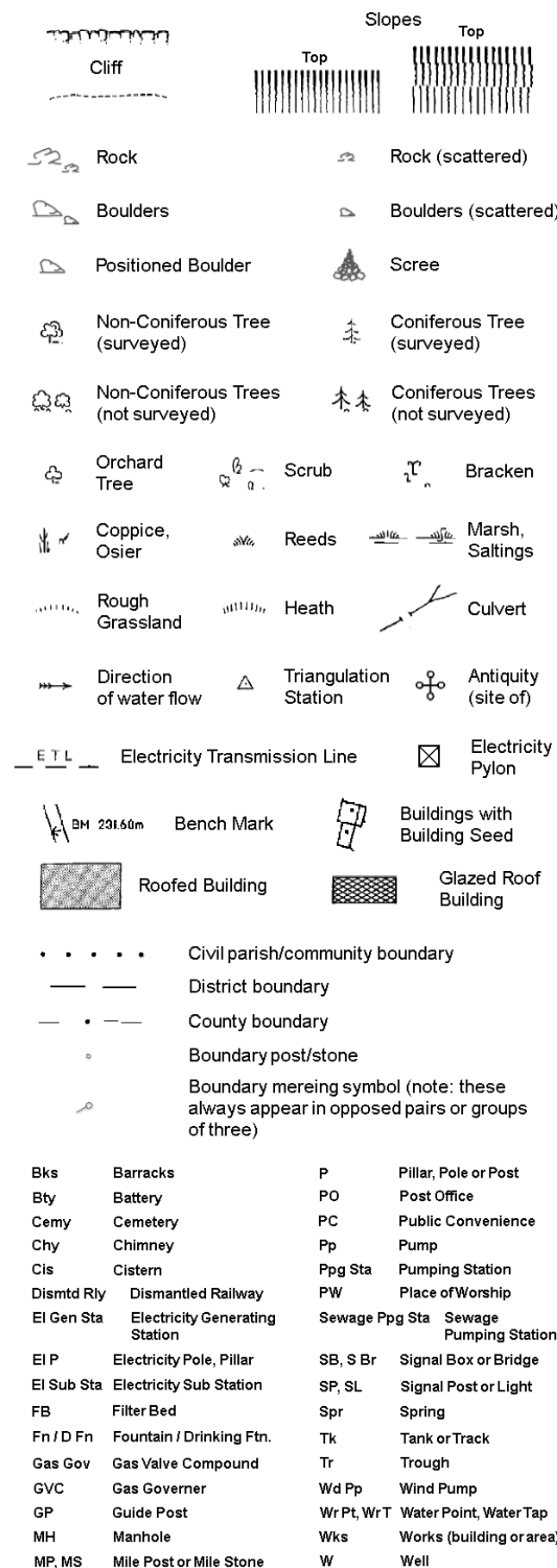
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



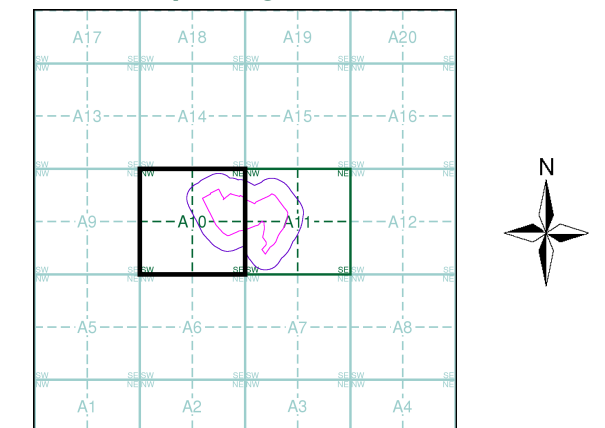
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1877 - 1881	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1918 - 1919	4
Glamorganshire	1:2,500	1935	5
Ordnance Survey Plan	1:2,500	1965 - 1968	6
Ordnance Survey Plan	1:1,250	1967 - 1972	7
Additional SIMs	1:1,250	1967 - 1989	8
Additional SIMs	1:2,500	1979	9
Ordnance Survey Plan	1:1,250	1989	10
Additional SIMs	1:1,250	1989	11
Large-Scale National Grid Data	1:2,500	1993	12
Large-Scale National Grid Data	1:1,250	1993	13
Large-Scale National Grid Data	1:1,250	1994	14
Large-Scale National Grid Data	1:1,250	1996	15
Historical Aerial Photography	1:2,500	2000	16

Historical Map - Segment A10



Order Details

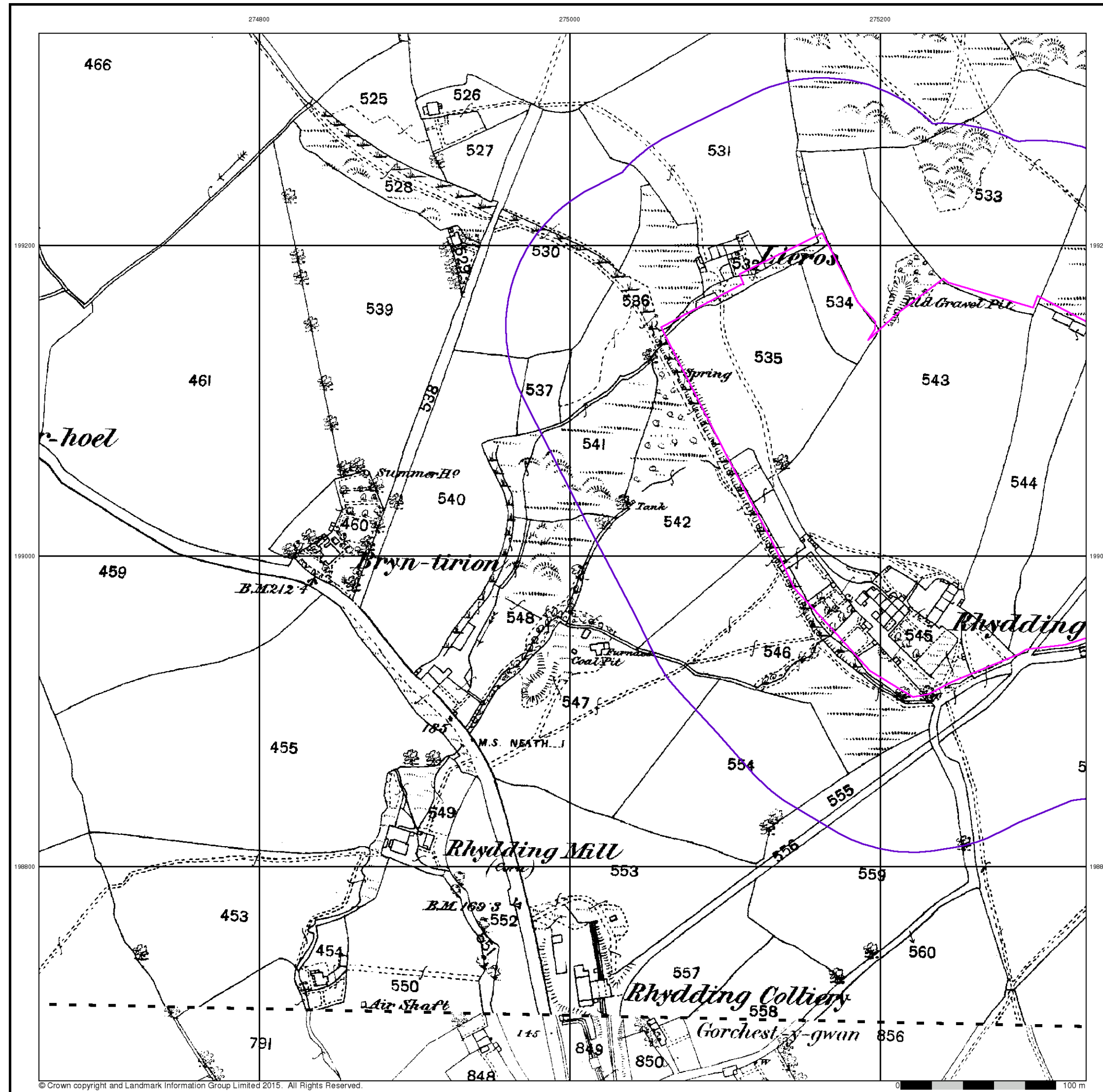
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



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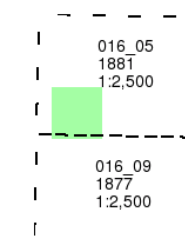
Glamorganshire

Published 1877 - 1881

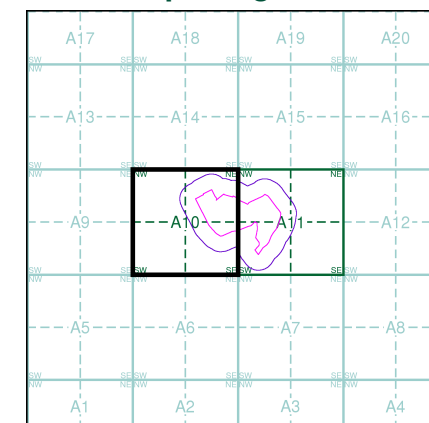
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

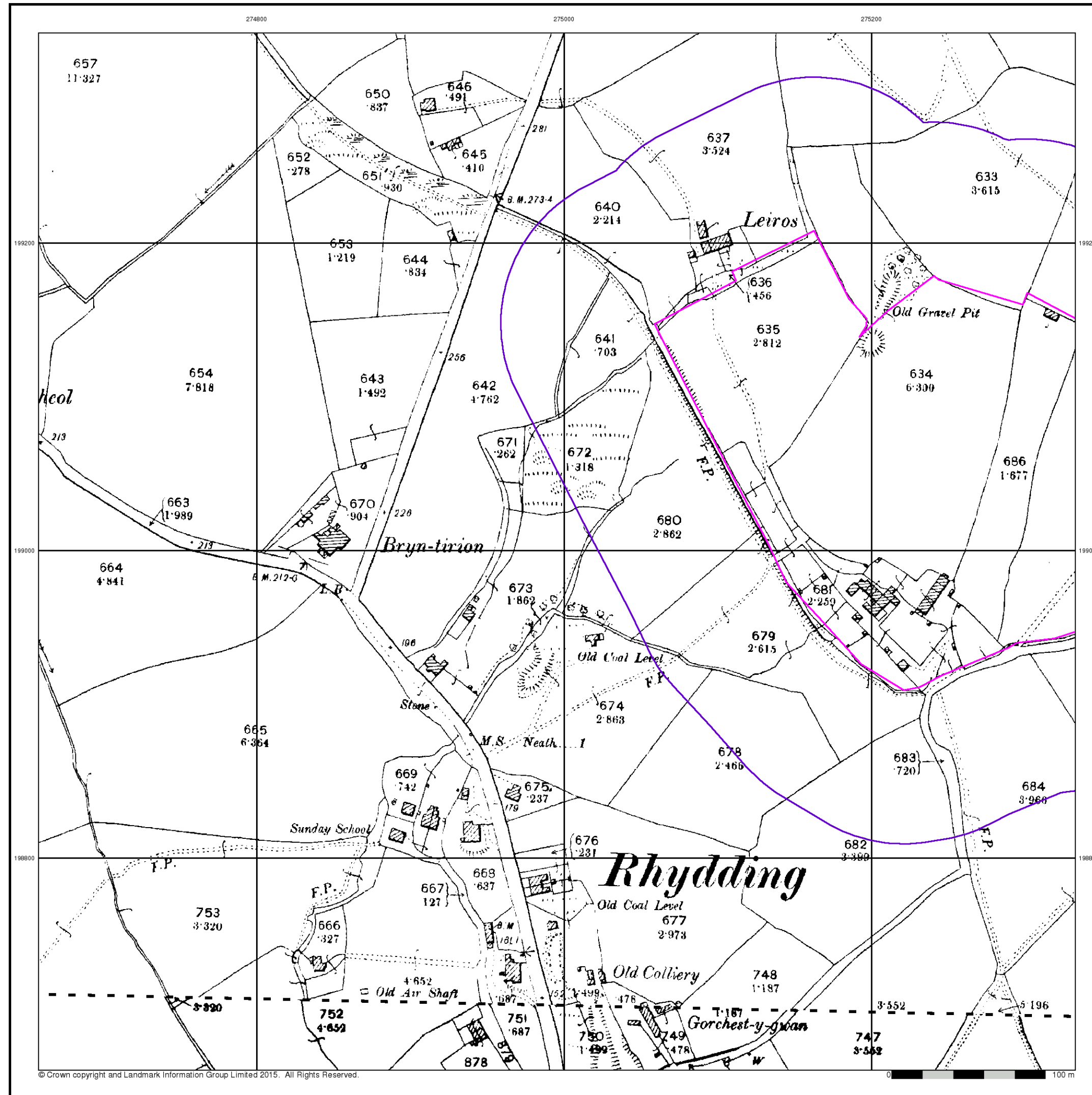
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



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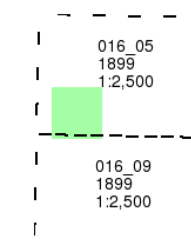
Glamorganshire

Published 1899

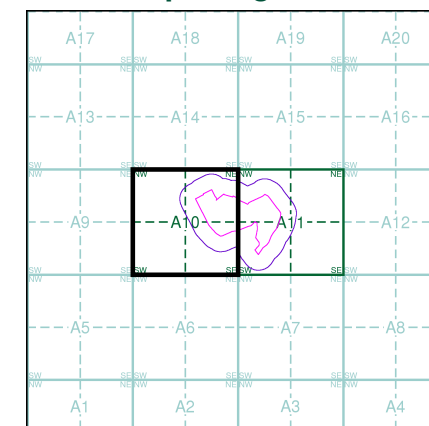
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

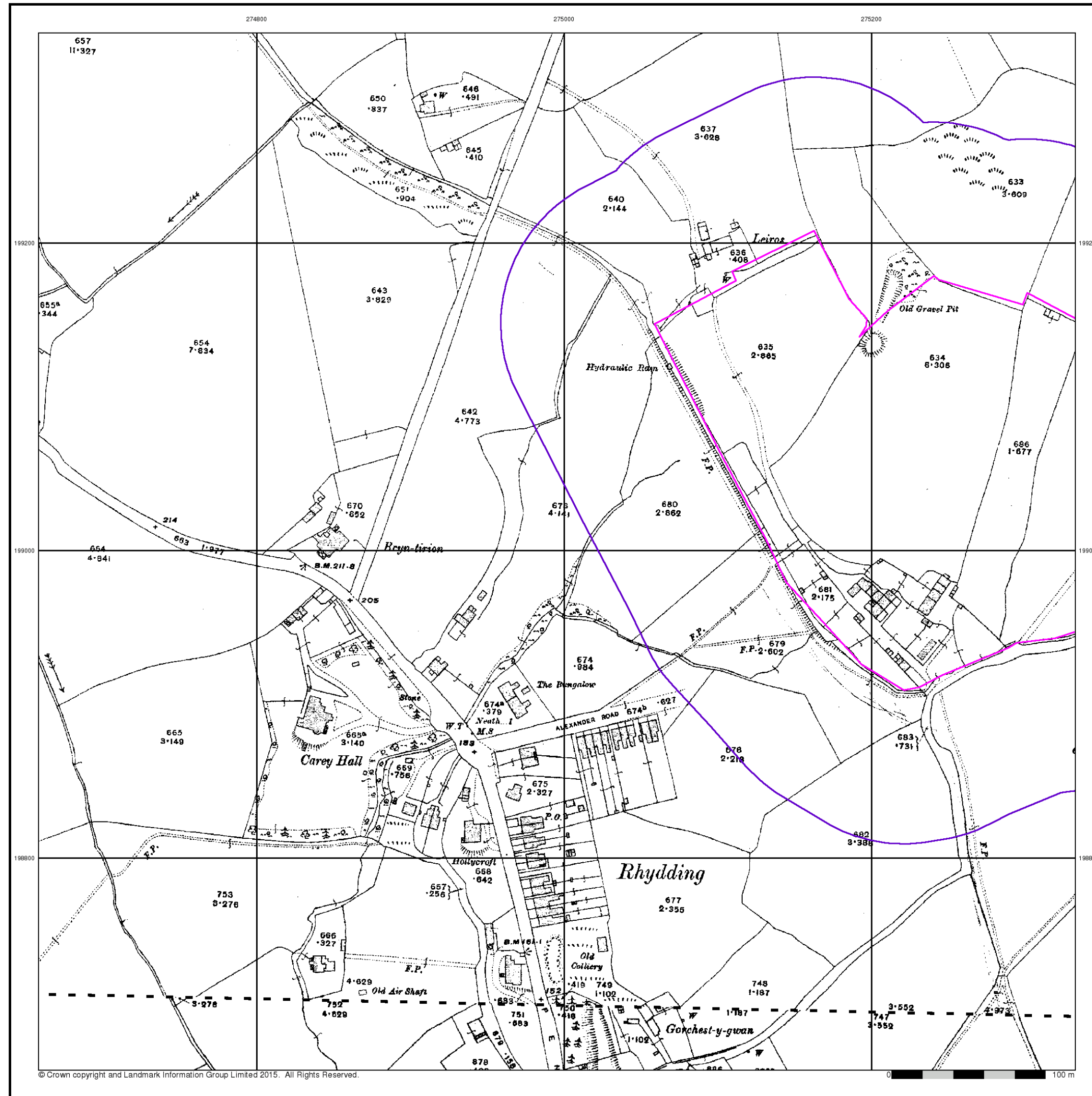
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

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



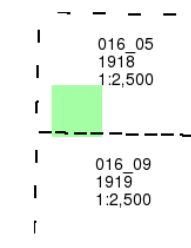
Glamorganshire

Published 1918 - 1919

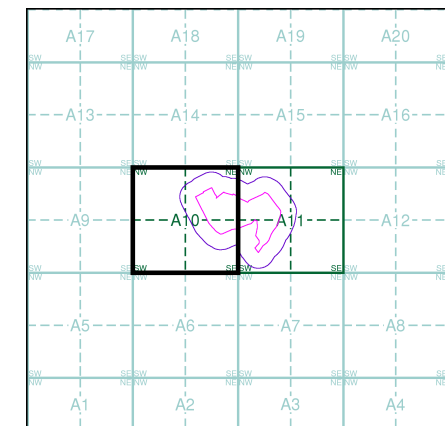
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
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Site Details

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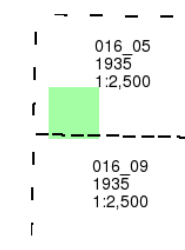
Glamorganshire

Published 1935

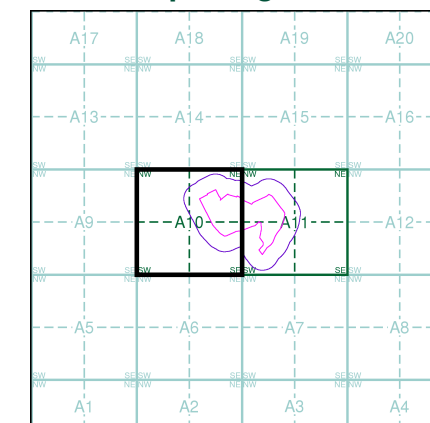
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

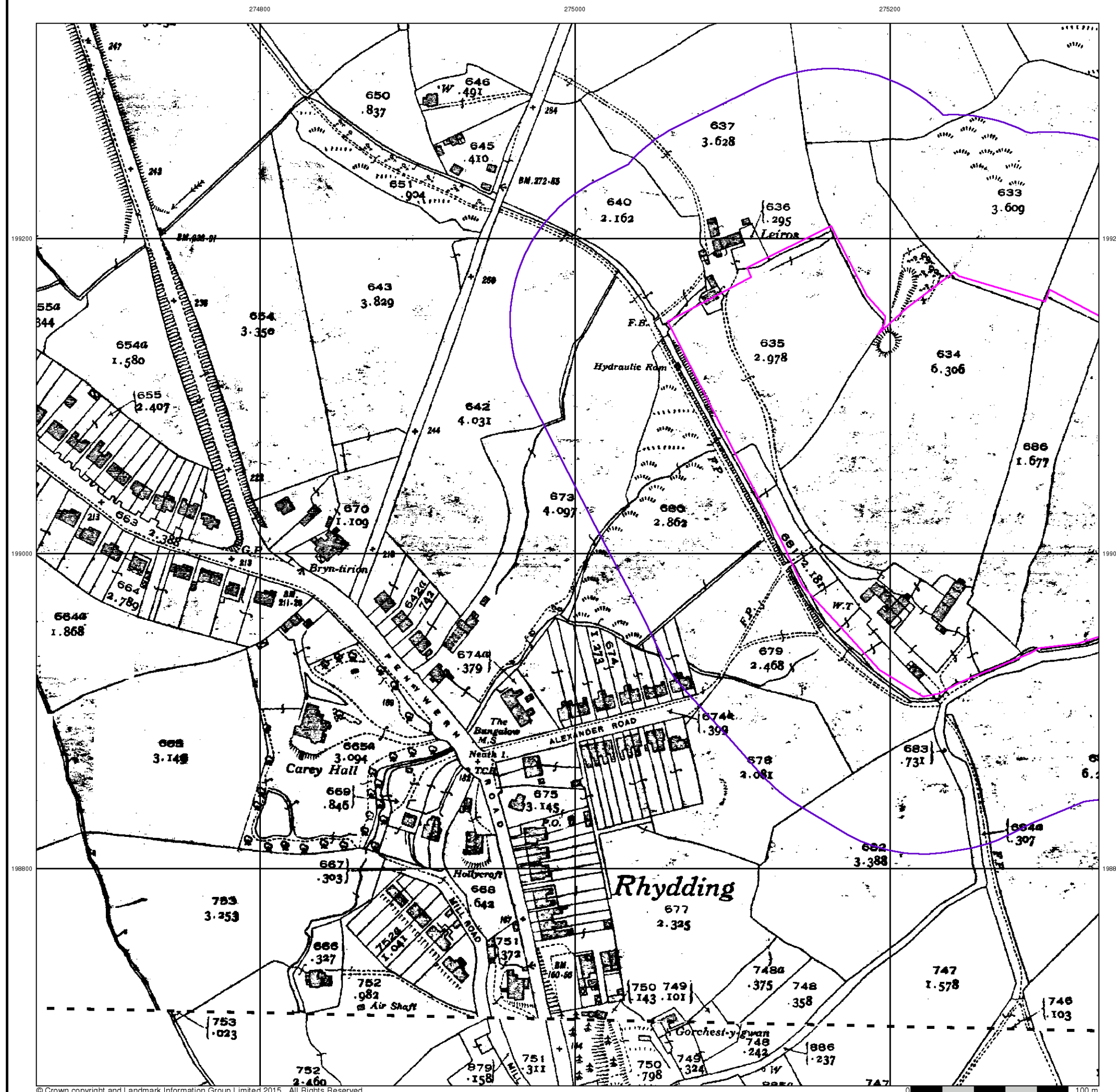
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1965 - 1968

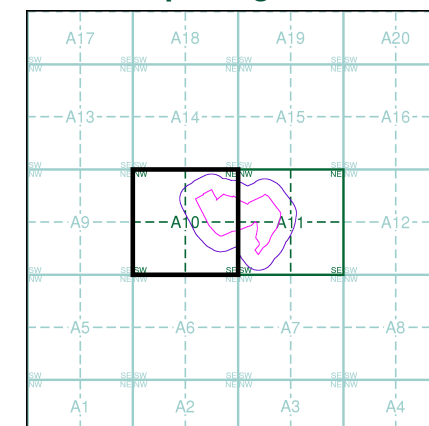
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SS7499 1965 12,500	SS7599 1965 12,500
SS7498 1968 12,500	SS7598 1968 12,500

Historical Map - Segment A10



Order Details

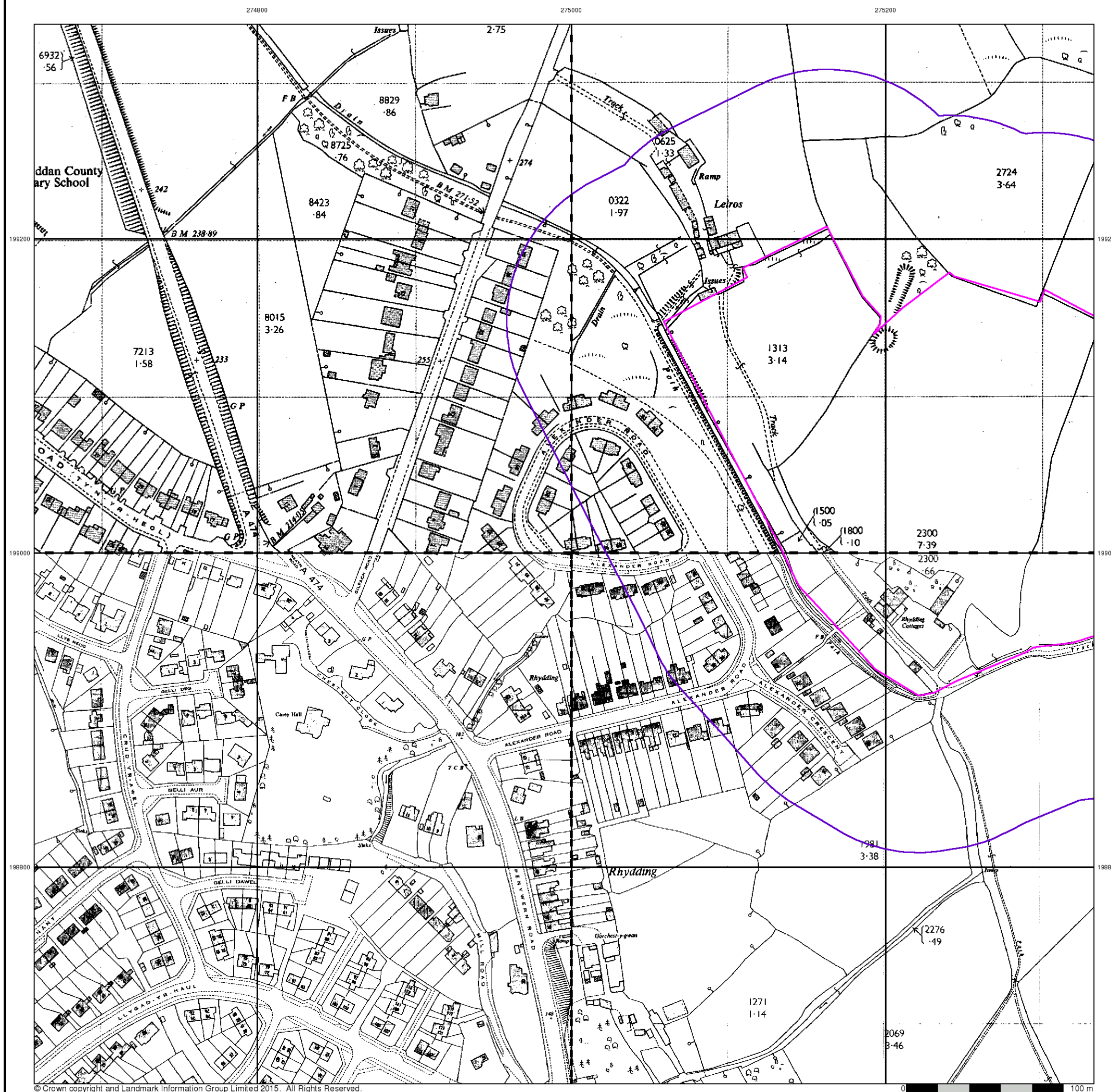
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1967 - 1972

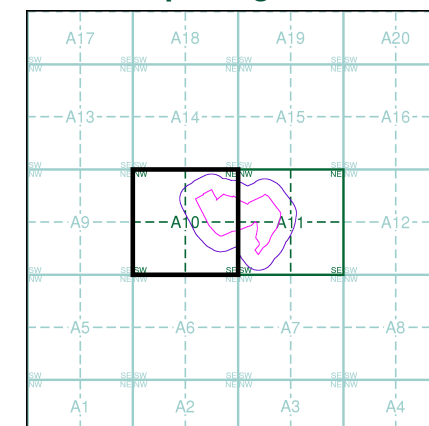
Source map scale - 1:1,250

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)

SS7499SE	1972	1:1,250
SS7498NE	1967	1:1,250
SS7598NW	1967	1:1,250

Historical Map - Segment A10



Order Details

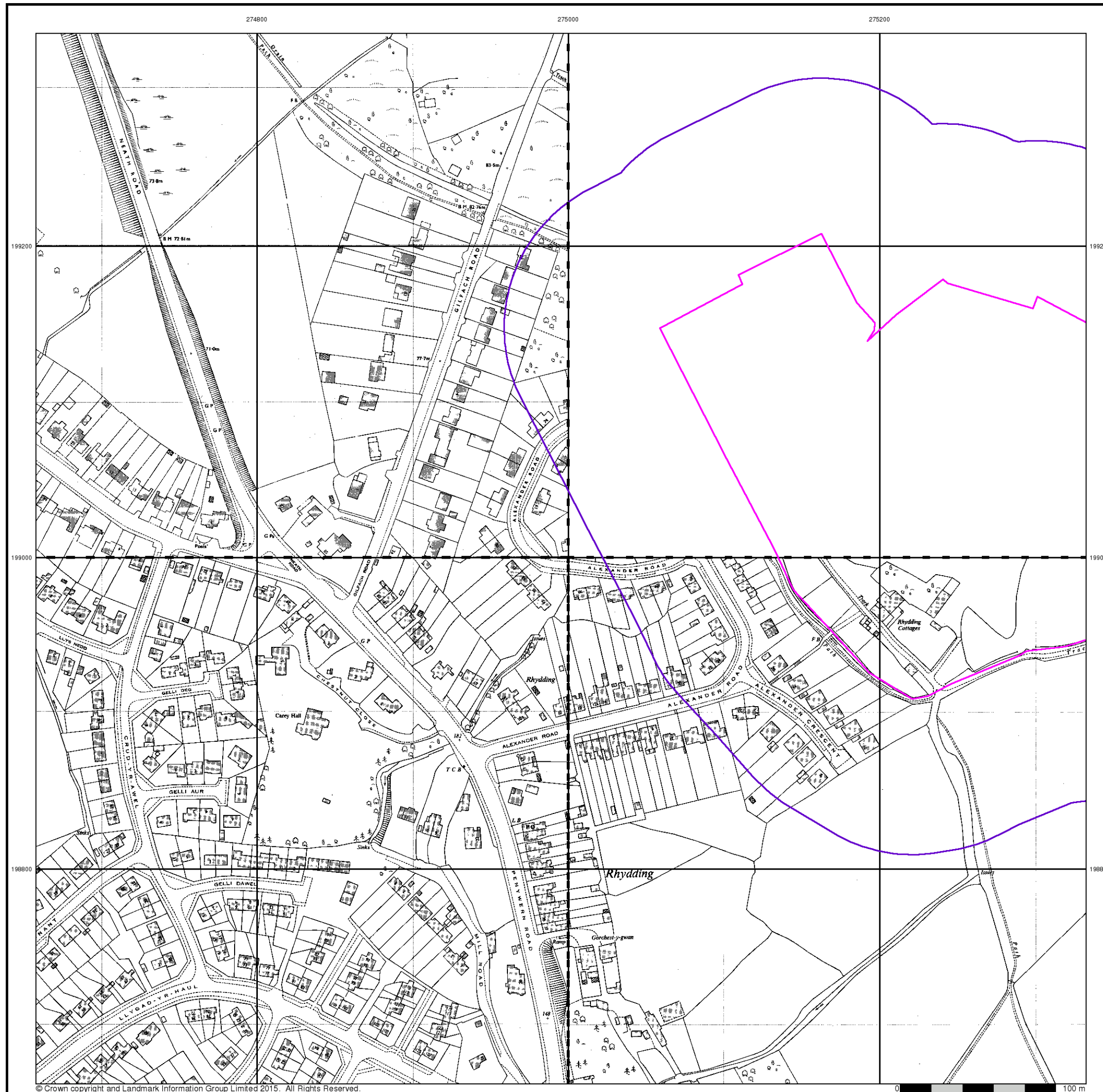
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

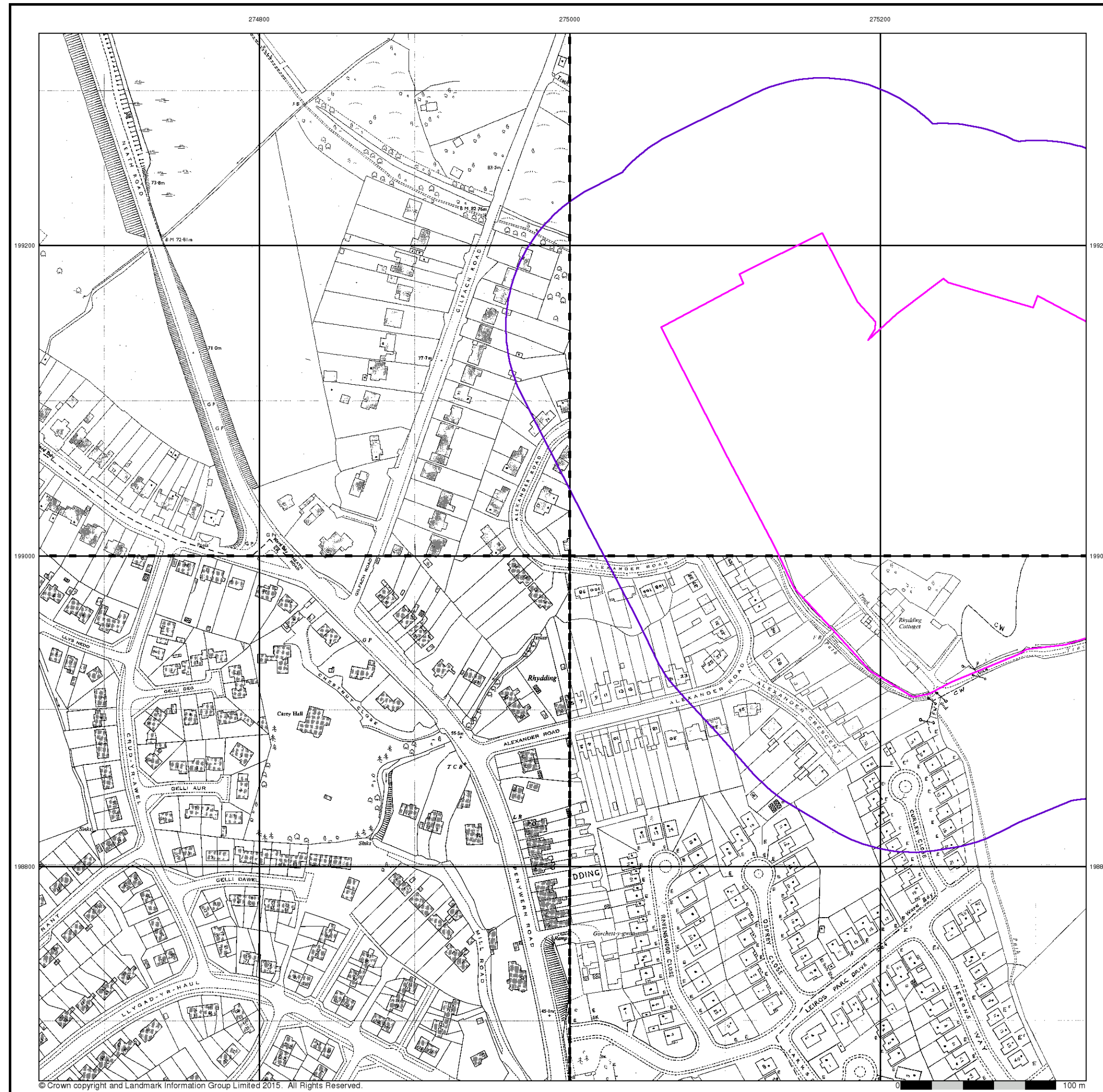
Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

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Additional SIMs

Published 1967 - 1989

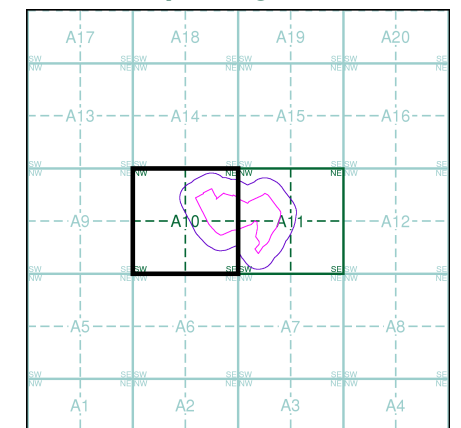
Source map scale - 1:1,250

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)

SS7499SE	1989	1:1,250
SS7498NE	1967	1:1,250
SS7598NW	1978	1:1,250

Historical Map - Segment A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



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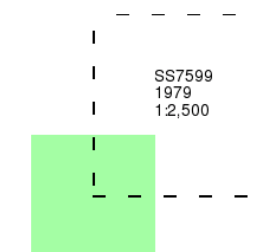
Additional SIMs

Published 1979

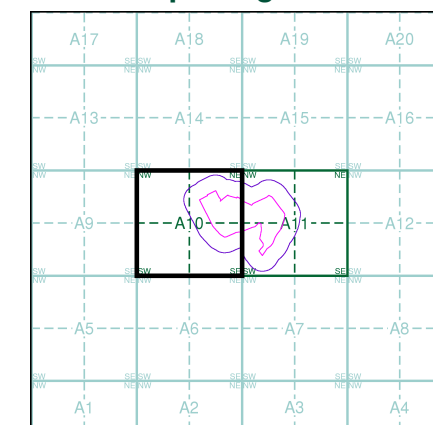
Source map scale - 1:2,500

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 A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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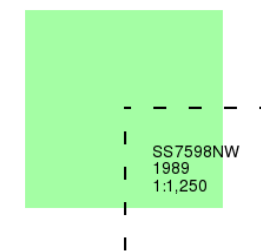
Ordnance Survey Plan

Published 1989

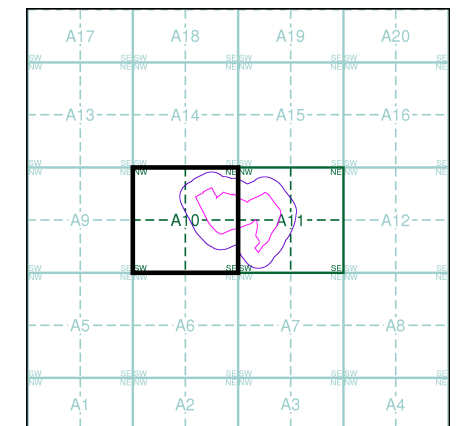
Source map scale - 1:1,250

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 A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

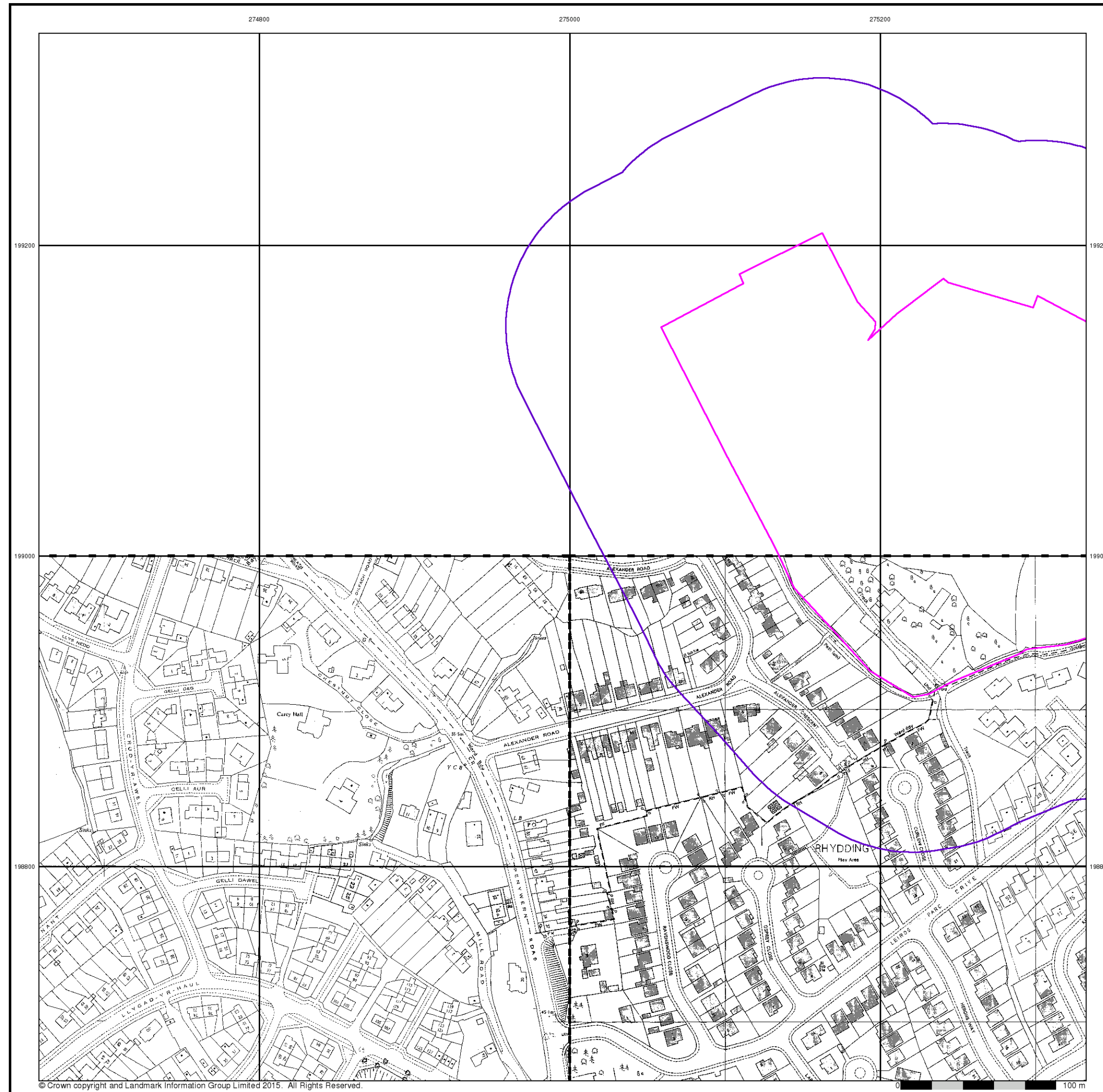
Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



Tel: 0844 844 9952
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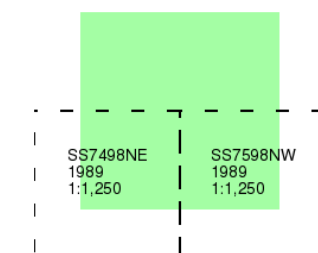
Additional SIMs

Published 1989

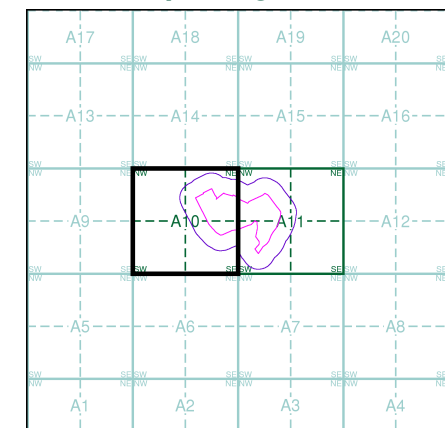
Source map scale - 1:1,250

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 A10



Order Details

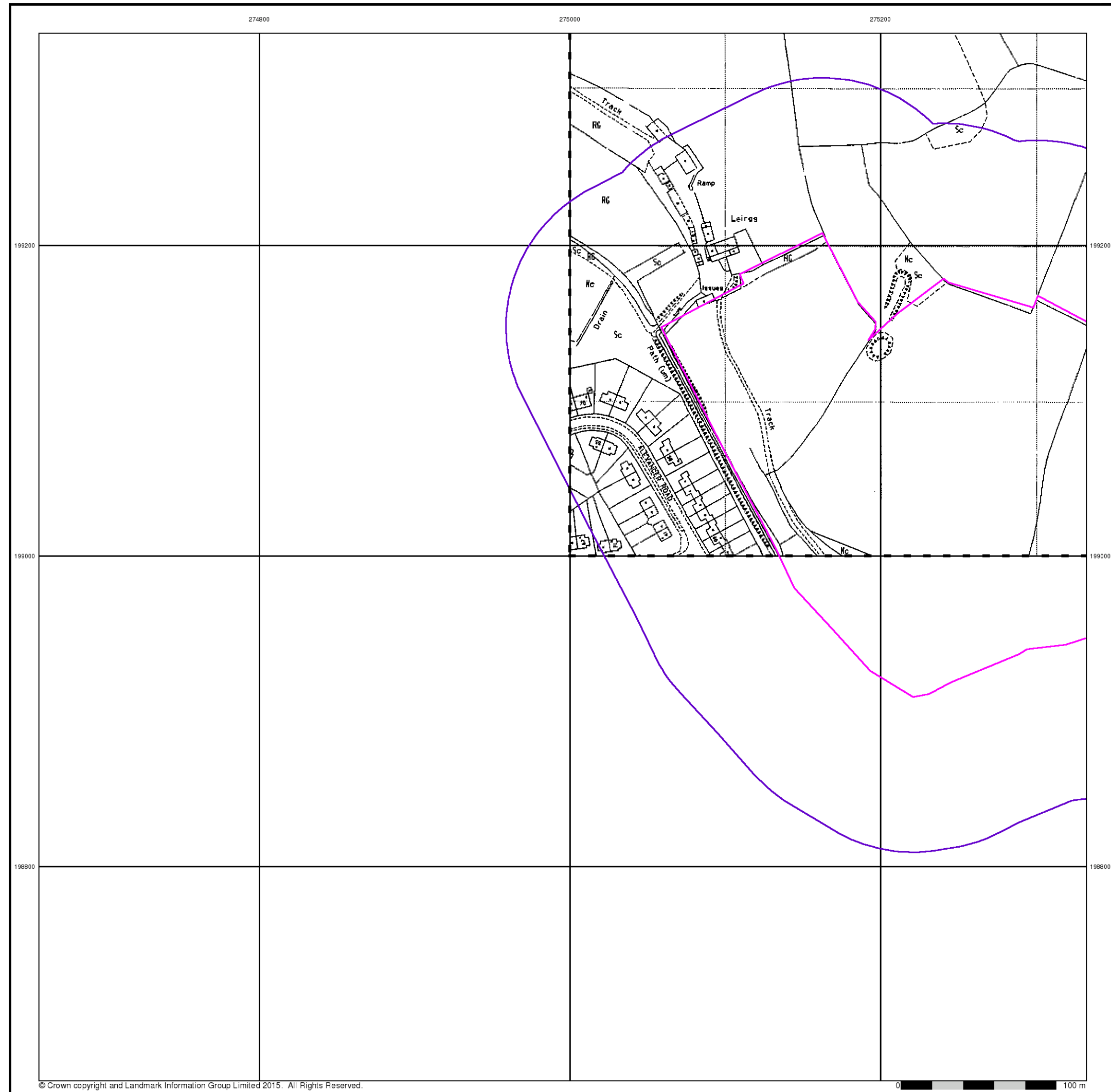
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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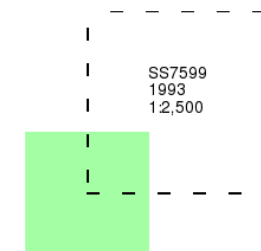
Large-Scale National Grid Data

Published 1993

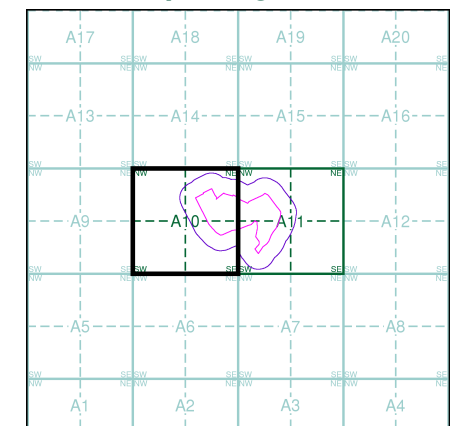
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

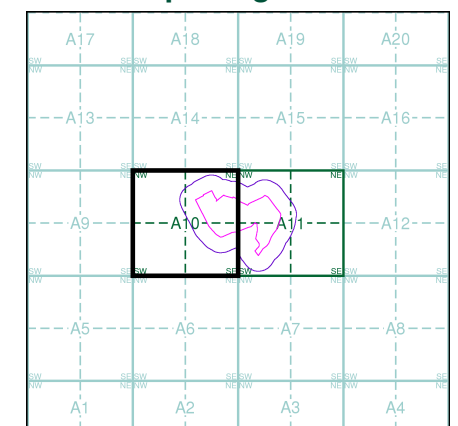
Source map scale - 1:1,250

'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)

SS7499SE	1993	1:1,250
SS7498NE	1993	1:1,250
SS7598NW	1993	1:1,250

Historical Map - Segment A10



Order Details

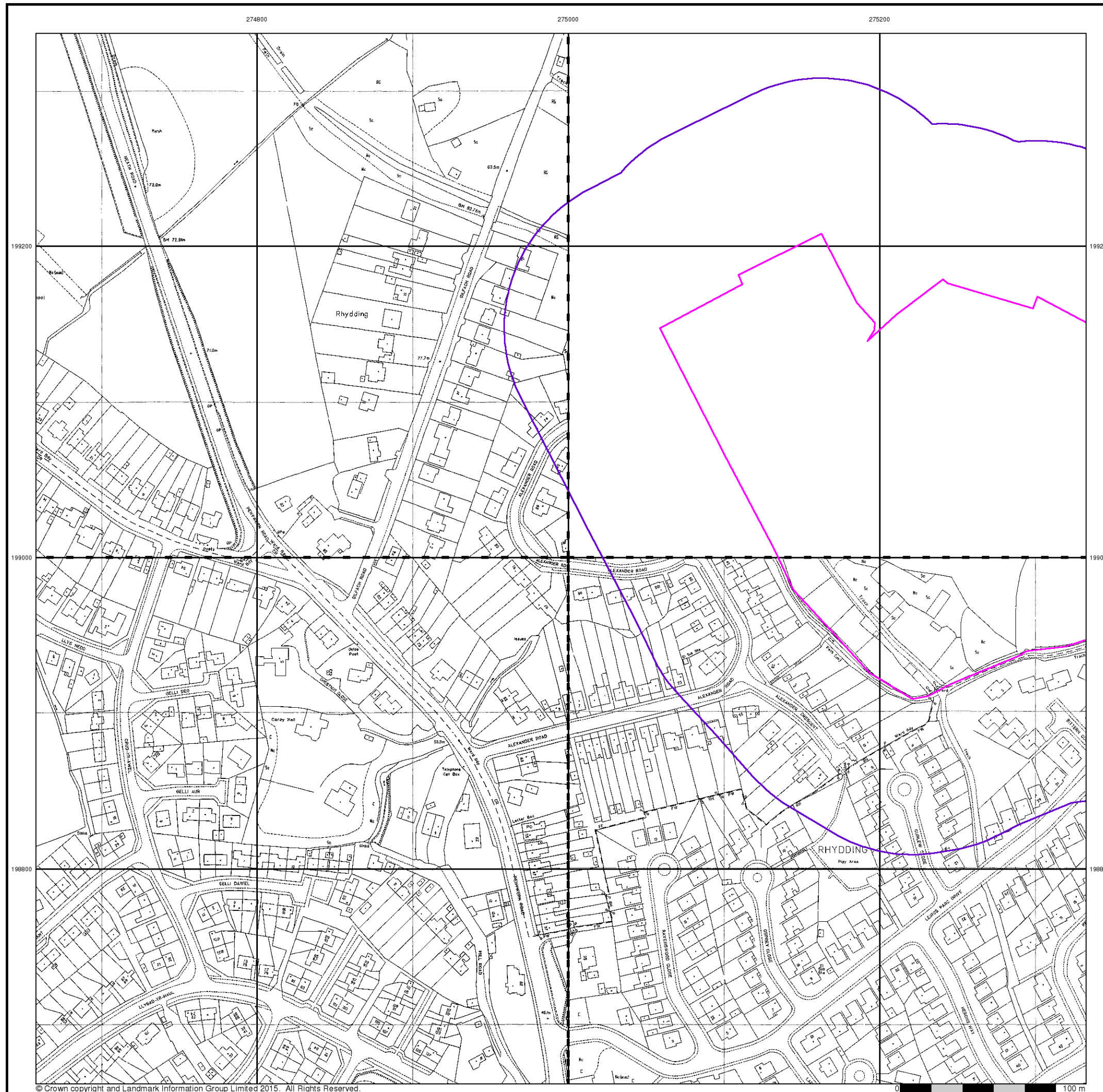
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

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0 100 m



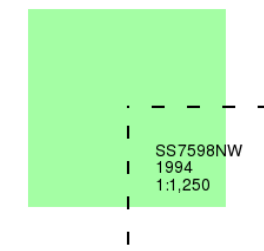
Large-Scale National Grid Data

Published 1994

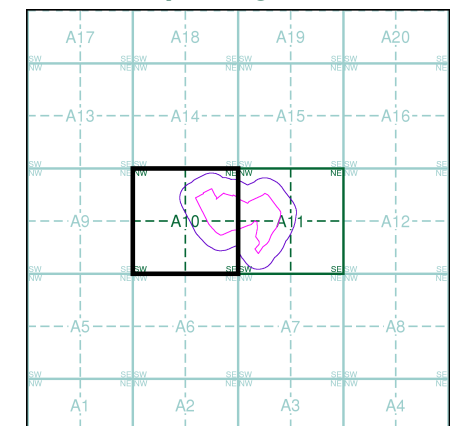
Source map scale - 1:1,250

'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 A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
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Site Details

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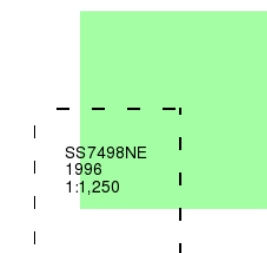
Large-Scale National Grid Data

Published 1996

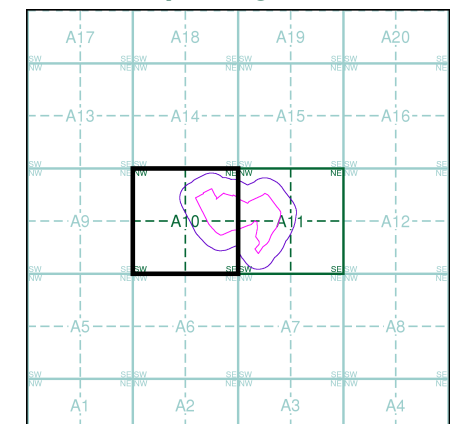
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
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Site Details

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0 100 m

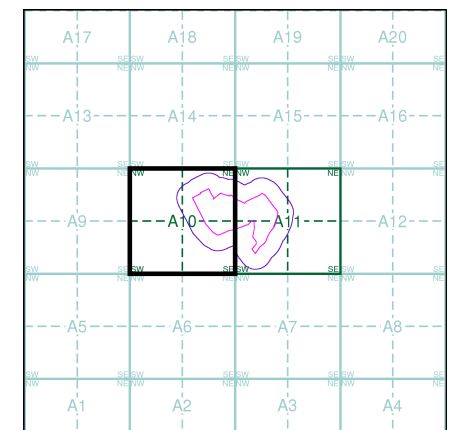


Historical Aerial Photography

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 A10



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

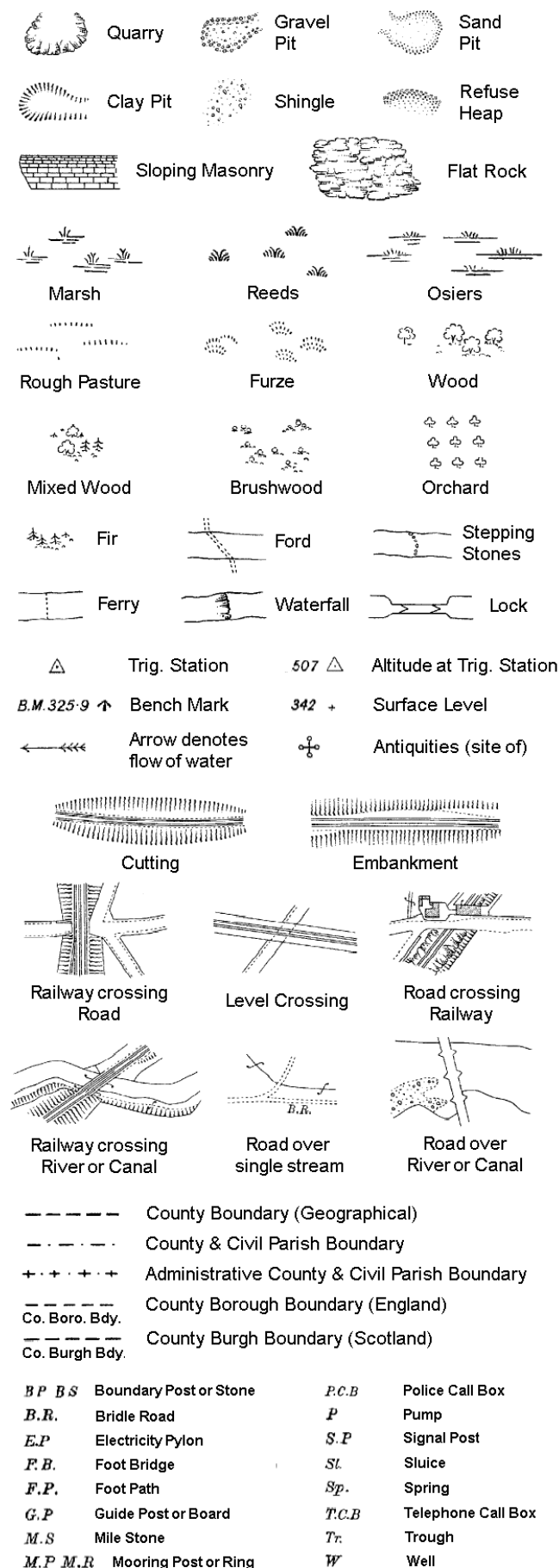
Leiros Park, Bryncoch, Neath, SA10 7EX



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

Historical Mapping Legends

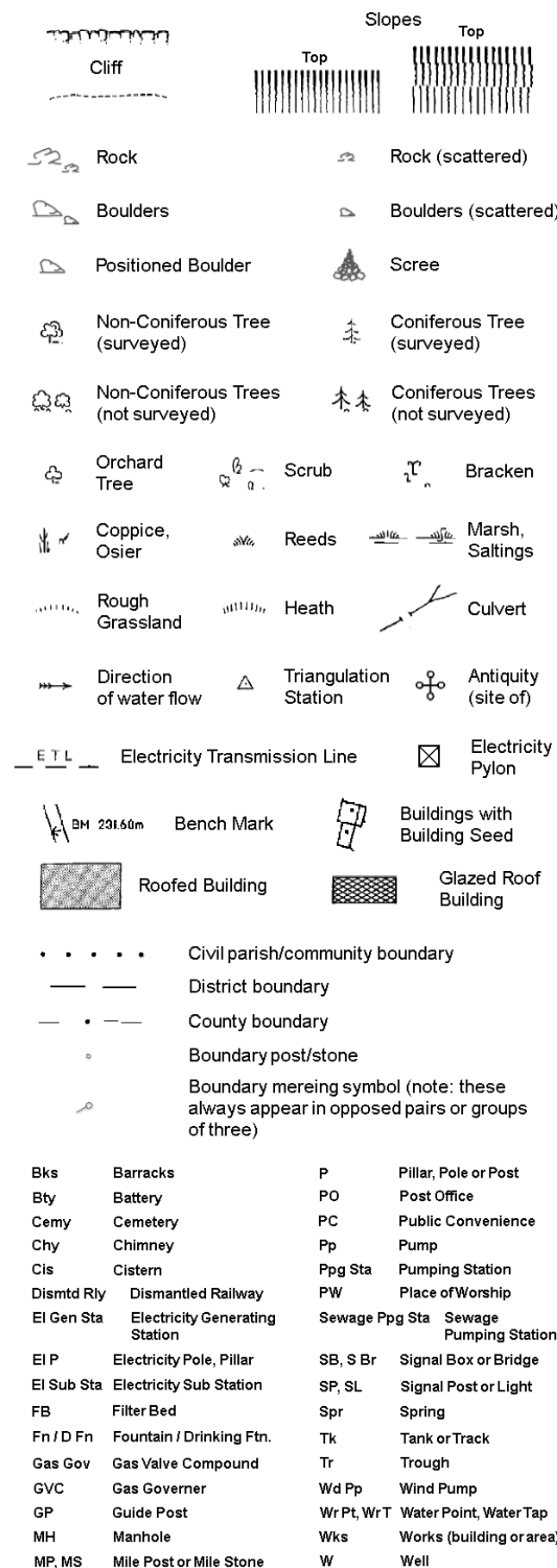
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



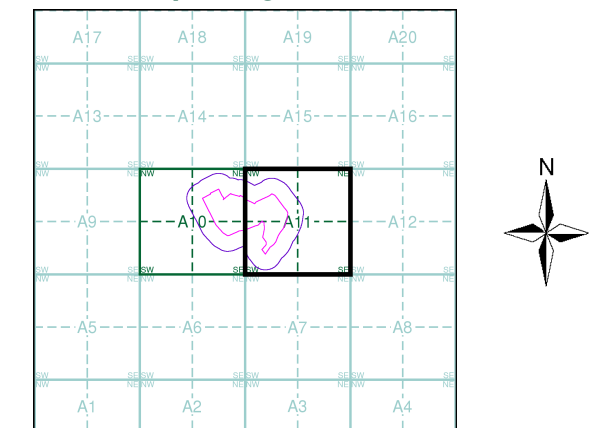
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1877 - 1881	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1918 - 1919	4
Glamorganshire	1:2,500	1935	5
Ordnance Survey Plan	1:2,500	1964 - 1968	6
Ordnance Survey Plan	1:1,250	1967	7
Ordnance Survey Plan	1:1,250	1971 - 1989	8
Additional SIMs	1:1,250	1978 - 1989	9
Additional SIMs	1:2,500	1978 - 1979	10
Ordnance Survey Plan	1:2,500	1984	11
Additional SIMs	1:2,500	1984 - 1987	12
Additional SIMs	1:1,250	1989	13
Large-Scale National Grid Data	1:2,500	1993	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:2,500	1993	16
Large-Scale National Grid Data	1:1,250	1994	17
Large-Scale National Grid Data	1:2,500	1994	18
Historical Aerial Photography	1:2,500	2000	19

Historical Map - Segment A11



Order Details

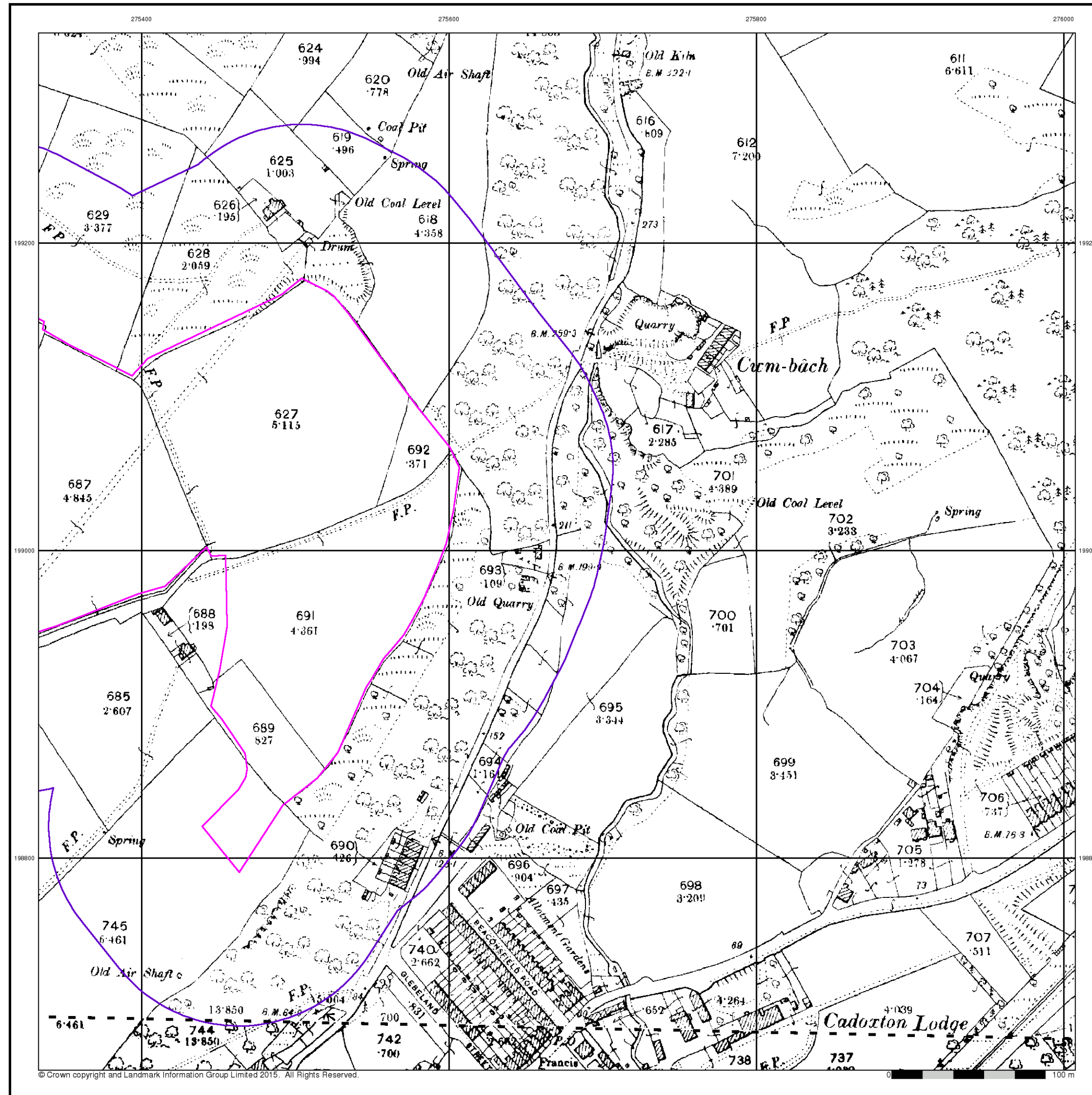
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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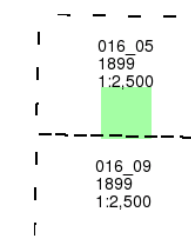
Glamorganshire

Published 1899

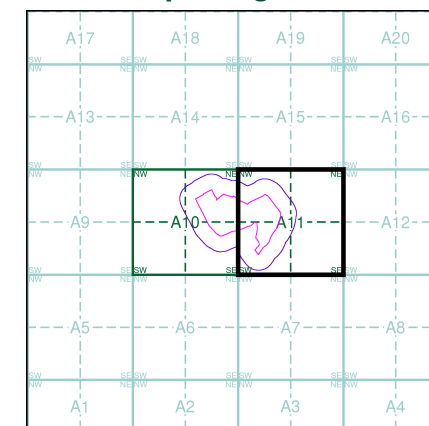
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

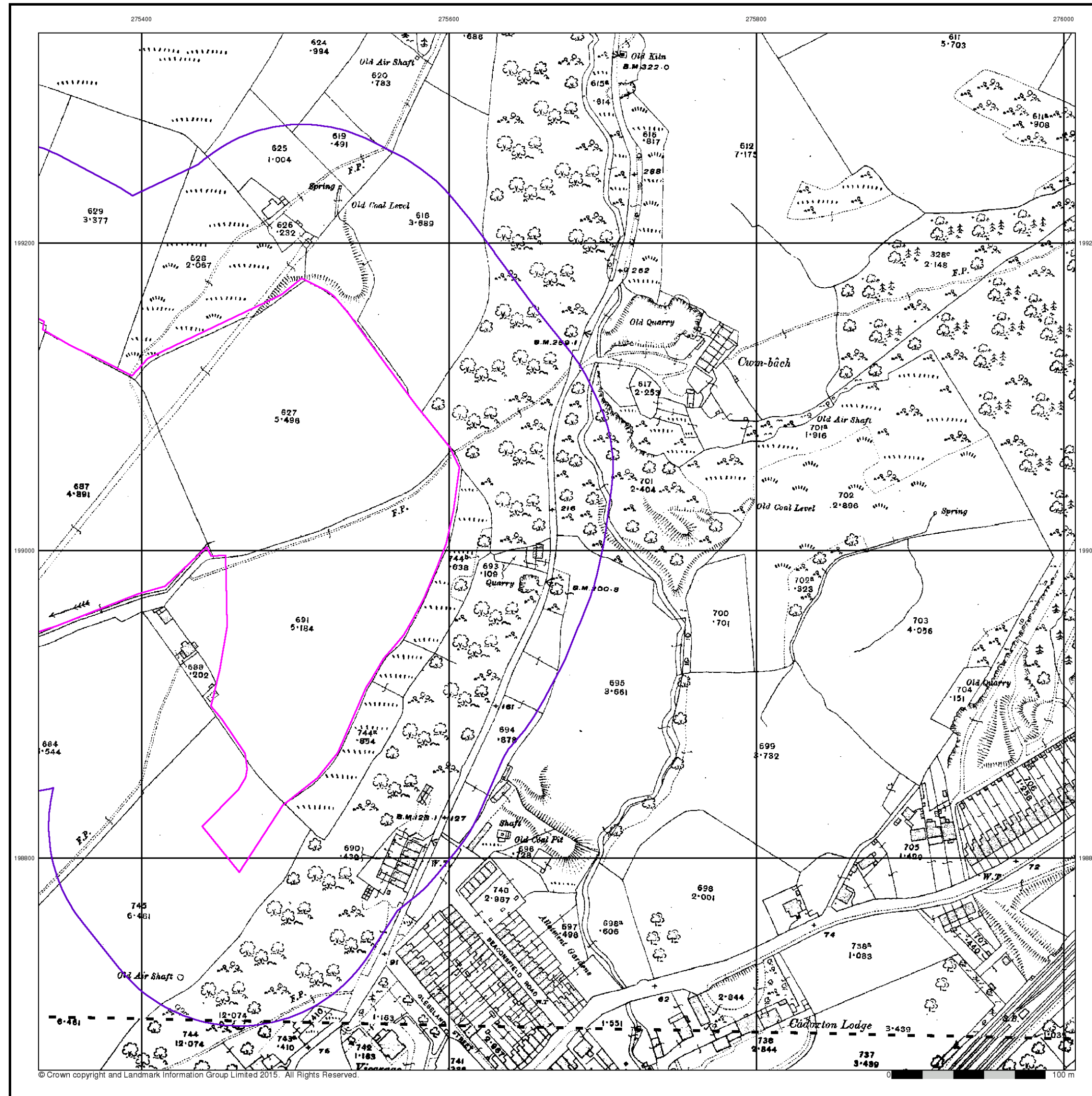
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

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INFORMATION GROUP

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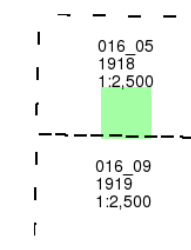
Glamorganshire

Published 1918 - 1919

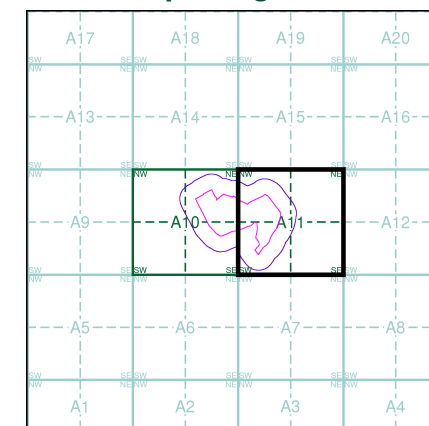
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

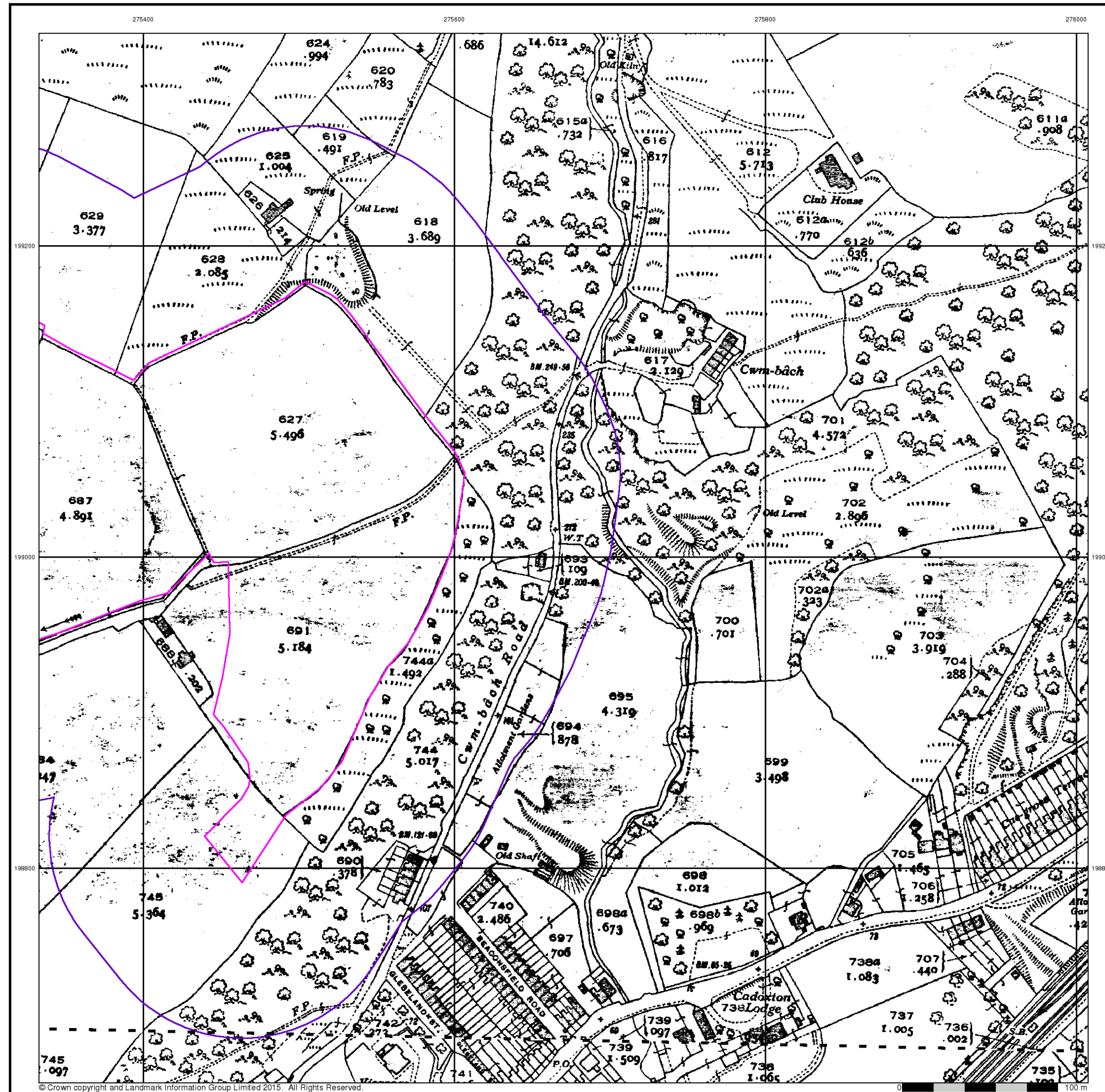
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



Tel: 0844 844 9952
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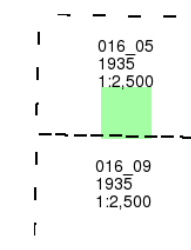
Glamorganshire

Published 1935

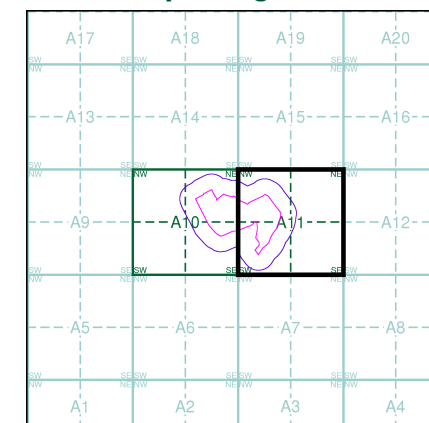
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

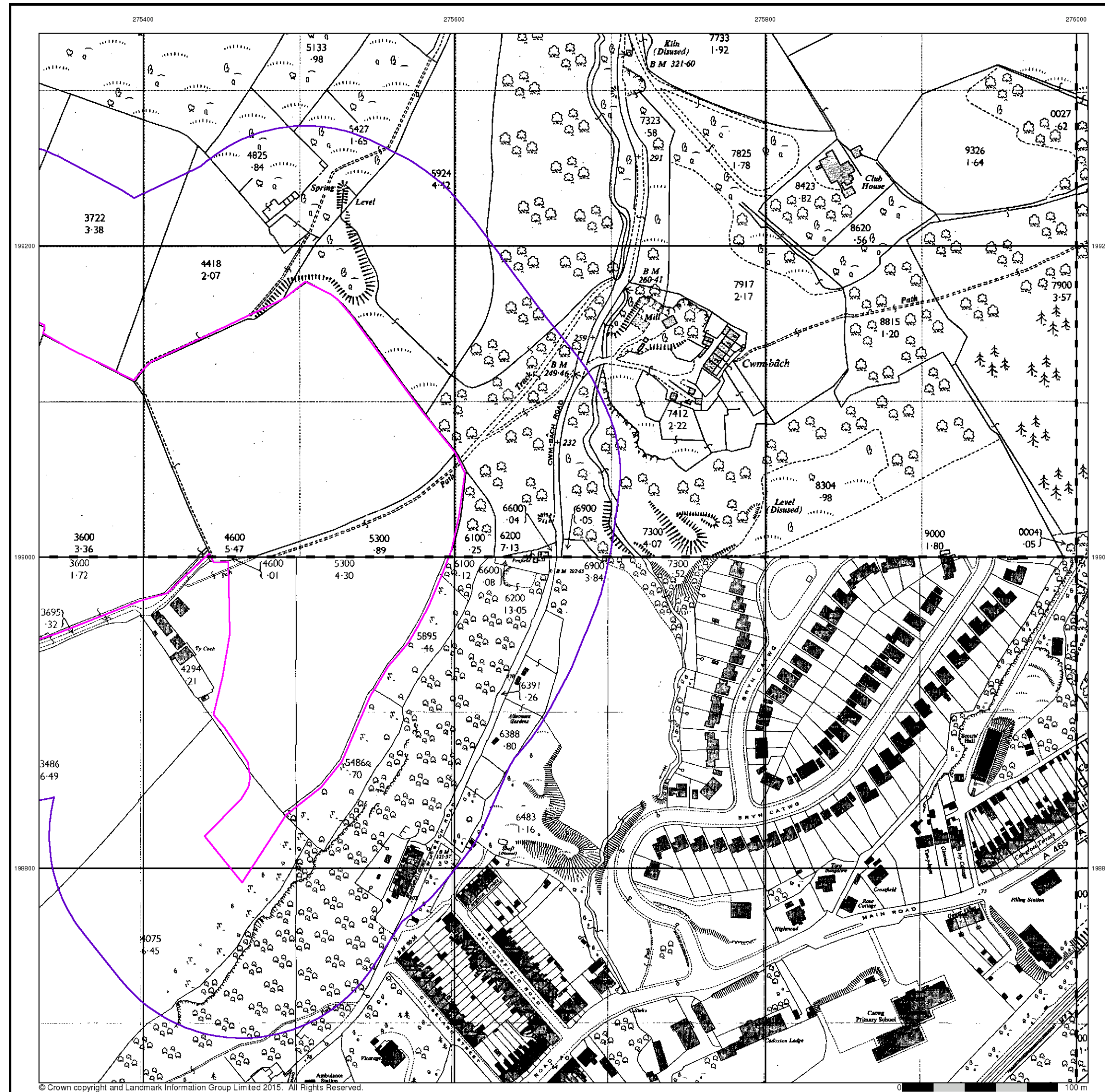
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

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



Ordnance Survey Plan

Published 1964 - 1968

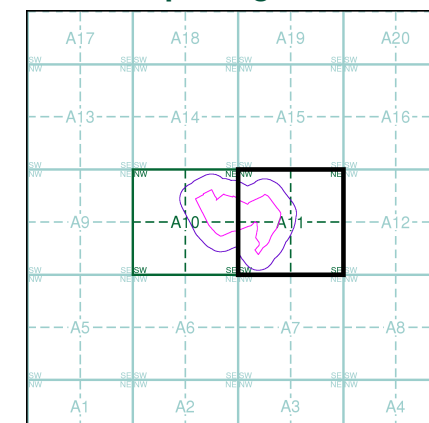
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SS7599 1965 12,500	SS7699 1964 12,500
SS7598 1968 12,500	SS7698 1964 12,500

Historical Map - Segment A11



Order Details

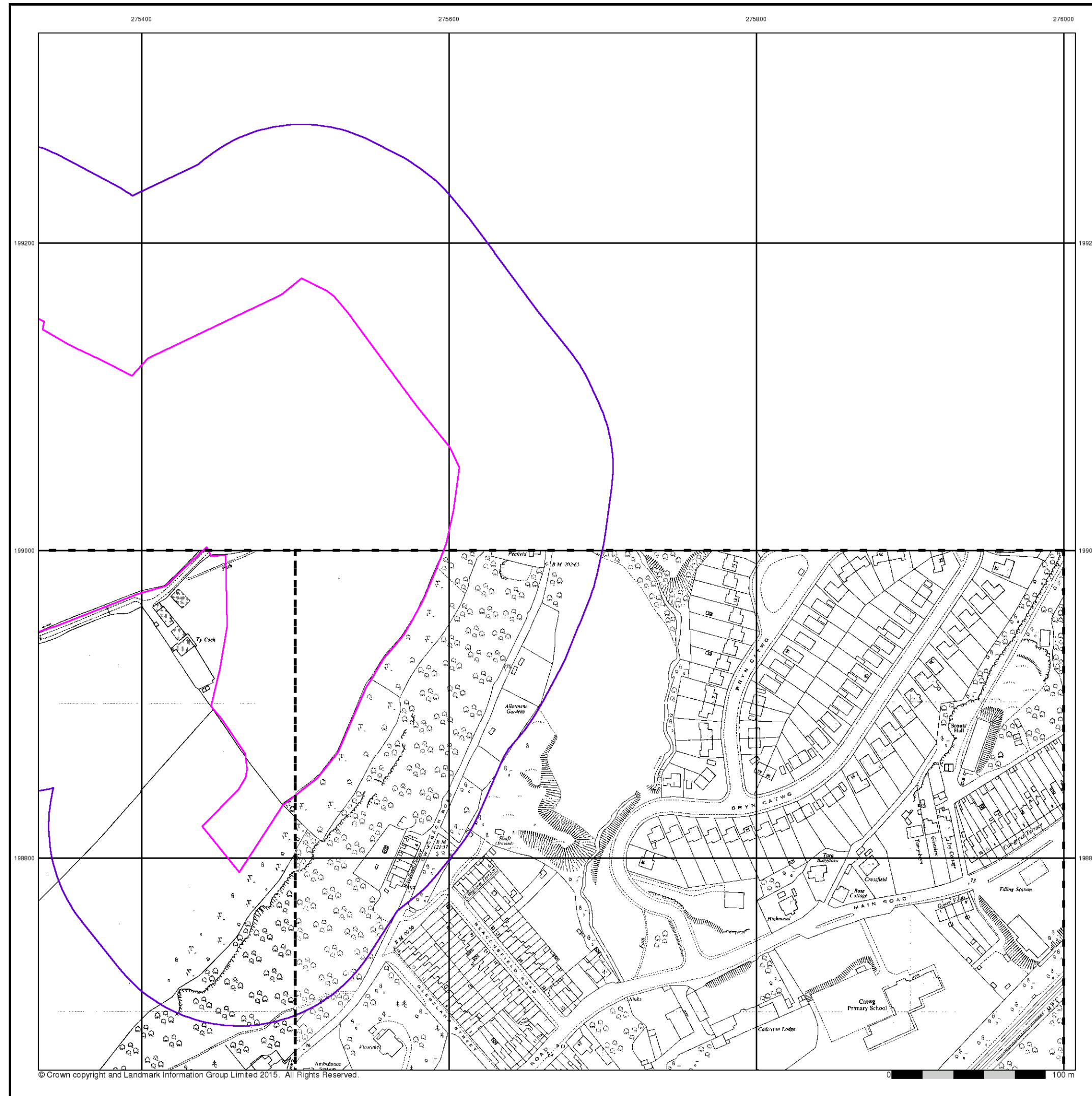
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

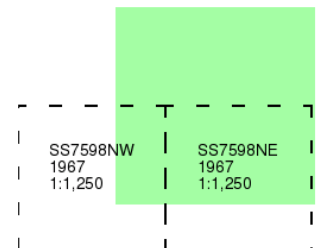
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



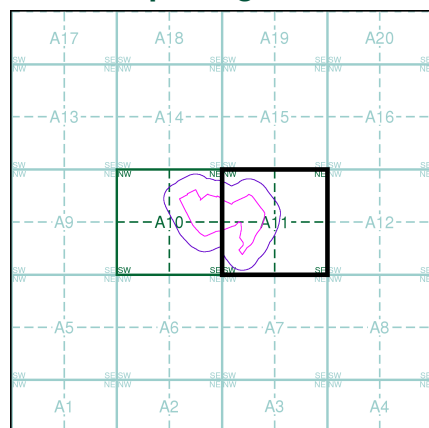
Ordnance Survey Plan
Published 1967
Source map scale - 1:1,250

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)

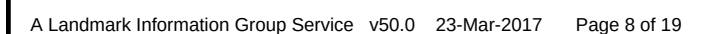


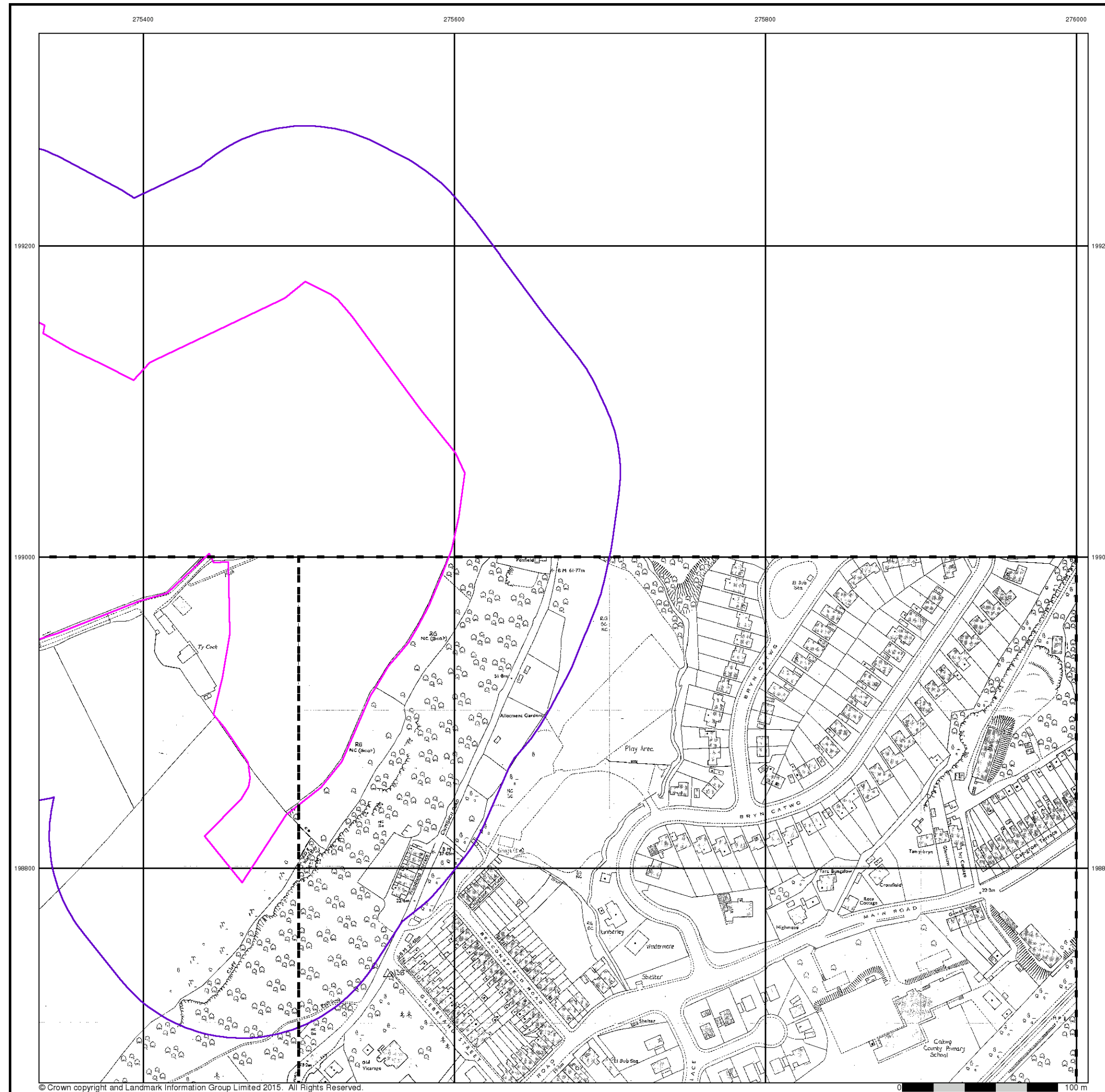
Historical Map - Segment A11



Order Details
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details
Leiros Park, Bryncoch, Neath, SA10 7EX





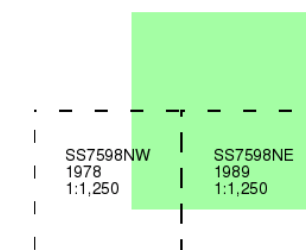
Additional SIMs

Published 1978 - 1989

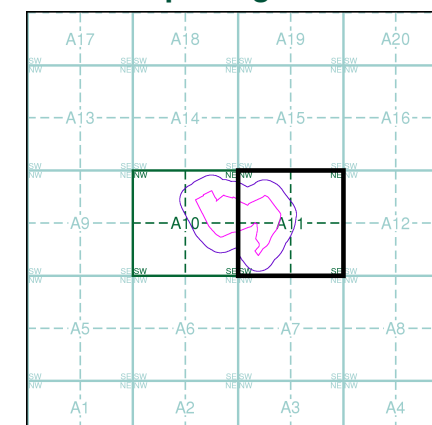
Source map scale - 1:1,250

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 A11



Order Details

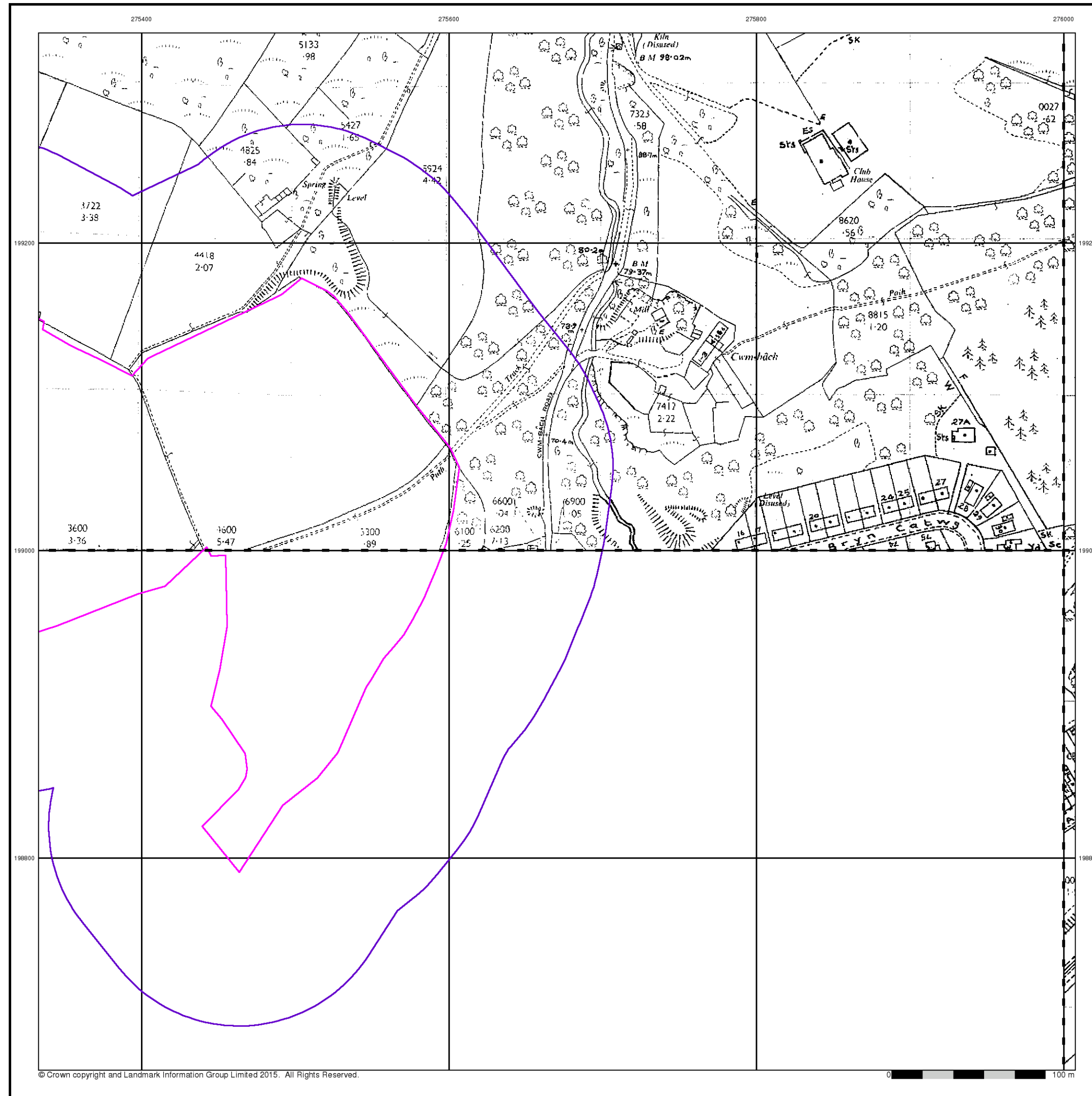
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



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Fax: 0844 844 9951
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Additional SIMs

Published 1978 - 1979

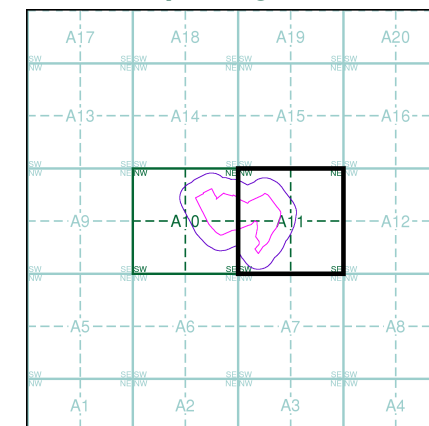
Source map scale - 1:2,500

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)

SS7599 1979 12,500	SS7699 1978 12,500
	SS7698 1978 12,500

Historical Map - Segment A11



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



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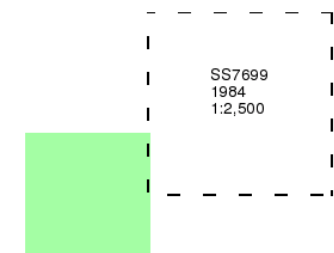
Ordnance Survey Plan

Published 1984

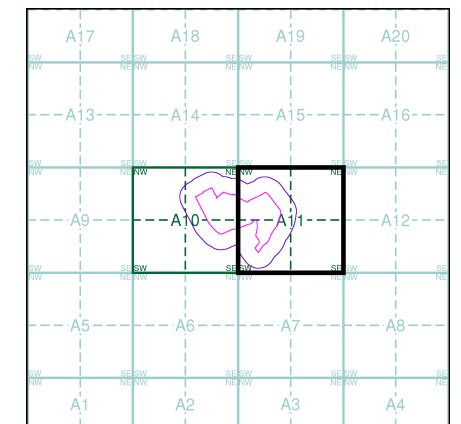
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

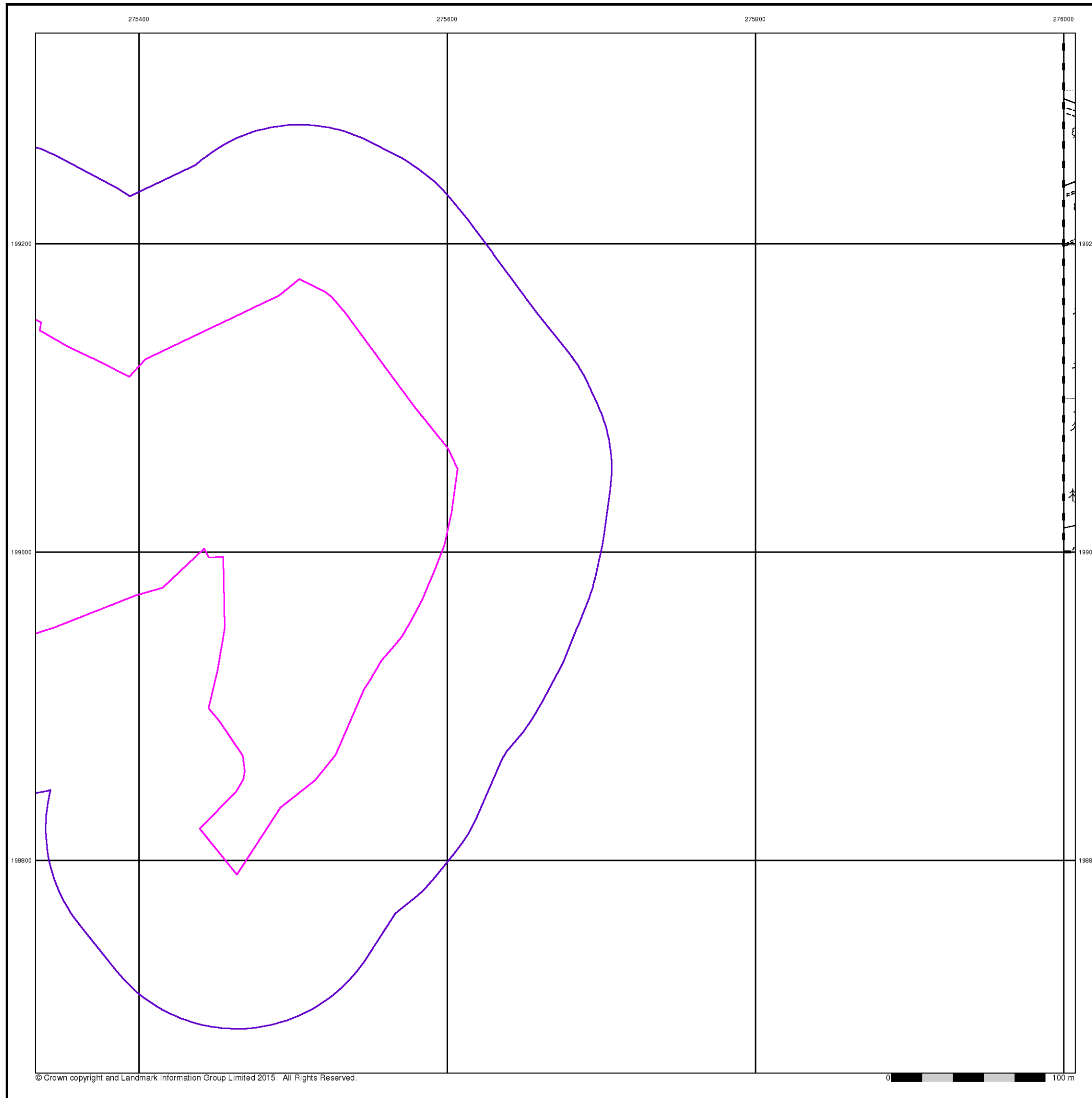
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Customer Ref: 14156
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Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

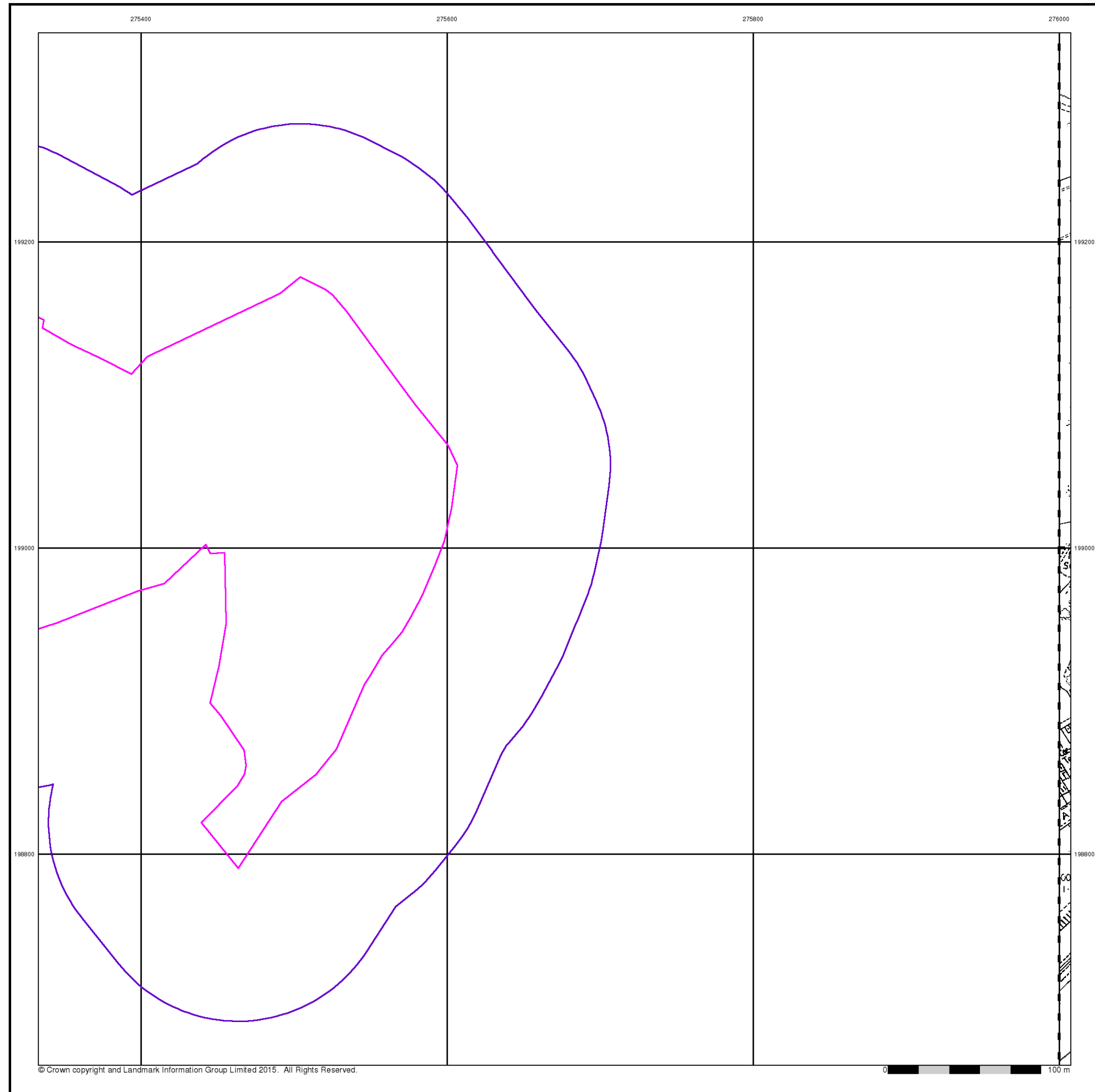
Site Details

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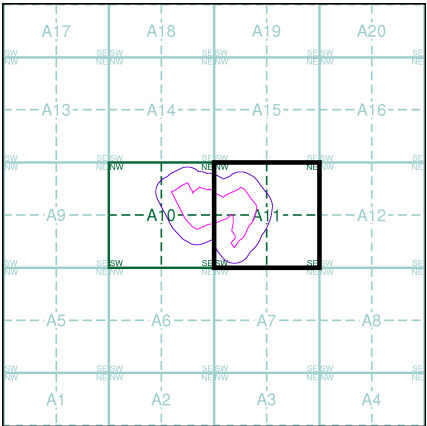
Additional SIMs
Published 1984 - 1987
Source map scale - 1:2,500

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)

	SS7699 1984 12,500
	SS7698 1987 12,500

Historical Map - Segment A11

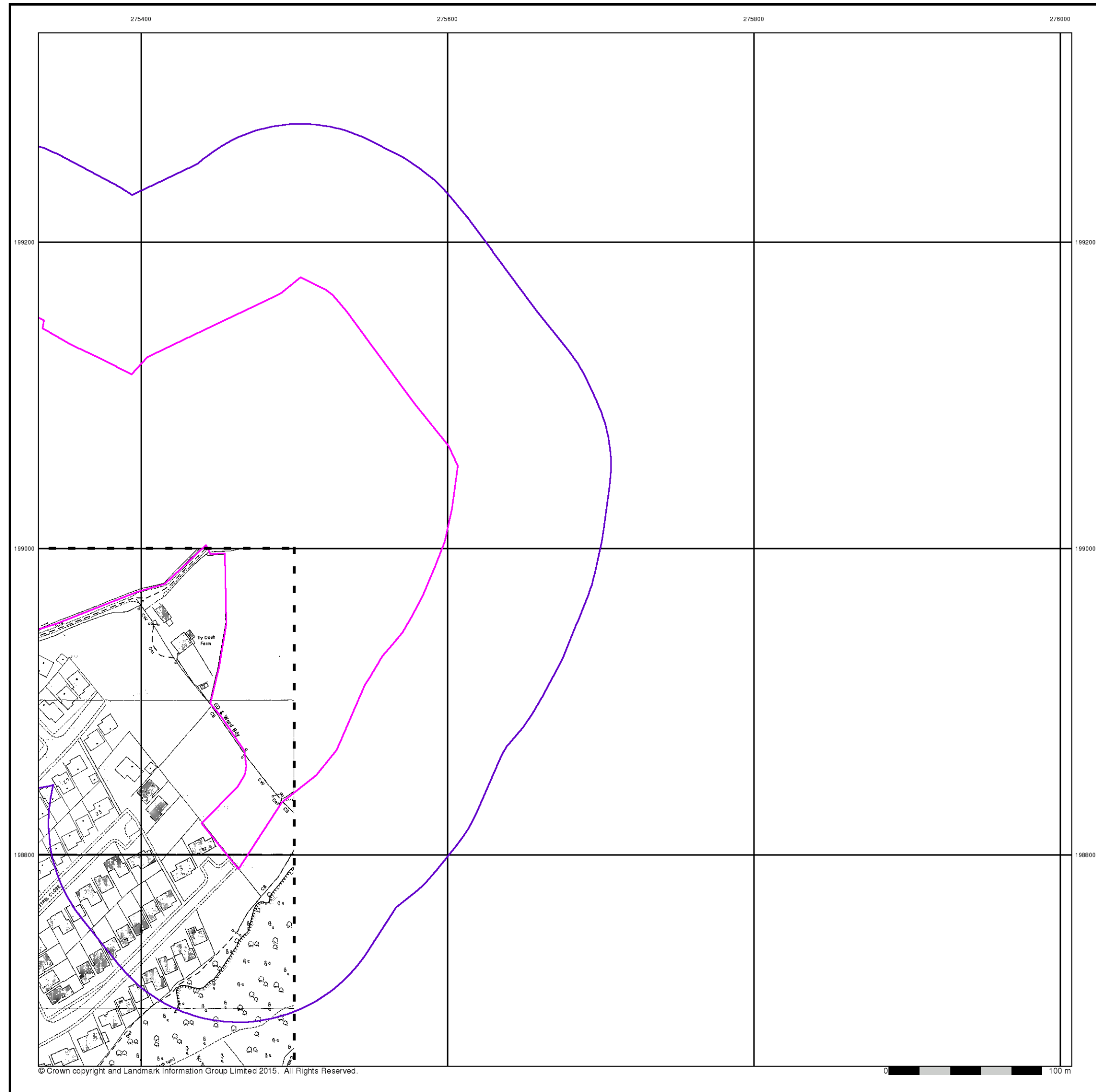


Order Details
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details
Leiros Park, Bryncoch, Neath, SA10 7EX



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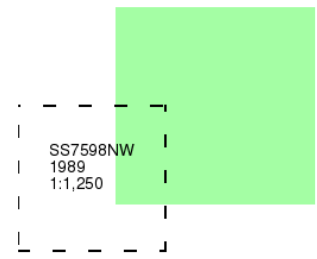
Additional SIMs

Published 1989

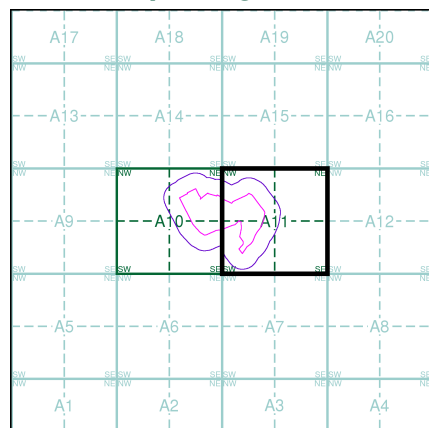
Source map scale - 1:1,250

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 A11



Order Details

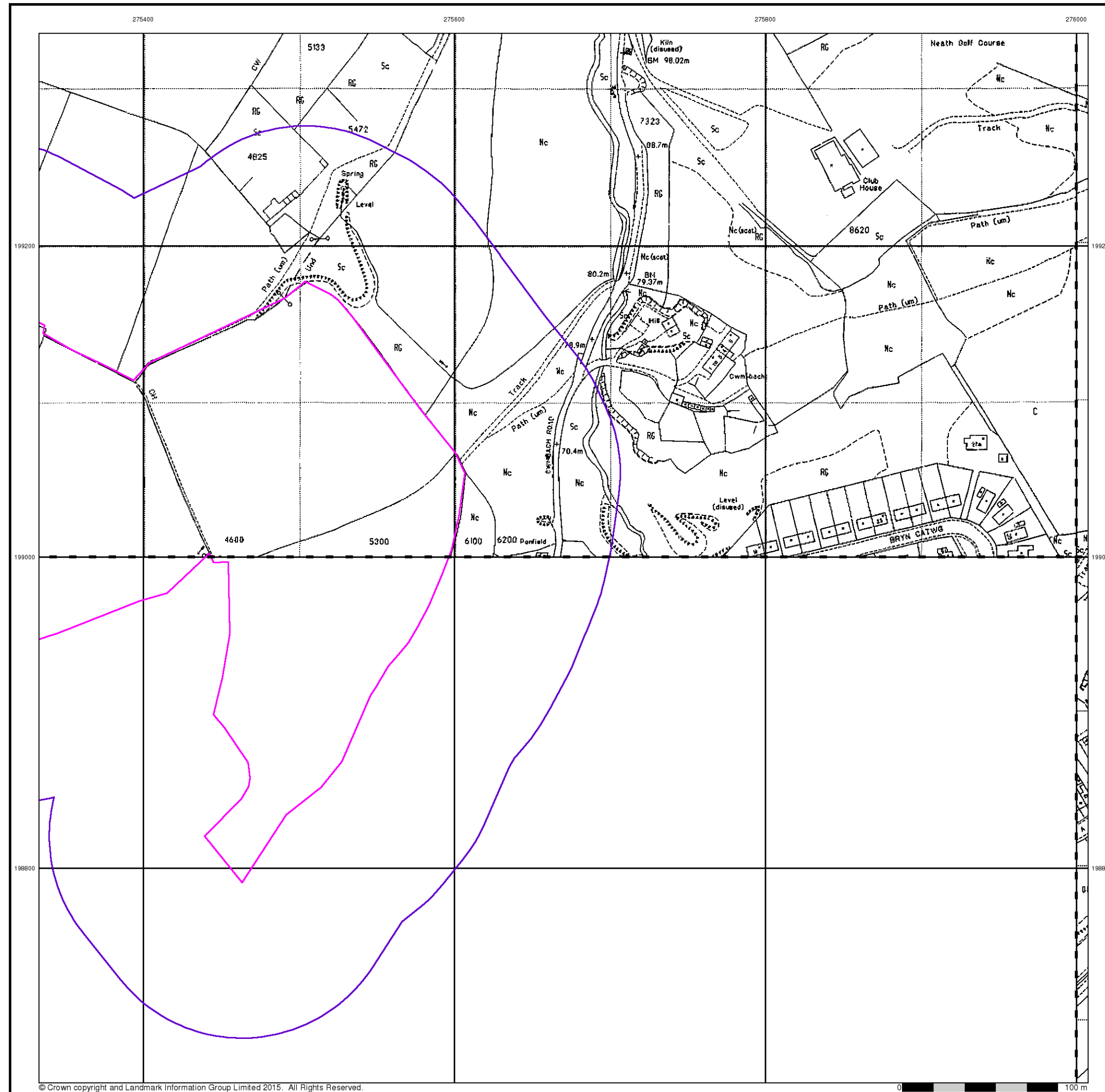
Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
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Site Details

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Large-Scale National Grid Data

Published 1993

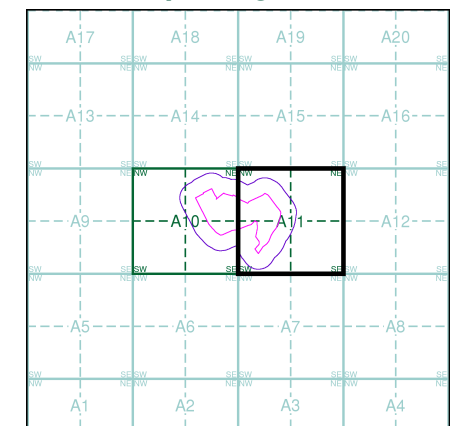
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SS7599 1993 12,500	SS7699 1993 12,500
SS7698 1993 12,500	

Historical Map - Segment A11



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX



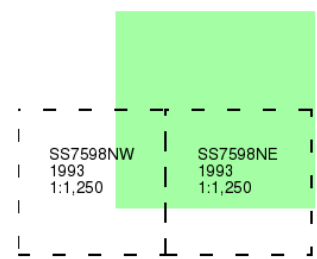
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk



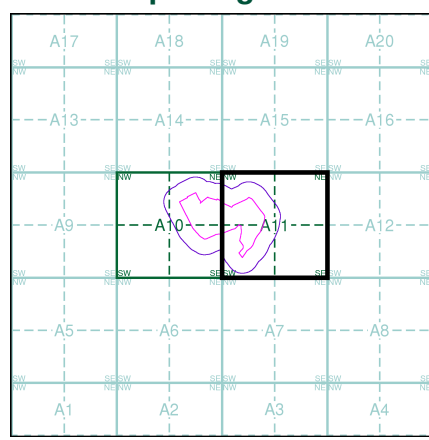
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'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 A11



Order Details

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Slice: A
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Site Details

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Large-Scale National Grid Data

Published 1993

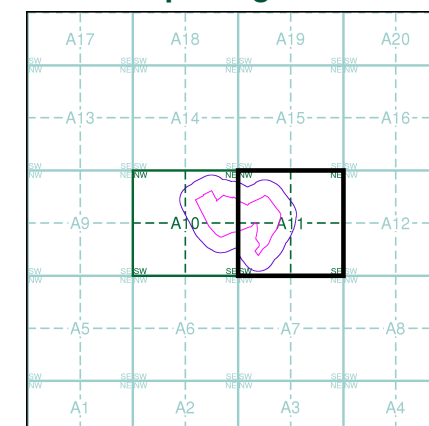
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Map Name(s) and Date(s)

SS7699 1993 12,500		SS7698 1993 12,500

Historical Map - Segment A11



Order Details

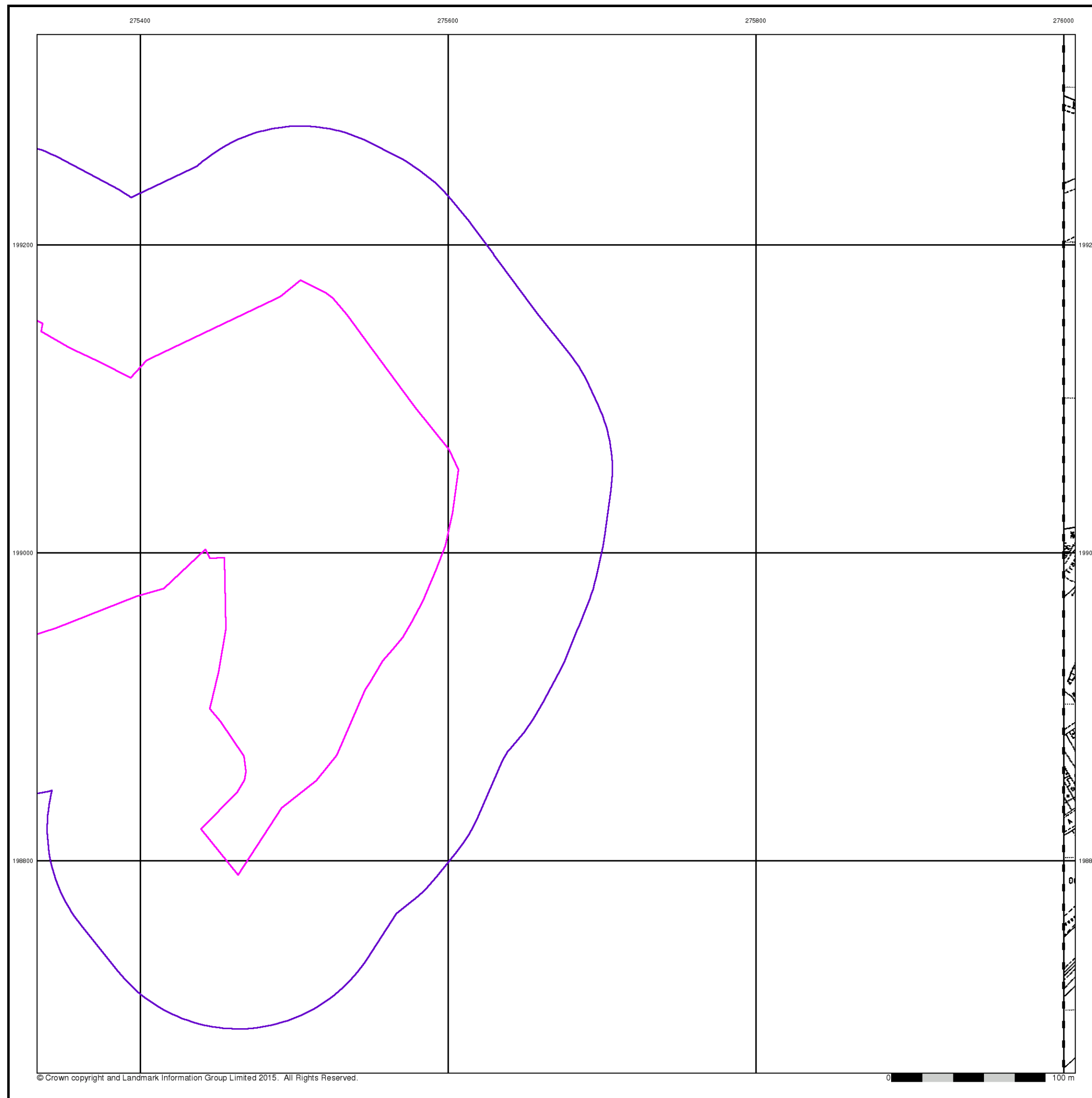
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Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

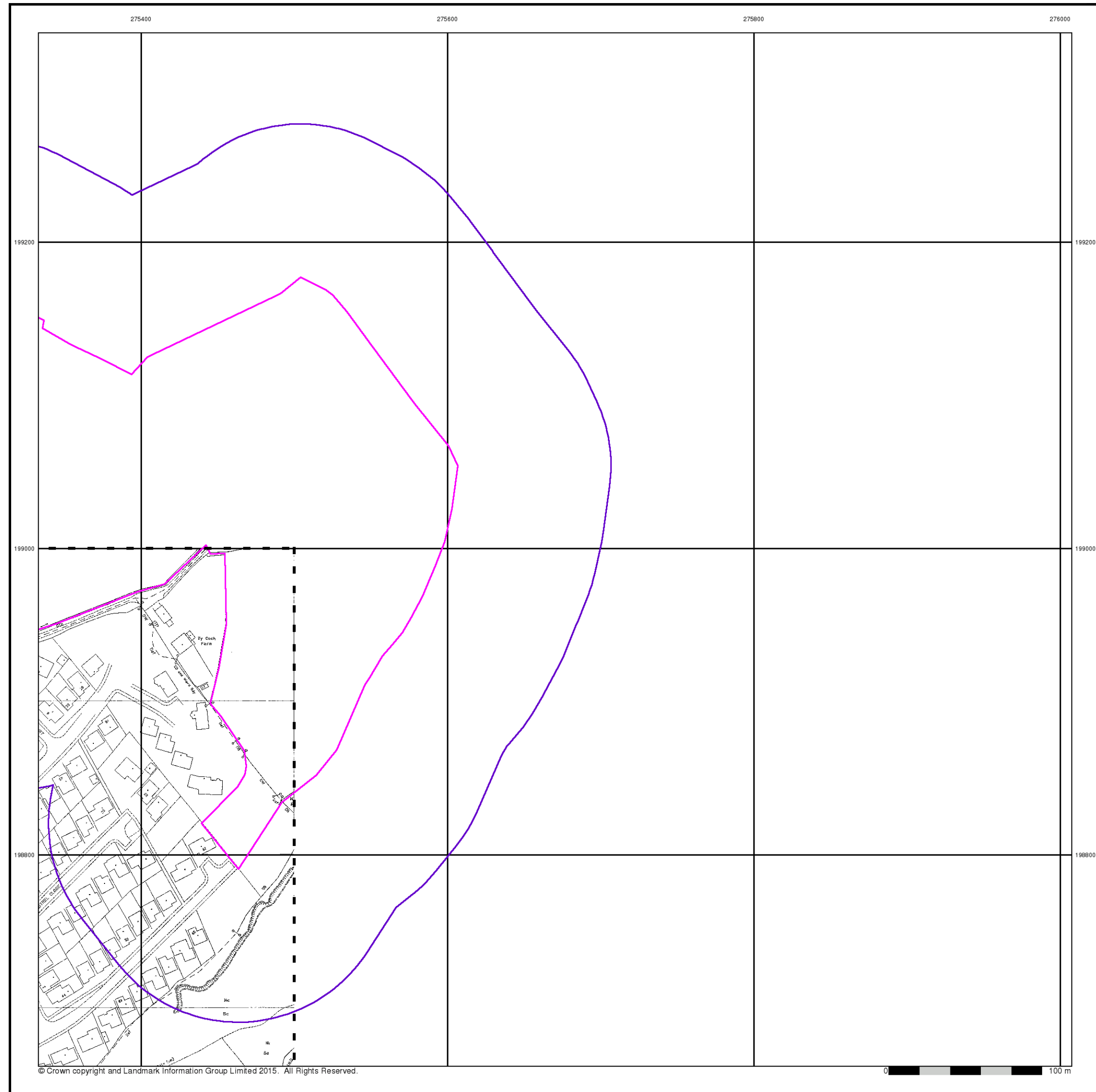
Site Details

Leiros Park, Bryncoch, Neath, SA10 7EX

Landmark
INFORMATION GROUP

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

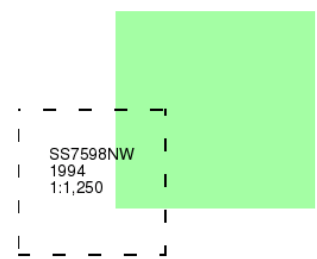




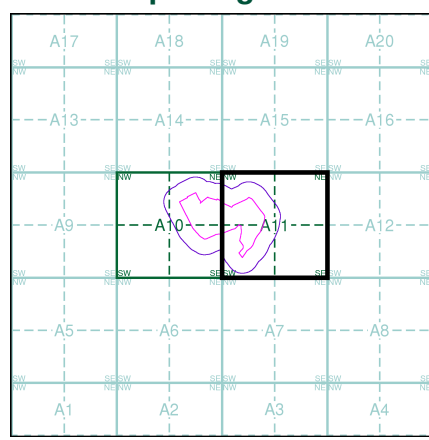
Large-Scale National Grid Data
Published 1994
Source map scale - 1:1,250

'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 A11



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
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Slice: A
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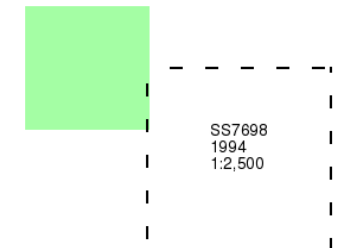
Large-Scale National Grid Data

Published 1994

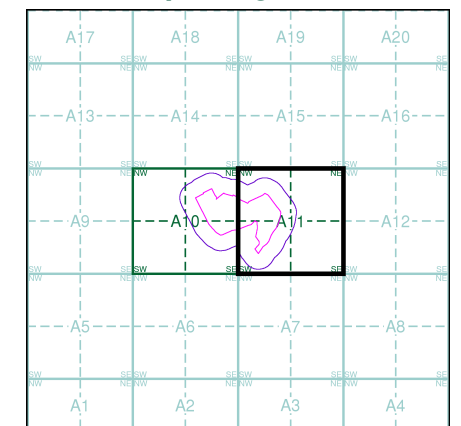
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information 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 A11



Order Details

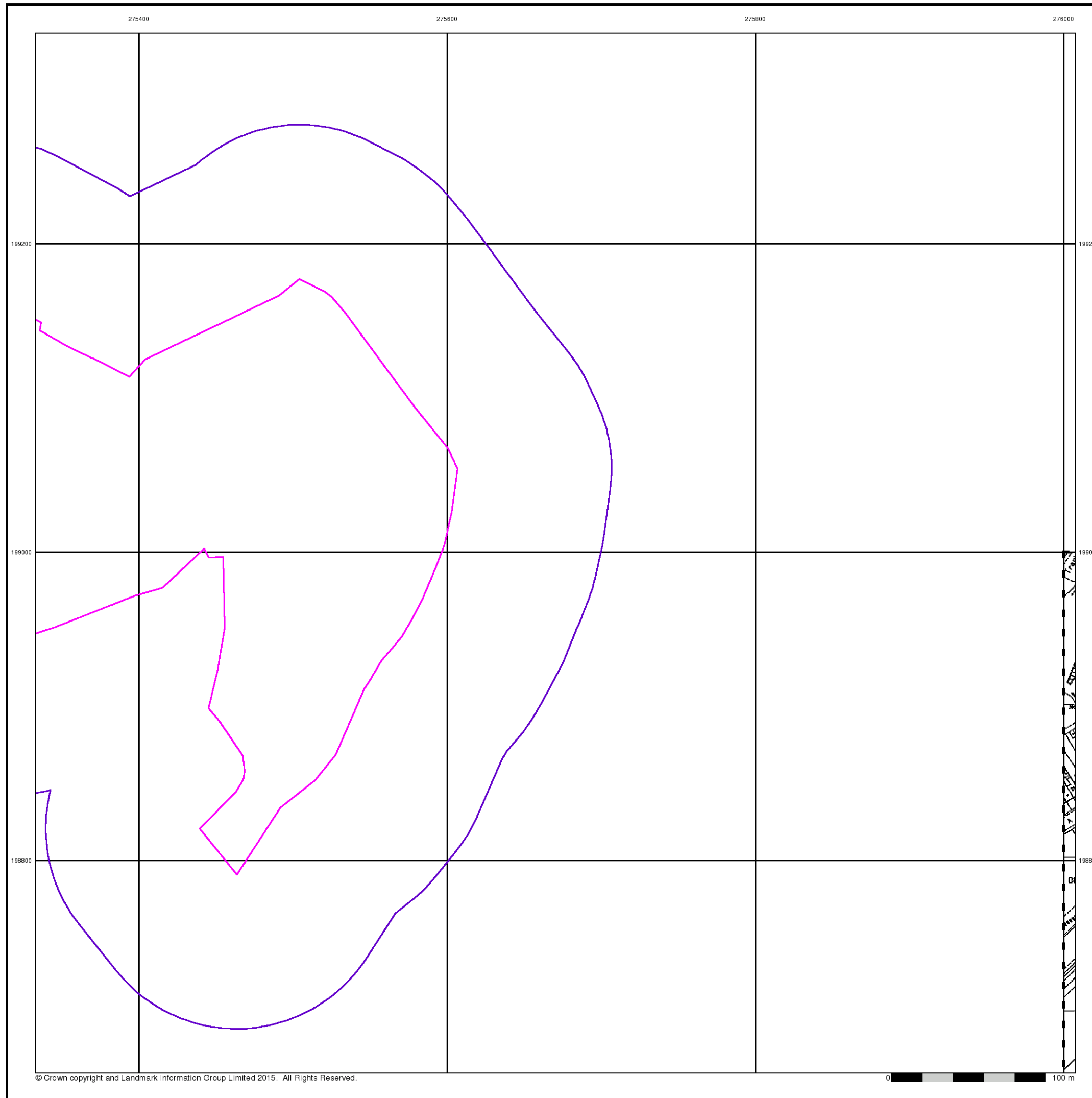
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Slice: A
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Search Buffer (m): 100

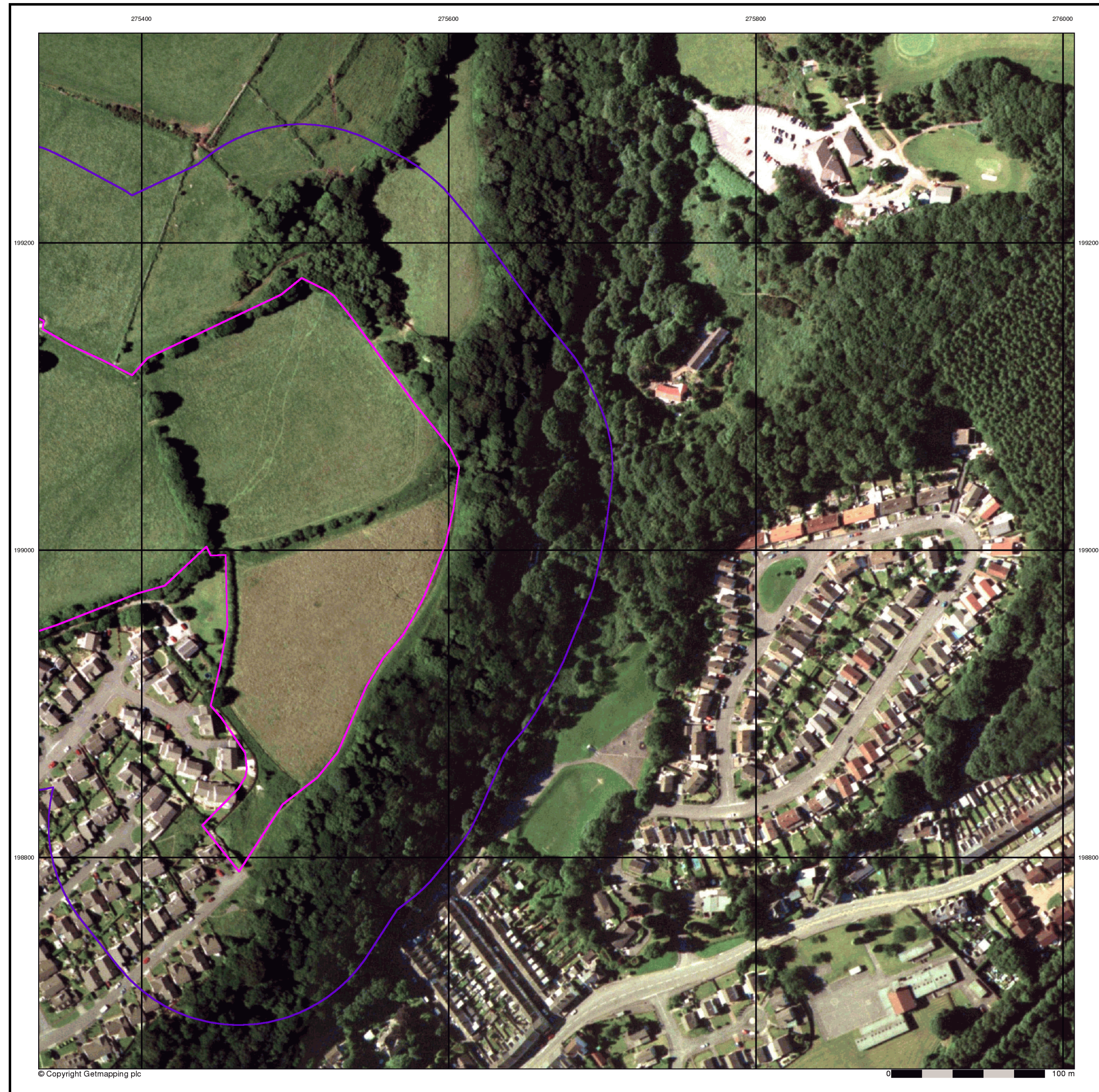
Site Details

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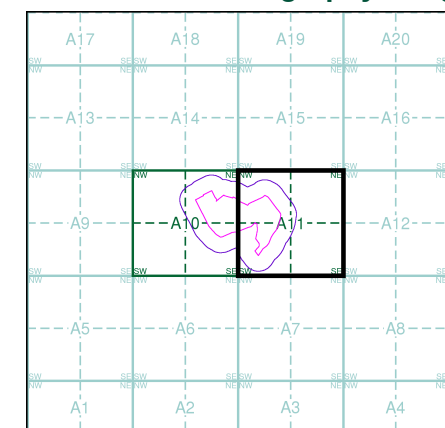


Historical Aerial Photography

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 A11



Order Details

Order Number: 118892601_1_1
Customer Ref: 14156
National Grid Reference: 275340, 199030
Slice: A
Site Area (Ha): 11.09
Search Buffer (m): 100

Site Details

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Web: www.envirocheck.co.uk

Annex B
Coal Authority Mining Report



The Coal
Authority

Resolving the **impacts** of mining

Non-Residential Coal Mining Consultants Report



LEIROS PARK, BRYNCOCH, NEATH, NEATH PORT TALBOT,
SA10 7EX

Date of enquiry:	23 March 2017
Date enquiry received:	23 March 2017
Issue date:	23 March 2017

Our reference:	51001400175001
Your reference:	14156

Non-Residential Coal Mining Consultants 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

Terra Firma (Wales) Ltd

Enquiry address

LEIROS PARK, BRYNCOCH, NEATH, NEATH PORT
TALBOT, SA10 7EX

How to contact us

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

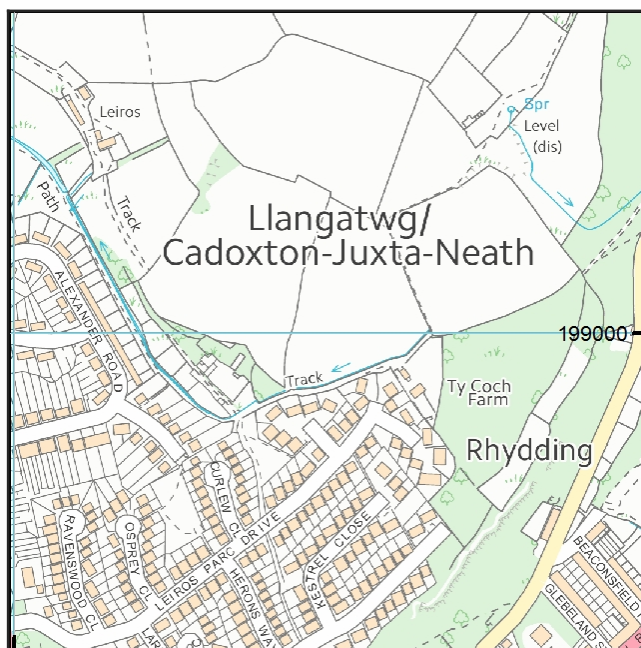
200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



Approximate position of property



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Detailed findings

Past underground coal mining

Colliery	Seam	Mineral	Panel	Depth (m)	Direction to working	Disposition	Extraction thickness (cm)	Year
unnamed	HUGHES	Coal	4JEL	62	Beneath Property	0.0	110	1900
unnamed	HUGHES	Coal	4KEZ	69	Beneath Property	0.0	145	1901
unnamed	HUGHES	Coal	4JEK	82	Beneath Property	0.0	110	1900
RYDDING	MYNYDDISLWYN LOWER LEAF	Coal	4JM5	137	SW	0.5	200	1882

Probable unrecorded shallow workings

None.

Outcrops

Seam name	Mineral	Thin indicator	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
DARREN DDU	Coal	False	Beneath property	N/A	114

Spine roadways at shallow depth

Yes.

Future underground mining

None recorded.

Licence details (AOR)

None recorded.

Section 46 notices

None recorded.

Geology

Fault under or close to the property recorded.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyance details
Adit	275199-019	275709 199028		Coal	
Shaft	275199-026	275094 199112		Coal	
Shaft	275198-005	275422 198723		Coal	
Shaft	275199-025	275046 199130		Coal	
Shaft	275199-024	275051 199054		Coal	
Shaft	275199-027	275320 199075		Coal	
Adit	275199-002	275527 199225		Coal	
Shaft	275199-007	275545 199275		Coal	
Adit	275198-016	275618 198871		Coal	
Adit	275199-020	275704 199006		Coal	

Court orders

None recorded.

Worked out opencast sites

None recorded.

Coal mining related hazards

None recorded.

Coal mining subsidence

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

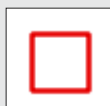
There is no current Stop Notice delaying the start of remedial works or repairs to the property.

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.

Enquiry boundary

Key

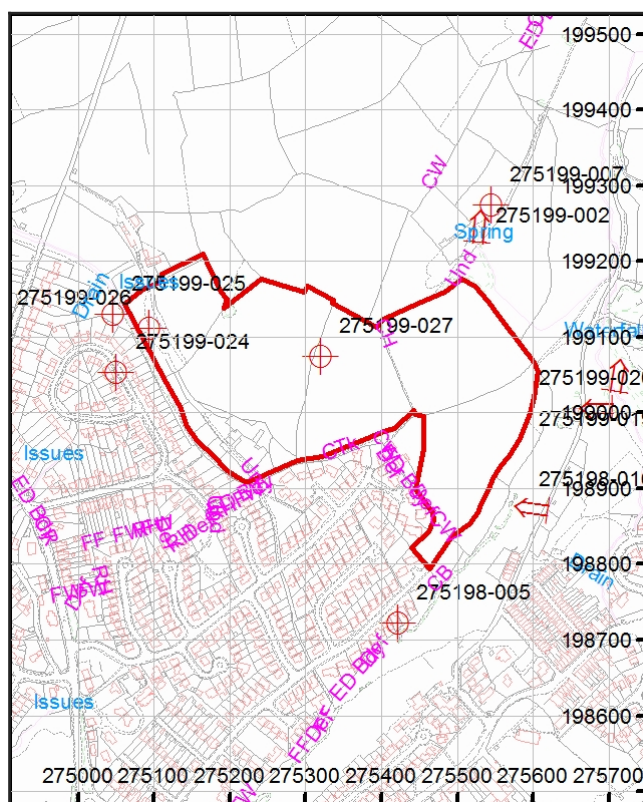
Approximate position of enquiry boundary shown



Disused adit



Disused mineshaft

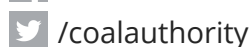
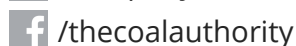


How to contact us

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

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NG18 4RG

www.groundstability.com



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VAT receipt

Issued by	The Coal Authority 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG
Tax point date	23 March 2017
Issued to	TERRA FIRMA (WALES) LTD 5 DERYN COURT WHARFEDALE ROAD PENTWYN CARDIFF CARDIFF CF23 7HA
Property search for	LEIROS PARK BRYNCOCH NEATH NEATH PORT TALBOT SA10 7EX
Reference number	51001400175001
Date of issue	23 March 2017
Cost	£100.00
VAT @ 20%	£20.00
Total received	£120.00
VAT registration	598 5850 68