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Drawing 65200861-CAWDOR_LQ_Stg1_LQA_03

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Land Quality Statement

Sweco UK Limited (Sweco) was commissioned by the Ministry of Defence (MOD) to undertake a Phase 1 Land Quality Assessment (LQA) at Cawdor Barracks.

The MOD are considering the development of a Deep Space Advanced Radar Capability (DARC) facility at Cawdor Barracks. This study was required to determine the environmental quality of the ground conditions of the Site and to assess the potential for related human health and environmental risks associated with the current use (anticipated to generally reflect the proposed future use).

Cawdor Barracks is currently the Head Quarters of the 14th Signals Regiment and comprises three general areas: an airfield; Technical Area and Barracks (including a small number of married quarters). The airfield is currently used for training (small arms, physical and electronic warfare). A compound within the Technical Area is currently being used by the US Military.

The Site was established as a satellite station for the nearby Royal Air Force base, RAF St David's, in 1944 before being occupied by the Fleet Air Arm of the Royal Navy in January 1946 and renamed HMS Goldcrest in 1952.

In February 1974 the RAF returned, with D Flight of 22 Squadron taking up residence. The RAF withdrew in the early 1990s and the Royal Signals Regiment took over the Site. The Site was named Cawdor Barracks.

An offsite US Naval Facility was set up approximately 100 m west of the Site circa 1946 (but detailed to have been built in 1957). A United States Naval Facilities Engineering Systems Command (NAVFAC) bulk fuel installation (BFI) was established on site (to the east of the runways) and connected to the off-site facility via a 2 km pipeline. The off-site facility is likely to have been decommissioned in 1997.

To evaluate the significance of the findings, a risk assessment was undertaken in line with the best practice adopting the source – pathway – receptor model.

Certain activities and features at the Site have been identified, both historical and current, which may give rise to sources of contamination which may be of importance for future operation of the Site or introduce constraints during any proposed development. These include:

- Source 1: Former Bulk Fuel Installations (Old BFI, BFI 1, BFI 2, and NAVFAC BFI);
- Source 2: Former Fire Training Area (FTA);
- Source 3: Former Fuel Bowser Parking;
- Source 4: Former tip/burning area;
- Source 5: NAVFAC BFI Pipeline;
- Source 6: Current BFI/POL Point;
- Source 7: Historical POL points and former above and below ground fuel storage tanks, and small former fire training area located within the technical area/barracks area;
- Source 8: Known asbestos contaminated area;
- Source 9: Infilled quarries/gravel pits, and linear mound, and;
- Source 10: Offsite former Brawdy Farm sand pit.

Receptors considered to be sensitive to potential contamination at the Site include current and future site users (including onsite workers and residents, and offsite residents and amenity users) and controlled waters, in particular unnamed water courses and springs around the periphery of the Site, the superficial Secondary A Aquifer (Glaciofluvial Deposits) and Secondary B Aquifer within the Lingula Flags, Triffleton Group, and Ramsey Sound Group solid geology.

Based upon information obtained and reviewed as part of this LQA it is considered that widespread contamination across the site is **unlikely** as a result of the historical use of the Site as an airfield or the current use of the Site as the garrison Head Quarters for the 14 Signal Regiment (Electronic Warfare). However, previous intrusive investigations at the Site have identified sources of localised contamination in a limited number of areas on the site predominantly associated with hydrocarbon and asbestos. The risk posed to all identified human health receptors under current site conditions is considered to be **moderate/low** at the most. It is considered likely that the proposed future use of an area of the Site as a radar facility will present a continuation of the current type of site use (commercial and residential land use). The risk posed to controlled waters receptors under current and future land use is considered to be **moderate** at the most.

Potential risks presented to human receptors by identified sources of contamination under a future land use scenario could be mitigated through consideration of sustainable design, good construction practices and effective environmental management systems. However, it is noted that this would not mitigate risks to controlled water receptors.

1 Introduction

1.1 Involved Parties

Sweco UK Limited (Sweco) was commissioned by the Ministry of Defence to undertake a Phase 1 Land Quality Assessment (LQA) at Cawdor Barracks (the Site).

1.2 Site Identification

The Site is located in Penycwm, Pembrokeshire, Wales (postcode SA62 6NN) and is centred at National Grid Reference (NGR) 184837 224687. The site location is shown on Figure 1 and the site boundary is shown on Drawing 65200861-CAWDOR_LQ_Stg1_LQA_01. The Site covers an area of approximately 310 hectares (ha).

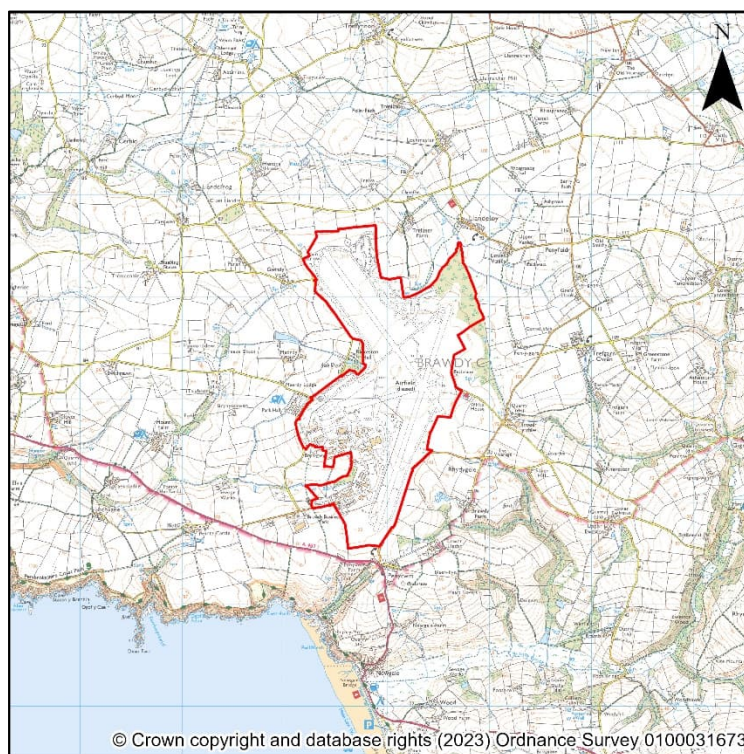


Figure 1 – Site Location Plan (not to scale)

1.3 Objectives

The purpose of this Phase 1 LQA has been to determine the environmental quality of the ground conditions at the Site and to assess the potential for human health and environmental risks. It is understood that the Site has been identified for the potential development of a radar facility as part of Project DARC. Continuation of the current commercial land use scenario has been considered in this Phase 1 LQA.

1.4 Project Background

The Site has been subject to a Phase 1 LQA completed by Entec UK Ltd in 2011 and two phases of intrusive investigation undertaken in 2012 (AMEC UK Ltd, formerly Entec UK Ltd) and 2015 (Amec Foster Wheeler UK Ltd). The above reports were reviewed as part of this Phase 1 LQA.

1.5 Project Scope

A summary of the methodology and approach adopted for completion of this Phase 1 LQA is presented in Appendix A.

1.6 Limitations

The study has been completed taking into consideration any operational and access restrictions. The report should be read in full and no excerpts are to be taken as representative of the findings. No responsibility is accepted by Sweco for the use of any part of this report in any other context.

The findings of Sweco's study are based upon the results of a desk based study and visual inspection of the Site and we rely upon professional judgement in its interpretation. This report presents the information obtained during the study and our opinion is based on the information made available to us during the given time period. Sweco has identified requested information that has not been provided to date. Sweco has exercised reasonable skill, care and diligence to assess information acquired during the preparation of this report but make no guarantee or warranties as to the accuracy or completeness of information provided by third parties.

1.7 Reliance

This report is prepared solely for the use of the Ministry of Defence (Client). No responsibility will be accepted where this report, either in its entirety or in part, is used by any other third party and no reliance shall be placed on the findings contained therein without prior written agreement from the Client and Sweco.

2 Site Description

2.1 Site Description and Adjacent Land Use

Table 2.1 provides a summary of principal site features and adjacent land use. The site layout is presented as Drawing 65200861-CAWDOR_LQ_Stg1_LQA_01.

Due to the variation in land uses, the Site is split into three discrete areas; the technical area/barracks area (with a combined area of 64 ha), and airfield (308 ha).

These areas are shown in detail on Drawing 65200861-CAWDOR_LQ_Stg1_LQA_01.

Site Description, Topography and Features	<p>The Site (Cawdor Barracks) lies within Penycwm, Pembrokeshire. The Site is the current garrison Head Quarters for the 14th Signal Regiment and can be split into three main areas: airfield; Technical Area, and Barracks. Cawdor Barracks also has a sewage treatment works, but this falls outside the boundaries of the Phase 1 area.</p> <p>The airfield comprises three redundant runways and associated infrastructure including dispersals, and a redundant Explosives Storage Area (ESA). A ground to air beacon is located centrally within the airfield. Former infrastructure in the airfield includes bulk fuel installations (BFIs), oil-water interceptors (OWI) and aircraft hangars. Such features have largely been demolished. Additionally, a spoil heap, tip/burning area, and former fire training area have been identified in the airfield. The airfield is now used by the army for training. A sports field and assault course has been established in the southwestern area of the airfield and a cross country running course has been set up in the northern area. Arms training is undertaken in the ESA in the north of the airfield. Dummy/blanks are fired alongside smoke grenades, blank trip flares, and training grenades. Due to the remote nature and spatial extent of the airfield, the 14th Signal Regiment use this area for specialist electronic warfare training exercises.</p> <p>Two clay pigeon shooting ranges are present within the airfield. Live ammunition is deployed at these locations.</p> <p>A rally track has been set up, as demarked by old tyres, in the northeastern part of the airfield. The airfield is also used by radio-controlled airplane club. Access by the public is limited at these events to members.</p> <p>Grassed areas on the airfield are mown under licence by three local farmers but there are also areas of dense scrub vegetation. A number of infilled quarries have been recorded within the airfield.</p> <p>The Technical Area and Barracks area are located within a secured compound. The technical area features a range of ancillary buildings and structures, including a secure compound used by the United States military. An operational BFI and paints, oils, and lubricants (POL) points are also located within the Technical Area. There is one vehicle washdown area currently in use. The Technical Area also features a 25m live firing range. The footprints of three demolished hangars are also visible in aerial imagery.</p> <p>The Barracks area consists of a series of accommodation blocks, mess halls and married quarters.</p> <p>The Site is positioned on a fairly flat plateau at an elevation of between 105 m Above Ordnance Datum (AOD) and 110 m AOD.</p>			
Ground Cover and Permeability	Type of Ground Cover		Area (% estimate)	
	Vegetation- grass meadow and scrub: high permeability		70%	
	Buildings, macadam/concrete runway, associated infrastructure (including roadways, pavements, and footprints of former hangars) and ESA: low permeability		30%	
Boundary Conditions and Adjoining Land Uses	Boundary	Estimated Length (m)	Current Status	Adjacent Land Use
	North	2000	Where accessible, the perimeter of the airfield was observed to be delineated by a short, barbed wire fence with associated warning signage. The condition of the fence was observed to be variable although the entire perimeter of the site was not inspected.	Adjacent land uses typically agricultural fields and scrub vegetation. Trefaner Farm and hamlet of Llandeloy beyond.
	East	2860		Adjacent land uses typically comprise agricultural fields and scrub vegetation. Newdale Lodge B&B and bunkhouse adjacent to the east. Hillcroft Escapes and Brawdy Farm retreats glamping sites within 550 m east.
	South	950		Agricultural fields adjacent to the south. Village of Penycwm and the A487 beyond.

	West	4000		Adjacent land uses typical agricultural fields, Rickeston Hall, and an unnamed rural access road with agricultural fields, and Park Hall Village Camp site beyond. A notable land use within the general vicinity of the western site boundary is the Brawdy Business Park which was the former NAVFAC compound.
Technical Area/Barracks-internal compound	North	1000	Chain linked fence topped with barbed wire. Observed to be in a good state of repair.	Airfield
	East	850		Airfield
	South	360		Airfield, agricultural field
	West	1800		Agricultural fields, undeveloped area of the airfield consisting of scrub vegetation currently used to graze wild ponies. Park Hall Village campsite. A residential property is present adjacent to the south-western extent of the Site.

Table 2.1 – Site Description and Adjacent Land Use

3 Site History

3.1 Historical Ordnance Survey Maps

A summary of the development history of the Site and surroundings is presented in Table 3.1, together with an assessment of the potential for the historical use to have impacted the Site.

Assessment of the likelihood that the historical activities documented have led to the generation of contamination is based on an evaluation of the typical raw materials/chemicals used, by-products and wastes generated by the basic operational processes associated with the broad land use description given.

Our assessment also takes into account the significance of ancillary operations that may typically be associated with the main activities anticipated to have been undertaken.

It should be noted that in addition to the above, site specific operations may have been undertaken with potential to generate contamination. The presence of such operations may not be directly obvious based on the generic descriptions given on historical maps.

For security reasons, publicly available mapping data does not always reflect actual land use layouts of sensitive and strategic assets and hence the historical maps may not record the site for this reason.

The summary of site historical development presented in Table 3.1 is based on interpretation of historical Ordnance Survey maps and aerial photography obtained from Landmark Information Group (report 305022956_1_1) contained in Appendix B, and review of Previous Phase 1 LQA reports.

Date	Historical Activity	Potential Contaminants	Potential for Impact on Site?
1887	Site is undeveloped. Land use typically agricultural with small tracks and homestead present within the footprint of the Site. Areas of marshland and natural springs are also illustrated within the footprint of the Site.	No significant potential for contaminants identified.	No
1906-1908	No significant changes and the Site continues to be characterised by agricultural use. A small quarry is located within the eastern boundary of the Site.	No significant potential for contaminants identified.	No
1944 1946-	The base (RAF Brawdy) opened as a satellite station for the nearby RAF St Davids. <i>Airfield</i> The aerial photograph shows the airfield largely in its present configuration, however the northern extent of the NE-SW trending runway is shorter and the current dispersals are not present. The dispersals at that time were triangular and were located off the internal airfield perimeter road at several locations. An old explosives storage area (ESA) (five buildings) located to the northwest of the current ESA. The aerial photograph shows hutted buildings constructed to the south of the tip area. The 'old BFI' and NAVFAC BFI are identifiable in the photograph. The facility was used to store furnace fuel oil for heating an offsite US Naval Facility. The NAVFAC BFI was connected to the US Naval Facility by a 4" (100 mm) diameter pipeline over a distance of 1.5 km to 2 km. <i>Technical Area</i> During this time development within the technical area included three main hangars, and ancillary buildings.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1946-1952	The Site was passed to the Fleet Air Arm of the Royal Navy in 1946 and renamed 'HMS Goldcrest' in 1952. Mapping from 1948 shows a sewage treatment works has been constructed.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of	Yes, potential for localised impact

Date	Historical Activity	Potential Contaminants	Potential for Impact on Site?
		unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	
1964	<p><i>Airfield</i></p> <p>Aerial photographs dated 1964 indicate that the NE-SW trending runway was expended northwards at this time. The original triangular dispersals are in various states of repair.</p> <p>The explosives storage area in the north of the airfield was constructed. The old ESA buildings have been demolished.</p> <p>Hangars 3, 6, 7, 8, 9, 10, and 11 were constructed in the western area of the airfield.</p> <p><i>Technical Area</i></p> <p>Despite site establishment in the 1940s, the majority of buildings within the technical area were constructed in the 1960s.</p>	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1974	<p>The Royal Air Force returned with D Flight of 22 Squadron taking residence.</p> <p>Caravan Park (Park Hall Village) established to the west of the Site.</p>	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1978	Sewage treatment works (off site) expanded to current configuration.	No significant potential for contaminants identified.	No
1983	<p><i>Airfield</i></p> <p>The ground to air beacon is shown in its present configuration.</p> <p>The square structure at the former FTA is identifiable in the photograph.</p> <p>Infrastructure associated with BFI2 identifiable within the photograph.</p> <p>The fuel bowser parking area is identifiable on the aerial image.</p>	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1992	<p>The RAF withdrew from the Site in the early 1990s.</p> <p>Rounded dispersals and Oil Water Interceptor (OWI 2 of 3) shown in their current configuration.</p> <p>Evidence of stockpiled materials at the site of the 'spoil heap' in the vicinity of BFI2.</p>	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1995-Present	<p>The Site is referred to as Cawdor Barracks and is the garrison headquarters for the 14th Signal Regiment.</p> <p>The technical and domestic was secured by an internal security fence to delineate it from the redundant airfield.</p> <p>The airfield continues to be used for personnel training.</p> <p>There have been small scale demolitions of buildings between 1995 to present.</p>	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
2000	The former US Naval Facility located offsite is shown to be used as a business park (Brawdy Business Park).	There is potential for the storage of fuels and chemicals at the business park.	No

Table 3.1 - Summary of Historical Development

3.2 Historical Site Plans and Records

No historical plans provided during the site walkover. The Previous Phase 1 LQA includes information provided part of the previous heritage archive search.

3.3 Dstl Radiological Search

Defence Science and Technology Laboratory (Dstl) completed a radiological records search for the Site in July 2020 (Appendix C).

The MOD Radioactive Holdings Database stated the 14th Signals Regiment held radioactive materials at the Site. These sources were tritium (H-3), also referred to as gaseous tritium light sources (sight unit small arms (SUSTA) rifle scopes). The unit previously held equipment containing nickel-63, chlorine-36, and Strontium-90.

Brawdy Dental Centre was located on the Site, however the dental centre did not hold any radioactive material (X-ray only).

Records suggest that a number of radionuclides were held as part of military equipment and legacy items when the site was operated as RAF Brawdy. These nuclides include chlorine-36, strontium-90, promethium-147, radium-226, natural uranium and americium-241.

Dstl reviewed their archive information as part of the radiological records search. A previous desk study for Cawdor Barracks was undertaken by Dstl in November 2010 which concluded that the likelihood of radiological contamination issues at Cawdor Barracks is deemed low. Prior to 2010, a DRPS desk study was undertaken in 1997 which also stated that it was unlikely that there is any significant radiological contamination at RAF Brawdy.

Dstl could not find any published information (held on the MOD intranet/public internet sources) regarding radiological contamination at the Site and there were no records of any radiological contamination surveys identified. No contamination issues were flagged in previous radiation protection advisory visit reports for the 14th Signal Regiment.

After reviewing desk study information, Dstl concluded (to the best of their knowledge) that they were not aware of any radiological contamination at Cawdor Barracks.

3.4 Unexploded Ordnance

A summary of UXO Estate Intelligence for the Site was completed by DIO in July 2019 (Appendix D). The summary identifies potential sources of UXO contamination as follows:

- Two former ESAs located on site. The Previous Phase 1 LQA records that small arms ammunition (SAA) and pyrotechnics are now stored in the armoury and that SAA is also held forward in the guardroom for use by security personnel;
- The Previous Phase 1 LQA states that there was a .22 calibre small bore range on the Site, although the location is not confirmed. The LQA also contains a Site Plan which shows Aircraft shooting in butts located on site (Grid Reference SM 847 254). A machine gun and cannon range was originally located at Grid Reference SM 848 244, and this was converted to a small arms range before being demolished and replaced by the current 25 m Small Arms Range located at Grid Reference SM 848 243;
- Parts of the former airfield are currently used as a training area (dry training). Spent small arms cartridges were observed within the former ESA area during the site inspection;
- There are no indications of a practice bombing range on site;
- No WWII anti-invasion defences (demolition and depth charges, minefields, and pipemines) were recorded on site;
- There are no records of abandoned bombs on the site;

- No information is held relating to enemy bombing;
- No RAF WWII Chemical Weapons (CW) were recorded as being used at the site. RAF Command Scientific Support Branch (CSSB) WWII CW Legacy report dated March 1999 assesses the site as Cat 5 suggesting it is very low risk where some ground training occurred using live agent, and;
- The previous Phase 1 LQA contains a 'Certificate of Search for Clearance of Explosive Materials and Other Dangerous Goods' which was issued in October 1995 prior to site handover from the RAF. The search was largely visual and likely completed by the station and not Explosive Ordnance Disposal personnel.

3.5 Historical Air Photographs

Historical aerial photographs are provided by the Welsh Government's Aerial Photos Unit online map. The Welsh Government's Aerial Photography Unit (APU) map viewer provides two historical aerial photographs of the Site. The aerial photograph dated 1969 shows the airfield in current configuration, hangars and buildings within the technical area and accommodation areas. Triangular dispersals shown to be on site which are later replaced by the current configuration in 1992. The aerial photograph dated 2013 provided on the APU map viewer shows there has been demolition of hangars on the Site.

Additional historical aerial photographs have been provided in the previous Phase 1 LQA (summarised in Table 3.3). All photographs reviewed indicate the presence of the RAF airfield and infrastructure and are provided in Appendix E.

Date	Ref.	Description of Key Points/Observed Land Use
1946	National Monuments Record (provided with previous Phase 1 LQA)	Aerial photograph shows airfield runways, dispersals and buildings in the current technical area. Evidence of former ESA in the north of the airfield.
1964		Aerial photograph shows there have been expansions to the northeast-southwest trending runway. ESA shown in current configuration. Additional hangars constructed. Removal of some dispersal areas.
1969	Welsh Government's APU map viewer	No significant changes noted in the aerial photograph.
1983	National Monuments Record (provided with previous Phase 1 LQA)	No significant changes noted in the aerial photograph.
1992		Current dispersal layout identified within aerial photograph. Additional buildings have been constructed within the Technical Area.
2000		No significant changes noted in the aerial photograph.
2006		Demolition of some of the hangars. No further significant changes noted in the aerial photograph.
2013	Welsh Government's APU map viewer	Hangars demolished. Demolition of eastern extent of one of the runways.

Table 3.2 - Historical Air Photographs

3.6 Previous Investigations and Reports

Previous reports listed in the references (section 9) have been reviewed by Sweco. Table 3.4 provides a summary of the scope of each of the previous reports.

Report Title	Date/Author	Summary of Scope
Hardened Aircraft Shelters, March 1987. Internal Military Works Force Report	Internal Military Works Force March 1987	(Summary provided in Entec Phase 1 LQA (dated 2011)). Intrusive investigation (12 trial pits and nine boreholes) to identify potential sites of nine hardened aircraft shelters. Follow-up radiological investigation undertaken by Dstl
RAF Brawdy (FTA) Phase 1 and Phase 2 Combined Report	Entec UK, 1998	(Summary provided in Entec Phase 1 LQA (dated 2011)). Intrusive investigation of the FTA comprising three rotary boreholes to a depth of 10 mbgl and ten trial pits progressed to a maximum depth of 3.7 mbgl.
RAF Brawdy (BFI 1) Phase 1 and Phase 2 Reports	Entec UK 1995 and 1998	(Summary provided in Entec Phase 1 LQA (dated 2011)). Investigation of soil and groundwater contamination at the BFI 1. A total of four rotary boreholes were progressed to a maximum depth 10 mbgl and 20 No. trial pits were excavated to a maximum depth of 4 mbgl.
RAF Brawdy (Cawdor Barracks) Groundwater Monitoring Interpretative Report	Entec UK 2001	(Summary provided in Entec Phase 1 LQA (dated 2011)). Groundwater monitoring of boreholes at the FTA and BFI 1. Monitoring was undertaken on four occasions at 3-monthly intervals between September 1999 and 2000.
Cawdor Barracks- Groundwater Monitoring Letter Reports	Entec 2009 and 2010	Two rounds of groundwater monitoring of functional boreholes located at the FTA and BFI 1.
Phase 1 LQA	February 2011 Entec UK Ltd	Entec UK Ltd completed a site-wide Phase 1 LQA of the Site and identified a number of potential contamination sources related to historical and current land uses. The Phase 1 LQA also includes reference to the sewage treatment works that forms part of the Site but is excluded from this current Phase 1 LQA.
Phase 2 LQA	February 2012 Amec Environment & Infrastructure UK Ltd (Amec)	Amec completed a Phase 2 LQA, targeting the following sources of contamination: <ul style="list-style-type: none"> • Former BFIs (including BFI1, Old BFI, BFI2 and the NAVFAC BFI) • NAVFAC BFI Pipeline • Former fire training areas • Former fuel storage facilities • Workshops including POL Point, POL store and waste oil • Fuel bowser parking and inspection areas, and • Former site tip/burning area • Former ESAs and historic 25 m firing range • Known asbestos contaminated land area • Demolished buildings The Phase 2 investigation also included radiological survey of the tip/burning area and fire training area. Route tracing of the NAVFAC buried pipeline was also undertaken.
Cawdor Barracks- Targeted Groundwater and Vapour Assessment LQA Report	July 2015 Amec Foster Wheeler	This Phase 2 LQA focussed on three areas within the airfield: <ul style="list-style-type: none"> • The fire training area • The old BFI • BFI 1

Table 3.3 – Summary of Previous Reports

Relevant information is provided below and information relating to ground conditions is provided in Section 6.

Phase 1 LQA, Entec UK 2011

The Phase 1 LQA lists the following potential historical sources of contamination:

- Motor transport (including aircraft) maintenance;
- Aircraft operations including historic aircraft parking of the Vulcan Bombers and their nuclear munitions. The Vulcan Bombers were parked on the airfield or local dispersal and not stored in hangars or disarmed in any way. The Vulcan Bombers were vulnerable to fuel leakage but there was evidence to suggest significant, local refuelling was concentrated around the aircraft dispersals. There is little to no potential for radioactive contamination to be present on site as a result of this activity;
- Explosive storage and use of small arms munition;
- Waste disposal and burning of waste;
- Former waste transfer/storage area;
- Former distribution substations;
- Former engine test house;
- Former standby generator houses;
- Hangars;
- Workshop facilities;
- Disused OWI;
- Made ground embankments across the site including near sports pitches;
- Bulk fuel and oil storage with associated handling operations and dispensing;
- Movement of fuel oil via below ground pipeline from NAVFAC BFI to off-site US Naval Facility;
- Lower volume fuel and chemical storage and dispensing (POL Points and workshops);
- Firing ranges;
- Fire training areas;
- Building demolition;
- Former buildings containing asbestos including hutted buildings to north and west of Building 468 and church;
- Area of known asbestos contamination near the Quarter Masters Stores, and;
- Aircraft parking, airfield use and crashes.

Previous reports are also summarised within the Phase 1 LQA. The following salient points are provided in relation to the previous reports:

- The Hardened Aircraft Shelter investigation (1987) identified the former tip area/ burning site in the northern extent of the airfield. Anecdotal evidence at the time suggested an unspecified quantity of radioactive valves may have been disposed of in the tip. A non-intrusive radiological investigation was undertaken by Dstl subsequent following the intrusive investigation. No elevated readings were reported though no sub-surface investigation was undertaken;
- The Phase 1 and Phase 2 combined report by Entec UK (1998) reported weathered fuel-based hydrocarbons at low levels within soils across the FTA. Locally elevated levels of kerosene type banded hydrocarbons were encountered within the groundwater at this location. The highest concentrations were recorded near the OWI in the vicinity of the FTA. Recommendations were made to clean the interceptor and establish a monitoring programme to assess the potential for natural attenuation;

- The Phase 1 and 2 Reports of intrusive investigation at the BFI 1 (Entec UK 1995 and 1998) cites anecdotal evidence of complaints made in 1969 relating to oil migration from BFI 1 into the adjacent property of Rickeston Hall (basement and pond). In response to the complaints the Defence Lands staff took steps to investigate a large circular tank by having it emptied and inspected for leaks. Additionally, a trench was excavated between the tank and the boundary fence to identify oil seepage. Improvements to an OWI were also undertaken. Results of the tank and trench investigation revealed 'virtually no oil seepage at all' and no further correspondence reports were provided. An updated intrusive investigation of BFI 1 was undertaken by Entec UK during which weathered kerosene diesel and carboxylic acids were present at low concentrations in the soil and locally elevated concentrations of gasoline and kerosene banded hydrocarbons were found within the groundwater, and;
- Supplementary groundwater monitoring of boreholes at the FTA and BFI 1 was undertaken between September 1999 and June 2000, and in 2009 and 2010. The later monitoring suggested there was still a source of free phase or residual hydrocarbons present in the BFI 1 area. A source of free phase and/or residual hydrocarbons was present in the FTA, but predominantly down slope of the elevated 'fire pit'. The data suggested that active degradation was still occurring at that location.

The Phase 1 LQA assessed the following sources as having a significance of moderate or higher:

- BFI 1 - constructed in the 1950s and 60s and stored AVTUR F34 FSii in 10 No. 54,500 litre above ground tanks mounted on a concrete plinth and bunded within a 1.9 m high firewall. Drainage within the bunded area was routed to a buried oil interceptor tank (demolished). One semi buried circular tank with a capacity of 772,000 litres was also located at the site of the BFI 1. The tanks were removed and the circular tank was partially demolished and completely filled in;
- Old BFI – fewer details are available regarding this installation but it is understood to have potentially comprised 6 No. semi-buried tanks of an unspecified capacity. The tanks were filled with concrete when the facility was decommissioned in 1993;
- BFI 2 - comprised two semi-buried tanks with combined capacity of 1.5 million litres (storing AVTUR F34 FSii), one above ground Plant Dieso (diesel) tank with a capacity of 8,000 litres and one slops tank with a capacity of 5,500 litres (containing AVTUR F34 FSii). The facility was believed to have been decommissioned in 1997 but verification data relating to the decommissioning is not available;
- NAVFAC BFI and associated NAVFAC BFI pipeline - there were 6 No. of diesel oil tanks with a combined capacity of 330,000 litres. The facility is thought to have been decommissioned in 1997 but the quality of decommissioning cannot be verified. Considering the dimensions, approximately 15,700 litres of heating fuel oil may have remained within the NAVFAC BFI pipeline which connected the BFI with the NAVFAC using a 4 km long 4" diameter pipeline. Anecdotal information reviewed at the time of the report suggested that a contractor cut into the pipeline believing it to be a water pipe and heating fuel oil leaked out to the ground. The route of the pipeline was traced as part of the scope of works;
- FTA - Flammable materials such as kerosene were floated on water retained within the brick and concrete 'tank-like' structure. The flammable materials were ignited and extinguished during training exercises. The residual mixture of water, part burnt and residual flammable liquids was drained to a series of six oil interceptors, eventually discharging to ground via a soakaway;
- Former fuel storage facilities including NAVFAC and Building 5 POL points;
- Furnace fuel oil installation north of Hangar 7 - Two bulk tanks of unsubstantiated capacity contained 3/50 FFO (DIESO) used to fuel space heating within the main hangars. The tanks were located on hardstand within a concrete bund. The condition of the tanks and bunds at the time of decommissioning was not known;

- Site boiler house heating oil tanks - two bulk storage tanks with an estimated capacity of 50,000 litres which contained 3/50 FFO (Dieso) were decommissioned and removed circa 1992. They appeared to have been located on hardstand within a brick/concrete bund but this was not confirmed;
- Former standby generator and two standby generators - Former site standby generator House (building 231) had two above ground fuel tanks with individual capacities of 20,000 litres (Dieso). Discussion on site suggested that the tanks were located below ground and filled with foam as part of their decommissioning;
- Former engine (Ardour) test house - One associated above ground fuel storage tank with a volume of 23,000 litres of AVTUR F34 FSii. The condition of this tank and associated infrastructure prior to removal was not known;
- Former cinema - 45,000 litre below ground tank that may have contained fuel oil for heating purposes. In 1981 it was noted to be water filled and unserviceable;
- Workshops including current POL Point, POL store and waste oil;
- Fuel bowser parking and inspection areas in the vicinity of former Hangar 11 - 11 No. fuel bowsers with a combined capacity of approximately 115,000 litres. No records of spillages or leaks in this area are kept, and;
- Former site tip/burning area.

The following sources were also investigated as they were thought to present a potential liability should there be a change in site use:

- Former ESAs and historical 25 m firing range;
- Known asbestos contaminated land area, and;
- Demolished buildings (historical- 3 infilled quarries/gravel pits).

Phase 2 LQA, Amec UK 2012

A phase 2 LQA investigation was undertaken targeting pollutant linkages previously assessed as having a significance of “moderate” or higher within the previous Phase 1 LQA (Entec UK, 2011).

The ground investigation was undertaken between 25 July and 12 August 2011 and comprised 23 rotary boreholes, 38 window sample holes, 14 hand dug pits, 8 surface samples (within the ESA), and 24 machine excavated trial pits.

In addition to the intrusive investigation, a specialist service utility tracing contractor was commissioned to locate the route of the NAVFAC pipeline.

Entec concluded that the majority of the areas investigated were suitable for the current use without the need for significant mitigation or remedial measures to protect site users.

Contamination of the groundwater and soils at discrete locations of the site was unlikely to present a significant pollutant linkage. The potential for cross boundary migration of hydrocarbons in groundwaters and vapours in the vicinity of the adjacent Rickeston Hall was not ruled out.

With regard to the suitability of the Site for redevelopment and commercial/industrial end use, Entec UK suggested there was a low to moderate/low risk to future site users and a moderate risk is assessed relating to the potential for exposure to explosive ordnance in the former ESA and firing range (referred to in the report as ‘Zone 5’). Entec UK stated that the recorded presence of asbestos within soils and potentially within buildings may need to be addressed and recommended further assessment to quantify the risk associated with groundwater contamination and vapour.

In addition to the intrusive investigation, a radiological walkover survey was also completed covering the former site tip/burning area and the FTA. Radiological activity was greatest within the FTA, although readings were not significantly in excess of background levels and remained below levels for ‘waste exempt from requiring a permit’ (805.54 counts per second).

Cawdor Barracks - Targeted Groundwater and Vapour Assessment LQA Report, Amec Foster Wheeler, 2015

The intrusive investigation targeted the Old BFI, BFI 1 and FTA due to the previous assessed moderate risks to controlled waters and potentially unacceptable risk to neighbouring residents (Rickeston Hall) from hydrocarbon vapours.

The following conclusions were reported:

- The interceptor at BFI 1 was noted to be well maintained;
- The location of the Old BFI was identified and trial pitting confirmed the presence of six sand filled tanks. The sand was observed to be stained and had a slight hydrocarbon odour. Water was noted within one of the tanks potentially indicating the integrity of this tank has been maintained;
- Groundwater was encountered within the Secondary B mudstone aquifer. Measurable free product was only identified on one occasion during the site investigation and three subsequent monitoring rounds. Olfactory evidence of hydrocarbons was identified at some locations in the FTA, BFI 1 and Old BFI. Hydrocarbons reported were of generally low solubility and mobility;
- The vapour monitoring and assessment on the eastern boundary of BFI 1 has indicated that vapour is unlikely to lead to unacceptable concentrations of hydrocarbons in Rickeston Hall. Risks to neighbouring site users from vapours in groundwater were assessed as low;
- Risks to groundwater are assessed as moderate/low, risks to surface water assessed as moderate/low to low, and;
- Free product (light non-aqueous phase liquid) has occasionally been identified on groundwater at BFI 1, the Old BFI and at the FTA but monitoring over several years indicates that the thickness is low and unlikely to be present in sufficient quantity to be recoverable and the potential for significant lateral migration of free product is limited in the fractured mudstone bedrock.

3.7 Discussions with MOD Representatives

The following information relating to historical site activities was provided by site personnel during the Site reconnaissance. The Site does not currently hold any documentation relating to activities undertaken when the Site was operated as RAF Brawdy:

- There have been no warnings, prosecutions or enforcement actions served against the Site by any Government entity relating to pollution of soil, surface water or groundwater;
- There are no known areas of waste burning or tipping in addition to those identified in the Phase 1 LQA dated 2011;
- No remedial activities (soil and groundwater) have been undertaken at the Site;
- There was an anecdotal verbal suggestion of a historical 'aviation spill' at the site. No further corporate knowledge is available to confirm whether this occurred. Previous Phase 1 LQA report and subsequent Phase 2 LQA reporting does not reference make reference to an 'aviation spill';
- There are no pending environmental enforcement actions against the site, and;
- There are no notices, or claims for the cost of remedying any hazardous substance allegedly released at, or from, the Site.

Site History Summary

- The Site was established as a satellite station for the nearby RAF St David's in 1944 before being occupied by the Fleet Air Arm of the Royal Navy in January 1946 and named HMS Goldcrest in 1952.

- In February 1974 the Royal Air Force returned with D Flight of 22 Squadron taking up residence. The RAF withdrew in the early 1990s and the Royal Signals Regiment took over the Site. The Site was named Cawdor Barracks.
- Surrounding land use typically comprised agricultural land use, however a US Naval Facility was set up off-site circa 1946 (but detailed to have been built in 1957). A NAVFAC BFI was established on site and connected to the off-site facility via a 2 km pipeline. The off-site facility is likely to have been decommissioned in 1997.
- Several historical sources of contamination have been identified within the airfield, technical area, and barracks area. These sources are largely historical bulk fuel storage tanks, areas of tipping and burning, a fire training area and asbestos contaminated soil.

4 Regulatory Records

Information held on public registers and by third parties¹ has been reviewed and a summary is presented in Table 4.1. Distances are taken from the site boundary to the centre point of the potential source. Comment is given regarding the potential for any such process / activity to affect the Site.

Type of Record [No. recorded within 500 m]	Details	Potential for Impact on Site?
Recorded pollution incidents to controlled waters [13]	<p>13 pollution incidents recorded within 500 m radius of the Site.</p> <p>The nearest, a Category 2 – Significant incident, recorded 39 m west relating to the accidental spillage of crude sewage released to an unnamed receiving water in 1991. A further Category 2 incident was recorded on the same day 40 m to the north east relating to oil/diesel spillage.</p> <p>Numerous pollution incidents occurred within 500 m of the Site in 1996, the closest (67 m west) relating to the discharge of crude sewage and diesel from a leaking tank resulting in Category 3 – Minor incidents.</p> <p>No pollution incidents have been recorded post-1996.</p> <p>No pollution incidents have been recorded as being on site.</p>	No potential
Discharge Consents [3]	<p>Three discharge consents within 500 m radius of the Site. The closest discharge consent permits the release of final, treated effluent into land 197 m west of the Site (Park Hill Caravan Park). The remaining discharge consents relate to the release of storm overflow into unnamed tributaries of the River Solfach (192 m north) and Cwm Mawr Stream (273 m south).</p> <p>Ancala Water Services (Estates Ltd) hold two consents (Permit references BP0239501 and BP0269801) to discharge final treated effluent from Cawdor Barracks sewage treatment works into Brawdy Stream (approximately 800 m west of the Site).</p> <p>The Site holds an Ancala Water Services Consent to Discharge vehicle washdown effluent to the foul sewer (Reference AWSTE TE001XA038)(Appendix F).</p>	Limited potential for impact.
BGS Recorded Mineral Sites [8]	<p>There are three recorded mineral sites on site; Rickeston and Tre-Gynnydd (sand and gravels), and Croes-Wen (sandstone).</p> <p>There are a further five mineral sites recorded within 500 m of the Site and 12 located between 500 m and 1 km of the Site.</p> <p>None of these records are active.</p> <p>Brawdy Farm sandpit is located adjacent to the east of the Site. Although not an active extractive site, it is protected by a Mineral and Quarry Site Buffer which extends to within the southern extent of the airfield.</p> <p>Although mapped as present beneath the Site, superficial deposits have not been safeguarded by the Local Authority.</p>	Potential for contamination depending on fill materials used (current plans would suggest these sites have all been infilled).

Table 4.1 – Public Registers Review

¹ Records reviewed included waste sites (current and historical landfill sites and licenced waste management facilities including waste transfer sites and waste treatment or disposal sites), hazardous substances (Control of Major Accident Hazards Sites, explosive sites, Notification of Installations Handling Hazardous Substances, Planning Hazardous Substance Consents, Planning Hazardous Substance Enforcements), Geological (BGS recorded Mineral sites) and Agency (Discharge consents, pollution incidents to controlled waters, substantiated pollution incident register, registered radioactive substances, Integrated Pollution Controls, Integrated Pollution Prevention and Control, Local Authority Pollution Prevention and Controls and Local Authority Integrated Pollution Prevention and Controls).

Summary

- Ancala Water Services (Estates Ltd) hold two consents (Permit reference BP0239501 and BP0269801) to discharge final treated effluent from Cawdor Barracks sewage treatment works into Brawdy Stream.
- The Site has not been attributable for any substantiated pollution incidents.
- There are three ceased BGS recorded mineral sites within the boundaries of the Site. Former Brawdy Farm sandpit located adjacent to the east of the Site is protected by a Mineral and Quarry Site Buffer which extends to within the southern extent of the airfield. Where present, superficial deposits beneath the Site are not safeguarded by the Local Authority.
- Current surrounding land uses have limited potential to generate contamination that would cause impact to the Site.
- Former mineral extraction sites on and within the vicinity of the Site are assumed to be infilled. There is potential for contamination and ground gas derived from the fill materials.

5 Site Reconnaissance

An inspection of the site area and neighbouring land use was undertaken on 22 and 23 November 2022 by Sweco. Permission was gained through the MoD to visit the Site. A summary of site activities observed during the site reconnaissance is provided below. Photographs taken during the site visit are included in Appendix G.

Topic	Description	Notes & Comments
Visual / Olfactory Evidence of Contamination	<p>No evidence of visual or olfactory contamination was noted during the site walkover.</p> <p>Localised spillages of fuel occur at the operational BFI/ POL points but no substantial spillages have been reported.</p> <p>Oil/waste oil is stored within a secured hard stand compound. Diesel tank within this compound featured integral bunding and anti-collision barrier. Jerry cans were observed to be unbunded but the storage compound features sealed drainage which lowers the risk of associated with accidental spillages or leakage. Spill kits were present within the compound at the sites of the operational BFI and POL points.</p>	<p>The Site has an emergency spill response plan and spill response drills are undertaken annually. All waste oils were stored in a secured hardstand compound. Crash protection in place for integrally banded diesel tank.</p>
Explosive Ordnance and Radiological Materials	<p>Evidence of spent dummy/blank ammunition recorded during the inspection of the ESA within the airfield.</p> <p>Evidence of spent live ammunition in the vicinity of the Clay Pigeon shooting ranges.</p> <p>Explosive ordnance is stored in the armoury with the Technical Area, with small quantities held at the main gate and guardroom.</p> <p>The Site has facilities to store radioactive material (sealed source only) within the armoury Building 242. Sources of radiation are sight unit small arms (SUSAT) rifle scopes containing tritium (gaseous tritium light sources, GTLS) and X-ray materials held at the barracks dentist.</p> <p>There is no corporate knowledge relating to known burning of radiological materials on Site. Minor breakages of equipment containing radiological materials are controlled locally and then disposed offsite via the Dstl. Radiation orders are held on site and the unit has a radiation offer (Technical Quartermaster).</p>	<p>No EA authorisation for storage of GTLS is required. Restricted access only.</p>
Environmental Permit Regime	<p>Site personnel have confirmed that that Site is not subject to processes or activities requiring an environmental permit</p>	<p>Limited potential for site activities to result in contamination.</p> <p>Good environmental management systems in practice. Storage of potentially contaminative materials in secured compounds or within storage buildings.</p> <p>Adequate provision of spills kits observed.</p>
Site utilities	<p>The site is occupied by 14th Signal Regiment. Gas, electricity, water, telecommunication utilities were observed on the Site.</p> <p>Sweco have been provided with a service drawing dated July 2010 (Appendix H). The plan indicates that services within the airfield include gas, low voltage electrical cable, and high voltage electrical cable.</p>	<p>Live utilities exist on site.</p>

Topic	Description	Notes & Comments
Site Drainage and Waste Water	<p>The site uses separate drainage systems for surface water and foul water.</p> <p>Sewerage produced is treated at the off-site sewage treatment works (part of Cawdor Barracks but not included within the current study area as outside the wire).</p> <p>A series of redundant OWIs were observed during the reconnaissance of the airfield. No obvious signs of sheen or odours were noted. Surface water drainage present in the airfield (adjacent to runways).</p> <p>Surface water from the current BFI/POL points is drained to three OWIs. OWIs are emptied and waste (including built up oils and greases) is disposed of by ANCALA under contract.</p> <p>A plan showing the locations of the OWIs is presented in Figure 2a Site Layout within the previous Phase 1 LQA Report (Entec 2011).</p>	<p>Ancala Water Services hold a consent to discharge treated effluent from Cawdor Barracks Sewage Treatment works, only.</p>
Trade effluent	<p>The Site currently holds an Ancala Water Services trade effluent discharge consent for vehicle washdown effluent (reference AWSTE TE001XA038. The effluent is discharged to the foul sewer.</p>	<p>The authorisation is aligned with the Environment Agency consent held by Ancala Water Services.</p>
Storage Tanks (fuel, chemicals and storage of hazardous substances)	<p>Ground maintenance store located in Building 239 (equipment, fuels and chemicals) (former explosives store).</p> <p>Bulk fuel installation within the Technical area (Building 666). Secured compound containing used oils, diesel, kerosene and lubricants. Wastes stored in jerry cans, IBCs and an integrally banded diesel tank. No significant bunding of this compound, however wastes are stood on hardstand, there is crash protection around the diesel tank and spill kits located within the compound. Surface water falling within the compound drains to an interceptor.</p> <p>Operational POL- Tank 1 (capacity 19,775 litres), Tank 2 (27,422 litres).</p> <p>Operational BFI- underground storage tank with a capacity of 7,000 litres.</p> <p>Building 695 (guardroom locked store) has one waste oil tank (2,275 litres) and one waste coolant tank (1,500 litres).</p>	<p>The operational below ground POL tanks will be replaced by one above ground diesel storage tank. The capacity of the tank will be 25,000 litres and it will be double skin and positioned in a bunded area.</p> <p>Inspection and maintenance will be six monthly under VIVO contract.</p>
Waste Management	<p>Waste management at the Site is contacted to Veolia. There are numerous waste storage points (general waste and recyclable waste) across the Technical Area.</p> <p>Cawdor Barracks is registered as a Hazardous Waste Producer (Registration number CAA422).</p> <p>Waste oil was stored in drums in the oil storage compound within the technical area.</p>	<p>Environmental management of waste materials was observed to be good. Excessive waste material is avoided. Wastes are sorted and recycled where appropriate.</p> <p>Historically waste practices were not subjected to legislation.</p> <p>There is a former tipping area on the airfield and evidence suggests burning of waste may have occurred in this area. No evidence of this was recorded during the reconnaissance.</p>
Asbestos Containing Materials (ACMs)	<p>A number of buildings have been identified as containing Asbestos Containing Materials (ACMs). An asbestos register and management plan has been produced for the Site and is updated on an annual basis. The Register is held as a hard copy on site, only.</p>	<p>An asbestos register is maintained on site. The register is updated annually following inspection.</p>

Topic	Description	Notes & Comments
	An asbestos contaminated area (buried at depth) has been identified immediately to southeast of the former hangar or shelter to the south of Hangar 18. This area forms a raised area of landscaped ground with slopes comprising mown grass. The elevated surface of this area was concrete and housed three metal storage containers. Warning signage was noted at this location during the site visit.	
PCBs, electrical equipment and transformers	<p>A number of electrical substations are present within barracks area.</p> <p>The previous Phase 1 LQA states that during the site upgrades prior to the arrival of 14 Signals Regiment, the existing high voltage (HV) network was modified. The project removed and disposed of the transformers and the oils that they contained. No waste transfer notes are held and no further information was provided as part of the current site reconnaissance.</p>	Potential for limited hydrocarbon/ PCB contamination on site associated with former use but likely to be very localised.
Incinerators / Burning Grounds	<p>Site personnel confirmed that no burning of waste is undertaken on the site.</p> <p>No evidence of recent burning was recorded during the site walkover, including in the former tip/burning area.</p> <p>Square brick and concrete structure evident at the location of the Former Fire Training Area. This structure featured a gravel fill (including waste materials such as concrete, metal, glass, and bituminous materials). Some relict charred wood identified but no evidence of widespread burning.</p>	<p>Potential for historic burning activities in the airfield.</p> <p>No evidence of burning recorded in the former tip/burning area during the walkover.</p>
Landscaped Areas	<p>A linear landscape feature (vegetated mound) was observed running north-south at the southern extent of the airfield.</p> <p>A landscaped area exists to the southeast of a former hangar/shelter to the south of hangar 18. This forms the asbestos contaminated area.</p> <p>Additionally, there is a landscaped area around the perimeter of an area of carparking in the vicinity of the entrance into the airfield, sports pitches in the technical and Barracks areas, and an assault course in the airfield.</p> <p>Grassed areas around the runways are used for farmers (under licence) for grass cutting (production of silage).</p> <p>Localised areas of infilling noted within the airfield.</p> <p>Made ground is likely to exist in these areas.</p>	Made ground of unknown origin. Potential to contain PAH, ACM metals.

Table 5.1 - Summary of Site Reconnaissance

Summary

- Review of available documentation, authorisations and consents indicated no breaches in regulatory compliance.
- The site was operational well managed facility.
- Storage of chemicals and ordnance were observed to be generally appropriate with chemicals and ordnance well documented. All COSHH storage was located on hardstanding.

- Visual and olfactory observations did not reveal any evidence for the presence of widespread or significant contamination arising from current site practices.

6 Environmental Setting

An evaluation of the environmental setting of the Site and surroundings has been determined by Sweco from a study of the relevant geological map BGS 1:50,000 Sheet 209 (St Davids), BGS digital geological map data (DigiMapGB-50) and environmental data supplied in the Landmark report (ref. 305022956_1_1 see Appendix B).

6.1 Geology and Hydrogeology

Based on available data taken from the BGS and the previous Phase 2 LQA undertaken by Amec Environment & Infrastructure Limited between July and August 2011 which largely included exploratory locations in the airfield and technical area. The following geological conditions and groundwater sensitivities have been determined:

Geology	Aquifer Status & Groundwater Abstractions	Potential for Baseflow	Sensitivity Assessment
Made Ground	N/A	Moderate — Due to the topography of the site, there is potential for made ground to be in hydraulic continuity with the unnamed streams adjacent to the boundaries of the Site.	N/A
Superficial geology Largely absent across the site. Localised superficial deposits: Glaciofluvial Deposits (Devensian)/ Glacial Till (Mid Pleistocene)	Glaciofluvial Deposits: Secondary A Aquifer Glacial Till: Secondary Undifferentiated. Site not located in a source protection zone. No groundwater abstractions within 1 km of the Site	Moderate — The Glaciofluvial deposits are classified as a Secondary A Aquifer. A Low potential for baseflow is anticipated for the Glacial Till as this stratum is considered to be of relatively low permeability.	Low-Moderate / Low based upon the aquifer designations and absence of groundwater abstraction licences held within 1 km of the Site.
Solid geology Central area— Lingula Flags Formation (Cambrian): sandstone and mudstone Northern set extent— Triffleton Group (Ordovician): sandstone Southern extent— Ramsey Sound Group (Ediacaran): Tuff Two unnamed igneous intrusions (central)	Bedrock is classified as a Secondary B aquifer Site not located in a source protection zone No groundwater abstractions within 1 km of the site	High — The mudstone bedrock was recorded relatively close to the existing ground level during previous intrusive investigations at the Site (from depths of 0.4 mbgl in the airfield to 8.2 mbgl in the Technical Area). As the Site forms a natural plateau, groundwater flow is shown to be radial from the centre of the Site. There are a number of springs on the western and eastern site boundaries that feed unnamed surface water courses.	Low based upon the designation of both the overlying superficial deposits and the solid geology and absence of groundwater abstraction licences held within 1 km of the Site.

Table 6.1 - Geology & Hydrogeology

Ground conditions were reported by site area within the Amec 2012 Phase 2 LQA, and are summarised as follows:

Airfield (excluding tip area)

Surface cover largely comprised long grass or brambles over a topsoil with frequent rootlets. Localised hardstand (macadam, gravel sub-base of concrete and bituminous materials) was reported at one location. Evidence of spent ammunitions cartridges was recorded within the ESA.

Made ground was encountered in the majority of exploratory hole locations in the airfield and was typically recorded between 0.2 mbgl and 1.2 mbgl and to a maximum depth of 2.6 mbgl. Made ground comprised sandy gravelly clay, clayey gravelly sand and silt with occasional cobble content of brick, concrete, mudstone, sandstone and igneous rock. Anthropogenic gravel constituents included brick, concrete, metal fragments, clinker, bitumen, tile, and ceramics. Thicker deposits of made ground were recorded in the old BFI and BFI 2 (maximum depth of 2.6 mbgl) and NAVFAC BFI (potential foundations up to 2 mbgl). Reinforced concrete was recorded between 0.4 mbgl and 0.8 mbgl in the NAVFAC BFI.

Within the airfield, superficial deposits were recorded as sand and gravel drift, firm gravelly clay with cobbles of mudstone identified as Glacial Till and weathered mudstone. These superficial deposits were encountered between the existing ground level and 3.3 mbgl and had a thickness ranging between 0.15 m and 3.2 m. Mudstone bedrock was typically recorded from 0.4 mbgl to 3.3 mbgl to a maximum unproven depth of 15 mbgl.

Former Tip Area

With the former tip area, surface cover comprised a gravel of pulverised rubble with a depth of between 0.3 mbgl and 0.55 mbgl. Vegetated areas were recorded as long grass over gravelly sand or clayey topsoil.

General made ground in the former tip area had a general thickness of between 0.5 m and 3.6 m and comprised silty sandy gravel, gravelly sand and gravelly clay. Gravels included concrete, brick, macadam, mudstone, and sandstone. Exploratory logs recorded low to moderate cobble and boulder content of concrete, brick, and occasional re-bar, plastic, fibre glass, redundant cabling, various metals, ceramics, glass, wood and macadam. No demolished structures were observed.

Natural strata at the location of the former tip area was recorded as sandy gravelly clays, gravelly sands and gravelly clayey silt (weathered mudstone) with a thickness of between 0.2 m and 2.6 m and a maximum depth of 4.3 mbgl. Mudstone bedrock was encountered at depths of 2.2 mbgl, 3.6 mbgl and 4.3 mbgl with a maximum unproven depth of 10 mbgl.

Technical Area

Within the main site area the majority of surface cover comprised concrete hardstanding. Exploratory locations were largely positioned over grass covered soft standing, although two locations featured macadam surface cover with a sub-base of brick fragments and concrete gravel.

Within the technical area, made ground was encountered in the majority of exploratory holes and was typically recorded to depths of between 0.1 mbgl and 1.6 mbgl with made ground occasional identified to 2.8 mbgl. Made ground largely comprised gravelly clay, silty gravelly sand and gravelly silt. Gravel (including a variable cobble content) consisted of mudstone, sandstone, brick, wood, plastic, rare ceramics, glass, clinker, metal fragments, bitumen, tile, and concrete.

Natural strata within the Technical Area comprised sand and gravel drift, Glacial Till consisting of firm gravelly clays with cobble of mudstone, and silty gravel or gravelly clay identified as weathered mudstone. The superficial deposits were encountered generally between the existing ground level and 6 mbgl and ranged in thickness between 0.2 m and 5 m. Drift deposits in the western most side of the Technical Area (Motor Transport (MT) area) comprised Glacial Till at 0.7 mbgl underlain by sandy gravel to a depth of 8.2 mbgl which ties into BGS geological mapping. Mudstone and sandstone bedrock was encountered from 0.4 mbgl to 8.2 mbgl.

NAVFAC pipeline

Surface cover comprised grass. Made ground was recorded to depths of between 0.7 mbgl and 1 mbgl in five exploratory holes along the NAVFAC pipeline route. This material was consistent with the surrounding natural strata so was previously considered to be reworked natural as no anthropogenic constituents were recorded.

Drift deposits were encountered at three locations across the pipeline and comprised variable sands, gravels and clays.

Groundwater

The previous Phase 2 LQA encountered groundwater within the drift deposits in the Technical Area and north of the Technical Area. Drift deposits were recorded to be dry within the airfield. Groundwater was present within all monitoring standpipes installed within the mudstone bedrock.

The Technical area slopes downhill in a south westerly direction. Perched groundwater within perched deposits range between 109.43 m AOD and 92.2 m AOD and the indicative flow direction is considered to be influenced locally by topography and is generally in a southerly direction.

Groundwater levels in the mudstone bedrock were consistent over the monitoring rounds and levels ranged between 106.44 m AOD and 92.65 m AOD across the site, with an indicative general groundwater flow direction to the east.

Groundwater flow across the Technical Area trends in a south easterly direction.

The 2015 Amec Foster Wheeler targeted groundwater and vapour assessment and recorded groundwater strikes at between 5 mbgl and 6.5 mbgl, with groundwater rising to between 4.2 mbgl and 5.3 mbgl after 20 minutes.

Groundwater levels recorded during the monitoring exercise following the GI were consistent with the previous site investigations and ranged between 97.89 m AOD and 105.45 m AOD.

Ground Hazards

The Site is not located in an area requiring a mining search (information obtained from the Coal Authority online Interactive Map²).

The Envirocheck Report identified 'no hazard' across the Site in respect of compressible and ground dissolution. Risks associated with landslide, running sand, shrinking or swelling clay, and collapsible ground were identified as 'very low' with areas of the site featuring 'No hazard'.

The Site is in an area of elevated radon potential with 10-30% of properties above the action level for which installation of basic radon protection measures is recommended in dwellings across parts of the Site.

6.2 Hydrology

Table 6.2 provides a summary of surface water features in the vicinity of the Site.

Water courses Distance / Direction from site	River Quality	Surface Water Abstractions	Potential for Baseflow	Potential to Receive Runoff	Sensitivity Assessment
The Site is constructed on a topographical high within the local area. A number of springs are located around the periphery of the Site, which feed unnamed streams flowing away from each of the site boundaries.	An unnamed stream forms a tributary of the Brandy Brook at a distance of 1.8 km southeast of the Site. The Water Framework Directive River Basin Management Plan records the current chemical status of the Brandy Brook as good and the ecological potential as moderate (overall status moderate). Two springs adjacent to the western site boundary form surface water courses that converge and eventually discharge into St Brides Bay approximately 4 km southwest of the Site. These unnamed	2 within 1 km, closest 428 m to the west	High – The surface water courses are likely to be in hydraulic continuity with groundwater beneath the Site. Groundwater was observed to be high during previous ground investigations and the groundwater flow was assessed to be flowing outwards from the centre of the Site owing to its position on an elevated plateau.	Low- Predominance of soft surface cover in the airfield will promote water infiltration. Surface water within the technical area likely to be captured within existing site drainage system or will infiltrate through areas of soft landscaping.	High- Springs and unnamed surface water streams present in close proximity to the boundaries of the Site. Two surface water abstractions within 1 km of the Site have the potential to be in hydraulic continuity with groundwater beneath the Site.

² <https://mapapps2.bgs.ac.uk/coalauthority/home.html>

	watercourses are not assessed under the Water Framework Directive.				
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Table 6.2 – Hydrology

6.3 Flood Risk

Table 6.3 provides a review of data from the Envirocheck Report and the Natural Resources Wales (NRW) Flood Map for Planning and the NRW Flood Risk Assessment Map.

Flood Risk Zone	Flood Defence/ Alleviations	Flood Risk Assessment	Control of Run off	Sensitivity Assessment
<p>The greater majority of the Site lies within Flood Zone 1, indicating a very low risk of flooding from rivers (including small watercourses) of 0.1% annual probability (1 in 1000 year event).</p> <p>There are smaller areas that fall within Flood Zone 2 (0.1% to 1% annual probability), and flood Zone 3 (>1% annual probability). These areas are associated with existing water courses and field drains.</p>	None	None required	Incidental rainfall / drainage from the site will be directed to the ground. The surrounding topography is not steep. Surface water falling on the runways appears to drain towards the north-eastern end of the runway trending northeast-southwest.	Low
<p>Areas of the Site are indicated to have potential for groundwater flooding. There is potential for groundwater flooding to occur to property below ground level in the southern area of the airfield and the central area of the Technical Area. The western extent of the Technical Area and parts of the southern area and north-eastern area of the airfield have limited potential for groundwater flooding to occur.</p> <p>There are small areas within the Technical Area and the southern and north-eastern area of the airfield that may be at risk of groundwater flooding at the surface.</p>	None	None required	Incidental rainfall / drainage from the site will be directed to the ground. The surrounding topography is not steep. Surface water falling on the runways appears to drain towards the north-eastern end of the runway trending northeast-southwest.	Low

Table 6.3 – Flood Risk

The Sweco site reconnaissance was undertaken during a period of very wet weather. Heavy rainfall occurred during the reconnaissance and likely during the preceding several days. Sweco observed areas of ground adjacent to the runways to be saturated with water and surface water was seen to be collecting at the northern end of the longest runway. Undeveloped ground to the north appeared to be saturated, with surface water pooling evident.

6.4 Ecology & Sensitive Land Use

Table 6.4 provides a summary of ecology and sensitive land uses based on a review of designated habitats or sensitive ecological features recorded within 1 km of the Site.

Ecological Site / Sensitive Land Use	Sensitivity Assessment
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Ecological Receptors	<p>High</p> <p>The Site is located approximately 650 m northeast of the St David's Peninsula Coast Site of Special Scientific Interest (SSSI), the Ramsey and St David's Peninsula Coast Special Protection Area (SPA) and St David's Special Area of Conservation (SAC). The Site is approximately 750 m northeast of the Pembrokeshire Marine SAC and West Wales Marine Protected Area (MPA)/SAC.</p> <p>The Site is located within the Pembrokeshire Coast National Park.</p> <p>The Site can potentially support a number of protected species of flora and fauna. A population of skylarks are present on site which has been considered the largest in Wales. National Trust manage wild ponies that are left to graze on the undeveloped western areas of the Site.</p>
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Table 6.4 – Ecology & Sensitive Land Use

6.5 Archaeological Sensitivity

Table 6.5 provides a review of data from the Historic Wales portal for historic environment information. The assessment of sensitivity in Table 6.5 is specifically with respect to impacts from potential contamination at the Site.

Archaeological Site	Sensitivity Assessment
<p>Brawdy Airfield is included in the National Monuments Record of Wales.</p> <p>The National Monuments Record of Wales includes the following within the Site:</p> <ul style="list-style-type: none"> • De Havilland Sea Vampire (Air crash site) • Medieval fishpond site- Rickeston Manor (in the location of the former Old OWI (1 of 3). <p>Post-medieval agricultural fields associated with the farm Ty Ilwyd.</p>	<p>Moderate– Moderate potential for damage to archaeologically significant artefacts on the development site. The presence of artifacts on site cannot be discounted.</p>
<p>The Welsh Archaeological Trust lists a number of features located within the Site.</p> <p>Former location of standing stones:</p> <ul style="list-style-type: none"> • Parc Y Garreg Wen (bronze age standing stone) • Parc Carreg (bronze age standing stone) • Stone (unnamed) <p>Sites of post-Medieval and Medieval buildings:</p> <ul style="list-style-type: none"> • Rickeston Mediaeval Manor House • Broadway (post-medieval cottage) • Mutton Hill (post-medieval mansion) • Rhwle (Post-medieval cottage) • Cross Wen (post-medieval cottage) • Court Fach medieval settlement/post-medieval settlement • Clawdd Bwi (Post-Medieval cottage) 	<p>Moderate– Moderate potential for damage to archaeologically significant artefacts on the development site. The presence of artifacts on site cannot be discounted.</p>

Table 6.5 – Archaeological Setting

Summary

- In respect of potential impact from possible sources of contamination (if proven to be present), the Site is considered to be located in a **High** sensitivity setting with respect to surface water and **Low-Moderate** sensitivity setting with respect to groundwater.

- The Site is in **Low** sensitivity setting with respect to flooding.
- The Site is in a **High** sensitivity area with respect to potential impacts on ecological receptors from contamination.
- The Site is in a **Moderate** sensitivity areas with respect to potential impacts on archaeological receptors.

7 Environmental Risk Assessment

7.1 Introduction

Risk assessment is a process by which the actual or potential risks posed by identified hazards to specific receptors is estimated. In the context of this study, hazards relate to sources, or potential sources of contamination capable of causing harm. Receptors are the entity, which may be at risk of adverse effects from the hazard and include human health, surface waters, groundwater, ecological systems, buildings and services. In order for a hazard to present a risk to a receptor they must be linked by an exposure pathway.

This source-pathway-receptor model is considered best practice methodology to evaluate environmental risks arising from potential land contamination, according to DEFRA³ and Environment Agency⁴ guidance documentation (adopted by Natural Resources Wales in February 2021). Details of the methodology adopted for determining the site specific risks is presented in Appendix I.

In accordance with the adopted methodology, the classification terms of potential risk are used to reflect both the probability of an event occurring and the magnitude of possible effects. The definitions of 'potential consequence' and 'likelihood' are also given in Appendix I.

7.2 Conceptual Site Model

A conceptual 'source-pathway-receptor' model has been developed for the Site based upon evaluation of information described in the preceding chapters. The conceptual model is presented diagrammatically in Drawings 65200861-CAWDOR_LQ_Stg1_LQA_03 and 65201348-CAWDOR_LQ_Stg1_LQA_04 and described below. It has been generated on the proposed new development on site, which is considered as a continuation of the current designation of commercial land use.

7.2.1 Potential Contaminant Sources

Based on the information obtained in this Phase 1 LQA, the following potential contaminant sources have been identified:

Potential Source	Associated Feature	Potential Contaminants
On Site		
Source 1- Old BFI, BFI 1, BFI 2 and NAVFAC BFI (airfield)	<i>Old BFI</i> Former bulk fuel storage in six tanks with unspecified capacities. Installation decommissioned in 1993.	Hydrocarbons Likely aviation turbine fuel (AVTUR including AVTUR F34 FSii) but may have stored aviation gasoline (AVGAS) containing more volatile hydrocarbons and tetraethyl lead/ tetramethyl lead
	<i>BFI 1</i> Former bulk fuel storage across the Site in ten 54,500 litre above ground tanks and one circular tank (772,000 litres). Tanks removed.	
	<i>BFI 2</i> Former bulk fuel storage in two semi-buried tanks with a combined volume of 1.5 million litres. One above ground Plant Dieso tank (8,000 litre), one Slops tank (5,5000 litres) Facility decommissioned in 1997	
	<i>NAVFAC BFI</i> Former bulk fuel storage in six underground tanks (330,000 litre combined capacity). Facility decommissioned in 1997	

³ DEFRA Guidelines for Environmental Risk Assessment and Management, Revised Departmental Guidance, November 2011.

⁴ EA, Land Contamination Risk Management (LCRM), How to Manage the Risks from Land Contamination, October 2020

Potential Source	Associated Feature	Potential Contaminants
Source 2- Former FTA	Brick and concrete 'tank-like' structure. Some associated infrastructure present on site.	Hydrocarbons (fuels and oils), PAHs and perfluoroalkyl and polyfluoroalkyl substances (PFASs)

Potential Source	Associated Feature	Potential Contaminants
On Site		
Source 3- Former Fuel Bowser parking	Eleven fuel bowzers historically parked in this area with a combined capacity of 115,000 litres.	Hydrocarbons AVTUR F34 FSii AVGAS DIESO MT CIVGAS F50
Source 4- Former tip/burning area	Tipping of various inert wastes. Potential burning of wastes may have occurred in this area.	Metals, hydrocarbons, solvents, asbestos, PCBs
Source 5- NAVFAC BFI pipeline	Former fuel pipeline connecting onsite NAVFAC BFI with off-site NAVFAC facility. Potential for 15,700 litres of diesel oil to be retained within the pipeline.	Hydrocarbons Diesel oil
Source 6- Current BFI/ POL Point	Bulk fuel storage and storage of paints, oils and lubricants.	Hydrocarbons Diesel oil solvents
Source 7- Historical POL points and former above and below ground fuel storage tanks, and small former fire training area located within the technical area/barracks area	<i>Historical POL points</i> (two Historic NAVFAC (US) POL points, Former building 27/28 POL point, Former POL Point south of Building 5). <i>Former above and below ground storage tanks</i> Storage of fuel, including at the former cinema, former engine (ardour house), site boiler house	Hydrocarbons
Source 8- Known asbestos contaminated area	Areas of known asbestos contamination.	Asbestos
Source 9- Former electricity distribution substations	Former electricity substations within the Technical Area/Barracks and airfield.	Hydrocarbons PCBs
Source 10- Redundant OWIs	Former OWIs in the airfield.	Hydrocarbons Diesel oil
Source 11- Aircraft parking, airfield use and crashes	Historical use of the airfield and associated infrastructure.	Hydrocarbons Aviation fuel Solvents
Source 12- Infilled quarries/gravel pits, linear mound at the end of the runway trending SSW to NNE.	Former quarries and pits within the airfield	Metals, hydrocarbons, asbestos and ground gas
Off Site		

Potential Source	Associated Feature	Potential Contaminants
Sourced 13- Former Brawdy Farm sand pit	Former sand pit.	Ground gases

Table.1 – Potential Contaminant Sources

The areas of potential contamination are shown on Drawing 65200861-CAWDOR_LQ_Stg1_LQA_02.

A number of current explosive and ammunition stores are present on site. Since these materials are stored and managed appropriately, they are not considered to present a source that requires further consideration in this risk assessment.

A number of COSHH stores are present on site. Since these materials are stored in small quantities and well managed appropriately, they are not considered to present a source that requires further consideration in this risk assessment.

Given the size and complexity of the Site, a number of individual sources have been combined (e.g. former BFI within the airfield, and current and former above and below ground fuel storage tanks). In these cases, the likelihood and consequence of exposure are considered to be generally the same resulting in the same potential risks from all sources grouped together.

7.2.2 Potential Pathways

The principal exposure pathways pertinent to the Site are described below:

- diffusion through drinking water pipes;
- direct contact with or ingestion of contaminated soil, soil derived dust or groundwater;
- inhalation of potentially contaminated soil derived dust;
- inhalation of soil and groundwater vapours and ground gases indoors and outdoors;
- inhalation of asbestos fibres;
- leaching and vertical migration of contaminants from the unsaturated made ground to the underlying glaciofluvial deposits (Secondary A Aquifer) and solid geology of the Lingula Flags, Triffleton Group Sandstone and Ramsey Sound Group (Secondary B Aquifer);
- migration of NAPL or contaminated groundwater;
- migration via site drainage;
- migration via surface run-off;
- direct contact of buildings and services with potentially contaminated soil, and;
- build up of potentially hazardous ground gas in confined spaces and explosion;

7.2.3 Potential Receptors

Receptors may include humans, animal or plant population, or natural or economic resources within the range of the contaminant source which are connected to the source by a known pathway, as discussed below.

Receptor	Description
Onsite personnel	Operational staff
Onsite residents (with gardens)	Married quarters used by site personnel and their families.

Onsite (and offsite) farmers	Farmers access the airfield to cut the grass to produce silage for livestock. This silage is stored on the airfield. The Site is in a predominantly agricultural setting and therefore surrounding land use can include agricultural fields.
Offsite commercial workers	Workers at the Brawdy Business Park.
Offsite residents	Residents living at the adjacent Rickeston Hall
Offsite amenity users	Offsite users of the adjacent Newgale Lodge holiday lets and Park Hall Village camp site.
Glaciofluvial Deposits: Secondary A Aquifer Lingula Flags, Triffleton Group Sandstone and Ramsey Sound Group solid geology: Secondary B Aquifer	Groundwater within the glaciofluvial deposits and solid geology which underlies the Site.
Surface Water (unamed surface water courses adjacent to the Site)	A series of unnamed water courses are located within close proximity to the boundaries of the Site.
On site flora and fauna	Protected species have been identified on the Site.
Buildings and buried services	In addition, sensitive heritage assets have been identified which have the potential to be impacted by contamination.

Table 7.2 – Receptor Description

Construction workers during redevelopment and future maintenance activities have not been considered as a receptor in this risk assessment. It is assumed that any redevelopment works undertaken on the Site will be subject to appropriate risk assessments and use of PPE, therefore potential risks will be mitigated.

7.3 Risk Estimation

The most significant potential environmental risks identified (classified as moderate/low or greater) based on historical use and current site conditions are summarised in Table 7.3. A full assessment of all environmental risk scenarios is presented in Appendix I.

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard- receptor linkage	Risk Level
Source 1 Old BFI and former BFI 1, BFI 2, and NAVFAC BFI Source 2 Former FTA	Humans (onsite personnel) – Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (Onsite farmers)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (offsite residents) - Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (off site amenity users) - Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors. Inhalation of vapours migrating in groundwater and accumulating indoors - Low likelihood	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater - Likely	Moderate

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard- receptor linkage	Risk Level
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Likely	Moderate
	Flora and fauna- Medium	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- Low likelihood	Moderate / Low
Source 3 Former fuel bowser parking	Humans (onsite personnel) – Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Humans (Onsite farmers)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (offsite residents)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Humans (offsite amenity users)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater - Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low
	Flora and fauna- Medium	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- Low likelihood	Moderate / Low
Source 4 Former tip/burning area	Humans (Onsite personnel)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Humans (Onsite farmers)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (Offsite amenity users)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)- Medium	Leaching/ migration via groundwater- Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow- Low likelihood	Moderate / Low

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard- receptor linkage	Risk Level
	Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- Low likelihood	Moderate / Low
Source 5 NAVFAC BFI pipeline	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater- Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low
Source 6 Current BFI/ POL Point (technical area)	Humans (Onsite personnel)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Humans (offsite residents)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Humans (Offsite amenity users)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater - Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low
Source 7 Historical POL Points and former above and below ground tanks, and small former fire training area (technical area/ barracks)	Humans (onsite personnel) – Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (onsite residents with gardens)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater - Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low
Source 10 Redundant OWIs	Humans (onsite personnel) – Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Humans (offsite residents)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard- receptor linkage	Risk Level
	Humans (Offsite amenity users)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors - Low likelihood	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater - Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low
	Flora and Fauna- Medium	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- Low likelihood	Moderate / Low
Source 11 Aircraft parking, airfield use and crashes	Human (onsite personnel)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Humans (onsite farmers)- Medium	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors - Low likelihood	Moderate / Low
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)- Medium	Leaching / migration via groundwater - Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams)- Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low
Source 12 Infilled quarries/ gravel pits	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – Medium	Leaching / migration via groundwater - Low likelihood	Moderate / Low
	Surface water (Unnamed surface water streams) - Medium	Via site drainage and baseflow – Low likelihood	Moderate / Low

Table 7.3 – Summary of Risk Assessment – Current and continuation of Commercial Land Use

8 Overall Land Quality & Suitability for Use

The overall land quality assessment based on the available information is summarised below.

Based upon information obtained and reviewed as part of this LQA, it is considered that widespread significant contamination across the Site is **Unlikely** to have occurred as a result of historical land use activities undertaken across the wider site area. Localised sources of potential soil and groundwater contamination have been identified to be present which include former bulk fuel installations, former fire training areas, former fuel storage tanks, former burning area and tip, ESA, infilled quarries, a former fuel bowser parking area, and an asbestos contaminated area. Additionally, areas of made ground (including mounds potentially containing demolition materials) are present across the Site. Contaminants of concern include metals, hydrocarbons, inorganic and organic compounds, PCBs, explosive residues, PFASs, and asbestos containing materials (ACM)s.

In view of the above, the risk to current and future site users (assuming continuation of the current commercial land use) and other identified off-site human health receptors under current site conditions from potential ground contamination in respect of all of the identified potential sources of contamination has been assessed as **moderate/low** at the highest.

The risk to groundwater and surface water under current and future site conditions (assuming continuation of the current commercial land use) in respect of all the identified potential sources of contamination has been assessed as **moderate** at the highest. This reflects the previous targeted groundwater investigation and risk assessment undertaken at the site.

For any redevelopment scenario, disturbance of shallow soils is likely to occur. Soil disturbance may increase risks to human health from exposure to potential contaminated made ground material, including possible hydrocarbons, metals, explosive residues, paints, lubricants and oils, radiological materials and ACMs at the Site. During demolition and construction phases of any redevelopment control measures such as undertaking and adhering to site specific risk assessments and method statements and wearing appropriate PPE will need to be implemented to mitigate the risk to site workers.

Whilst not a contaminated land consideration, part of the southern area of the airfield falls within a Mineral and Quarry Sites Buffer (Brawdy Farm sandpit) which may place restrictions on development within this area and further consultation with the Local Planning Authority is recommended.

9 References

Historical Reports:

1. Entec. February 2011. Cawdor Barracks, Pembrokeshire. Land Quality Assessment. Phase 1: Desk Study Report.
2. Amec. February 2012. Cawdor Barracks, Pembrokeshire. Phase 2: Intrusive Survey Report.
3. Amec Foster Wheeler. July 2015. Cawdor Barracks- Targeted Groundwater and Vapour Assessment LQA Report.

Reference Text:

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- CIRIA. 2001. C552 Contaminated Land Risk Assessment, A Guide to Good Practice.
- Environment Agency. October 2020. Land contamination risk management (LCRM)
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Site Setting Information:

- BGS Onshore Geoindex (<https://mapapps2.bgs.ac.uk/geoindex/home/html>) Accessed January 2023
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- Natural Resources Wales. Flood Map for Planning (<https://flood-map-for-planning.naturalresources.wales/>). Accessed January 2023.
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- PCC, 2013. Pembrokeshire County Council Local Development Plan

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- Dstl. July 2020. Radiological Records Search: Cawdor Barracks, Pembrokeshire.

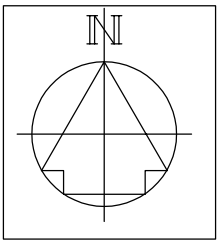
Historical OS Maps and Environmental Information:

- Landmark Envirocheck Report (Reference 305022956_1_1)

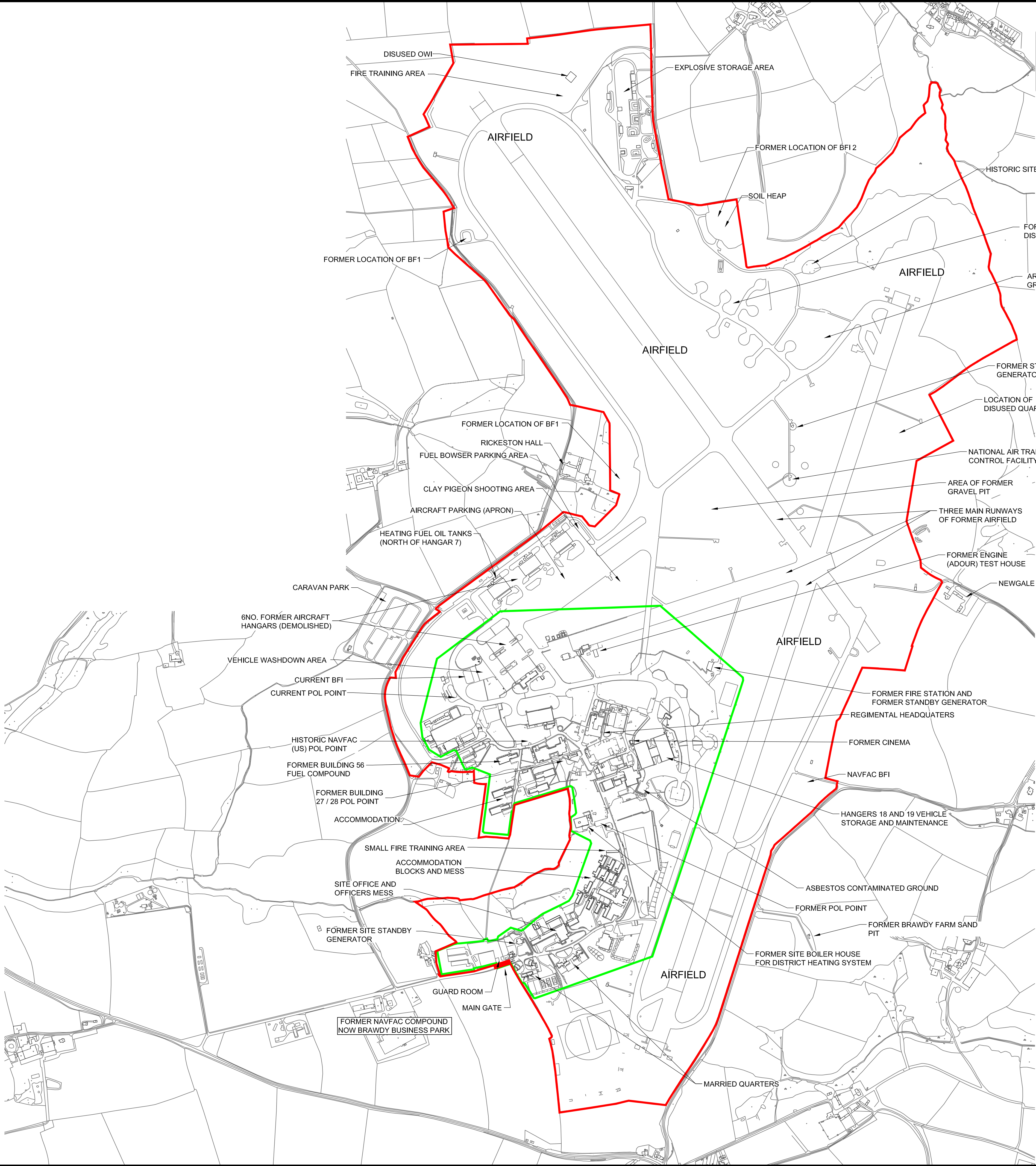
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Drawings



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Notes

LEGEND

- CAWDOR BARRACKS SITE
- TECHNICAL AREA AND BARRACKS

Rev.	Date	Amendment Details	Orig	Chk'd	App'd
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Sweco

Grove House

Mansion Gate Drive

Leeds

LS7 4DN

Tel: +44 (0)113 262 0000

Web: www.sweco.co.uk

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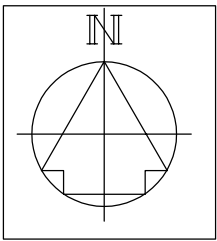
Project Title

DARC - CAWDOR BARRACKS

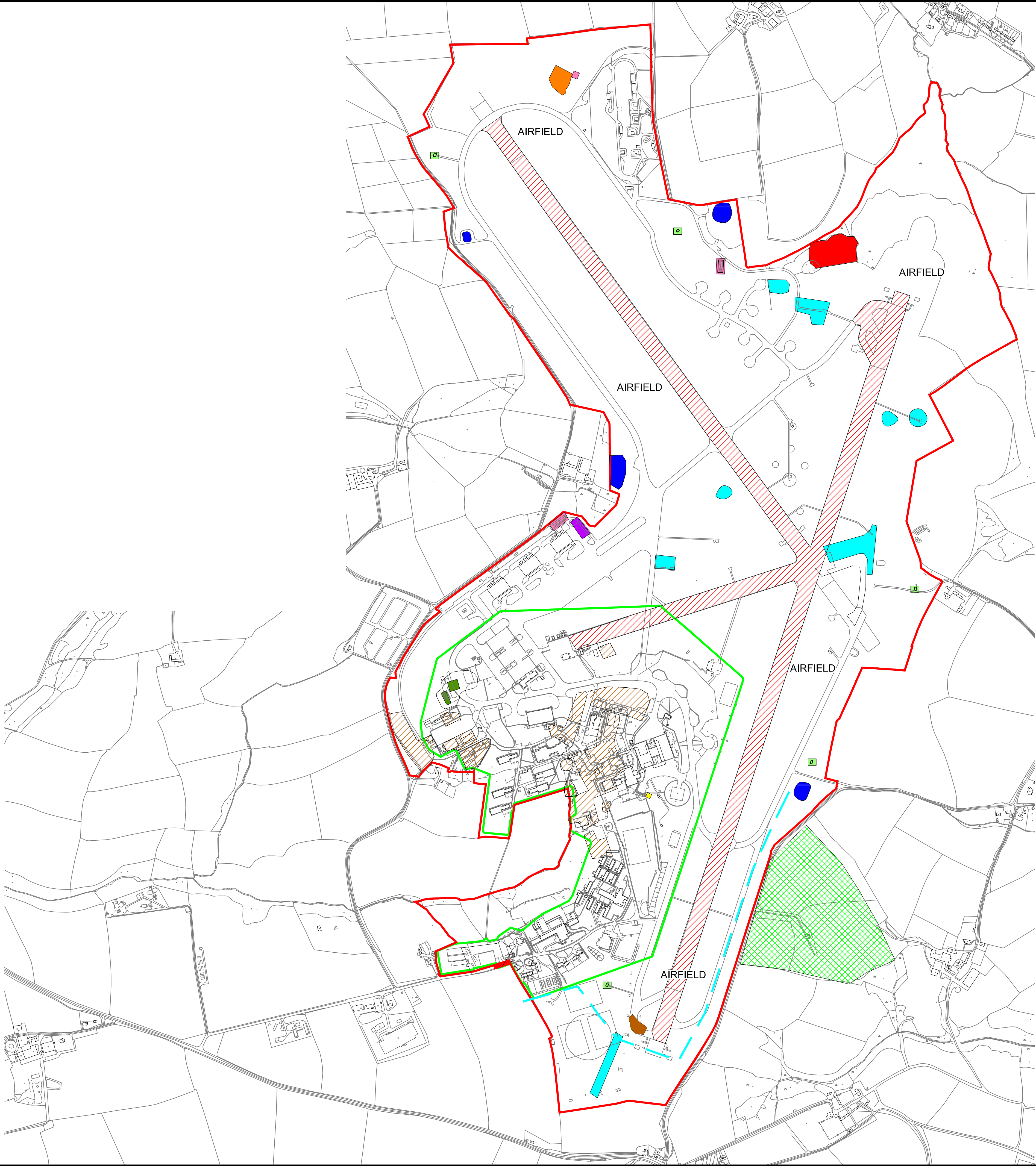
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SITE LAYOUT PLAN

Scale	Originator	Drawn	Checked	Approved
1:8000	CP	RE	CP	SL
Original Size	Date	Date	Date	Date
A1	FEB, 2023	FEB, 2023	FEB, 2023	FEB, 2023
Drawing Number				Rev
65200861-CAWDOR_LQ_STG1_LQA-01				



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Notes

LEGEND

- CAWDOR BARRACKS SITE
- TECHNICAL AREA AND BARRACKS

SOURCES

- SOURCE 1**
OLD BFI, BFI 1, BFI 2 AND NAVFAC BFI
- SOURCE 2**
FORMER FIRE TRAINING AREA
- SOURCE 3**
FORMER FUEL BOWSER PARKING
- SOURCE 4**
FORMER TIP / BURNING AREA
- SOURCE 5**
FORMER NAVFAC BFI PIPELINE
- SOURCE 6**
CURRENT BFI / POL POINT
- SOURCE 7**
HISTORICAL POL POINTS AND FORMER ABOVE AND BELOW GROUND FUEL STORAGE TANKS, AND SMALL FORMER FIRE TRAINING AREA LOCATED WITHIN THE TECHNICAL AREA/BARRACKS AREA
- SOURCE 8**
KNOWN ASBESTOS CONTAMINATES AREA
- SOURCE 9**
FORMER ELECTRICITY DISTRIBUTION SUBSTATIONS
- SOURCE 10**
REDUNDANT OWIS
- SOURCE 11**
AIRCRAFT PARKING, AIRFIELD USE AND CRASHES
- SOURCE 12**
INFILLED QUARRIES / GRAVEL PITS, LINEAR MOUND AT THE END OF THE RUNWAY TRENDING SSW TO NNE

SOURCES OFF SITE

- SOURCE 13**
FORMER BRAWDY FARM SAND PIT

Rev.	Date	Amendment Details	Orig	Chk'd	App'd
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Sweco
Grove House
Mansion Gate Drive
Leeds
LS7 4DN
Tel: +44 (0)113 262 0000
Web: www.sweco.co.uk



Client
MINISTRY OF DEFENCE

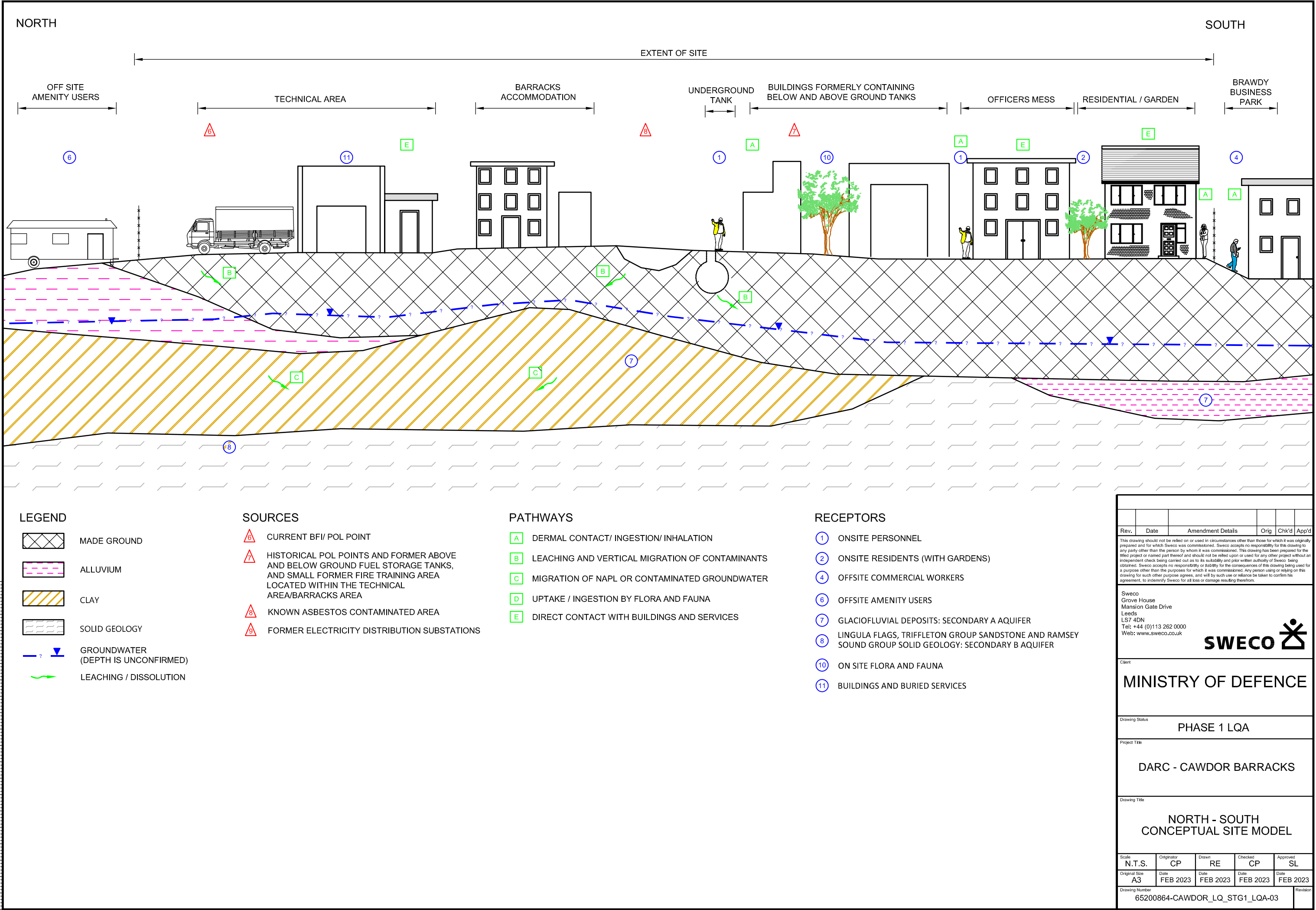
Drawing Status
PHASE 1 LQA

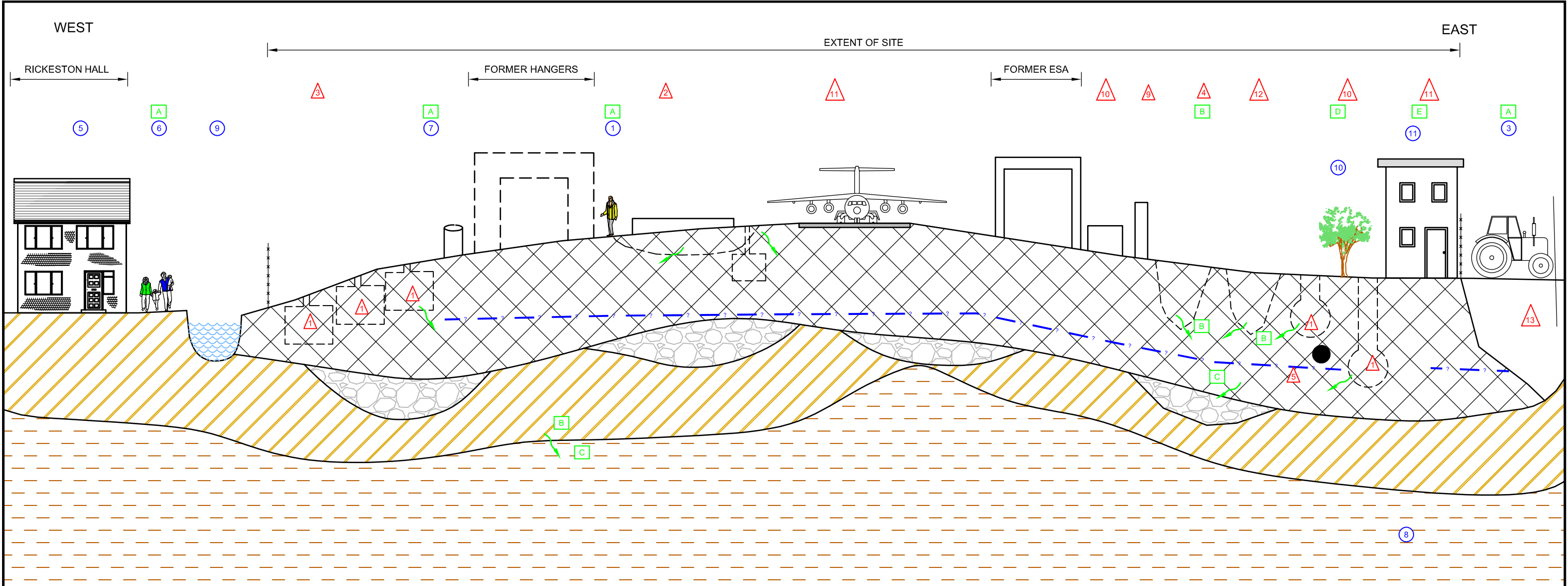
Project Title
DARC - CAWDOR BARRACKS

Drawing Title
AREAS OF POTENTIAL CONTAMINATION

Scale	Originator	Drawn	Checked	Approved
1:8000	CP	RE	CP	SL
Original Size	Date	Date	Date	Date
A1	FEB, 2023	FEB, 2023	FEB, 2023	FEB, 2023

Drawing Number	Rev
65200861-CAWDOR_LQ_STG1_LQA-02	





LEGEND

- HARDSTANDING
- MADE GROUND
- SAND AND GRAVEL
- CLAY
- MUDSTONE
- GROUNDWATER (DEPTH IS UNCONFIRMED)
- LEACHING / DISSOLUTION

SOURCES

- OLD BFI, BFI 1, BFI 2 AND NAVFAC BFI
- FORMER FIRE TRAINING AREA
- FORMER FUEL BOWSER PARKING
- FORMER TIP / BURNING AREA
- FORMER NAVFAC BFI PIPELINE
- FORMER ELECTRICITY DISTRIBUTION SUBSTATIONS
- REDUNDANT OWIs
- AIRCRAFT PARKING, AIRFIELD USE AND CRASHES
- INFILLED QUARRIES / GRAVEL PITS, LINEAR MOUND AT THE END OF THE RUNWAY TRENDING SSW TO NNE

SOURCE OFF SITE

- FORMER BRAWDY FARM SAND PIT

PATHWAYS

- DERMAL CONTACT/ INGESTION/ INHALATION
- LEACHING AND VERTICAL MIGRATION OF CONTAMINANTS
- MIGRATION OF NAPL OR CONTAMINATED GROUNDWATER
- UPTAKE / INGESTION BY FLORA AND FAUNA
- DIRECT CONTACT WITH BUILDINGS AND SERVICES

RECEPTORS

- ONSITE PERSONNEL
- ONSITE (AND OFFSITE) FARMERS
- OFFSITE RESIDENTS
- OFFSITE AMENITY USERS
- GLACIOFLUVIAL DEPOSITS: SECONDARY A AQUIFER
- LINGULA FLAGS, TRIFFLETON GROUP SANDSTONE AND RAMSEY SOUND GROUP SOLID GEOLOGY: SECONDARY B AQUIFER
- SURFACE WATER (UNNAMED SURFACE WATER COURSES ADJACENT TO THE SITE)
- ON SITE FLORA AND FAUNA
- BUILDINGS AND BURIED SERVICES

Rev.	Date	Amendment Details	Orig	Chk'd	App'd
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<p>Sweco Grove House Mansion Gate Drive Leeds LS7 4DN Tel: +44 (0)113 262 0000 Web: www.sweco.co.uk</p> <p>SWECO</p>					
<p>Client</p> <p>MINISTRY OF DEFENCE</p>					
<p>Drawing Status</p> <p>PHASE 1 LQA</p>					
<p>Project Title</p> <p>DARC - CAWDOR BARRACKS</p>					
<p>Drawing Title</p> <p>WEST - EAST CONCEPTUAL SITE MODEL</p>					
Scale	Orig'nator	Drawn	Checked	Approved	
N.T.S.	CP	RE	CP	SL	
Original Size	Date	Date	Date	Date	
A3	FEB 2023	FEB 2023	FEB 2023	FEB 2023	
Drawing Number					Revision
65200864-CAWDOR_LQ_STG1_LQA-04					

Appendix A – Phase 1LQA Methodology

APPENDIX A – METHODOLOGY AND APPROACH

1.1 Methodology

In order to achieve the objectives of the study the following tasks have been completed as summarised below:

- Information requests to **facility representatives** identified as being available personnel most familiar with current/former site operations, in order to obtain background information;
- Undertaking a **site reconnaissance** encompassing adjoining and nearby properties;
- Researching **local geological records** (soil conditions), and available hydrogeological studies from published sources;
- Obtaining available environmental data from **environmental regulators** via third party data providers;
- Obtaining relevant information from MOD's **Defence Science Technical Laboratories (DSTL)** regarding any radiological materials held at the site;
- Reviewing the **history of site use** to identify possible previous activities/site layouts that might have led to the presence of contamination;
- Preparing **LQA reports** summarising our observations and relating to the apparent environmental conditions at the site;
- Producing a **Conceptual Site Model (CSM)** describing potential sources, pathways and receptors relevant to the site and
- Completing a **qualitative risk assessment** to determine the potential land quality risks associated with the identified pollutant linkages.

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Appendix B – Landmark Envirocheck Report



SWECO

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:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms C Bithell, Sweco Services UK Ltd, Grove House, Mansion Gate Drive, Leeds, LS7 4DN

Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184960, 225220
Site Area (Ha): 308.46
Search Buffer (m): 1000

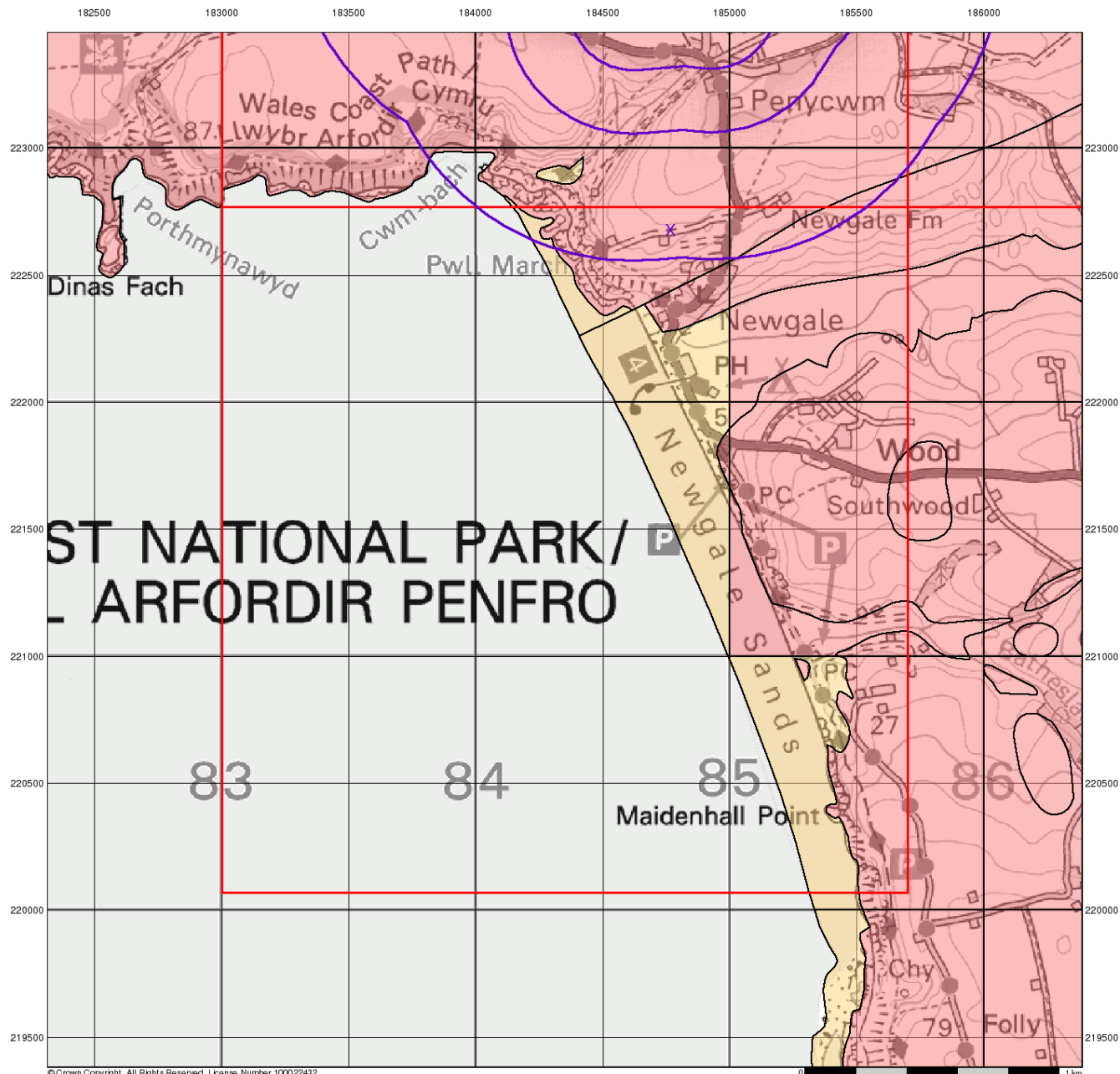
Site Details

Cawdor site

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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SWECO

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

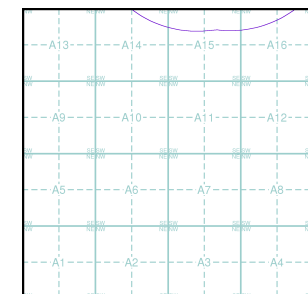
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site

Landmark
 INFORMATION GROUP

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0 1 km

SWECO

Bedrock Aquifer Designation

General

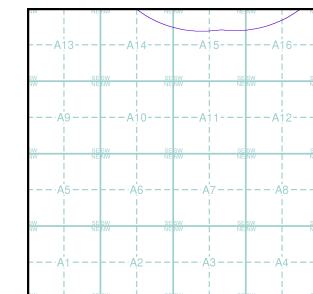
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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



Order Details

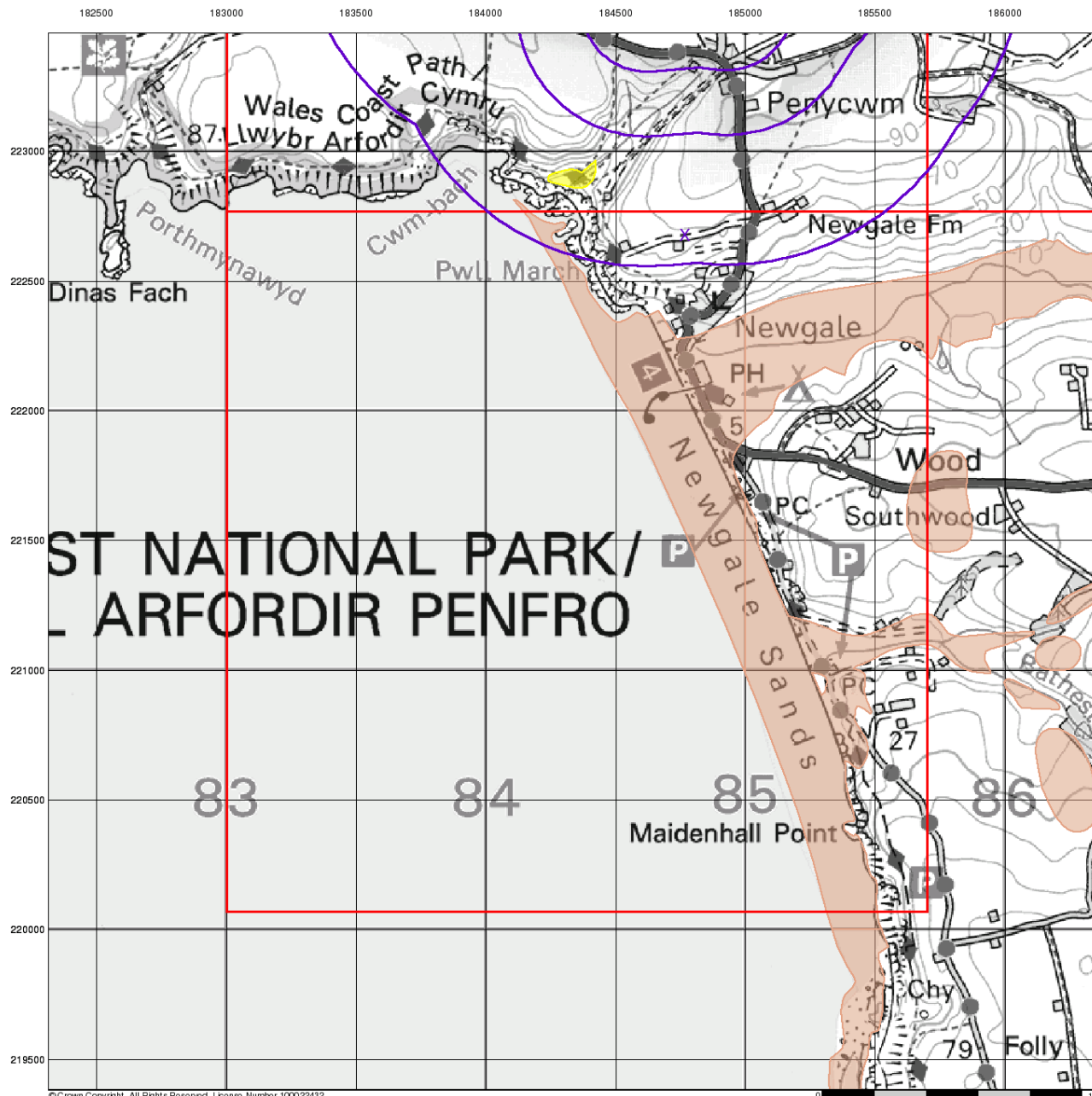
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 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

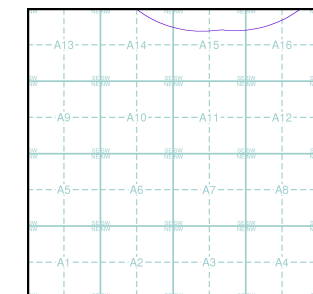
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

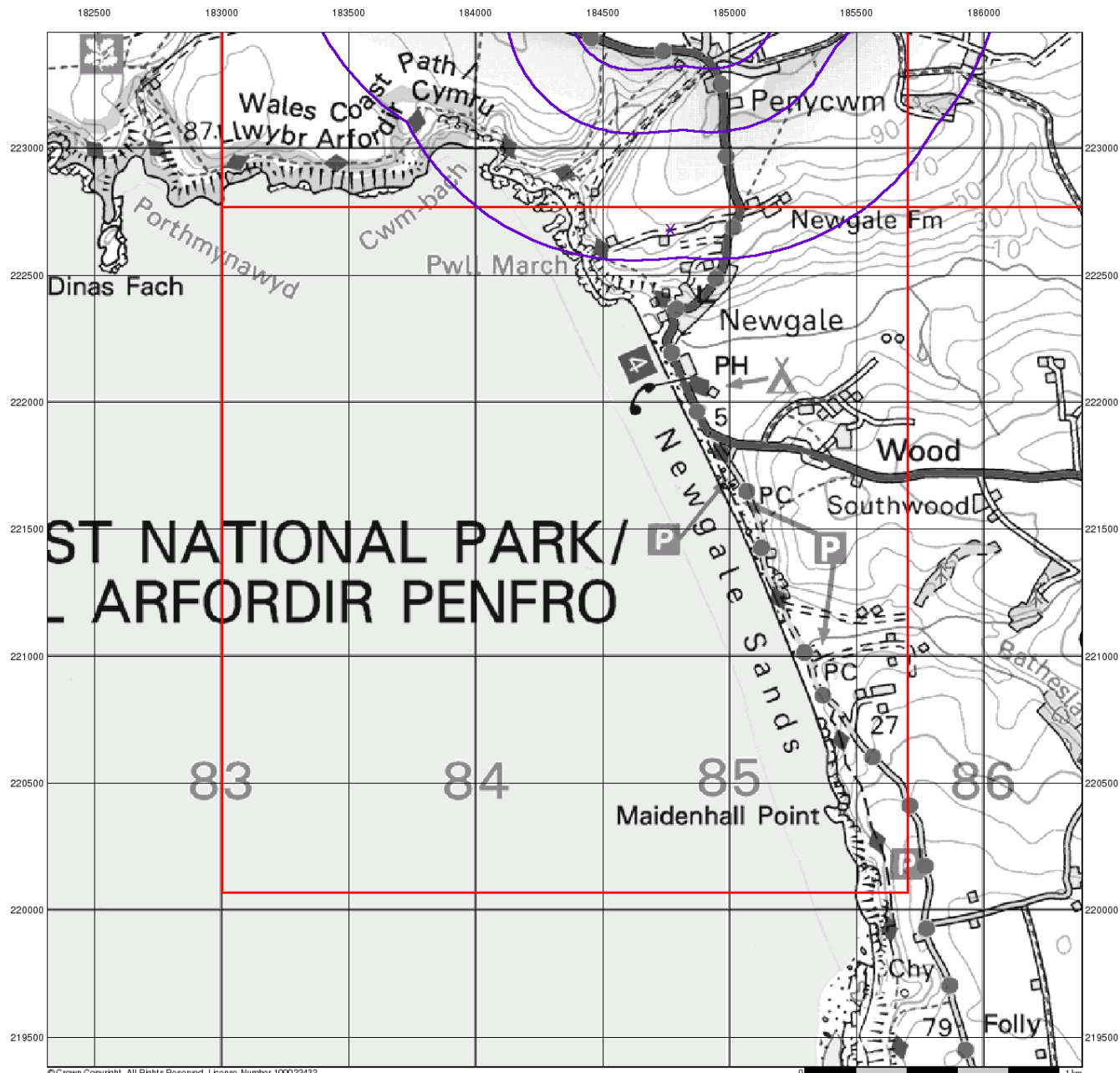
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

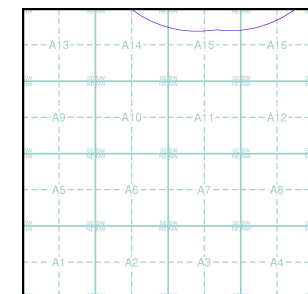
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

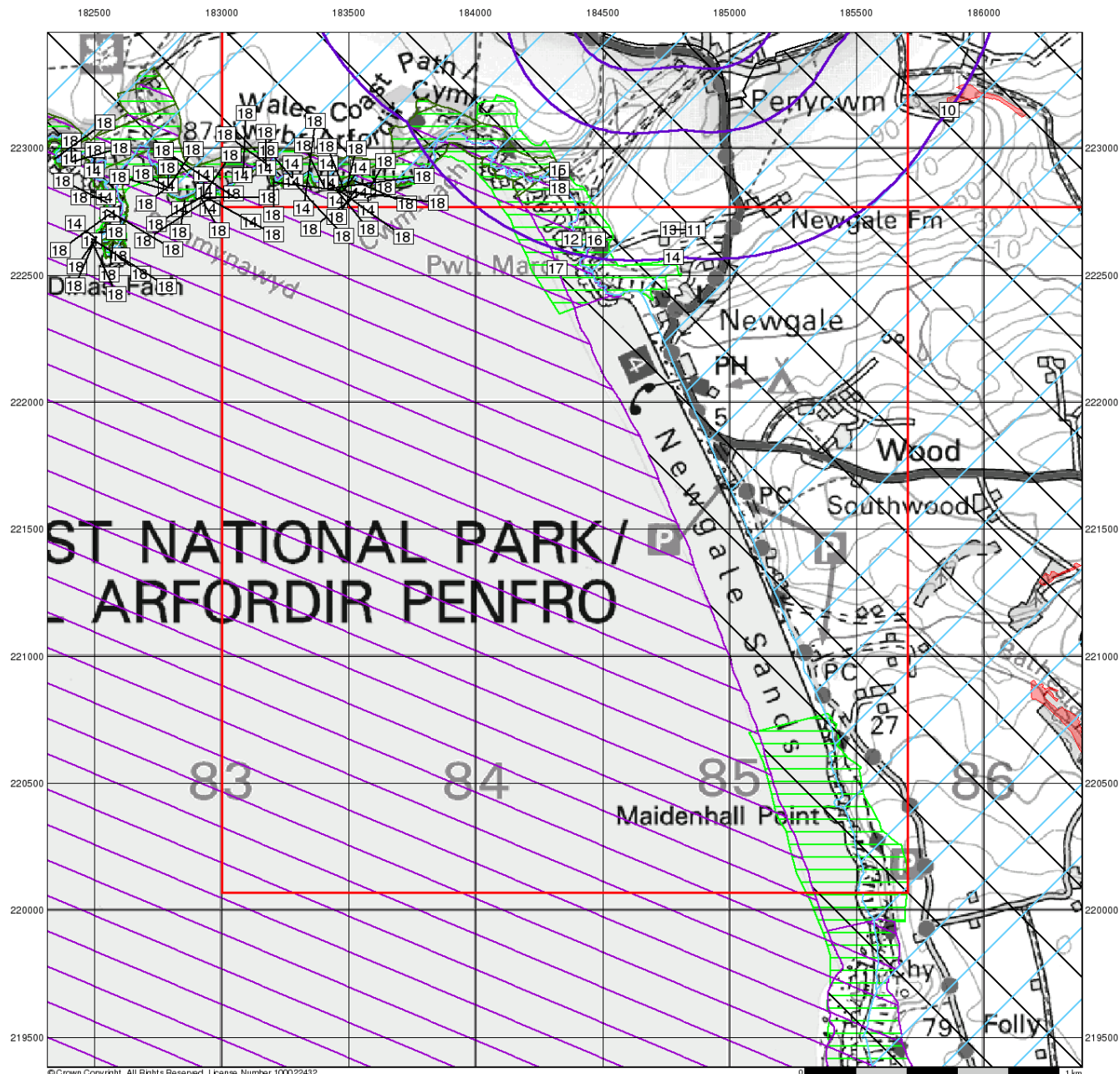
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site

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Sensitive Land Uses

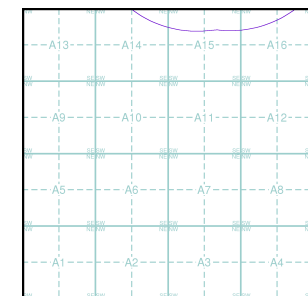
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

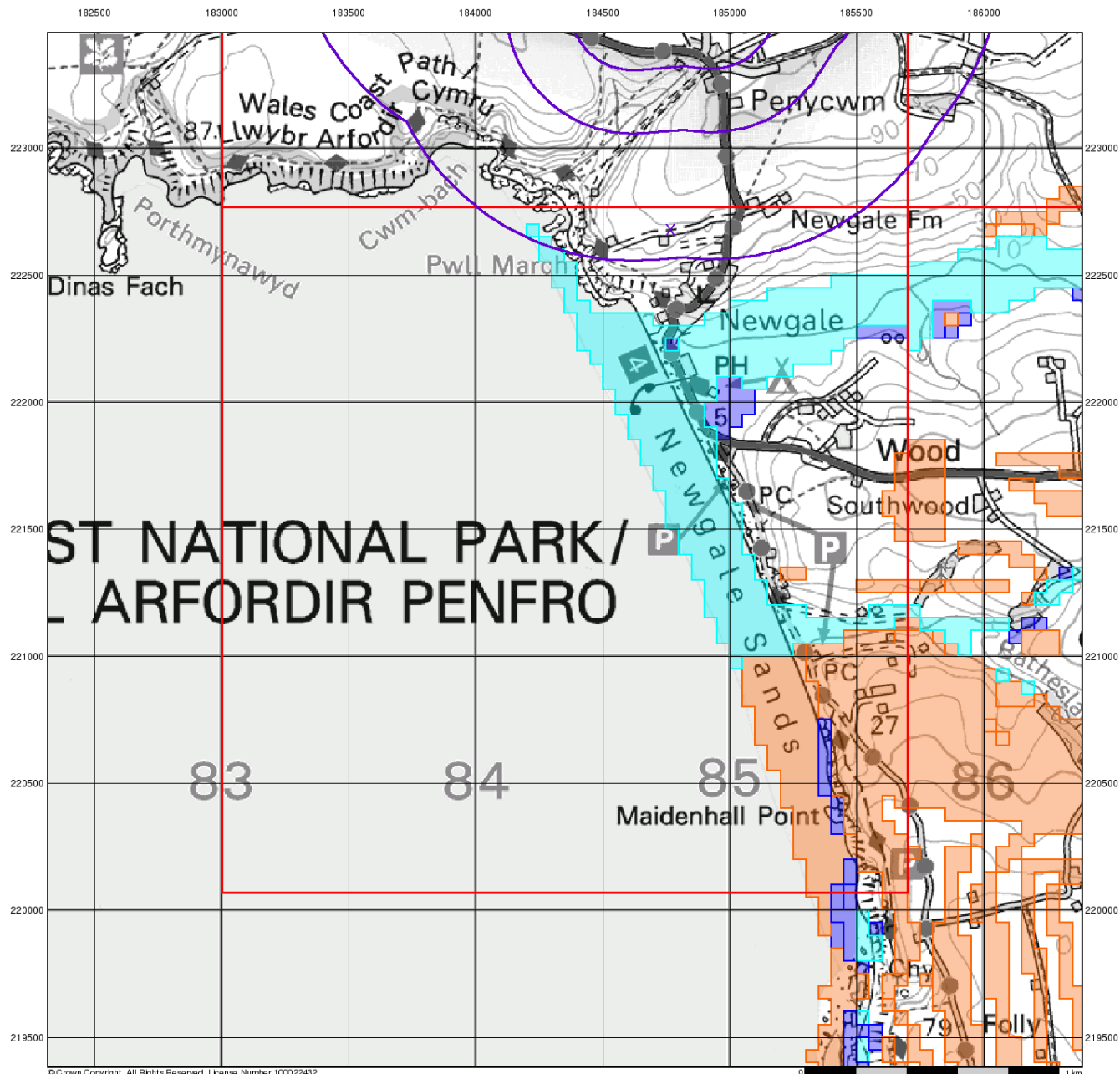
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site

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 Web: www.envirocheck.co.uk



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BGS Flood GFS Data

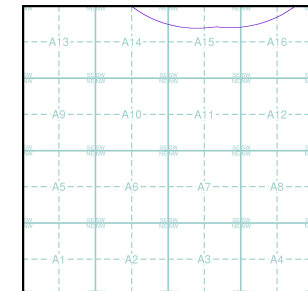
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

305022956_1_1

Customer Reference:

65208061

National Grid Reference:

184770, 222680

Slice:

A

Site Area (Ha):

308.46

Search Buffer (m):

1000

Site Details:

Cawdor site

Client Details:

Ms C Bithell
Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	5
Hazardous Substances	-
Geological	6
Industrial Land Use	-
Sensitive Land Use	8
Data Currency	9
Data Suppliers	13
Useful Contacts	14

Introduction

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

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Report Version v53.0

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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 5	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
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					
Geological					
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 6				1
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 6	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 6	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas	pg 6	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 8				1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 8	1			1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 8		1		
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 8				1
Special Areas of Conservation	pg 8				3
Special Protection Areas	pg 8				1
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: The Occupier Property Type: Undefined Or Other Location: Chalet Frena Newgale Hill Hfdwest, Newgale Hill, Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0005901 Permit Version: 1 Effective Date: 18th October 1967 Issued Date: 18th October 1967 Revocation Date: 2nd July 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Underground Strata Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A15NE (E)	967	2	185000 222600
	Nearest Surface Water Feature	A15NW (W)	771	-	184405 222737
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1843	2	186590 222720
	Water Abstractions Operator: P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 12000 Details: Crow Cwm Stream At Lower Llethr; Penycwm 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	(E)	1843	3	186590 222720
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied 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 10m	(E)	1843	2	186590 222720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: Mineral Products: General use relating to Secondary Category (High Loss) Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied 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 10m	(E)	1843	2	186590 222720
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 04 January Authorised End: 10 July Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(E)	1845	2	186590 222715
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: Mineral Products: General Use(High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(E)	1850	2	186595 222715
	Water Abstractions Operator: Mr G D Lovegrove Licence Number: 22/61/2/0036 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 100 Yearly Rate (m3): 7201 Details: Brandy Brook 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	(E)	1869	3	186400 222410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	184767 223000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	185000 223000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A15NE (E)	0	2	185000 222680
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A15NE (W)	0	2	184767 222680
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
2	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	(E)	773	4	185313 222822
3	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 280.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	853	4	185089 222723

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	894	4	185329 222764
5	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	896	4	185329 222762
6	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NE (E)	959	4	185367 222711
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	960	4	185166 222633
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	978	4	185320 222657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	184767 222680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Cambrian Rocks (Undifferentiated)	(N)	0	1	184683 222891
9	BGS Recorded Mineral Sites Site Name: Penduffryn Location: Newgale, St Davids, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 188810 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Menevian Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A15NE (E)	863	1	184935 222701
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	184850 222680
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	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	A15NE (E)	0	1	184850 222680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A15NE (E)	0	1	185000 222680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Ancient Woodland Name: Not Supplied Reference: 4710 Area(m²): 8906.03 Type: Ancient and Semi-Natural Woodland	(NE)	967	2	185866 223151
11	Environmentally Sensitive Areas Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	A15NE (W)	0	7	184767 222680
12	Environmentally Sensitive Areas Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 484.375 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	A15NW (W)	931	7	184381 222643
13	National Parks Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales Status: Fully Designated - designated as a National Park Designation Date: 31st December 1951	A15NE (W)	140	2	184767 222680
14	Sites of Special Scientific Interest Name: St. Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 6858510.94 Source: Natural Resources Wales Reference: 108832wtj Designation Details: Mixed Biological And Geological Designation Date: 1st January 1954 Date Type: Notified	A15NE (S)	597	2	184780 222569
15	Special Areas of Conservation Name: St Davids / Ty Ddewi Multiple Areas: Y Total Area (m2): 9398841.84 Source: Natural Resources Wales Reference: UK0013045 Status: Designated	(NW)	674	2	184332 222914
16	Special Areas of Conservation Name: Pembrokeshire Marine / Sir Benfro Forol Multiple Areas: Y Total Area (m2): 1380663657.51 Source: Natural Resources Wales Reference: Uk0013116 Status: Designated	A15NW (W)	746	2	184473 222637
17	Special Areas of Conservation Name: West Wales Marine / Gorllewin Cymru Forol Multiple Areas: Y Total Area (m2): 7377173853.81 Source: Natural Resources Wales Reference: UK0030397 Status: Designated	A14NE (W)	832	2	184322 222527
18	Special Protection Areas Name: Ramsey And St Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 8462392.96 Source: Natural Resources Wales Reference: Uk9014062 Designation Date: 24th July 1996	(NW)	674	2	184332 222914




Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Natural Resources Wales Pembrokeshire County Council - Public Protection Division	June 2020 September 2017	Annually Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 October 2022	Quarterly 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 Environment Agency - Welsh Region Natural Resources Wales	January 2021 October 2022	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	As notified
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	January 2021 October 2022	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	October 2022 October 2022	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2022	Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
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	October 2022	Quarterly
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South West Area	October 2021 October 2022	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	July 2021 July 2022	Quarterly Quarterly
Local Authority Landfill Coverage Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council - Planning Department	February 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council - Planning Department	February 2016 October 2015	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council	July 2022 July 2022	Quarterly Quarterly
Areas of Unadopted Green Belt Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council	July 2022 July 2022	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2022	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 July 2019	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Pembrokeshire County Council - Environmental Health Department Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.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	The National Assembly for Wales - GI Services (Department of Planning & Countryside) Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

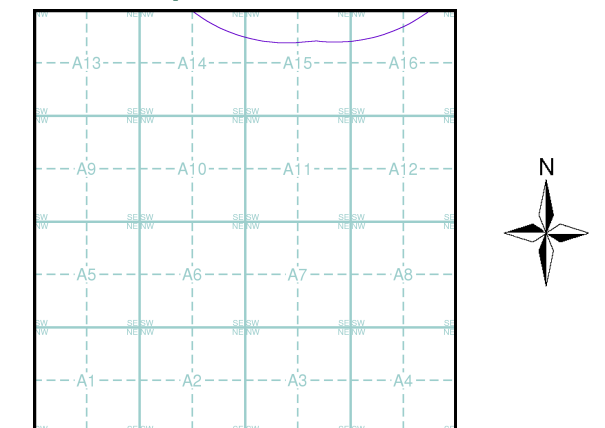
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1979	6
10K Raster Mapping	1:10,000	2000	7
Street View	Variable		8

Historical Map - Slice A



Order Details

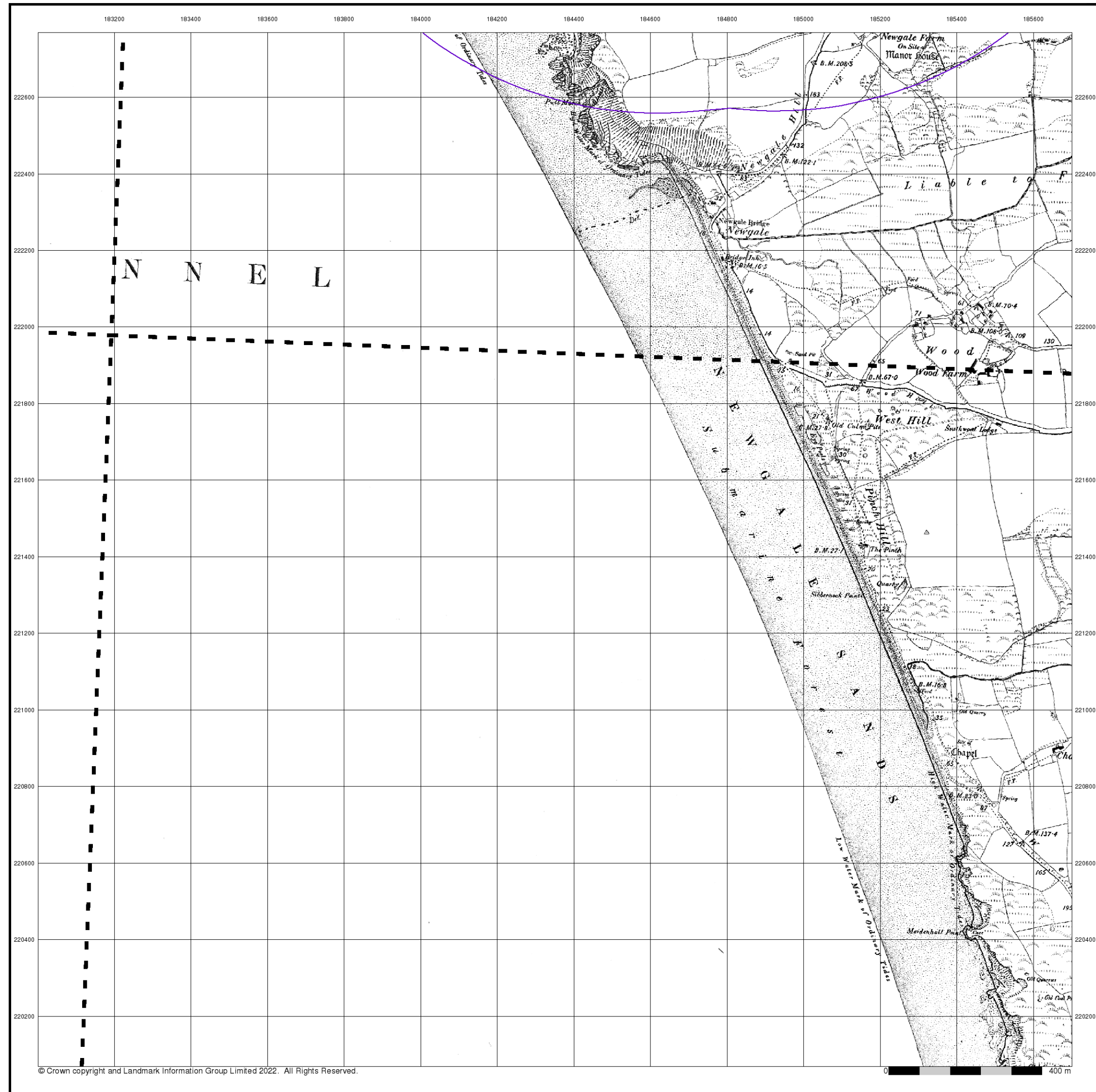
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

Landmark
INFORMATION GROUP

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



Pembrokeshire

Published 1888

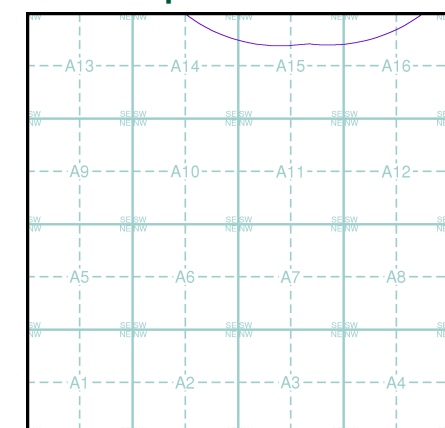
Source map scale - 1:10,560

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)

021NW 1888 1:10,560	021NE 1888 1:10,560
	021SE 1888 1:10,560

Historical Map - Slice A



Order Details

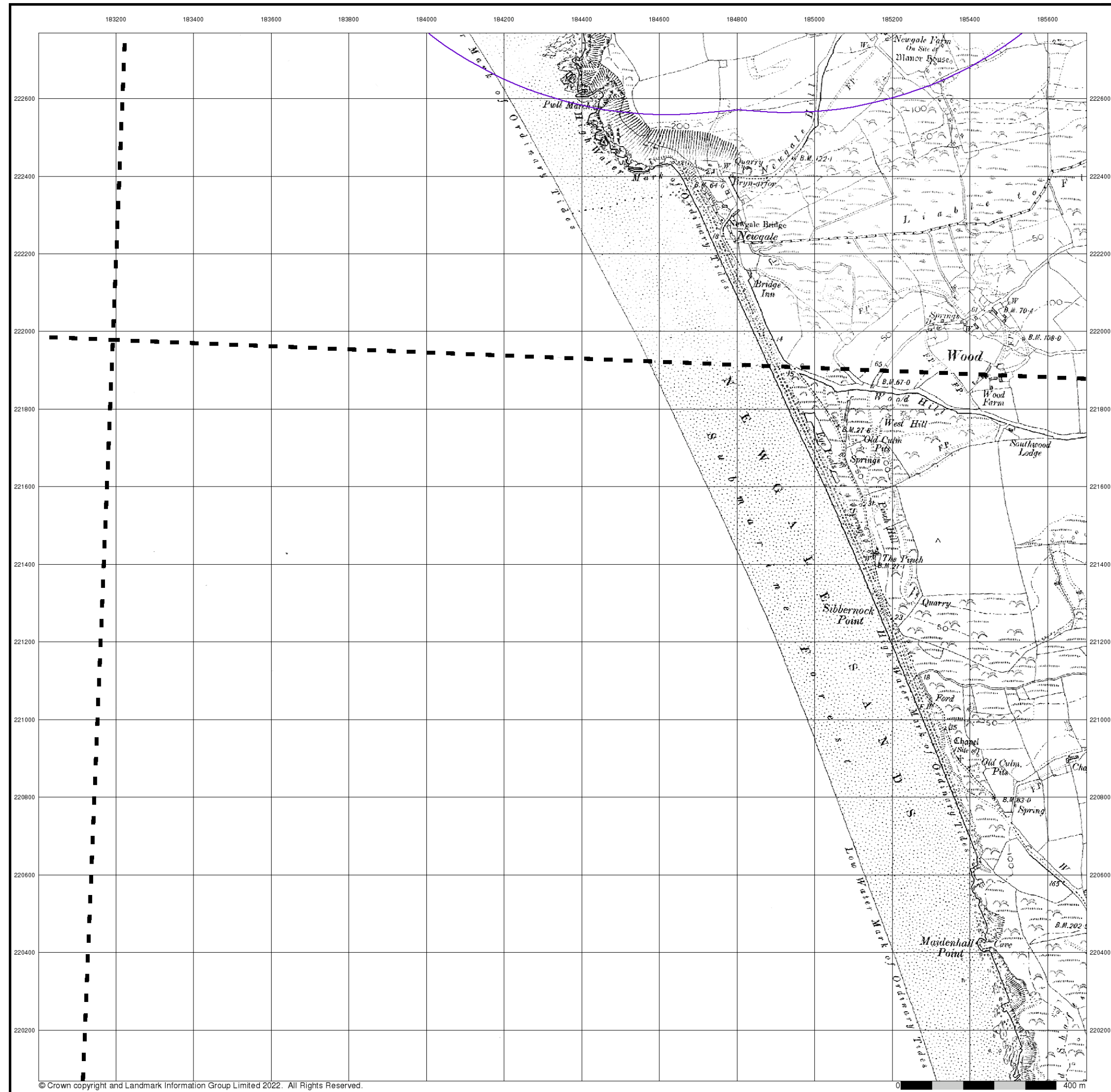
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site



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Pembrokeshire

Published 1908

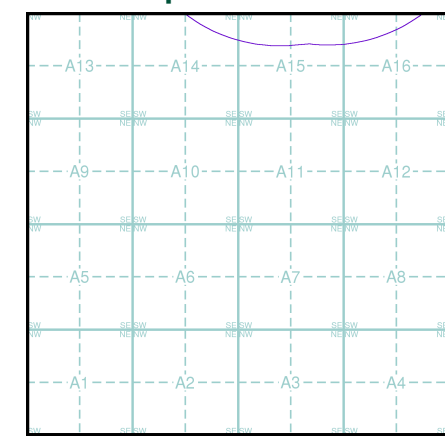
Source map scale - 1:10,560

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)

021NW 1908 1:10,560	021NE 1908 1:10,560
	021SE 1908 1:10,560

Historical Map - Slice A



Order Details

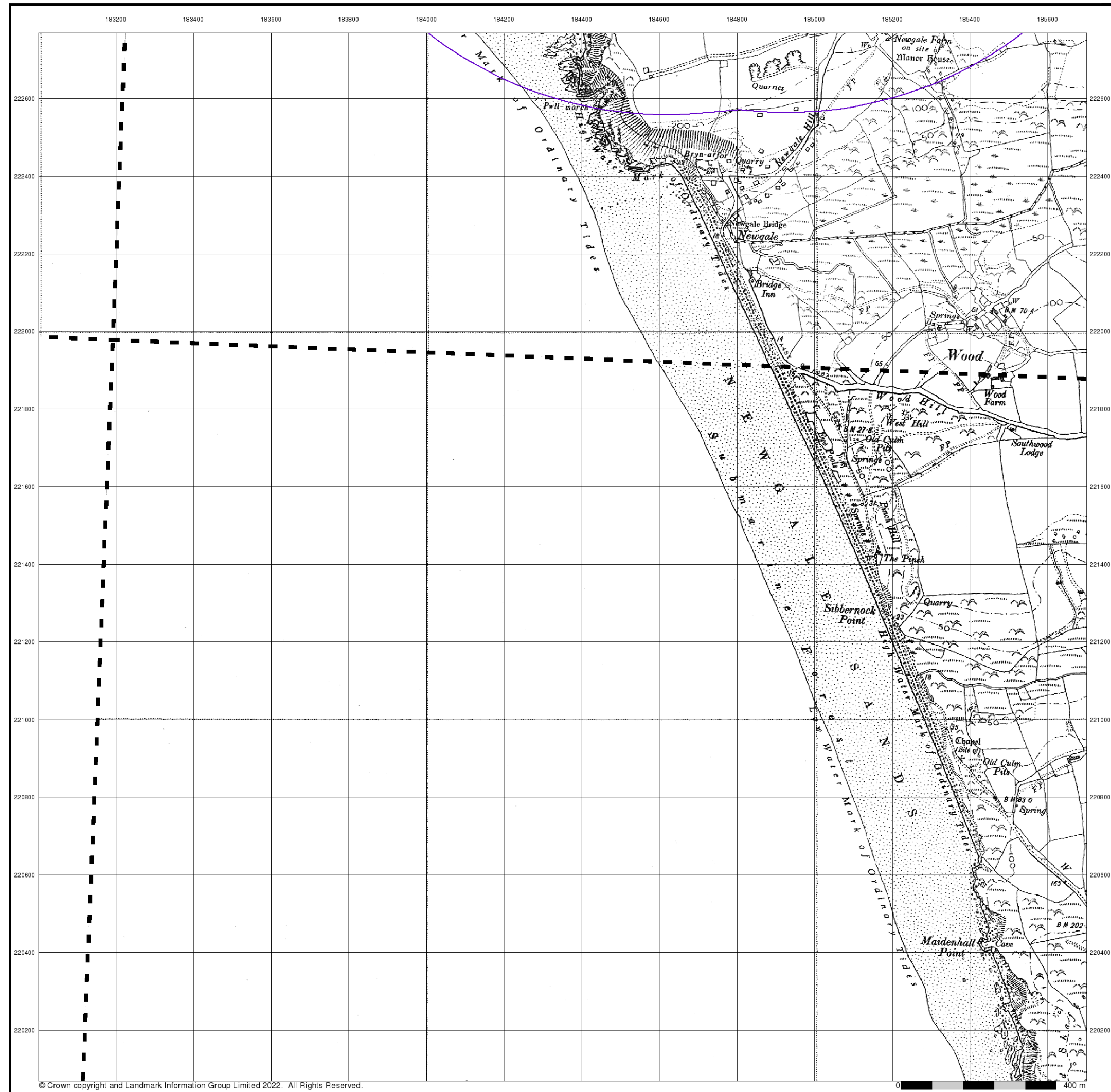
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

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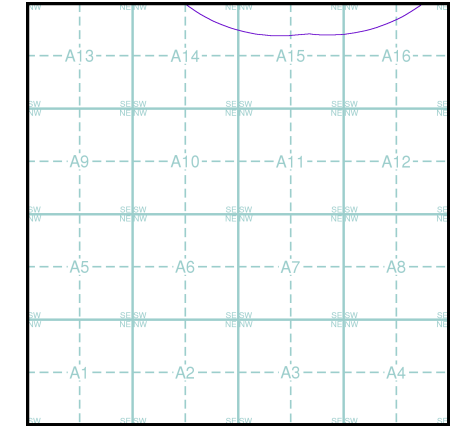
Published 1953
Source map scale - 1:10,560

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)

021NW 1953 1:10,560	021NE 1953 1:10,560
	021SE 1953 1:10,560

Historical Map - Slice A



Order Details

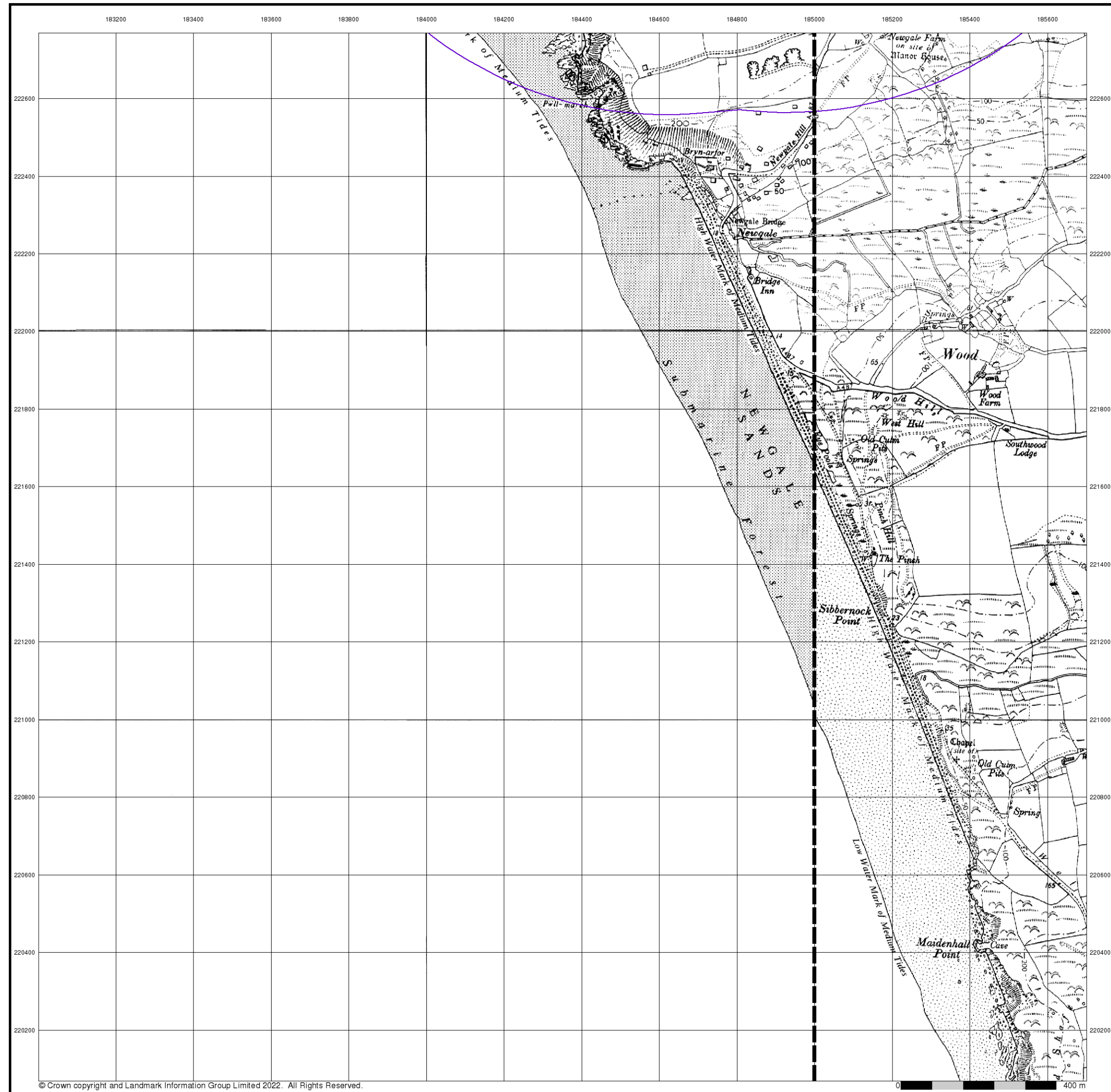
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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0 400 m



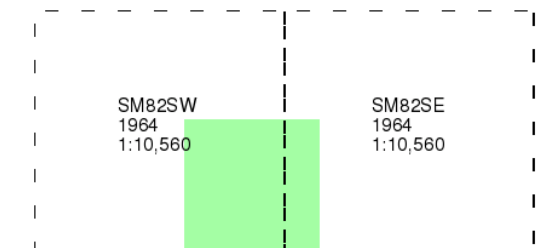
Ordnance Survey Plan

Published 1964

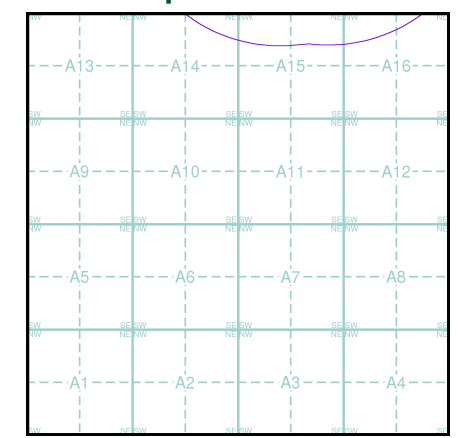
Source map scale - 1:10,000

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

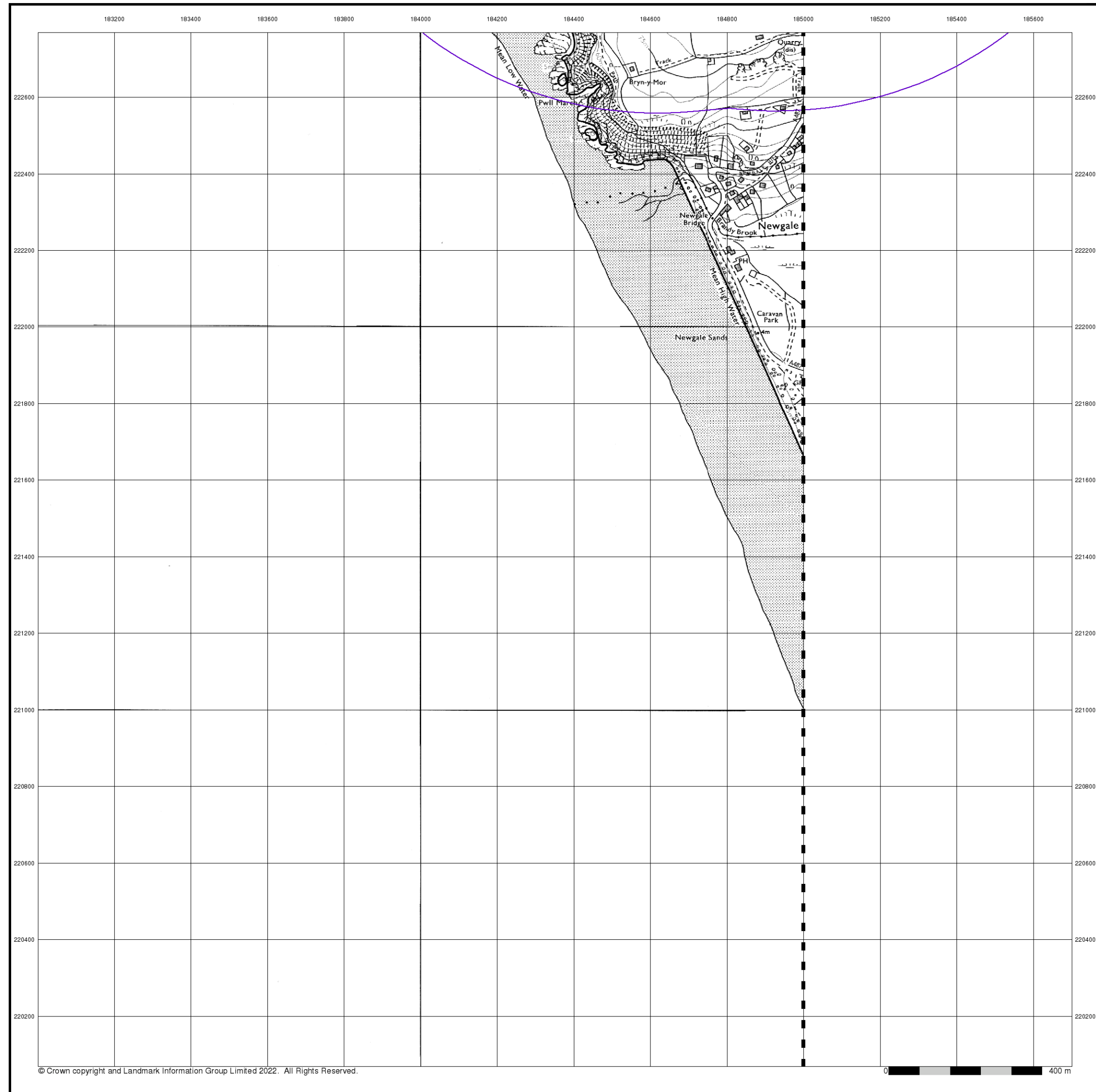
Order Number: 305022956_1_1
Customer Ref: 65208061
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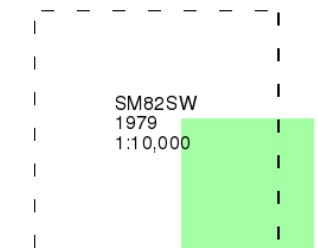
Ordnance Survey Plan

Published 1979

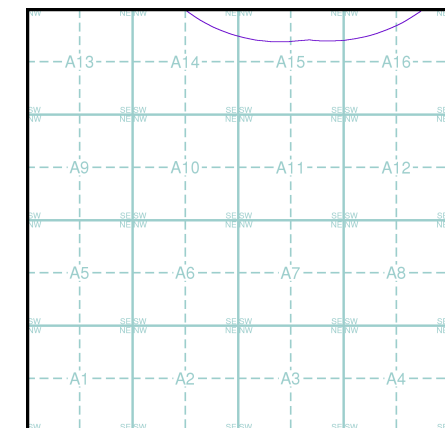
Source map scale - 1:10,000

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

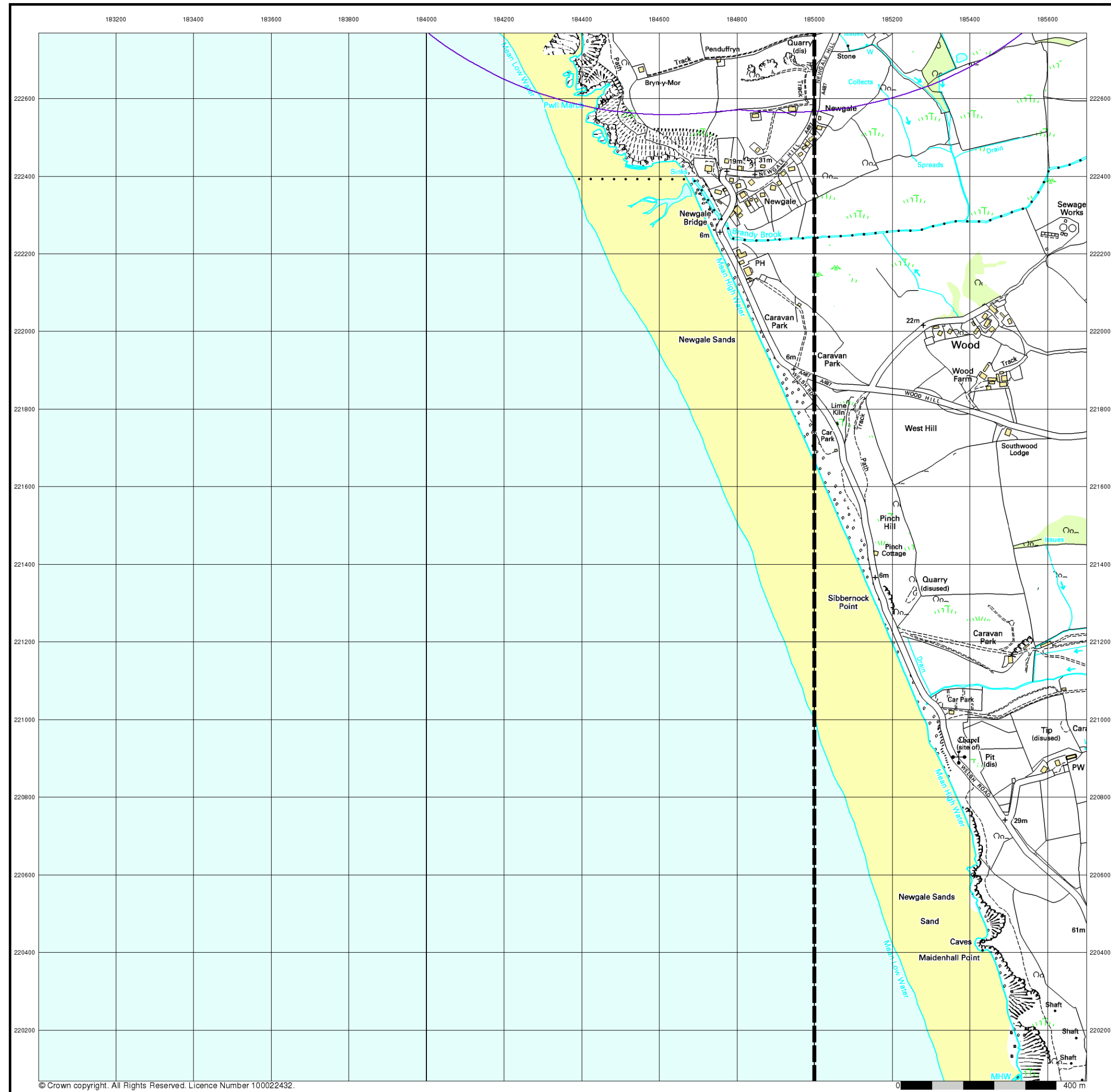
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

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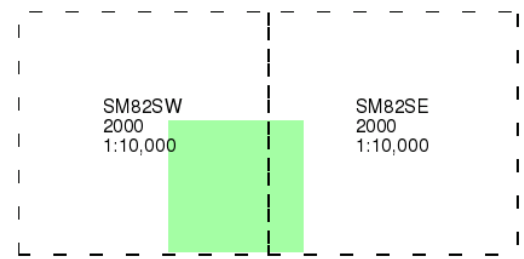
10k Raster Mapping

Published 2000

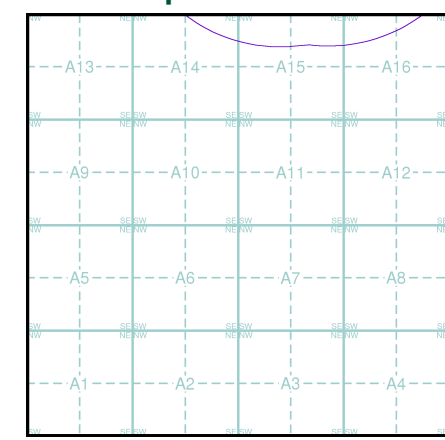
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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Street View

Published 2022

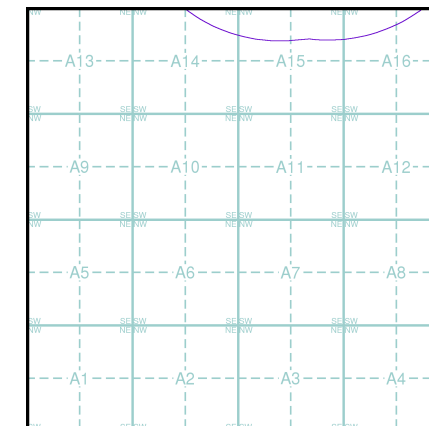
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

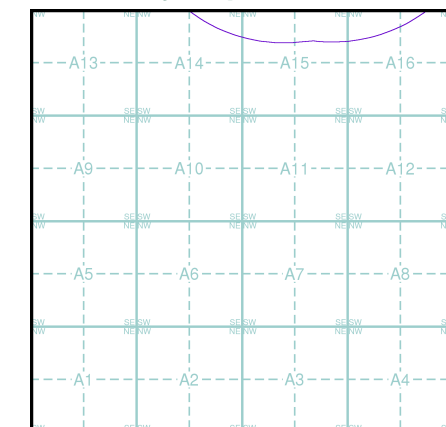
Landmark
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

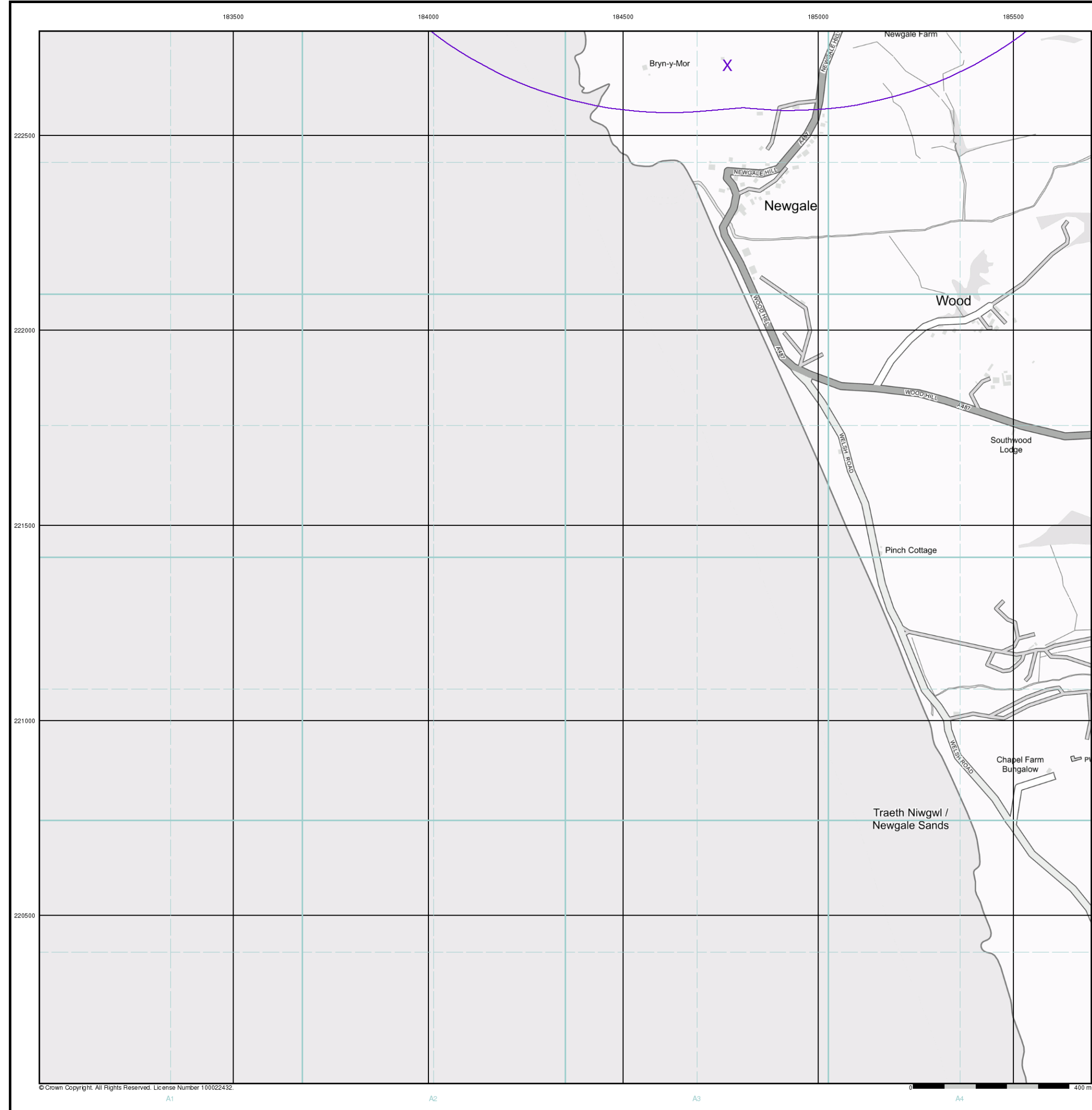
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site



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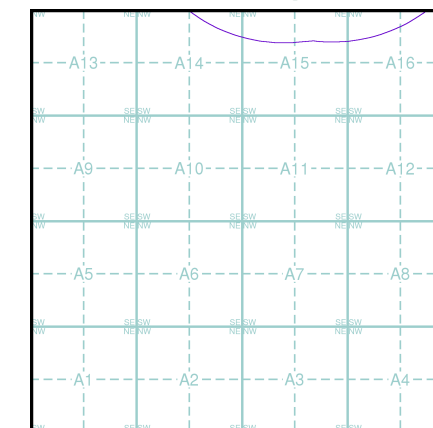
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SWECO

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
 - Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

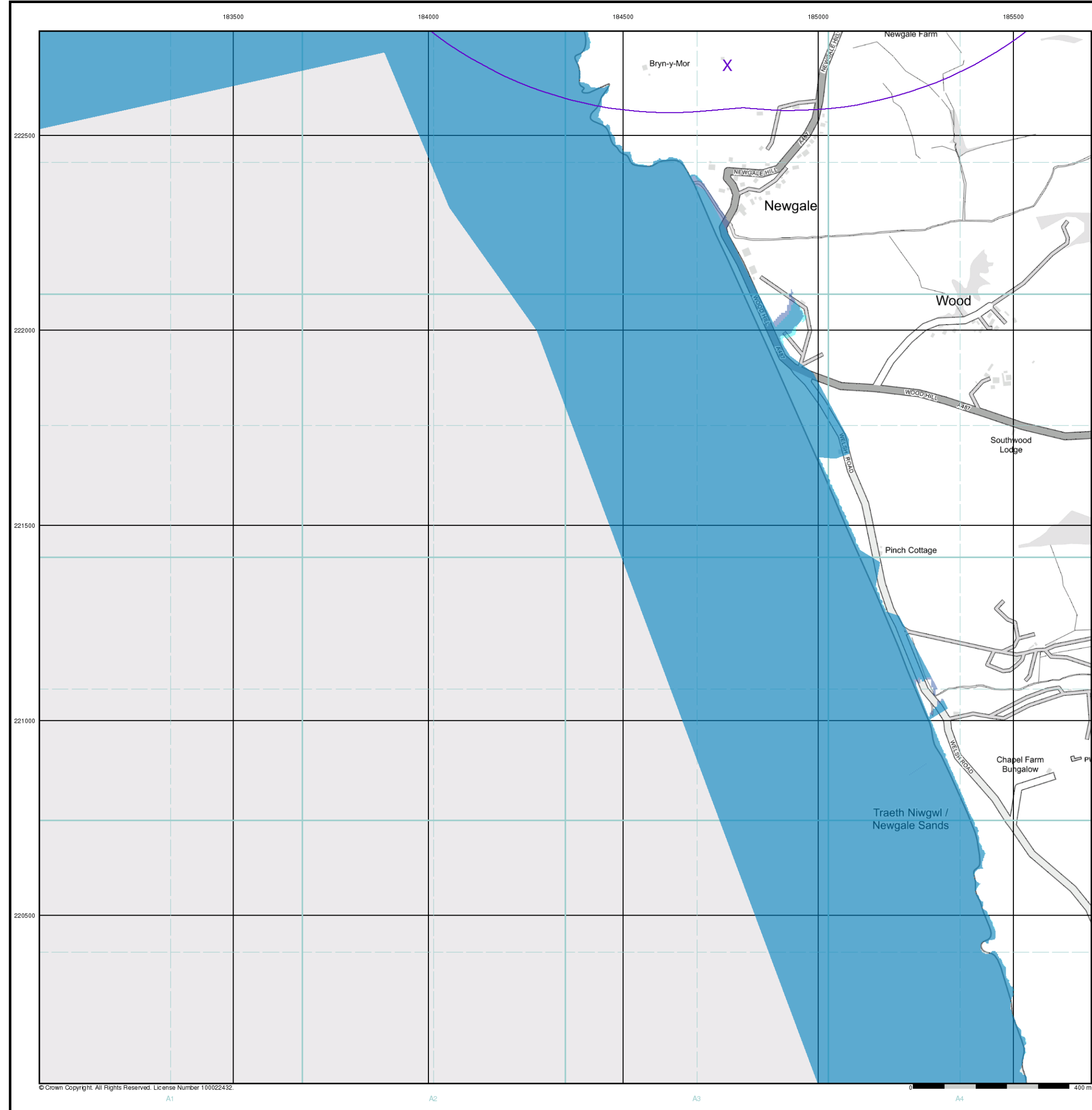
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184770, 222680
 Slice: A
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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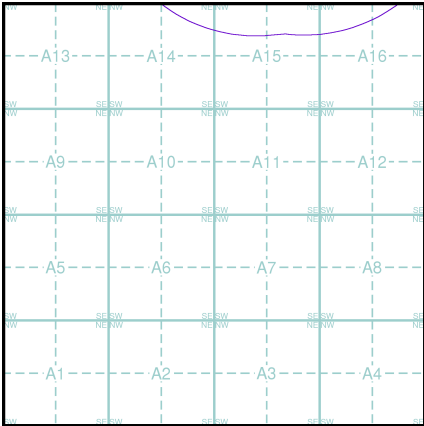
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

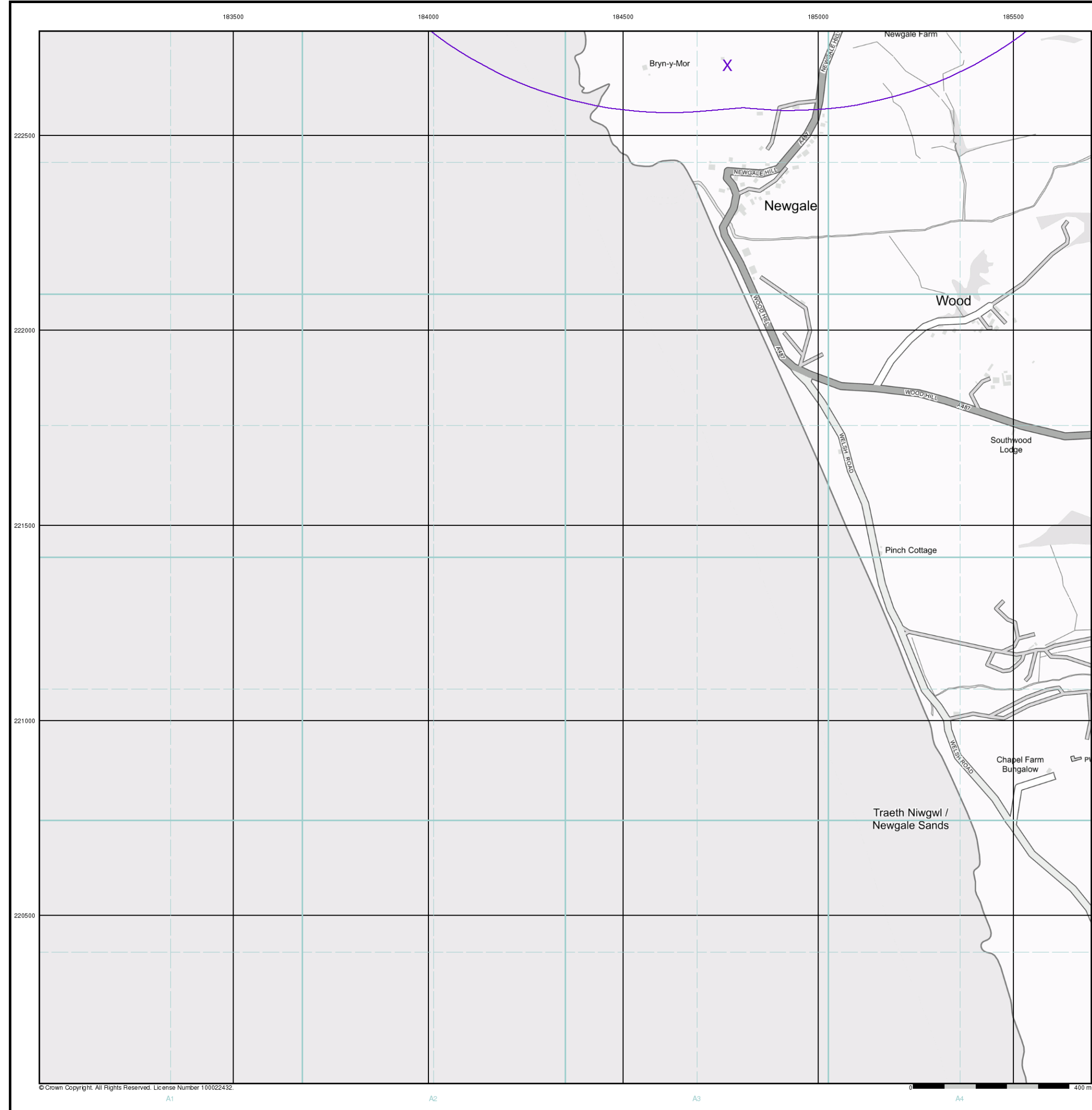


Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site



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General

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

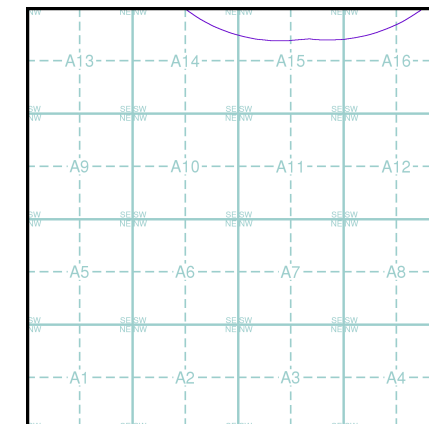
Agency and Hydrological (Boreholes)

- 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

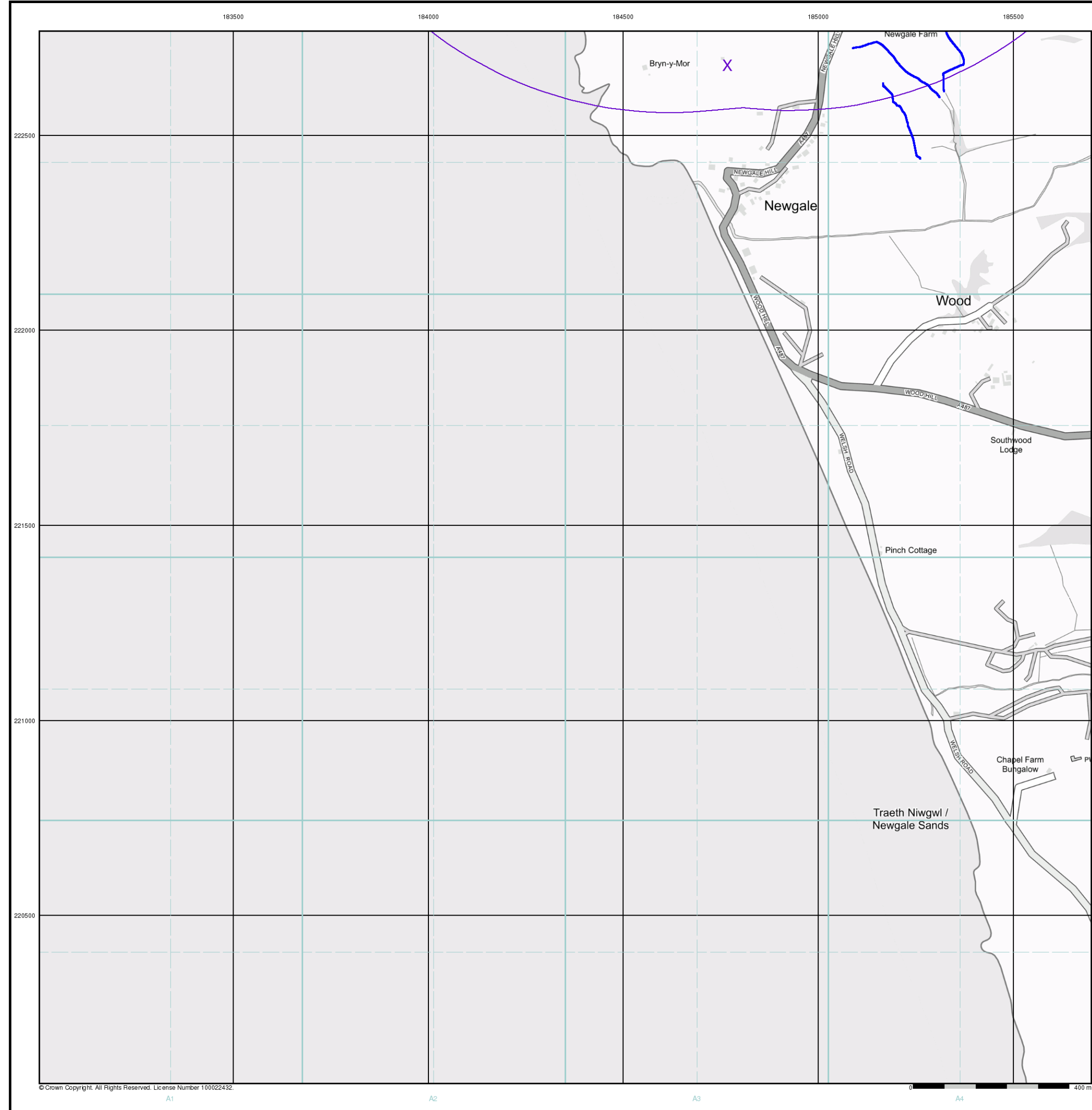
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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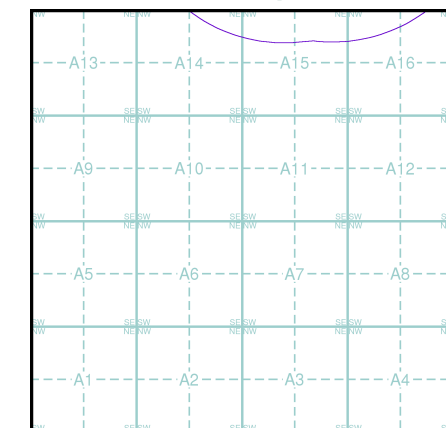
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



Order Details

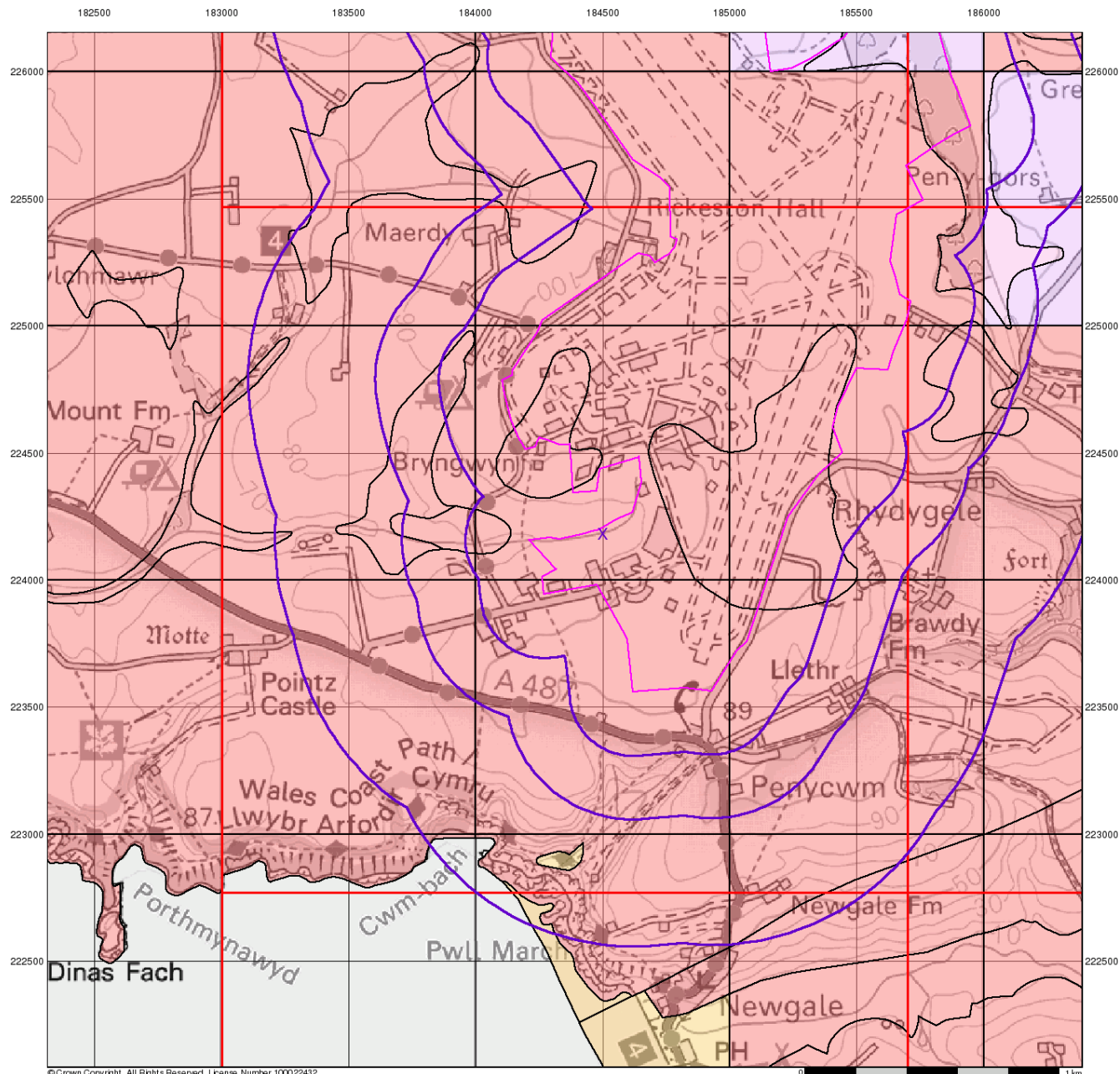
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

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SWECO

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

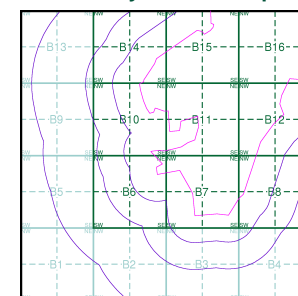
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice B



Order Details

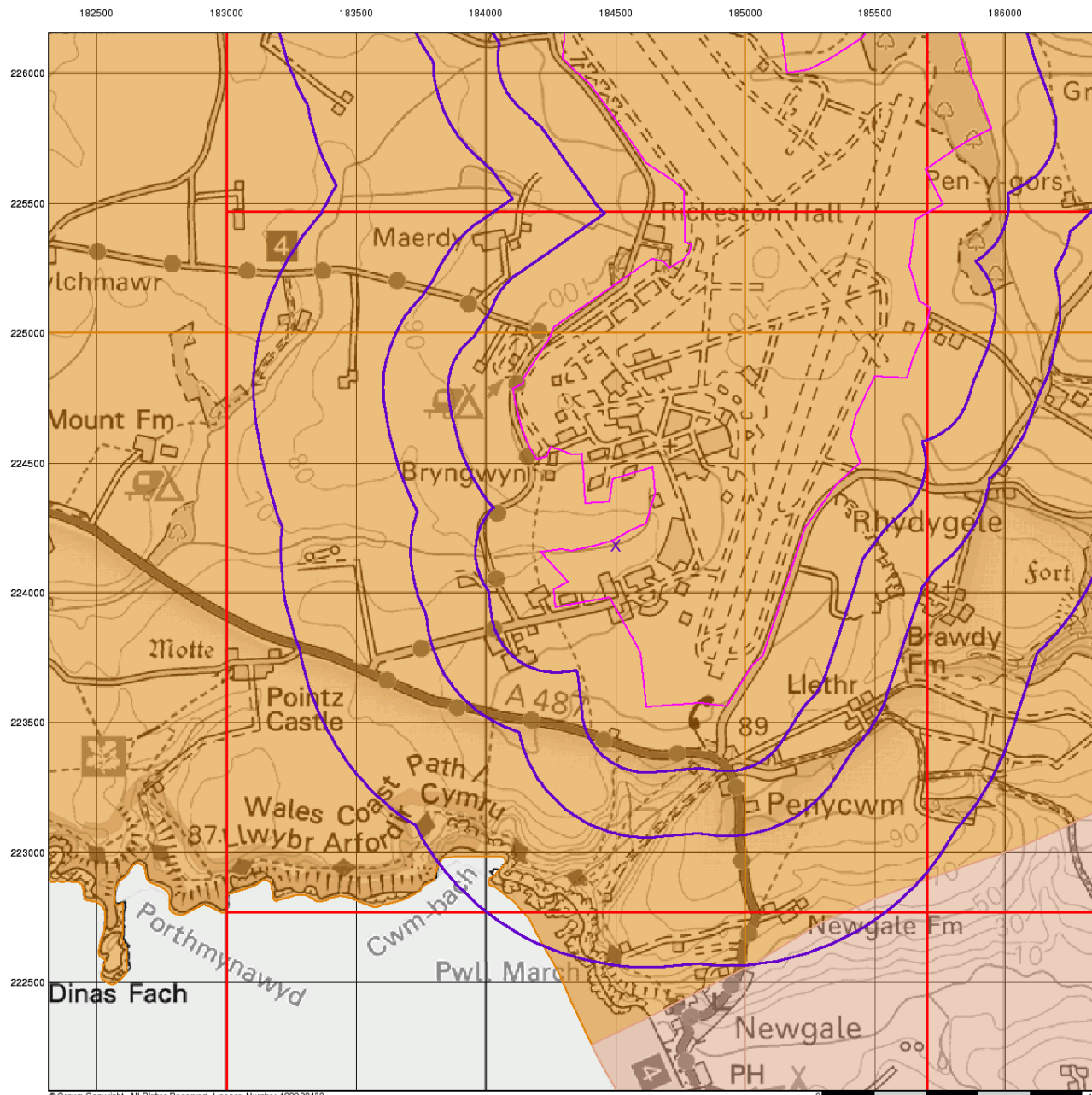
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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0 1 km

SWECO

Bedrock Aquifer Designation

General

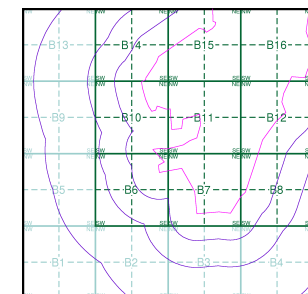
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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 B



Order Details

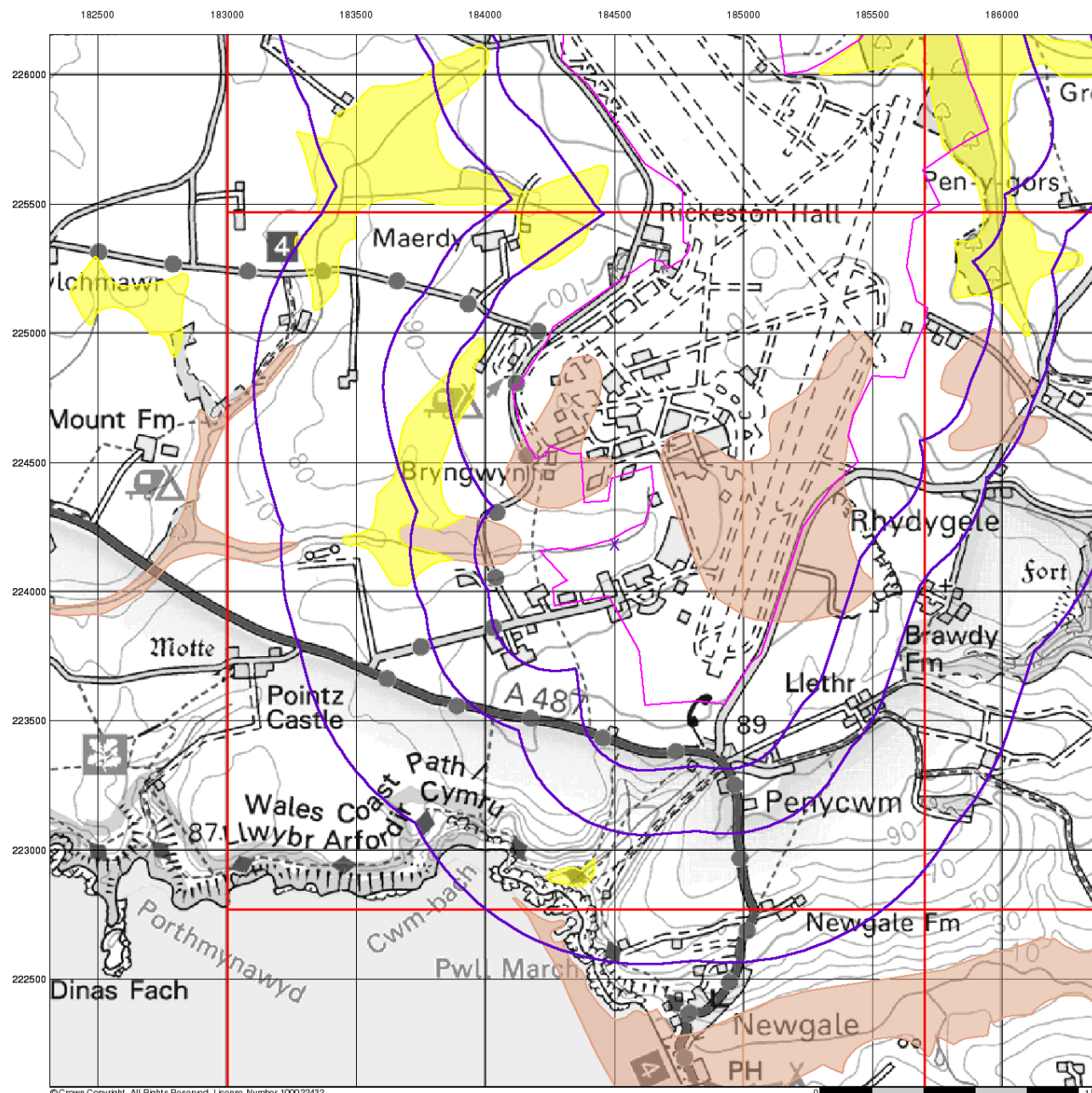
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

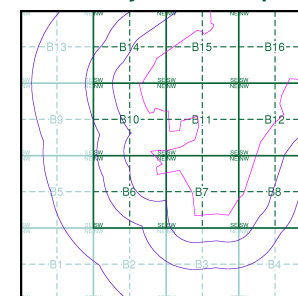
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B



Order Details

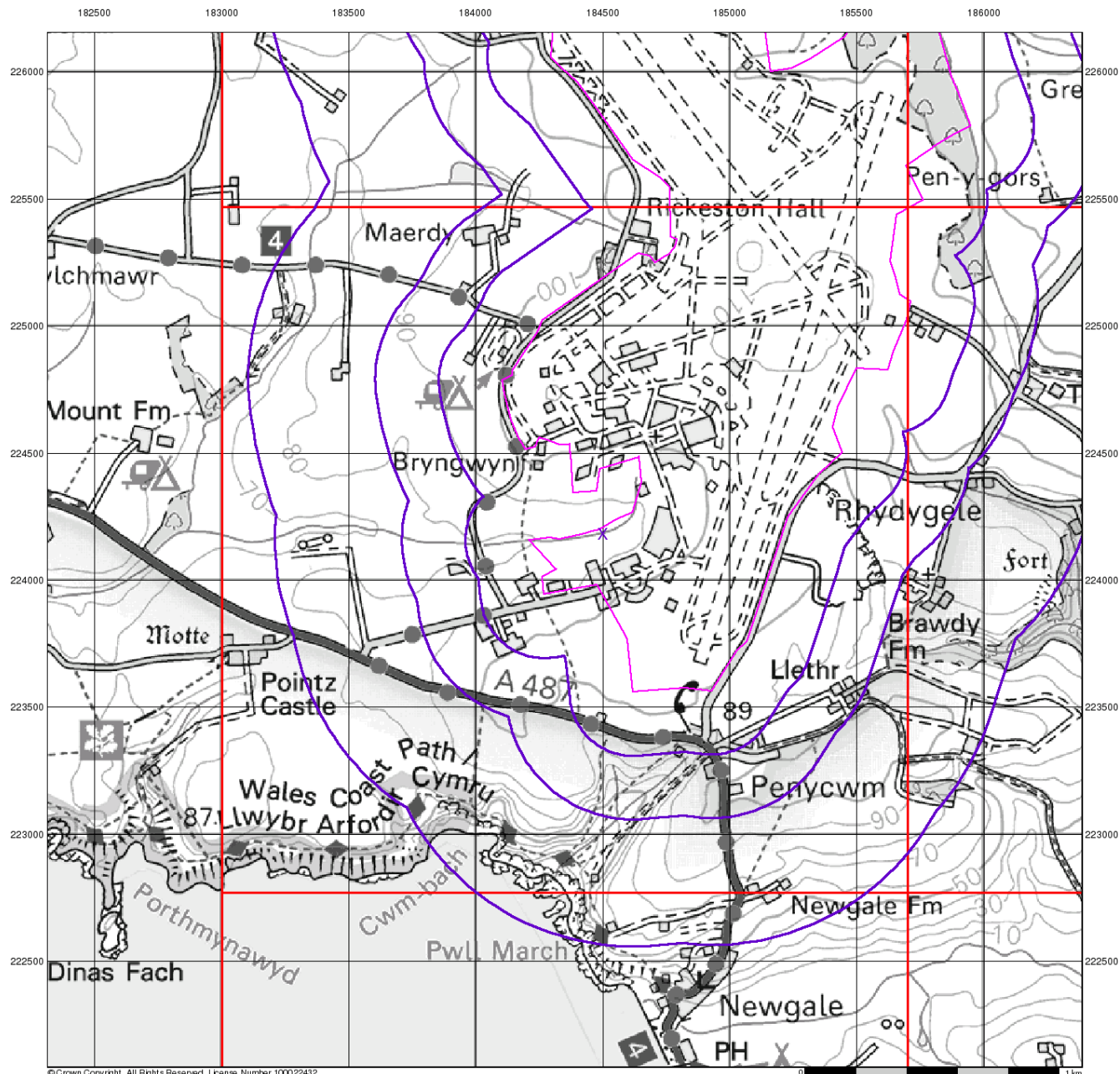
Order Number: 305022956_1_1
 Customer Ref: 65208061
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 Slice: B
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SWECO

Source Protection Zones

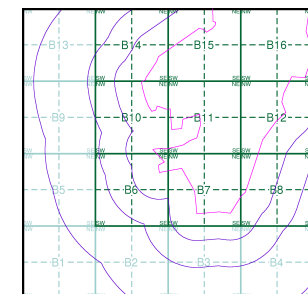
General

- 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 B



Order Details

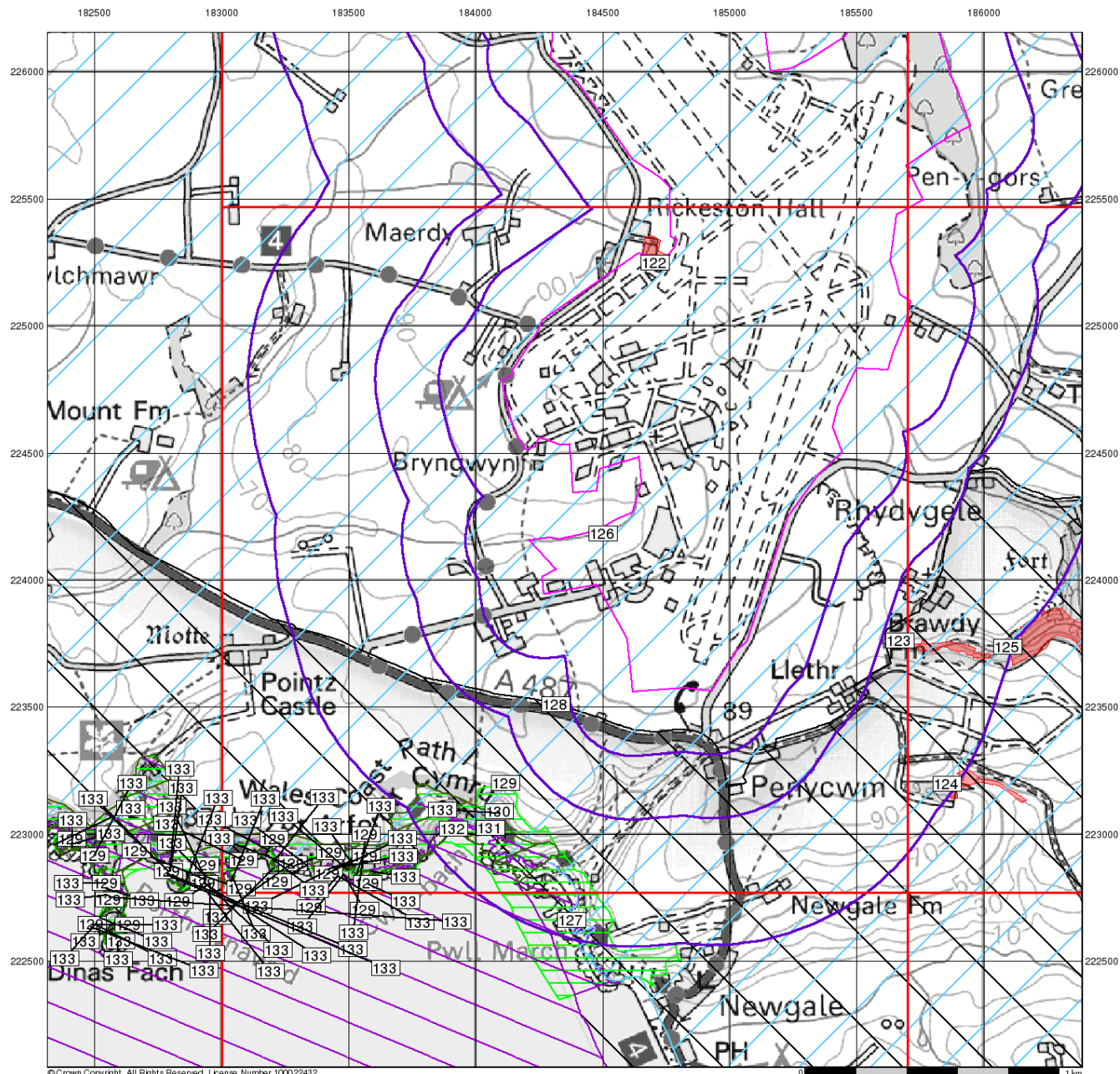
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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SWECO

Sensitive Land Uses

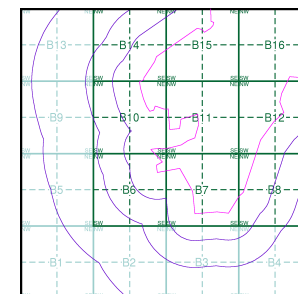
General

- 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 B



Order Details

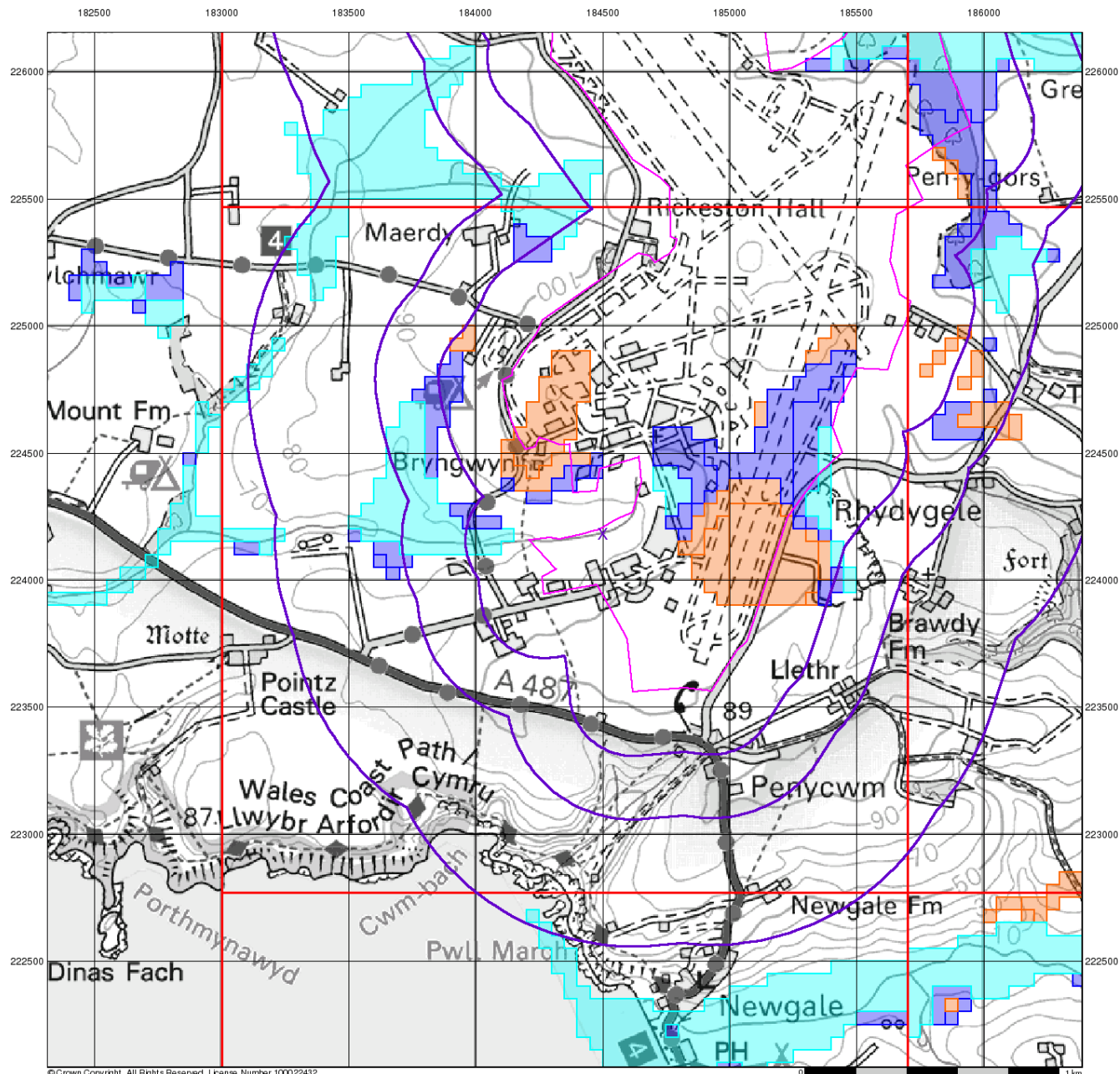
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
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BGS Flood GFS Data

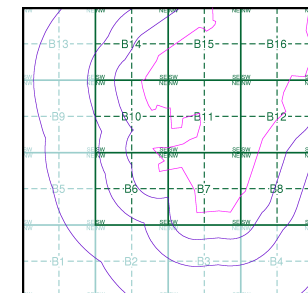
General

- ◇ Specified Site
- ◇ Specified Buffer(s)
- X 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 B



Order Details

Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site



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

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

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184500, 224180

Slice:

B

Site Area (Ha):

308.46

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1000

Site Details:

Cawdor site

Client Details:

Ms C Bithell
Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	28
Hazardous Substances	-
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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 4		3	3	17
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9	Yes			
Pollution Incidents to Controlled Waters	pg 9		11	1	2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 12	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 17	11	27	21	36

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 28	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
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					
Geological					
BGS 1:625,000 Solid Geology	pg 29	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 29	1	1	2	5
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 30			1	
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 30	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	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	pg 33	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 33	Yes	n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 34		5		
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 35	1			3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 35	1			1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 35		1		
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 35				1
Special Areas of Conservation	pg 35				3
Special Protection Areas	pg 36				1
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 of Property Situated Below Ground Level	B11SE (E)	0	1	184800 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185600 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B16SE (NE)	0	1	185450 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B7NE (E)	0	1	184850 224100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B11SE (E)	0	1	185000 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184950 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B11SE (E)	0	1	184750 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184850 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B12SW (E)	0	1	185200 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	0	1	185250 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (NE)	0	1	184700 224450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184900 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B10SE (NW)	0	1	184250 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SW (N)	0	1	184500 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SW (N)	0	1	184500 224450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185750 225850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185950 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B11SE (E)	0	1	184800 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B11SE (E)	0	1	185000 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B16SW (NE)	0	1	185300 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185300 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185450 226000

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	(NE)	0	1	185400 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184750 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B12NW (NE)	0	1	185100 224600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B10SE (NW)	0	1	184300 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B12SW (E)	0	1	185300 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (NE)	0	1	185000 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SW (NW)	0	1	184400 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	3	1	185800 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	16	1	185250 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	57	1	185300 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B10SE (W)	60	1	184150 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	72	1	185850 225600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B12SW (E)	83	1	185300 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SE (NW)	84	1	184300 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B14NE (N)	99	1	184350 225300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	103	1	185800 225150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	115	1	185750 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SE (W)	118	1	184100 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SE (NW)	123	1	184150 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	126	1	185350 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	138	1	185900 225500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	143	1	185800 224850

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	B12SW (E)	146	1	185350 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	148	1	186000 225550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SW (W)	154	1	183850 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B14SW (NW)	154	1	184000 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B14SW (NW)	155	1	183950 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B8NW (E)	160	1	185300 223950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B14NE (N)	166	1	184300 225250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	167	1	185900 225350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	169	1	185850 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	170	1	186050 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B8NW (E)	192	1	185350 224000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B12SE (E)	194	1	185400 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	203	1	185900 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B8NE (E)	224	1	185400 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	244	1	185950 225150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	251	1	185800 224550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B8NE (E)	272	1	185450 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	274	1	185900 224750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	281	1	185950 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	311	1	186000 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	330	1	185900 224600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	384	1	186000 224700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B6NW (W)	463	1	183750 224100
1	Discharge Consents Operator: William E L Harries Property Type: HOLIDAY ACCOM/CAMP SITE/CARAVAN SITE/HOTEL/HOSTEL Location: Septic Tanks @ Park Hill Van Park, Pen Y Cwm, Haverfordwest, Pembrokeshire, Sa62 6ls Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Yb3790hg Permit Version: 2 Effective Date: 1st April 2017 Issued Date: 26th January 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	B14SW (NW)	198	2	183936 224890
1	Discharge Consents Operator: Mr William E L Harries Property Type: Other Tourist/Short Stay Accommodation Location: Septic Tanks @ Park Hill Van Park, Pen Y Cwm, Haverfordwest, Pembrokeshire, Sa62 6ls Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Epryb3790hg Permit Version: 1 Effective Date: 1st June 2016 Issued Date: 1st June 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Not Supplied Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	B14SW (NW)	198	2	183936 224890
1	Discharge Consents Operator: William E L Harries Property Type: HOLIDAY ACCOM/CAMP SITE/CARAVAN SITE/HOTEL/HOSTEL Location: Septic Tanks @ Park Hill Van Park, Pen Y Cwm, Haverfordwest, Pembrokeshire, Sa62 6ls Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Yb3790hg Permit Version: 1 Effective Date: 1st June 2016 Issued Date: 1st June 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Not Supplied Status: Effective Positional Accuracy: Located by supplier to within 10m	B14SW (NW)	198	2	183936 224890
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penycwm Ps Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: BH0057004 Permit Version: 1 Effective Date: 29th October 1976 Issued Date: 29th October 1976 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Cwm Mawr Strea Status: Effective Positional Accuracy: Located by supplier to within 100m	B3NE (S)	273	2	184800 223300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Stations Location: Penycwm Ps Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bh0057004 Permit Version: 1 Effective Date: 29th October 1976 Issued Date: 29th October 1976 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Cwm Mawr Strea Status: Effective Positional Accuracy: Located by supplier to within 100m	B3NE (S)	273	2	184800 223300
3	Discharge Consents Operator: Carter D M & H M Property Type: Undefined Or Other Location: Old Barn Lwr. Llethr Penycwm Haverf, Penycwm Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0192101 Permit Version: 1 Effective Date: 2nd May 1978 Issued Date: 2nd May 1978 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: To Land Nr. Brandy Brook Status: Consent expired Positional Accuracy: Located by supplier to within 100m	B8SE (SE)	368	2	185400 223600
4	Discharge Consents Operator: 14th Signal Regiment (Ew) Property Type: Sewage Disposal Works - Water Company Location: Cawdor Barracks Brawdy Haverfordwe, Brawdy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0239501 Permit Version: 2 Effective Date: 15th April 1998 Issued Date: 15th April 1998 Revocation Date: 1st February 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Not Supplied Environment: Receiving Water: Brawdy Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	B9SE (W)	773	2	183440 224230
4	Discharge Consents Operator: 14th Signal Regiment (Ew) Property Type: Sewage Disposal Works - Water Company Location: Cawdor Barracks Brawdy Haverfordwe, Brawdy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 1 Effective Date: 28th March 1995 Issued Date: 28th March 1995 Revocation Date: 14th April 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Not Supplied Environment: Receiving Water: Brawdy Stream Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	B9SE (W)	773	2	183440 224230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: 14th Signal Regiment (Ew) Property Type: Undefined Or Other Location: Cawdor Barracks Brawdy Haverfordwe, Brawdy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP026980101 Permit Version: 1 Effective Date: 18th May 1998 Issued Date: 18th May 1998 Revocation Date: 18th February 2002 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Brawdy Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	B9SE (W)	802	2	183410 224220
4	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 5 Effective Date: 29th March 2022 Issued Date: 6th September 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge: Freshwater Stream/River Environment: Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 5 Effective Date: 29th March 2022 Issued Date: 6th September 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge: Freshwater Stream/River Environment: Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 4 Effective Date: 28th March 2022 Issued Date: 4th April 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge: Freshwater Stream/River Environment: Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 4 Effective Date: 28th March 2022 Issued Date: 4th April 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 3 Effective Date: 23rd March 2018 Issued Date: 23rd March 2018 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 3 Effective Date: 23rd March 2018 Issued Date: 23rd March 2018 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Kelda Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Kelda Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Kelda Water Services (Estates) Limited Property Type: Any Mod Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp026980101 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Sewage Treatment Works Storm Overflow/Storm Tank - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	Discharge Consents Operator: Kelda Water Services (Estates) Limited Property Type: Any Mod Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp026980101 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Sewage Treatment Works Storm Overflow/Storm Tank - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
5	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, 14th Signal Regiment, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 7 Effective Date: 1st April 2022 Issued Date: 6th September 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, 14th Signal Regiment, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 6 Effective Date: 31st March 2022 Issued Date: 4th April 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160
5	Discharge Consents Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 5 Effective Date: 5th April 2018 Issued Date: 5th April 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160
5	Discharge Consents Operator: Kelda Water Services (Estates) Limited Property Type: Not Supplied Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 3 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Brawdy Stream Status: Effective Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160
	Nearest Surface Water Feature	B11SW (S)	0	-	184515 224151
6	Pollution Incidents to Controlled Waters Property Type: Airports/Aircraft Location: Garden Centre Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accidental Spillage/Leakage Incident Date: 19th November 1991 Incident Reference: 2372 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B11SW (NE)	39	3	184600 224345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Pollution Incidents to Controlled Waters Property Type: Airports/Aircraft Location: Airfield Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Accidental Spillage/Leakage Incident Date: 19th November 1991 Incident Reference: 2372 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B11SW (NE)	40	3	184600 224350
7	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 February 1996 Incident Reference: 27317 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	B15NE (N)	67	3	184700 225400
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Diesel Tank Leaking Incident Date: 9th February 1996 Incident Reference: 27317 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	B15NE (N)	67	3	184700 225395
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Rickeston Mill Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 11th February 1996 Incident Reference: 27334 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	B15NW (N)	117	3	184600 225395
8	Pollution Incidents to Controlled Waters Property Type: Road Location: Rickeston Mill Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Not Supplied Incident Date: 11th February 1996 Incident Reference: 27334 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	B15NW (N)	121	3	184600 225400
9	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Other Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Blocked Sewer Incident Date: 5th November 1991 Incident Reference: 2354 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B10SE (W)	118	3	184100 224200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Pollution Incidents to Controlled Waters Property Type: Building Sites Location: Broadly, Aerodrome Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 12th April 1996 Incident Reference: 28049 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	B15NW (N)	156	3	184610 225450
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent To The River, Near Pandy, Brawdy Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 12th April 1996 Incident Reference: 28049 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	B15NW (N)	156	3	184610 225445
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Pond Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28614 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	B3NE (S)	169	3	184750 223400
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: In Pond, Near Riverside Vet Surgery, Top Of Newgale Beach Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28614 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	B3NE (S)	174	3	184750 223395
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Penycwm, Harp Lane, ST DAVID'S Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 12th August 1996 Incident Reference: 29667 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	B3NE (S)	278	3	184800 223295
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: North End, Newgale, PENYCWM Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 17th December 1996 Incident Reference: 30669 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	B3SW (S)	559	3	184600 223000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Other Location: Below Brawdy Stream Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Emergency Overflow Incident Date: 28th October 1994 Incident Reference: 21557 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B9SE (W)	811	3	183400 224200
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: <3m Thickness: No Data Superficial Recharge:	(N)	0	2	184501 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: <3m Thickness: No Data Superficial Recharge:	(NE)	0	2	185309 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: <3m Thickness: No Data Superficial Recharge:	(N)	0	2	185000 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: <3m Thickness: No Data Superficial Recharge:	B15SW (N)	0	2	184501 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B15SE (NE)	0	2	185000 225000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B7NW (S)	0	2	184501 224000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B7NE (SE)	0	2	185000 223908
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B11SW (W)	0	2	184501 224184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11NE (NE)	0	2	185000 224501
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B12SE (E)	0	2	185405 224246
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11SW (NW)	0	2	184409 224372
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11SE (E)	0	2	184753 224272

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B11SE (E)	0	2	185000 224184
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B7NE (SE)	0	2	184870 224000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B7NE (E)	0	2	185000 224000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - Medium Vulnerability Classification: Medium Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	(NE)	0	2	185298 226002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	(NE)	0	2	185816 225140
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	B16SE (NE)	0	2	185421 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B15SE (NE)	0	2	185000 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B15SW (N)	0	2	184501 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B11SE (E)	0	2	185000 224184
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B11SW (W)	0	2	184501 224184
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(NE)	0	2	185816 225140
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B16SE (NE)	0	2	185421 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B11SE (E)	0	2	185000 224184
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B11SW (NW)	0	2	184409 224372
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B11SE (E)	0	2	184753 224272
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (S)	0	4	184515 224151
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (SW)	0	4	184459 224143
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (W)	0	4	184413 224177
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (W)	0	4	184417 224178
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (W)	0	4	184421 224179
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 457.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (NW)	0	4	184495 224199
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184642 224489
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184641 224494
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184640 224504

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184642 224509
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (SW)	0	4	184463 224140
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B10SE (W)	9	4	184200 224158
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	9	4	184200 224158
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NE (N)	32	4	184724 225297
29	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	67	4	184667 225348
30	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	74	4	184604 225350
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	74	4	184604 225350
32	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B15NW (N)	75	4	184619 225357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B15NW (N)	89	4	184612 225370
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 403.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	98	4	184598 225374
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B7SE (SE)	111	4	184945 223455
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 358.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B14SW (NW)	120	4	183992 224850
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	136	4	185206 223740
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (SE)	156	4	184934 223409
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	172	4	184039 224134
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	174	4	184037 224133
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	186	4	185263 223757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 497.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	187	4	184025 224126
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	204	4	185263 223697
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	222	4	185166 223524
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	225	4	185234 223607
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	227	4	185250 223623
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	227	4	185250 223623
48	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	236	4	185209 223562
49	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	237	4	185210 223567
50	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	238	4	185209 223562

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B8SW (SE)	246	4	185284 223640
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	246	4	185284 223640
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (S)	263	4	184797 223310
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (S)	268	4	184828 223306
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	284	4	185326 223639
56	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	295	4	185337 223637
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (S)	309	4	184781 223263
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	321	4	184524 223252
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	331	4	184531 223239

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	331	4	184515 223241
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 284.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SE (SE)	334	4	185376 223629
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	334	4	184546 223233
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 271.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B10NW (W)	401	4	183703 224498
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 271.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10NW (W)	405	4	183697 224497
65	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: St Davids Head and St Brides North Primacy: 1	B3NW (S)	421	4	184544 223144
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	430	4	184573 223131
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	433	4	184557 223130
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8NE (E)	440	4	185597 223959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	441	4	184554 223122
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B3NW (S)	441	4	184554 223122
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1002.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	(N)	448	4	184151 225539
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 238.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	473	4	184568 223088
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 279.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	489	4	183673 224447
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SE (E)	501	4	185601 223775
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 950.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B8SE (E)	503	4	185604 223776
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 857.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SE (E)	503	4	185604 223776
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	593	4	184448 222991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	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: St Davids Head and St Brides North Primacy: 1	B3SW (S)	597	4	184442 222988
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	613	4	184435 222974
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	630	4	183584 224231
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	635	4	183579 224231
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 707.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	656	4	183557 224223
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	660	4	184406 222934
84	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	671	4	185163 222935
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	673	4	185170 222935
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	678	4	185180 222934

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	724	4	185274 222927
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SE (NW)	728	4	183460 225125
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	734	4	183469 225154
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	740	4	185286 222915
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	743	4	183449 225138
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	744	4	185289 222913
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	767	4	185295 222890
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	773	4	185301 222886
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SE (NW)	794	4	183351 225042

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SE (NW)	798	4	183370 225099
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SW (NW)	809	4	183328 225029
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 612.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SW (NW)	811	4	183318 225004
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	884	4	183362 225267
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	884	4	183362 225267
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	885	4	183361 225268
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	888	4	183358 225267
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	893	4	183357 225274
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B2NW (SW)	894	4	183798 223177

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	932	4	183373 225365
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	936	4	183374 225372
107	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: St Davids Head and St Brides North Primacy: 1	B2SW (SW)	966	4	183834 222996
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 231.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B1SE (SW)	991	4	183664 223105
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B13NW (NW)	999	4	183316 225399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	184501 224184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Cambrian Rocks (Undifferentiated)	B7NW (SE)	0	1	184609 223932
	BGS 1:625,000 Solid Geology Description: Unnamed Extrusive Rocks, Neoproterozoic	B7NW (SE)	0	1	184672 223958
	BGS 1:625,000 Solid Geology Description: Upper Cambrian, Including Tremadoc	B11SW (W)	0	1	184501 224184
110	BGS Recorded Mineral Sites Site Name: Rickeston Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89683 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Ordovician Geology: Unnamed Igneous Intrusion, Ordovician Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	B16NW (NE)	0	1	185137 225330
111	BGS Recorded Mineral Sites Site Name: Brawdy Farm Sandpit Location: Penycwm, Brawdy, Haverfordwest, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 3748 Type: Opencast Status: Ceased Operator: Mason Brothers Quarry Products Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	B12SE (E)	177	1	185395 224175
112	BGS Recorded Mineral Sites Site Name: Pen-Y-Cwm Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89867 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: St Non'S Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B3NE (S)	305	1	184718 223261
113	BGS Recorded Mineral Sites Site Name: Pen-Y-Cwm Sand Pit Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89868 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: St Non'S Sandstone Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	B6SE (S)	330	1	184308 223449
114	BGS Recorded Mineral Sites Site Name: Newgale Farm Location: Newgale, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89870 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Menevian Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	B4SW (SE)	788	1	185203 222825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	BGS Recorded Mineral Sites Site Name: Tal-Y-Bont Location: Bryngwyn, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89857 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13SE (NW)	791	1	183350 225024
116	BGS Recorded Mineral Sites Site Name: Tal-Y-Bont Location: Bryngwyn, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89858 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13SW (NW)	838	1	183318 225077
117	BGS Recorded Mineral Sites Site Name: Flynnon Ddewi-Fach Location: Bryngwyn, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89695 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13NW (NW)	915	1	183309 225238
118	BGS Recorded Mineral Sites Site Name: Cwm Bach Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89869 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Neoproterozoic 3 (Late Precambrian) Geology: Ramsey Sound Group Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m	B2SW (SW)	978	1	183757 223097
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Man-Made Mining Cavities Easting: 184800 Northing: 223100 Distance: 473 Quadrant Reference: B3 Quadrant Reference: SE Bearing Ref: S Cavity Type: Shaft (Copper) Commodity: Copper Solid Geology Detail: No Details Superficial Geology: No Details Detail:	B3SE (S)	473	7	184800 223100
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SW (S)	0	1	184561 223557
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B16NW (NE)	0	1	185268 225457
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15NE (NE)	0	1	185000 225297
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15NE (NE)	0	1	185004 225288

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (SE)	18	1	185000 223644
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B12SE (E)	79	1	185405 224246
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SW (NW)	0	1	184409 224372
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B16SE (NE)	0	1	185421 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	184753 224272
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (SE)	0	1	185000 223908
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11NE (NE)	0	1	185000 224501
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10SE (W)	73	1	184140 224196
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14NE (N)	129	1	184221 225249
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14NE (N)	129	1	184221 225249
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10SW (W)	143	1	183922 224290
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B7NW (SE)	0	1	184600 223950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	185000 224100
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	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	B7NW (SE)	0	1	184600 223950
	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	B7NE (E)	0	1	185000 224100
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	Contemporary Trade Directory Entries Name: Cambrian Bears Ltd Location: Roch House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	B6NE (SW)	165	-	184128 223861
119	Contemporary Trade Directory Entries Name: Gengard Location: Newgale House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	B6NE (SW)	199	-	184093 223854
119	Contemporary Trade Directory Entries Name: Blindings Ltd Location: 1, Solva House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	B6NE (SW)	230	-	184059 223852
120	Contemporary Trade Directory Entries Name: Concept Foods Location: 3, Brawdy Business Pk, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	B6NE (SW)	167	-	184150 223827
121	Contemporary Trade Directory Entries Name: Period Oakdoors Ltd Location: 3, Maritime House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	B6NE (SW)	229	-	184098 223793

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Ancient Woodland Name: Not Supplied Reference: 4751 Area(m²): 6110.46 Type: Restored Ancient Woodland Site	B15NE (N)	0	2	184706 225249
123	Ancient Woodland Name: Not Supplied Reference: 4712 Area(m²): 8596.98 Type: Ancient and Semi-Natural Woodland	B8SE (E)	570	2	185669 223762
124	Ancient Woodland Name: Not Supplied Reference: 4710 Area(m²): 8906.03 Type: Ancient and Semi-Natural Woodland	(SE)	967	2	185854 223196
125	Ancient Woodland Name: Not Supplied Reference: 4713 Area(m²): 119967.99 Type: Ancient and Semi-Natural Woodland	(E)	979	2	186095 223736
126	Environmentally Sensitive Areas Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	B11SW (W)	0	8	184501 224184
127	Environmentally Sensitive Areas Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 484.375 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	(S)	931	8	184376 222660
128	National Parks Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales Status: Fully Designated - designated as a National Park Designation Date: 31st December 1951	B6SE (S)	140	2	184315 223510
129	Sites of Special Scientific Interest Name: St. Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 6858510.94 Source: Natural Resources Wales Reference: 108832wtj Designation Details: Mixed Biological And Geological Designation Date: 1st January 1954 Date Type: Notified	B2NE (S)	597	2	184116 223201
130	Special Areas of Conservation Name: St Davids / Ty Ddewi Multiple Areas: Y Total Area (m2): 9398841.84 Source: Natural Resources Wales Reference: UK0013045 Status: Designated	B2SE (S)	674	2	184091 223083
131	Special Areas of Conservation Name: Pembrokeshire Marine / Sir Benfro Forol Multiple Areas: Y Total Area (m2): 1380663657.51 Source: Natural Resources Wales Reference: Uk0013116 Status: Designated	B2SE (S)	746	2	184057 223024
132	Special Areas of Conservation Name: West Wales Marine / Gorllewin Cymru Forol Multiple Areas: Y Total Area (m2): 7377173853.81 Source: Natural Resources Wales Reference: UK0030397 Status: Designated	B2SW (SW)	832	2	183912 223019

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Special Protection Areas Name: Ramsey And St Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 8462392.96 Source: Natural Resources Wales Reference: Uk9014062 Designation Date: 24th July 1996	B2SE (S)	674	2	184091 223083




Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Natural Resources Wales Pembrokeshire County Council - Public Protection Division	June 2020 September 2017	Annually Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 October 2022	Quarterly 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 Environment Agency - Welsh Region Natural Resources Wales	January 2021 October 2022	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	As notified
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	January 2021 October 2022	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	October 2022 October 2022	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2022	Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
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	October 2022	Quarterly
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South West Area	October 2021 October 2022	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	July 2021 July 2022	Quarterly Quarterly
Local Authority Landfill Coverage Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council - Planning Department	February 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council - Planning Department	February 2016 October 2015	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council	July 2022 July 2022	Quarterly Quarterly
Areas of Unadopted Green Belt Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council	July 2022 July 2022	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2022	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 July 2019	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Pembrokeshire County Council - Environmental Health Department Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	The National Assembly for Wales - GI Services (Department of Planning & Countryside) Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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		
	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		
	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

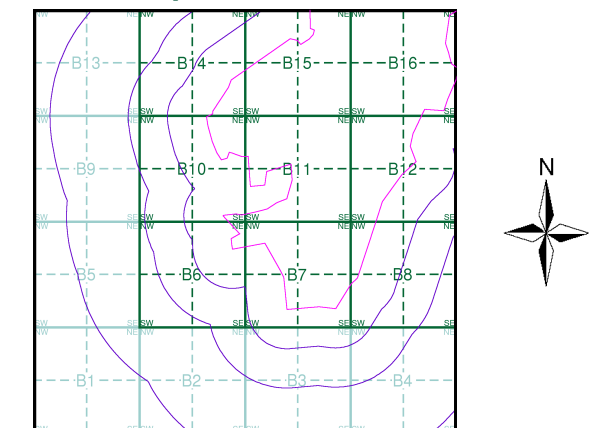
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1979	6
Ordnance Survey Plan	1:10,000	1980	7
10K Raster Mapping	1:10,000	2000	8
Street View	Variable		9

Historical Map - Slice B



Order Details

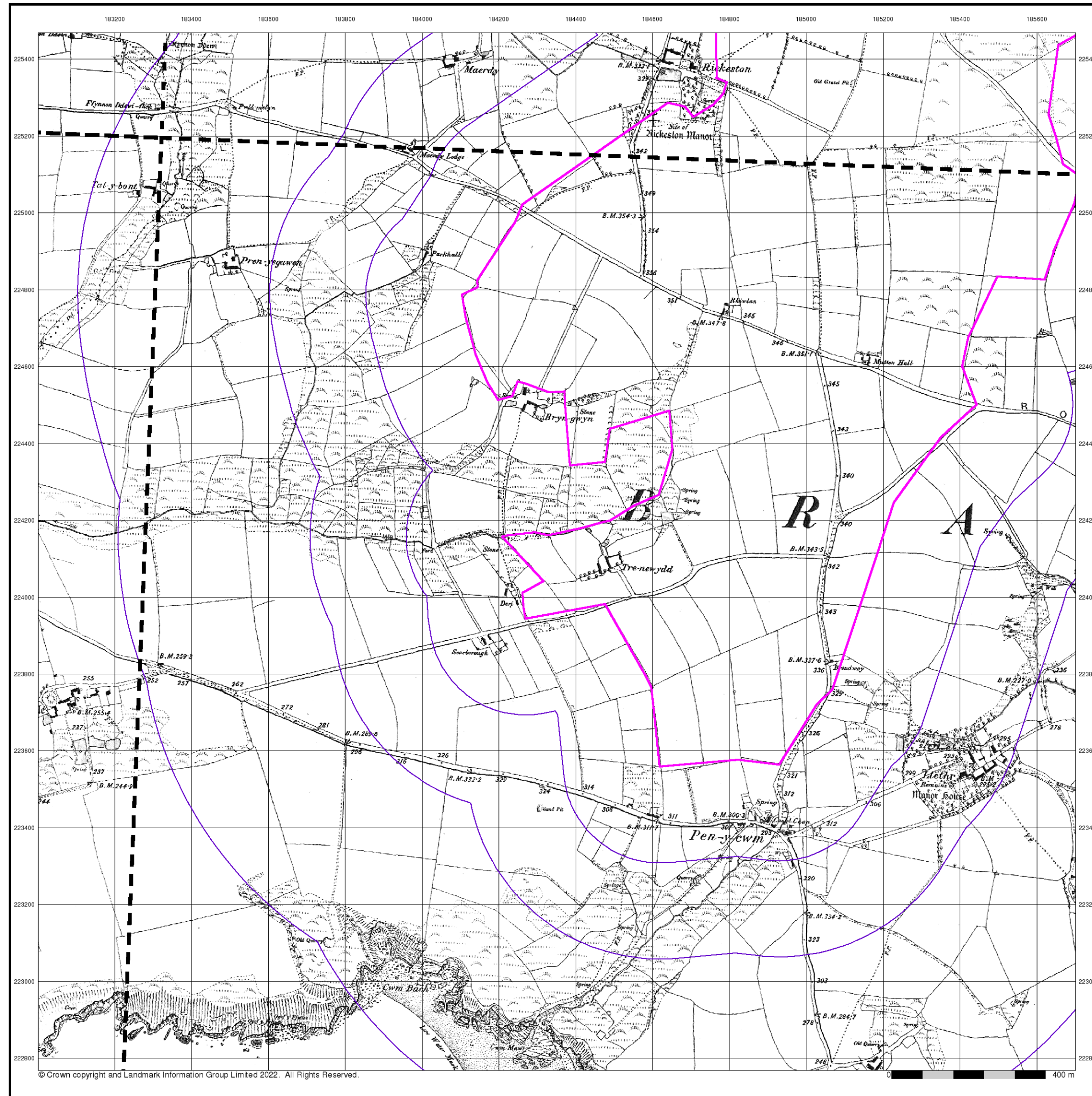
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 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site

Landmark
 INFORMATION GROUP

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



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Pembrokeshire

Published 1888

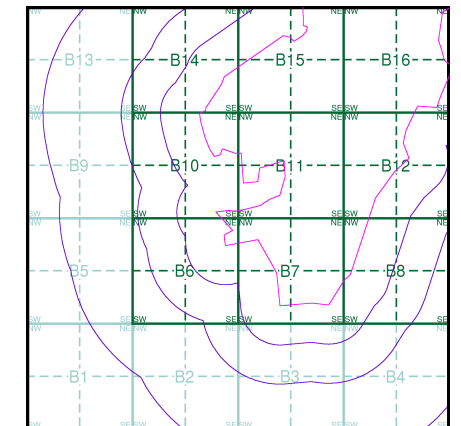
Source map scale - 1:10,560

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)

015SW 1888 1:10,560	015SE 1888 1:10,560
021NW 1888 1:10,560	021NE 1888 1:10,560

Historical Map - Slice B



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

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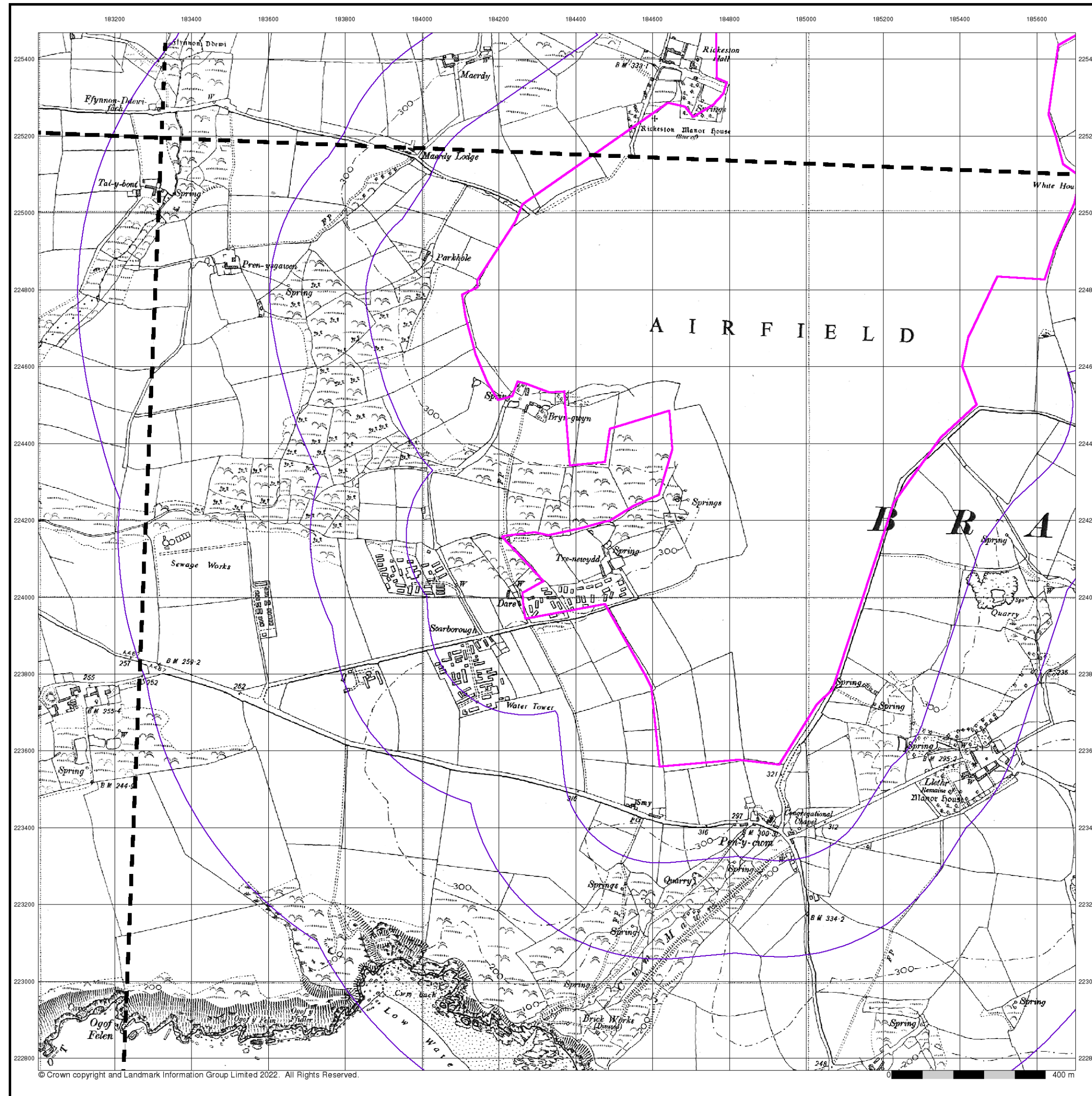


015SW 1908 1:10,560	015SE 1908 1:10,560
021NW 1908 1:10,560	021NE 1908 1:10,560



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Pembrokeshire

Published 1953

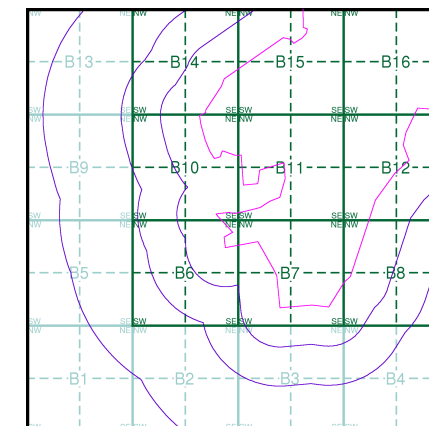
Source map scale - 1:10,560

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)

015SW 1953 1:10,560	015SE 1953 1:10,560
021NW 1953 1:10,560	021NE 1953 1:10,560

Historical Map - Slice B



Order Details

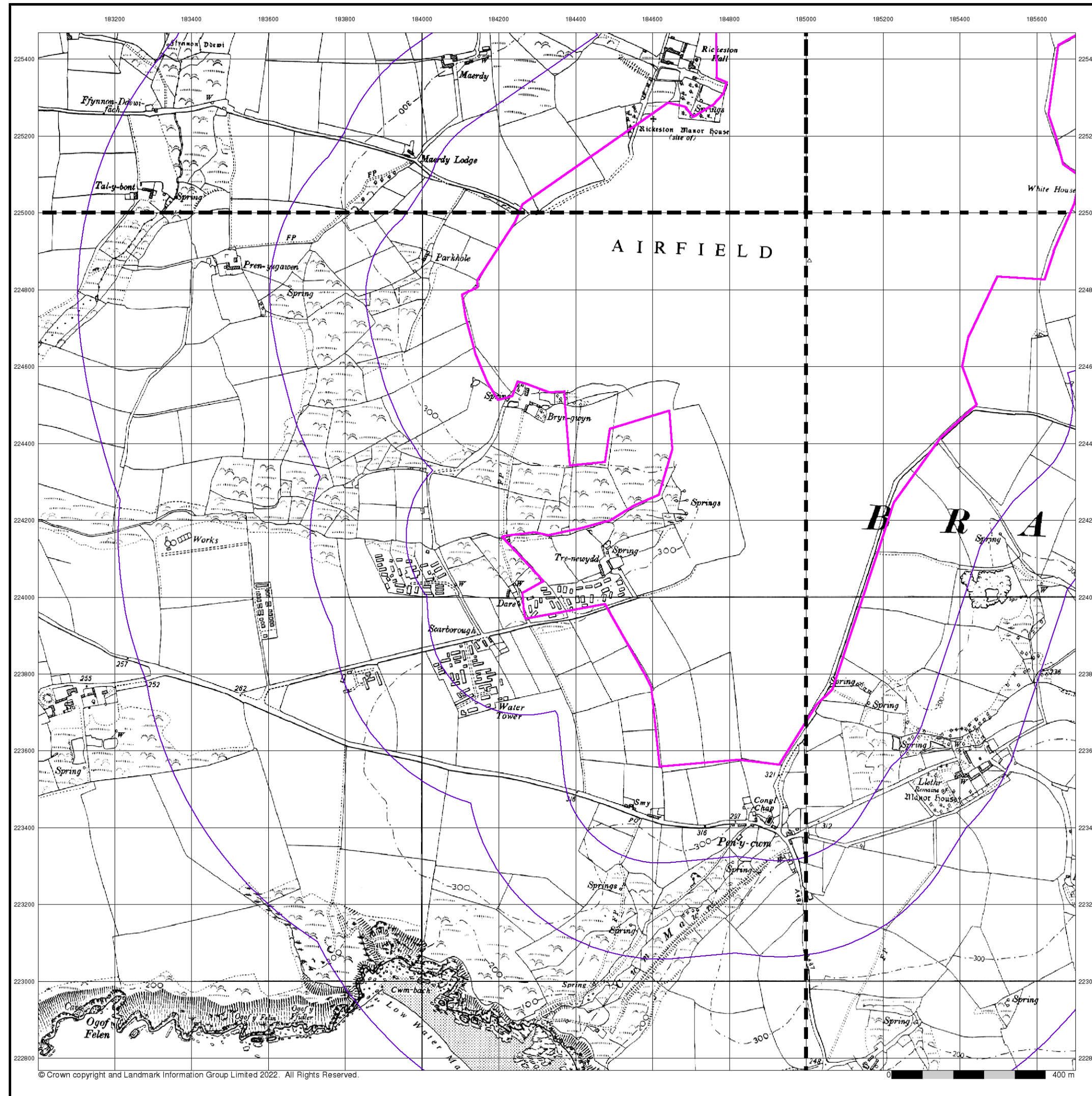
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1964

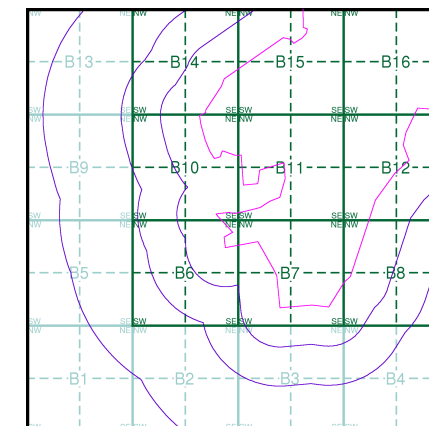
Source map scale - 1:10,000

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)

SM82NW	SM82NE
1964	1964
1:10,560	1:10,560
SM82SW	SM82SE
1964	1964
1:10,560	1:10,560

Historical Map - Slice B



Order Details

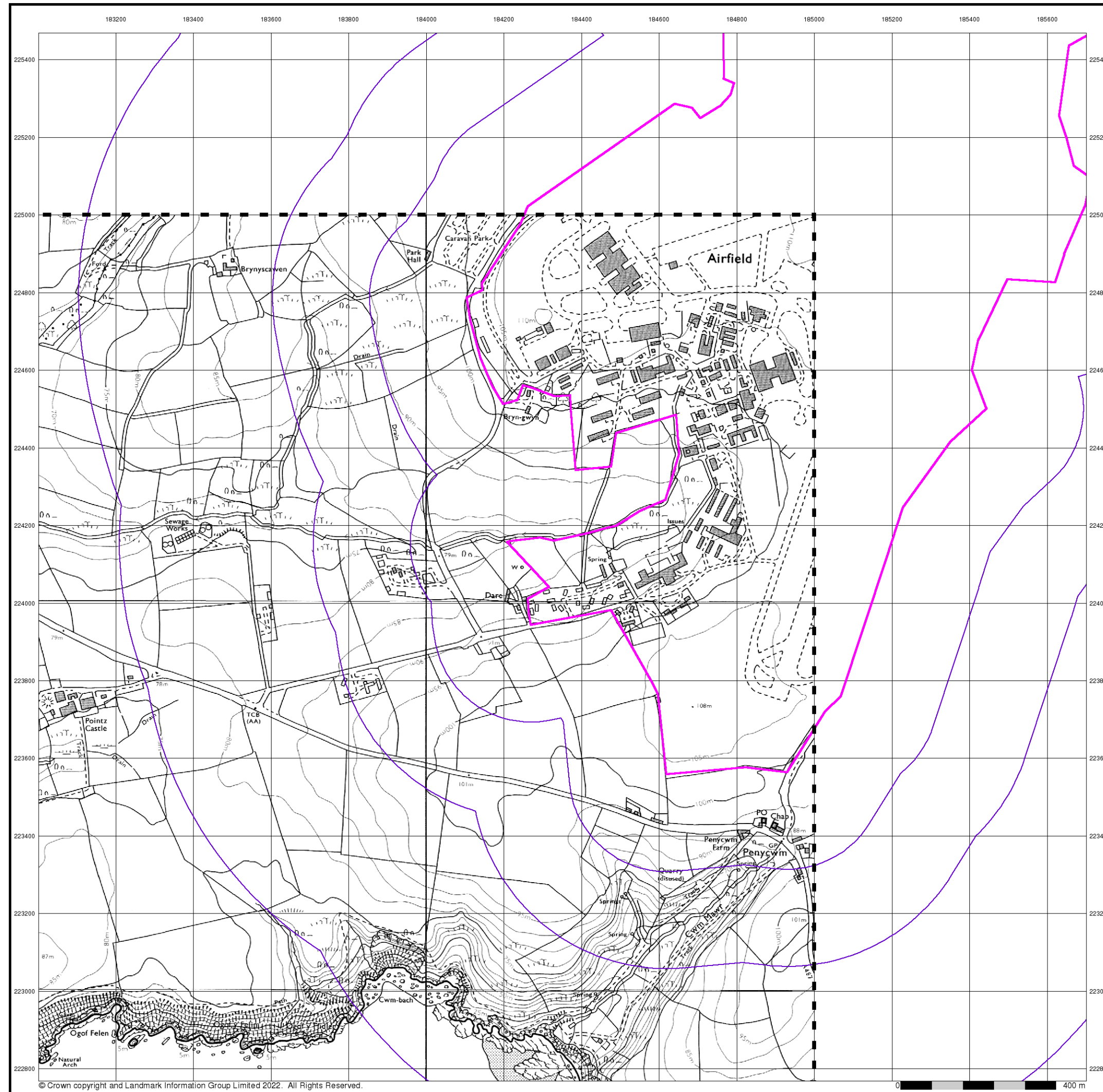
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site



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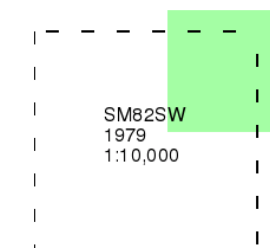
Ordnance Survey Plan

Published 1979

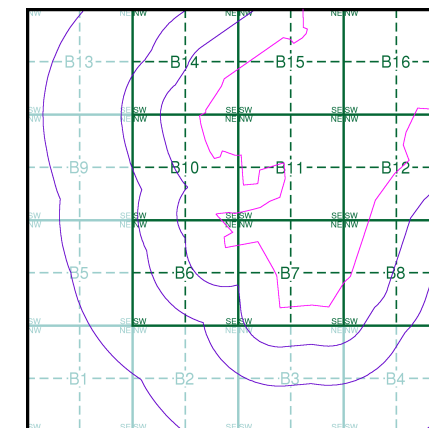
Source map scale - 1:10,000

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 B



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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SWECO

Ordnance Survey Plan

Published 1980

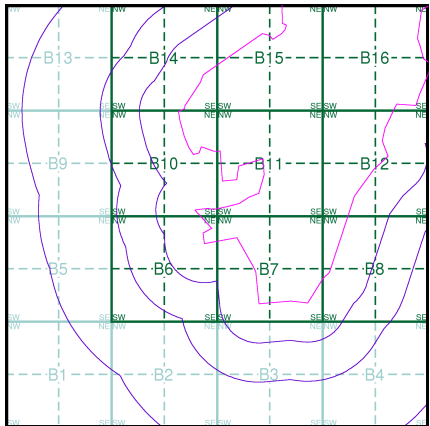
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SM82NW 1980 1:10,000	SM82NE 1980 1:10,000
----------------------------	----------------------------

Historical Map - Slice B



Order Details

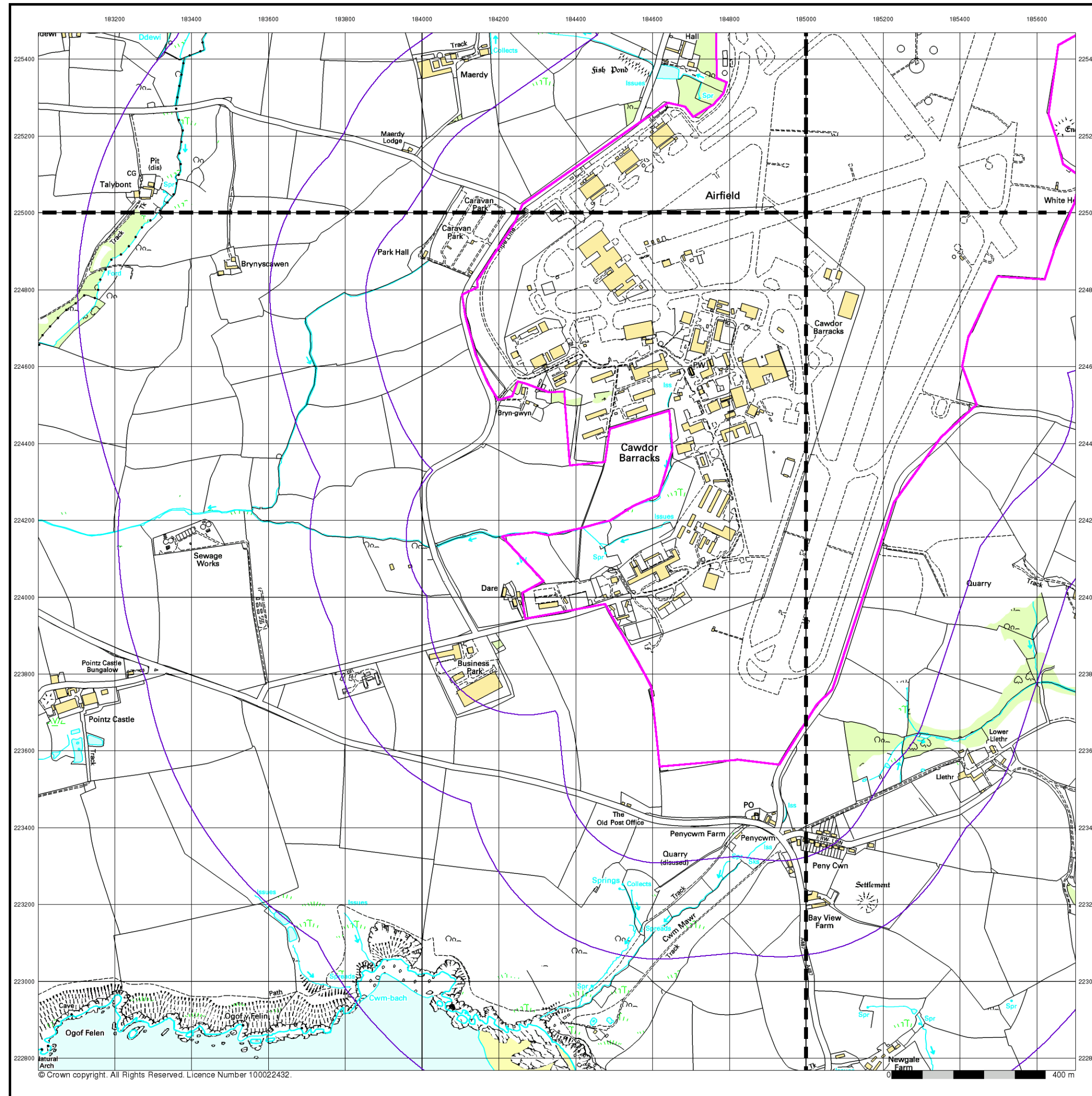
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

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10k Raster Mapping

Published 2000

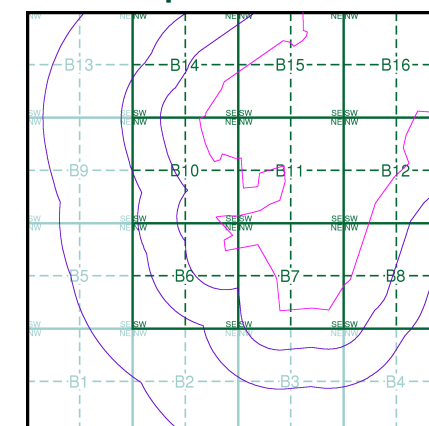
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SM82NW 2000 1:10,000	SM82NE 2000 1:10,000
SM82SW 2000 1:10,000	SM82SE 2000 1:10,000

Historical Map - Slice B



Order Details

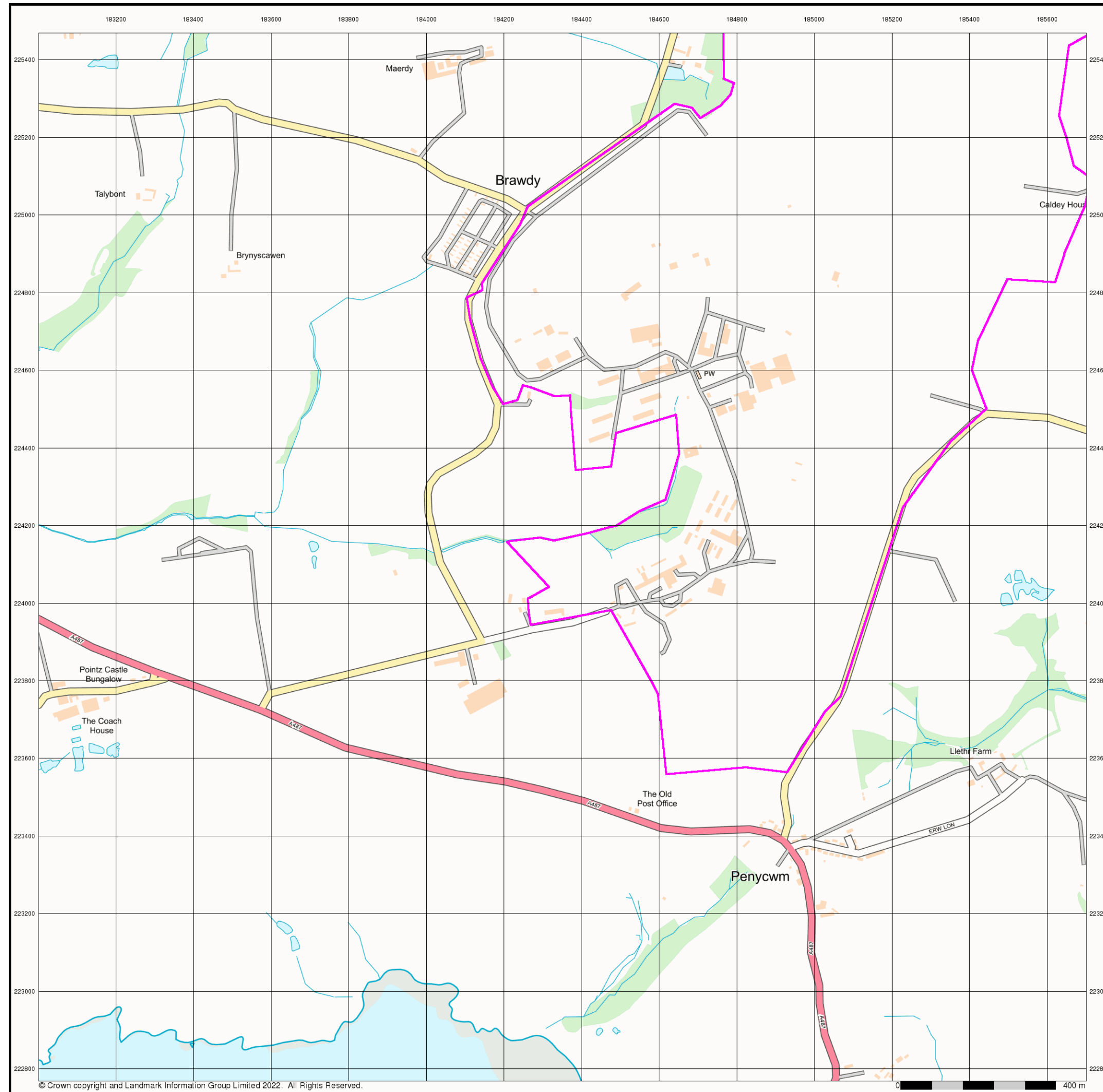
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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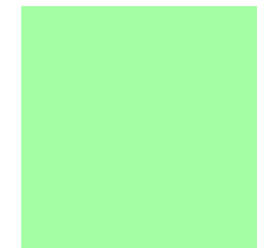
Street View

Published 2022

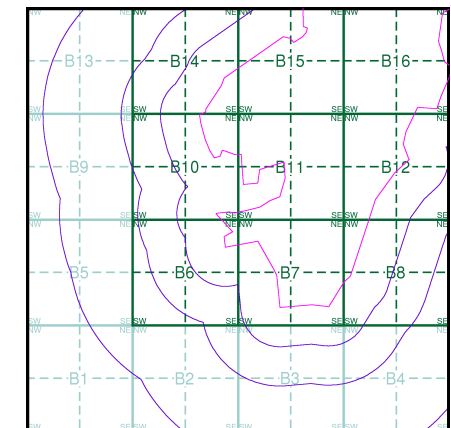
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice B



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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General

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

Agency and Hydrological

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

Waste

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

Hazardous Substances

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

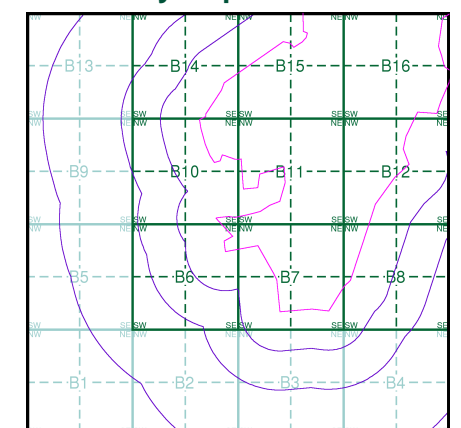
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice B

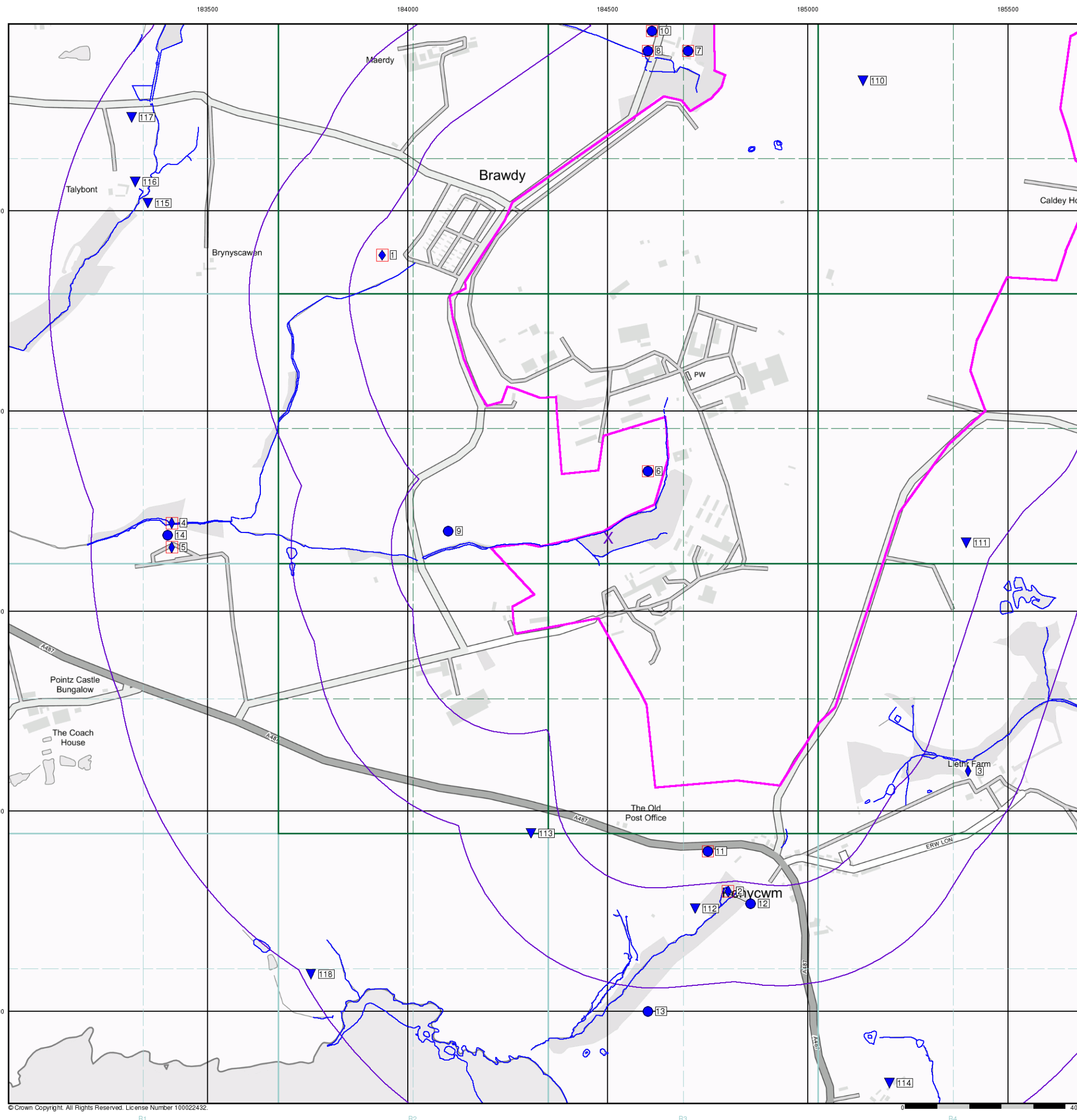


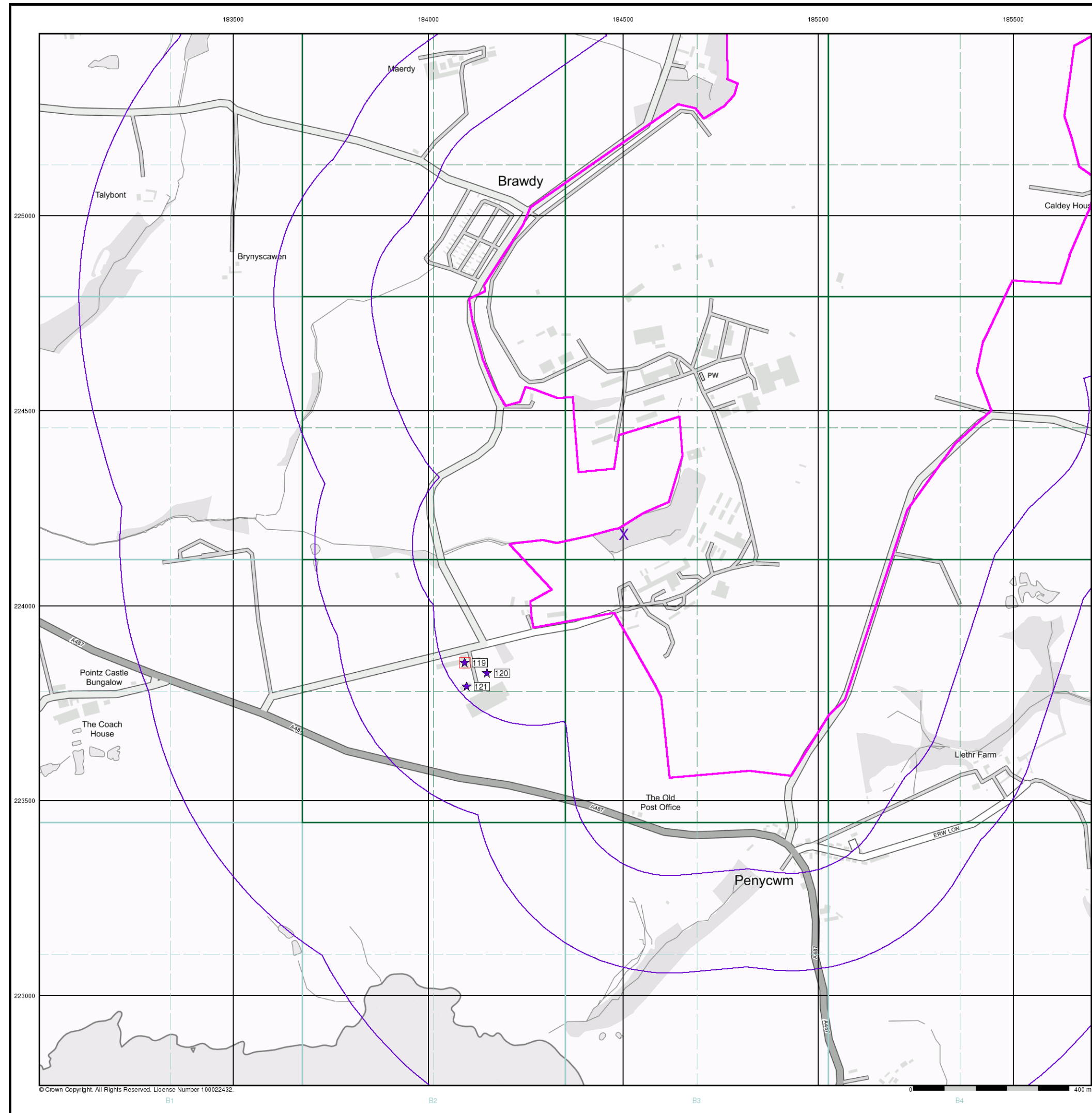
Order Details

Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

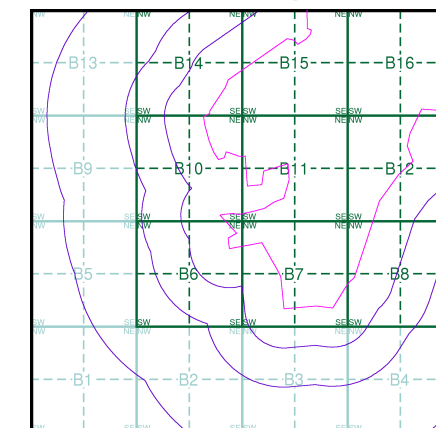
Cawdor site





- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Underground Electrical Cables

Industrial Land Use Map - Slice B

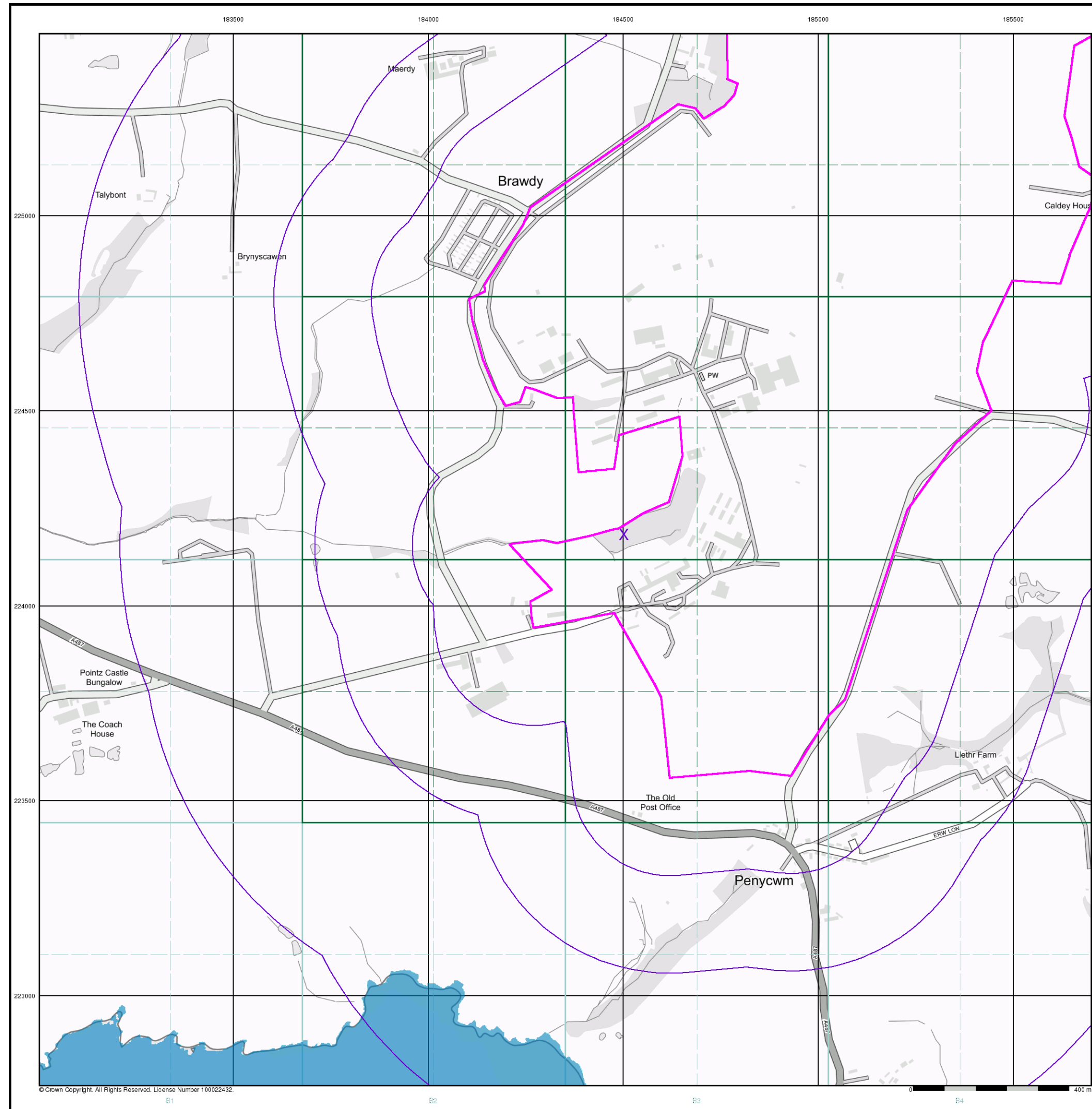


Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site



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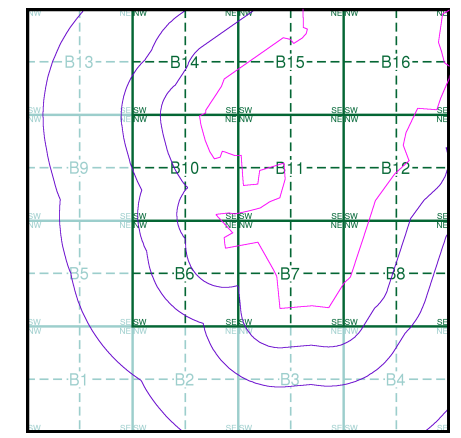
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice B



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

General

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

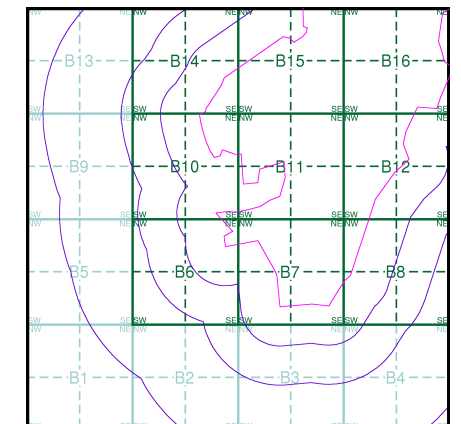
Agency and Hydrological (Boreholes)

- 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 B

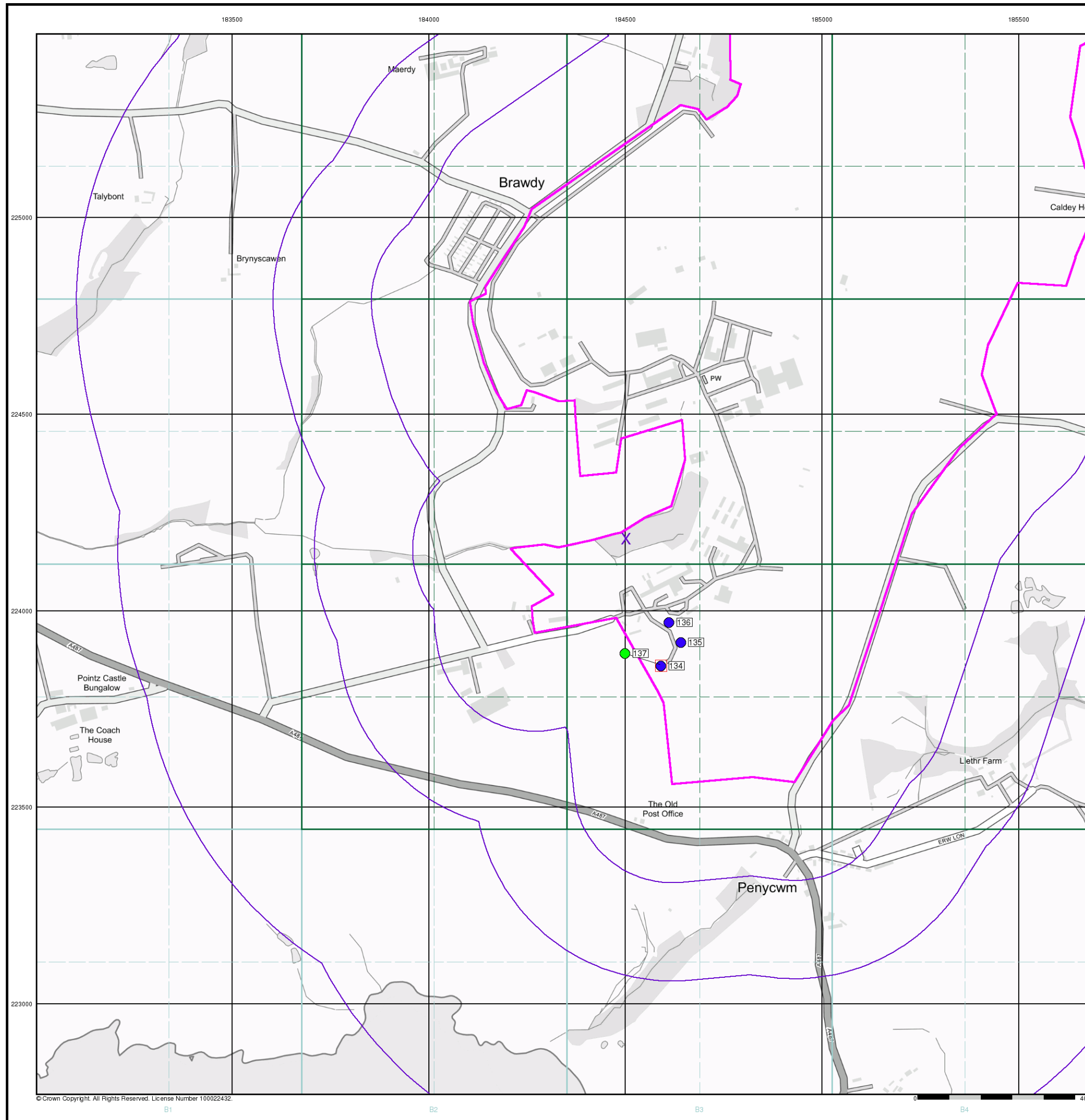


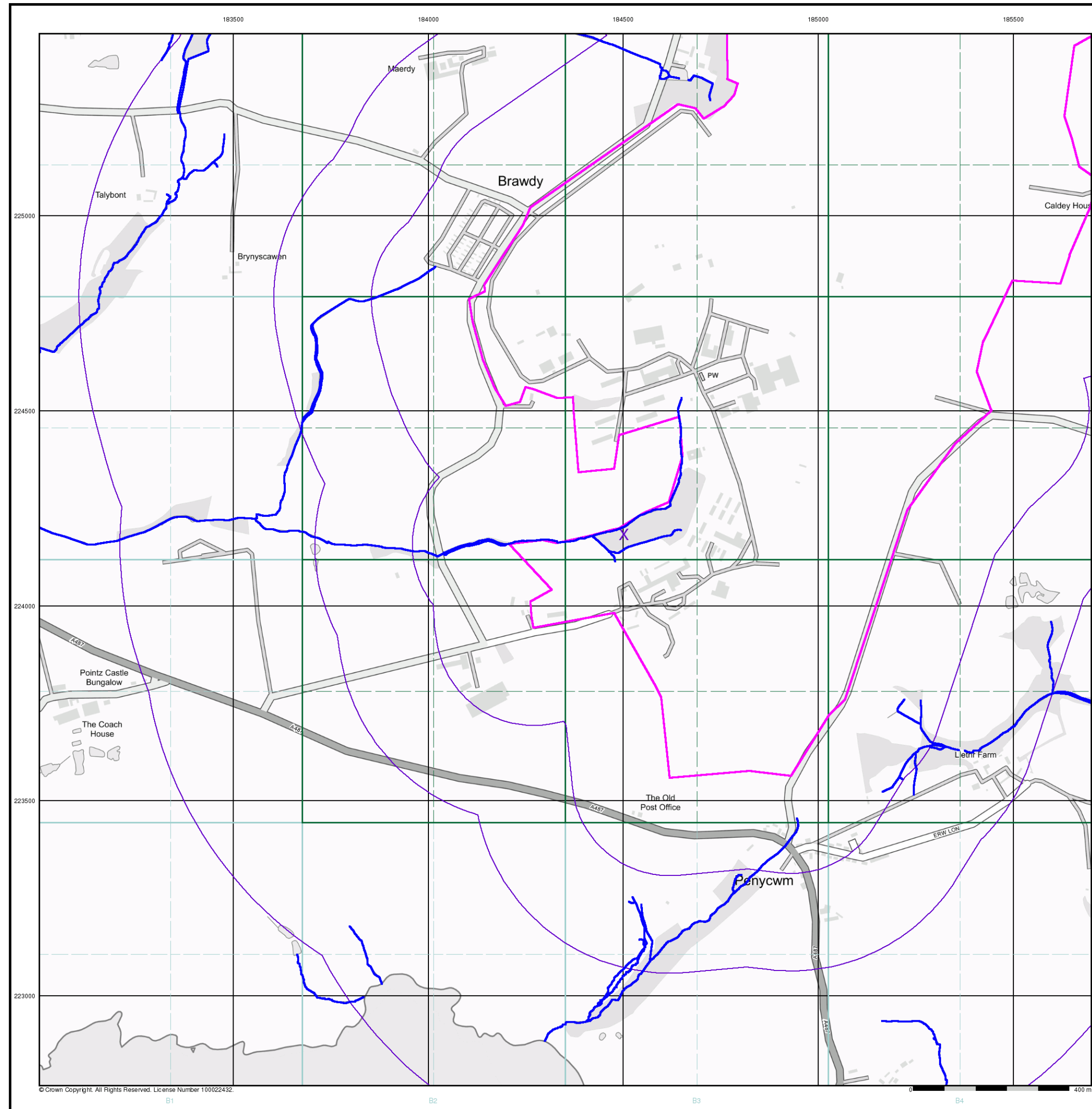
Order Details

Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 184500, 224180
 Slice: B
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

Cawdor site





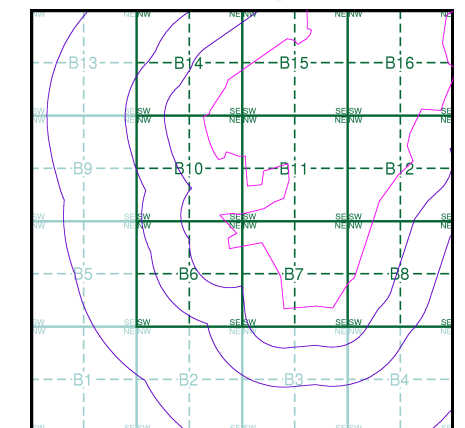
General

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

OS Water Network Data

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

OS Water Network Map - Slice B



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

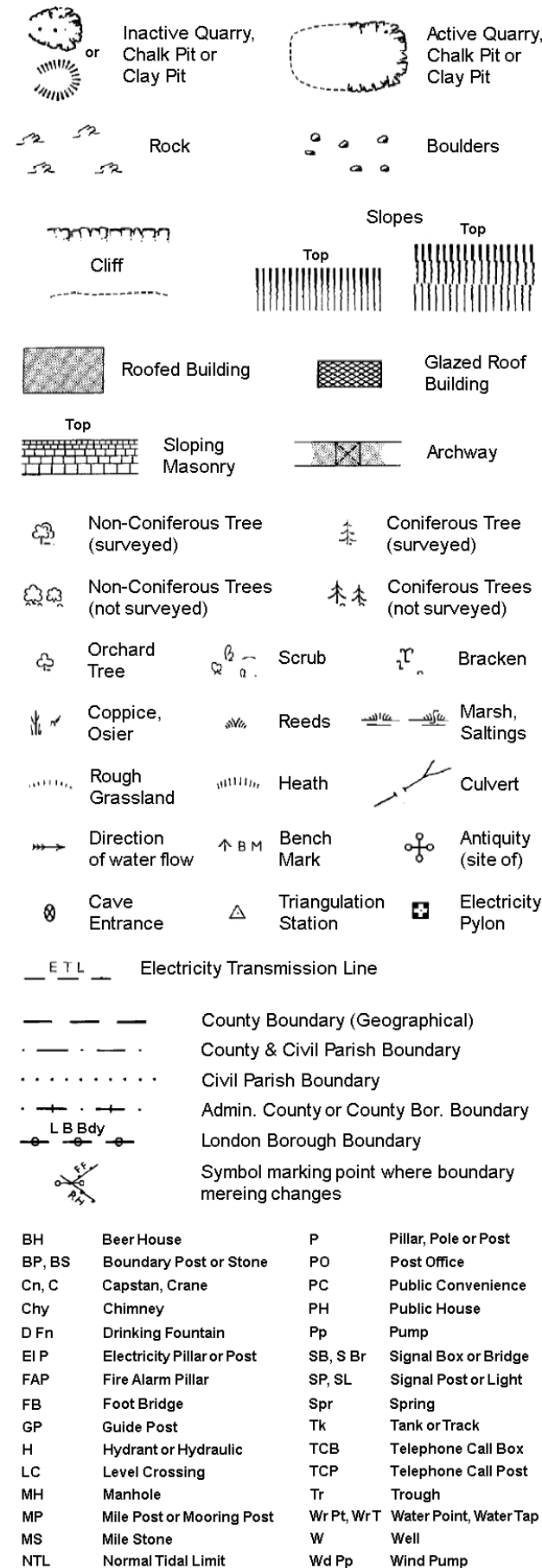
Cawdor site

Historical Mapping Legends

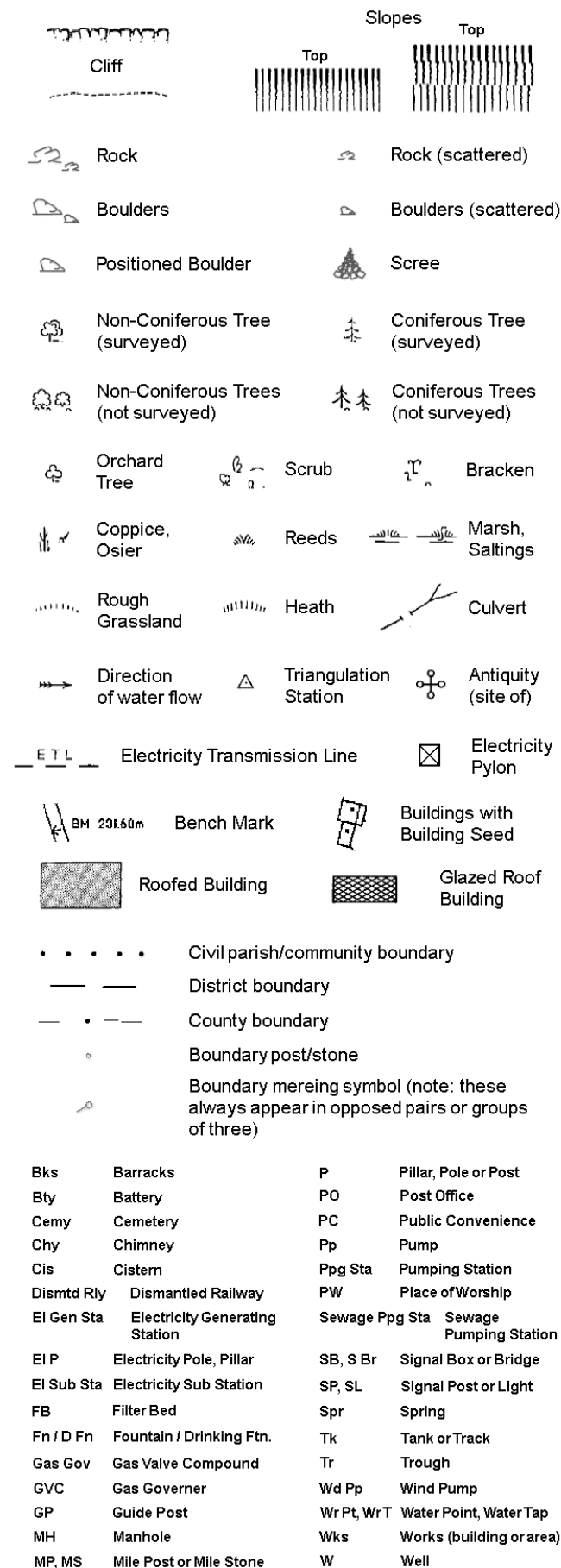
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



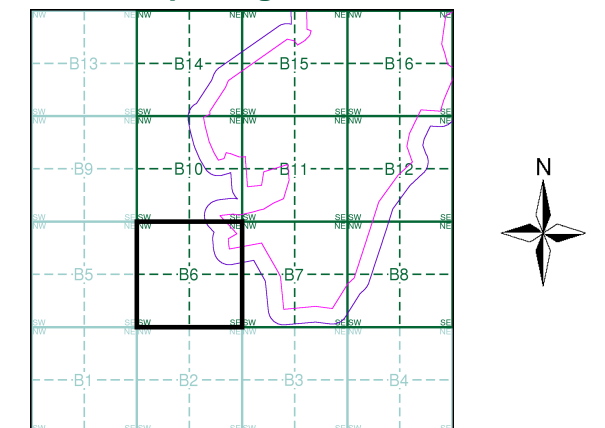
Large-Scale National Grid Data 1:2,500 and 1:1,250



SWECO Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B6



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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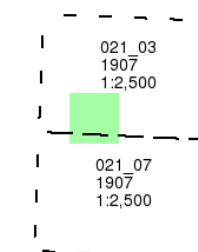
Pembrokeshire

Published 1907

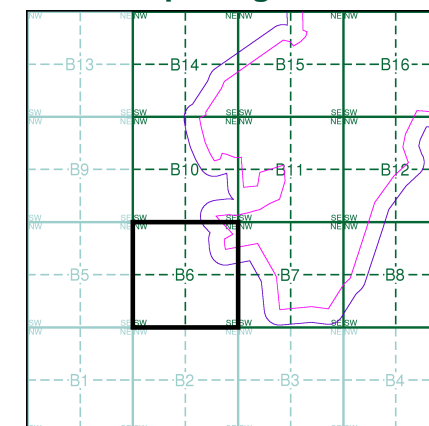
Source map scale - 1:2,500

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 B6



Order Details

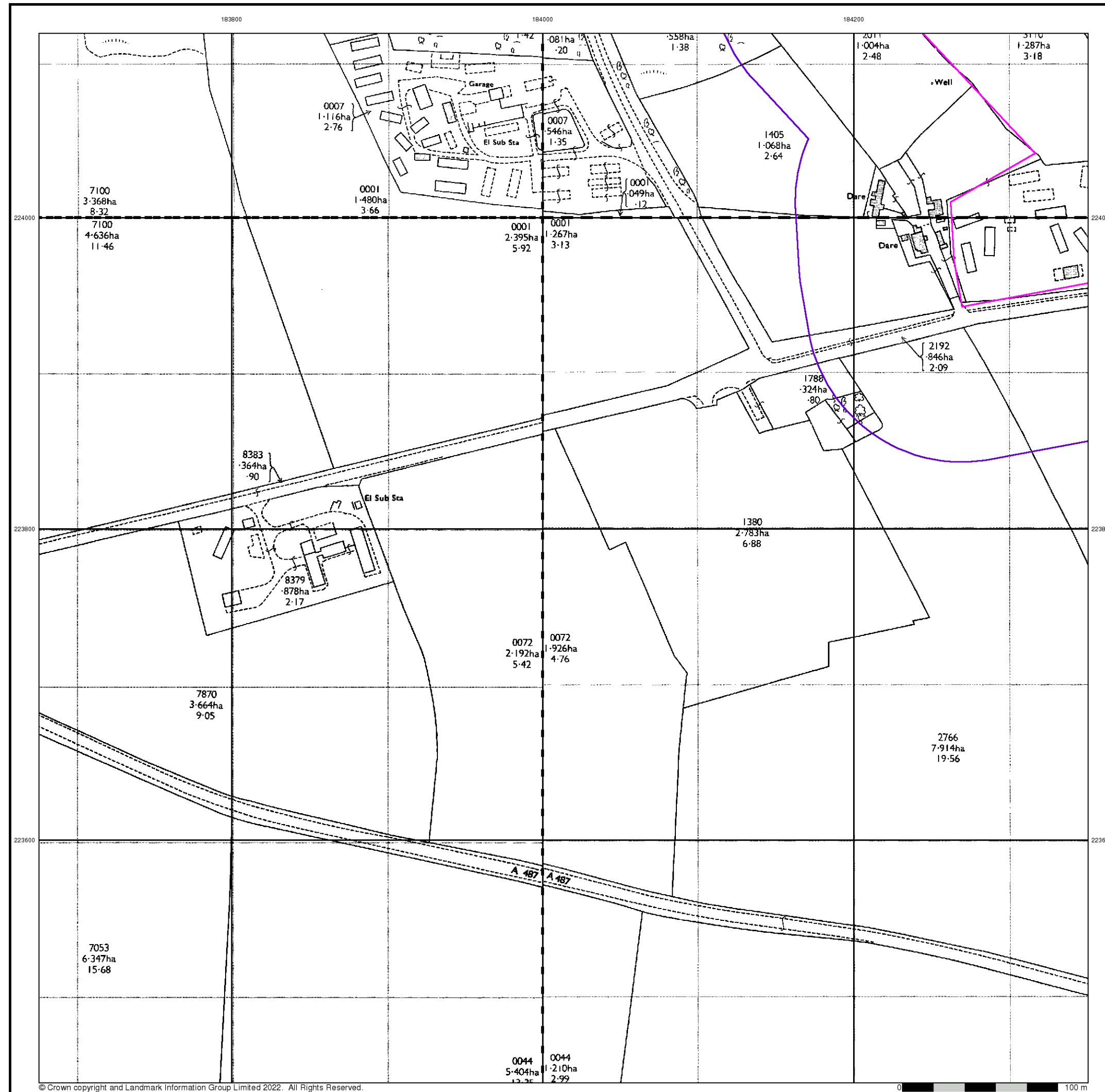
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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Ordinance Survey Plan

Published 1975

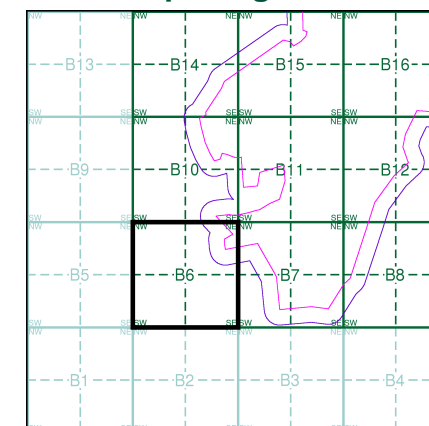
Source map scale - 1:2,500

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)

SM8324 1975 12,500	SM8424 1975 12,500
SM8323 1975 12,500	SM8423 1975 12,500

Historical Map - Segment B6



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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SWECO 
Large-Scale National Grid Data

Published 1994

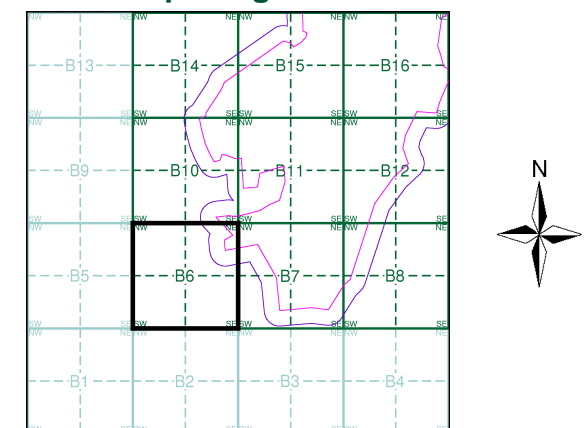
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8324	SM8424
1994	1994
12,500	12,500
SM8323	SM8423
1994	1994
12,500	12,500

Historical Map - Segment B6



Order Details

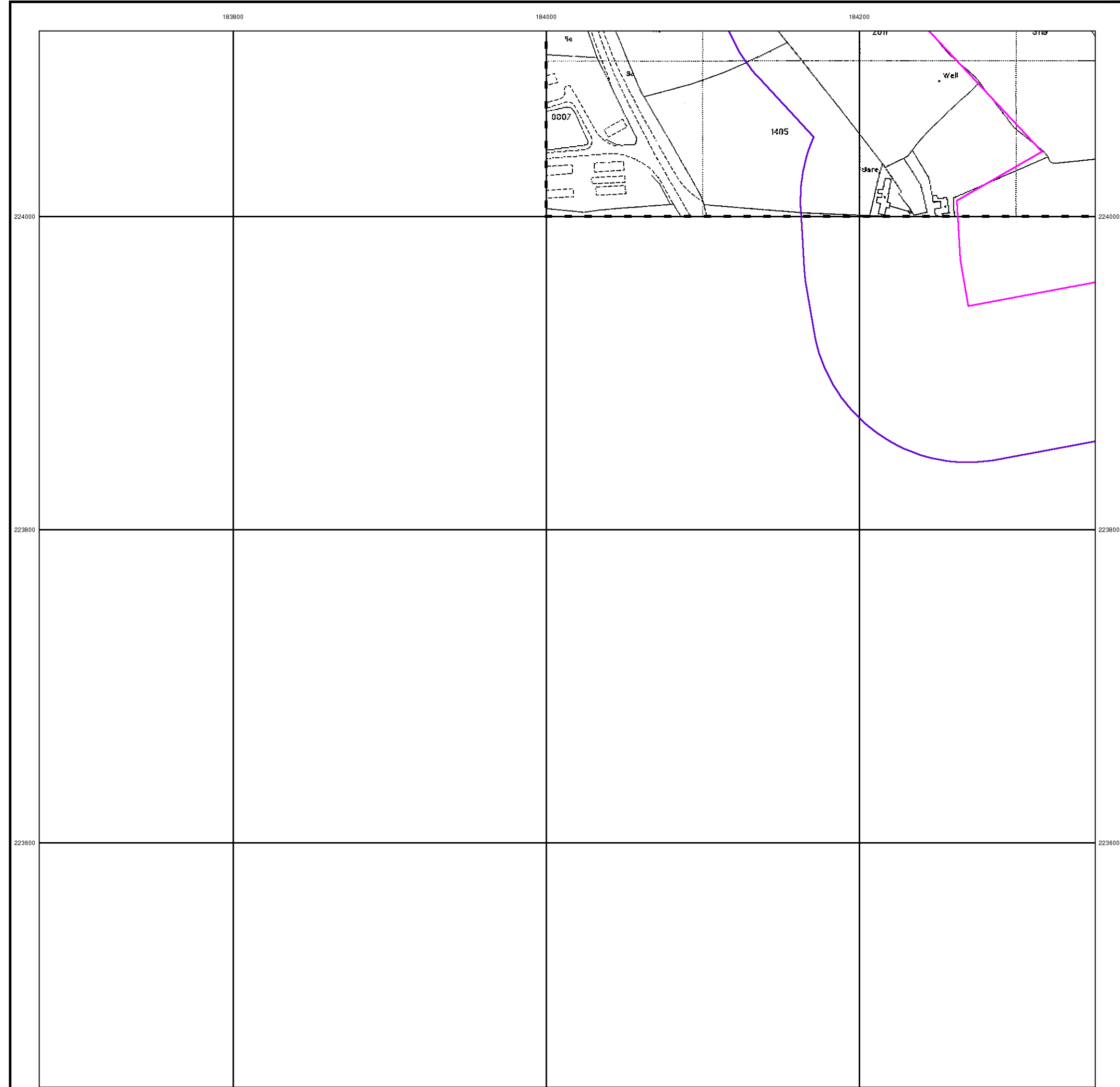
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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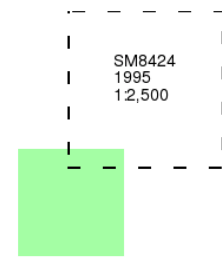
Large-Scale National Grid Data

Published 1995

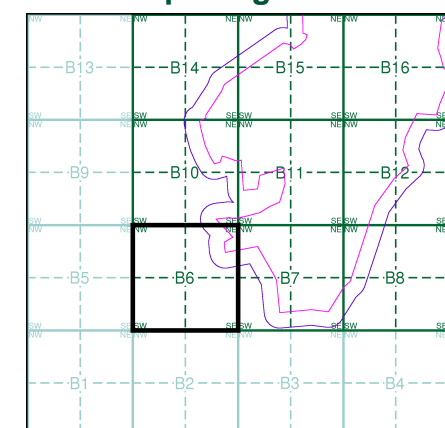
Source map scale - 1:2,500

'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 B6



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site



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Historical Mapping Legends

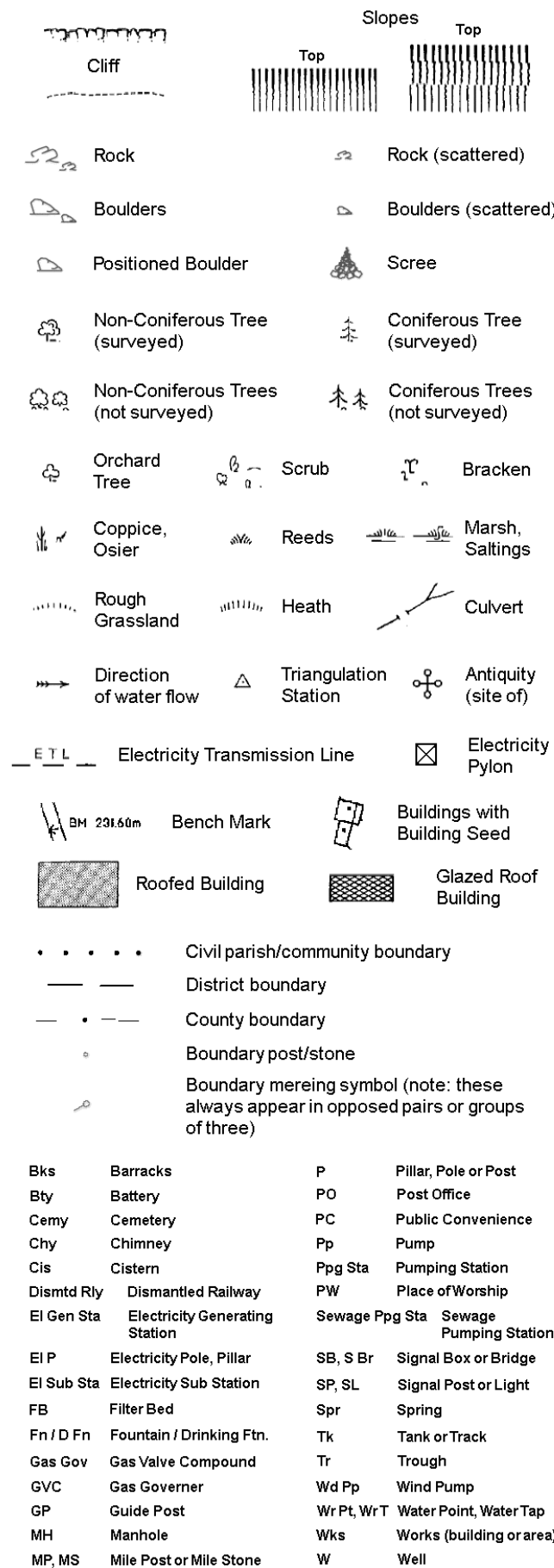
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



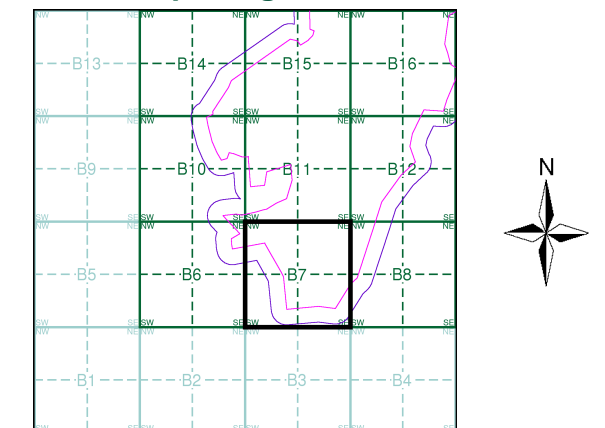
Large-Scale National Grid Data 1:2,500 and 1:1,250



SWECO Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B7



Order Details

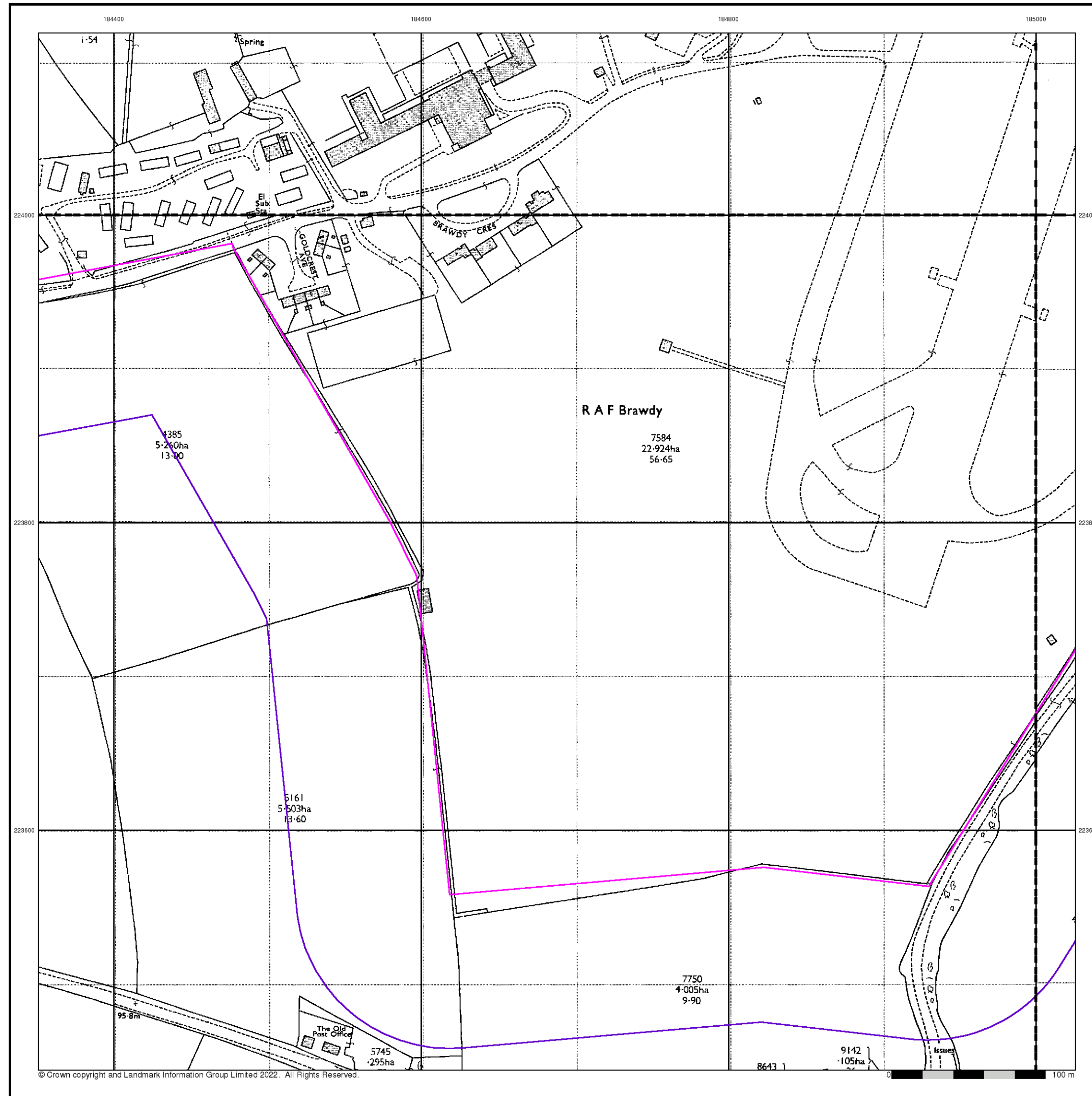
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1975

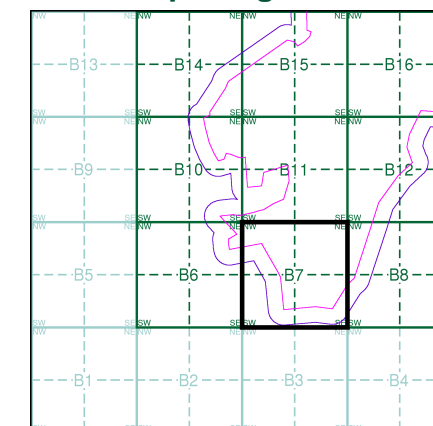
Source map scale - 1:2,500

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)

SM8424 1975 12,500	SM8524 1975 12,500
SM8423 1975 12,500	SM8523 1975 12,500

Historical Map - Segment B7



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
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Large-Scale National Grid Data

Published 1994

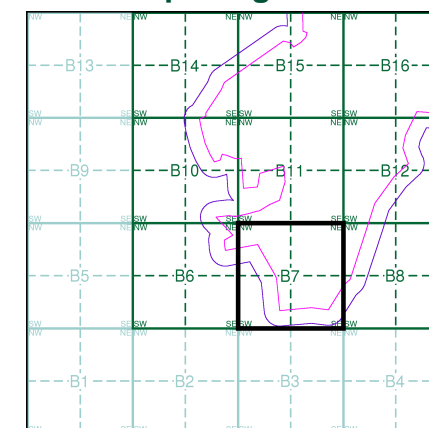
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8424 1994 12,500	SM8524 1994 12,500
SM8423 1994 12,500	SM8523 1994 12,500

Historical Map - Segment B7



Order Details

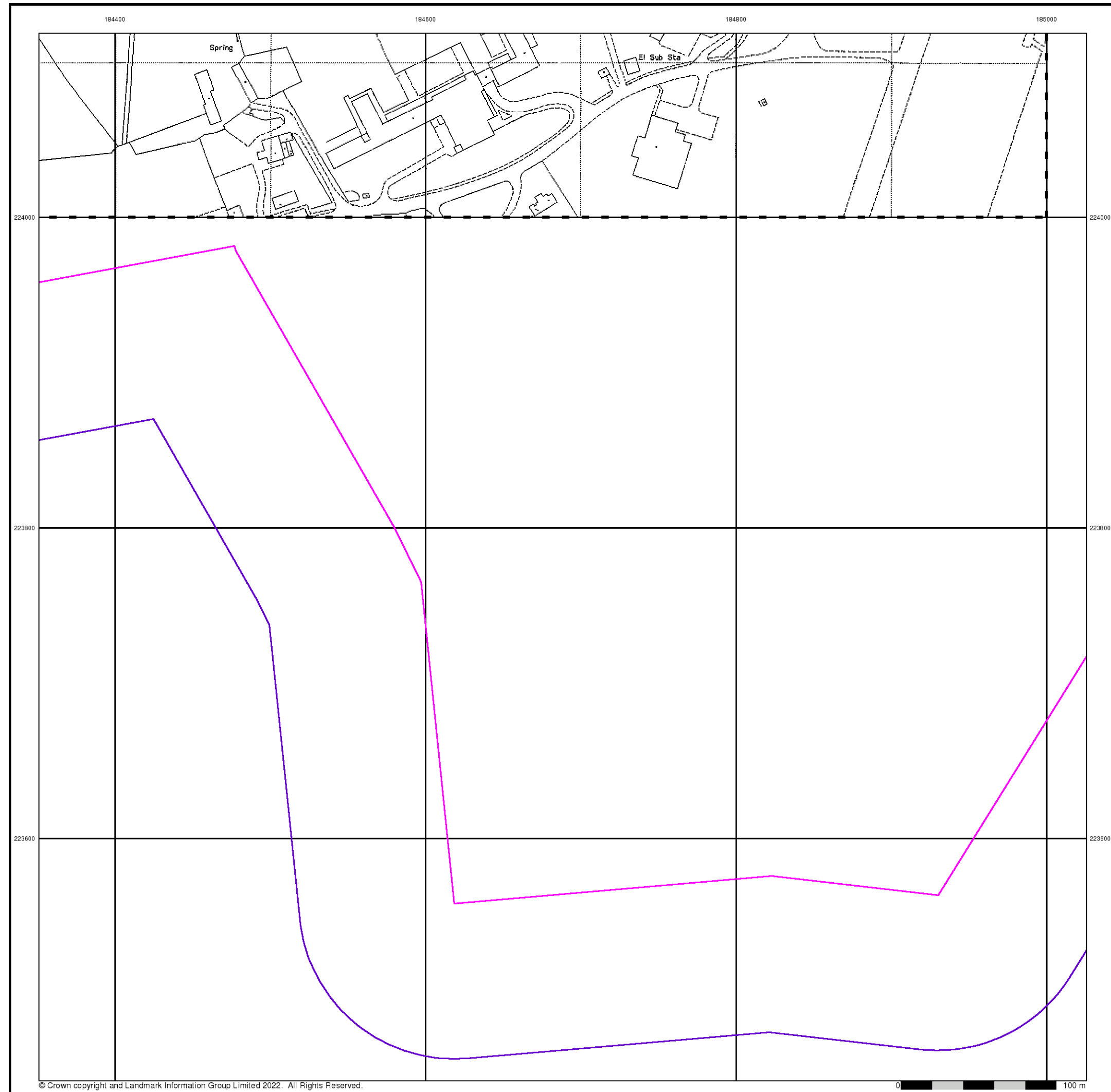
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
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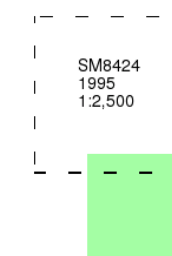
Large-Scale National Grid Data

Published 1995

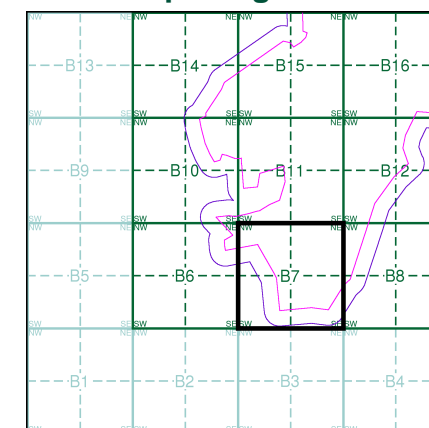
Source map scale - 1:2,500

'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 B7



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
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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

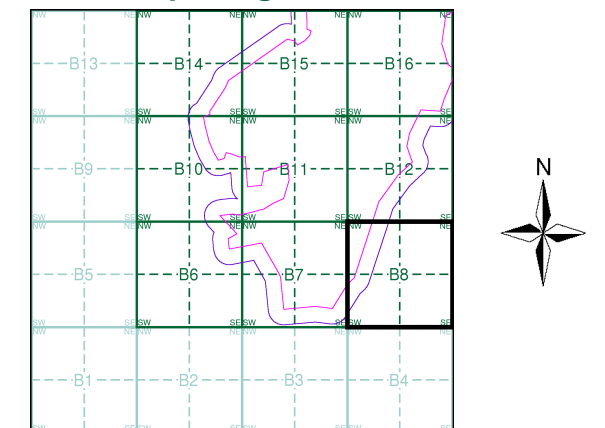


SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment B8



Order Details

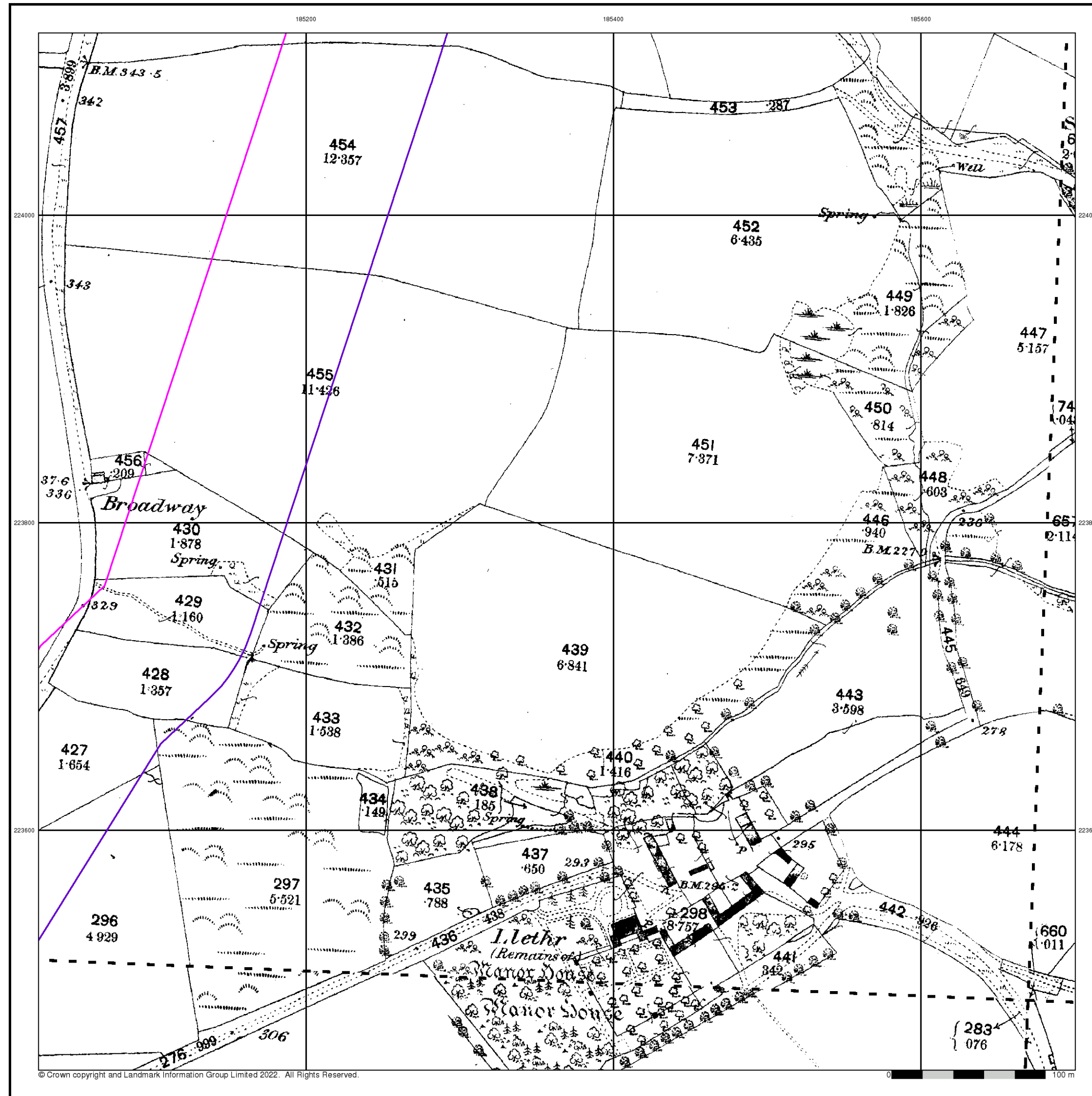
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Pembrokeshire

Published 1889

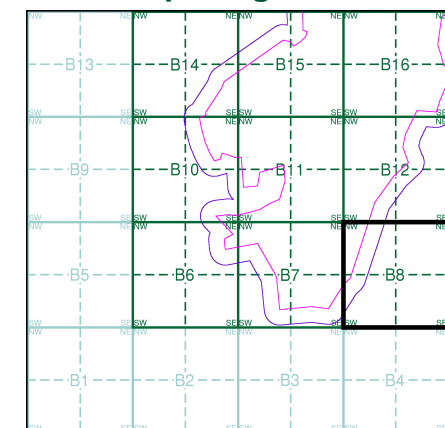
Source map scale - 1:2,500

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)

021_03 1889 1:2,500	021_04 1889 1:2,500
021_07 1889 1:2,500	021_08 1889 1:2,500

Historical Map - Segment B8



Order Details

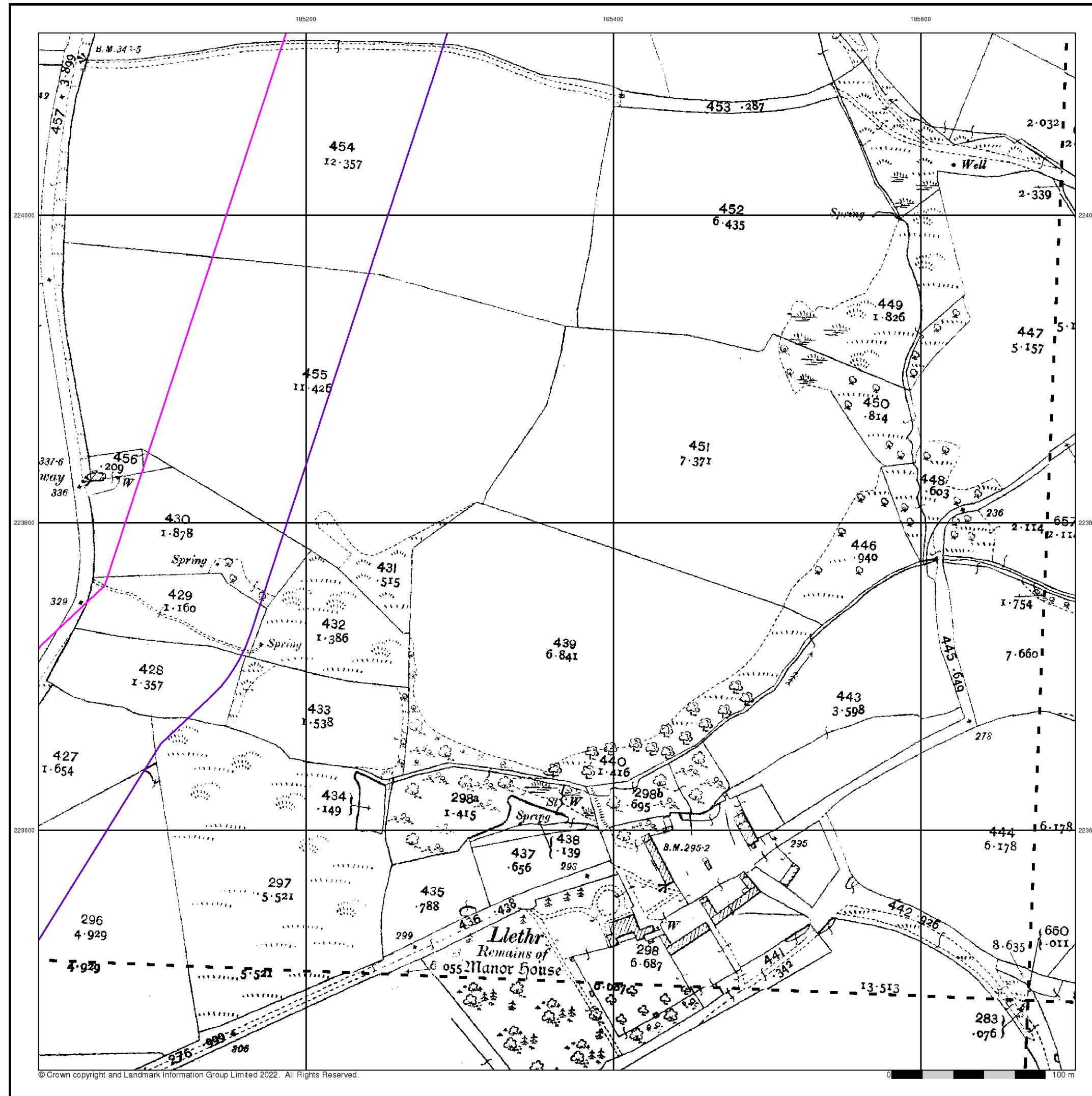
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Pembrokeshire

Published 1907

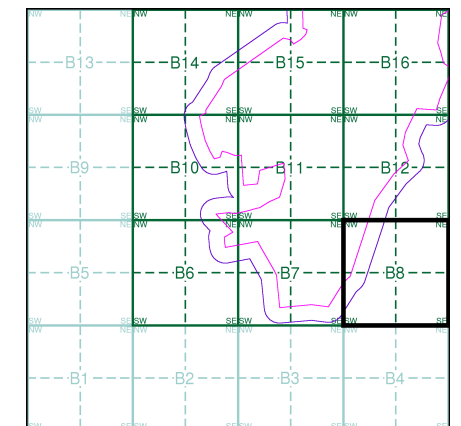
Source map scale - 1:2,500

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)

021_03 1907 1:2,500	021_04 1907 1:2,500
021_07 1907 1:2,500	021_08 1907 1:2,500

Historical Map - Segment B8



Order Details

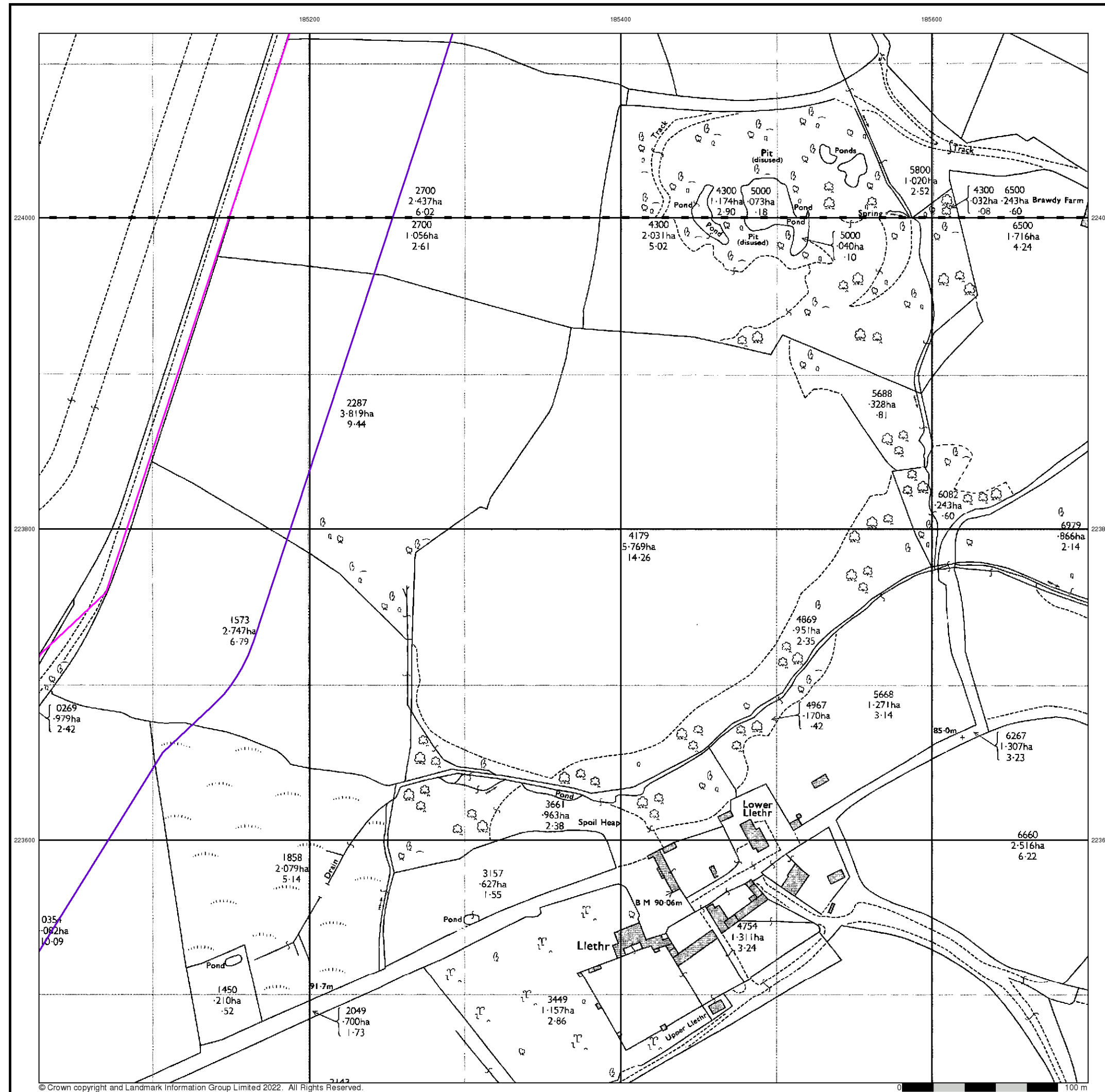
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1975

Source map scale - 1:2,500

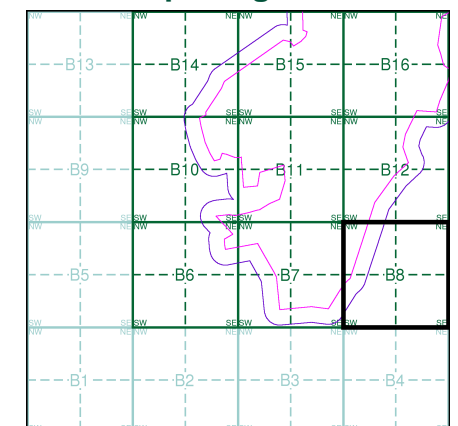
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

SM8524
1975
1:2,500

SM8523
1975
1:2,500

Historical Map - Segment B8



Order Details

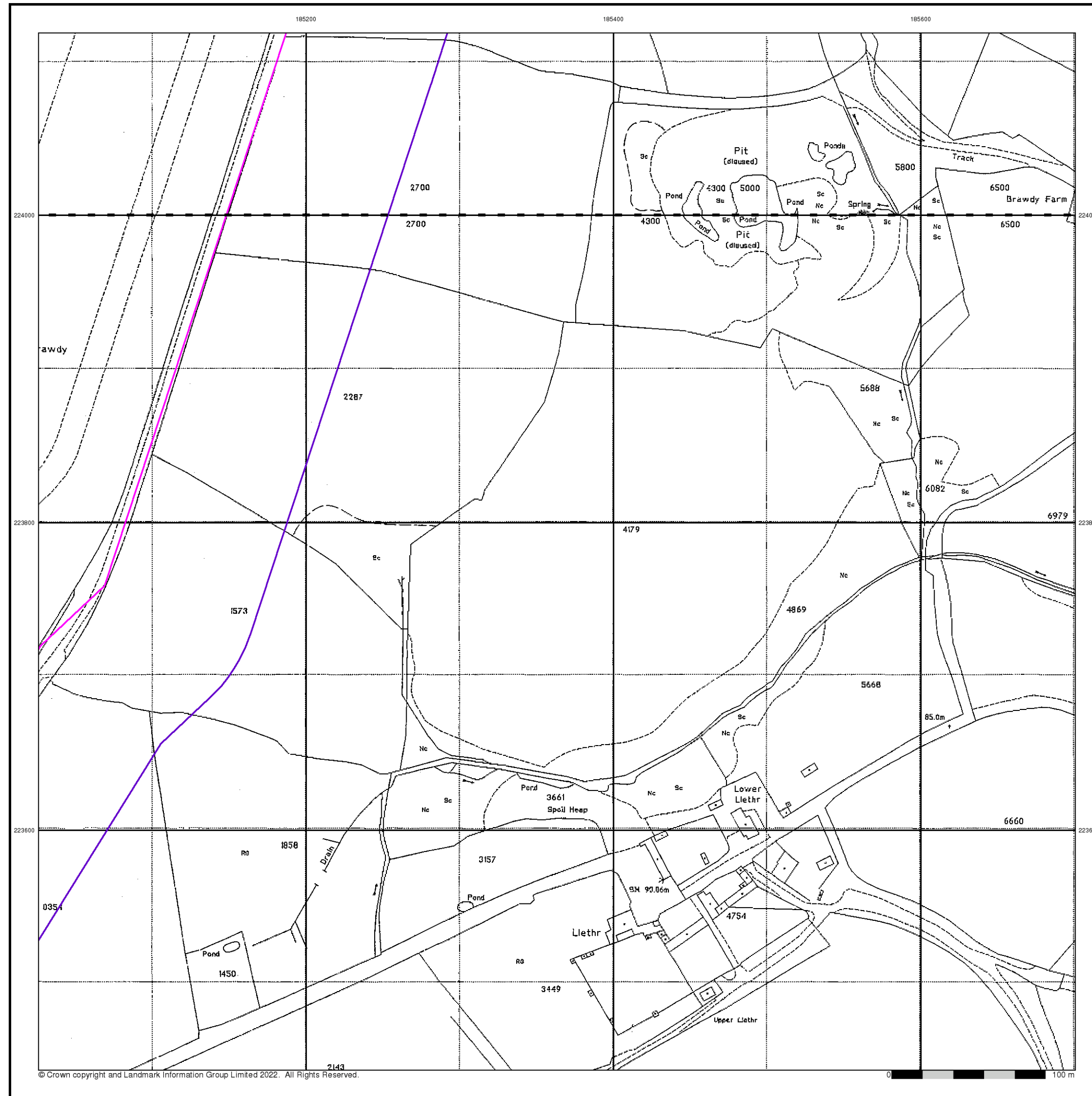
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

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Large-Scale National Grid Data

Published 1994

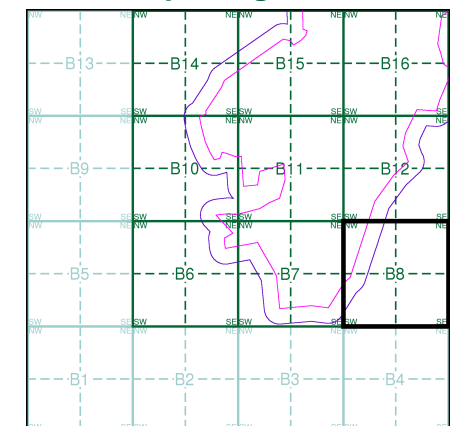
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8524	1994	1:2,500
SM8523	1994	1:2,500

Historical Map - Segment B8



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Historical Mapping Legends

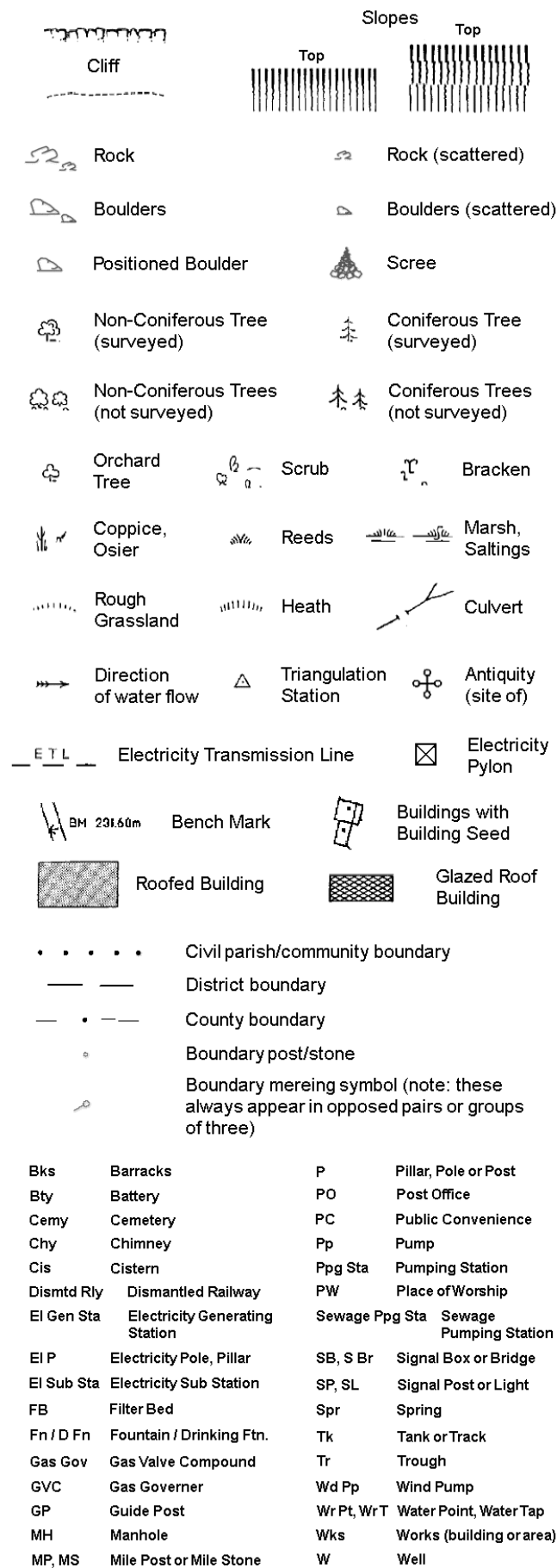
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

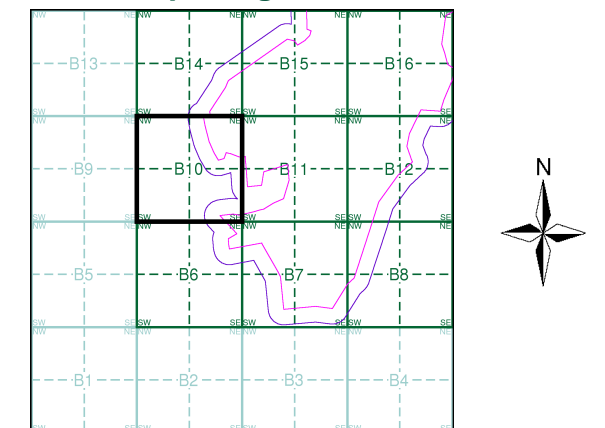


SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B10

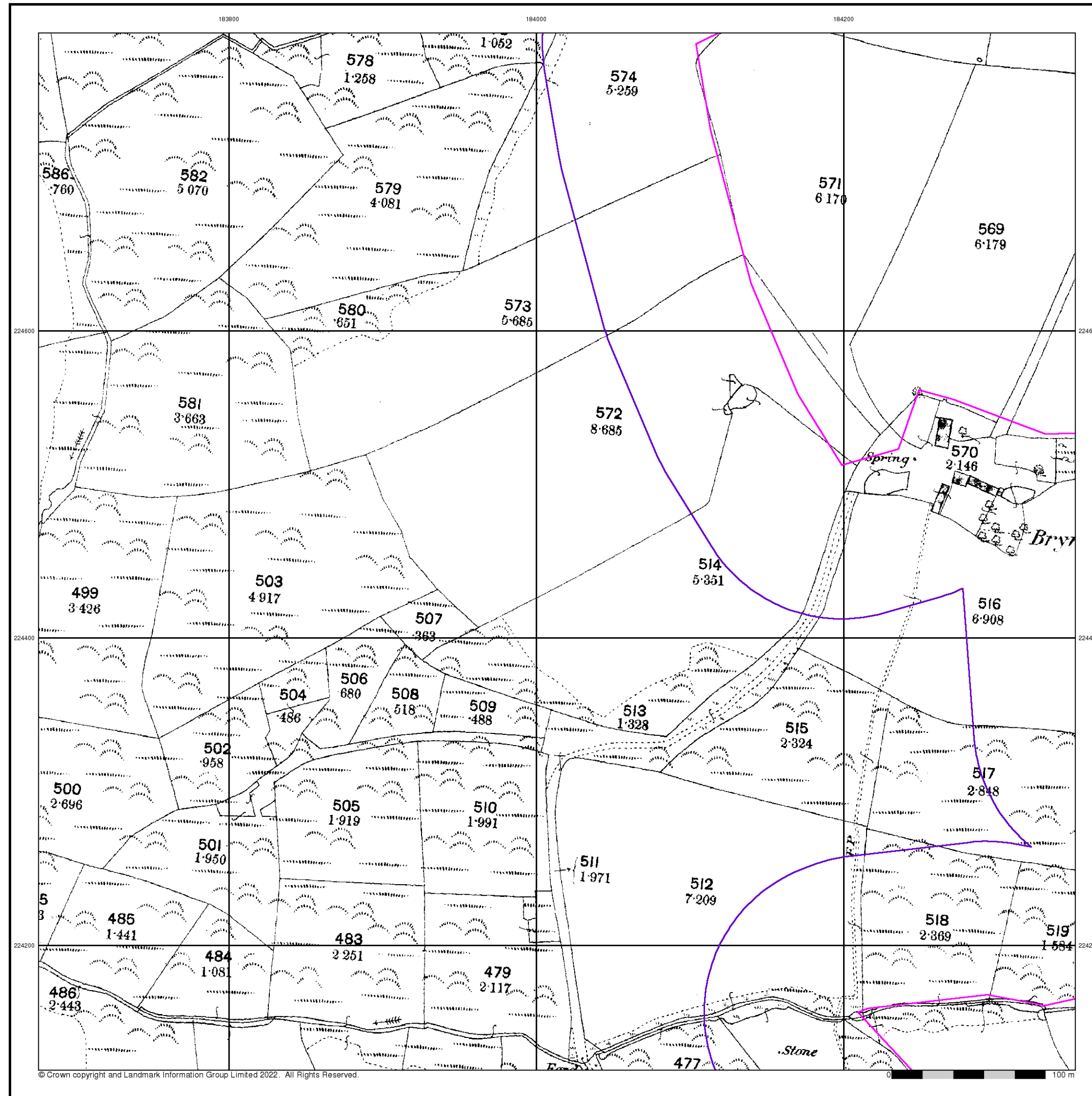


Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site



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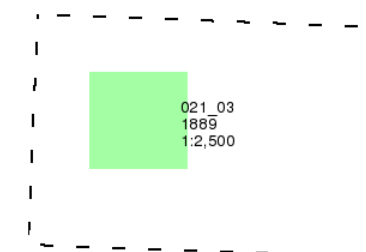
Pembrokeshire

Published 1889

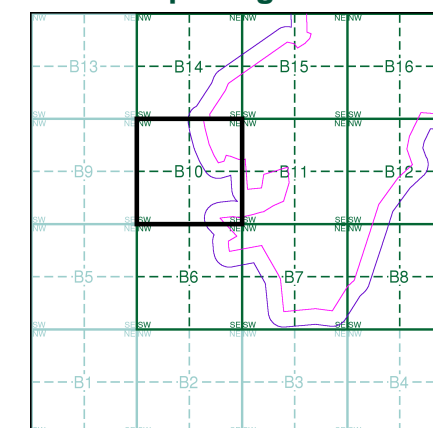
Source map scale - 1:2,500

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 B10



Order Details

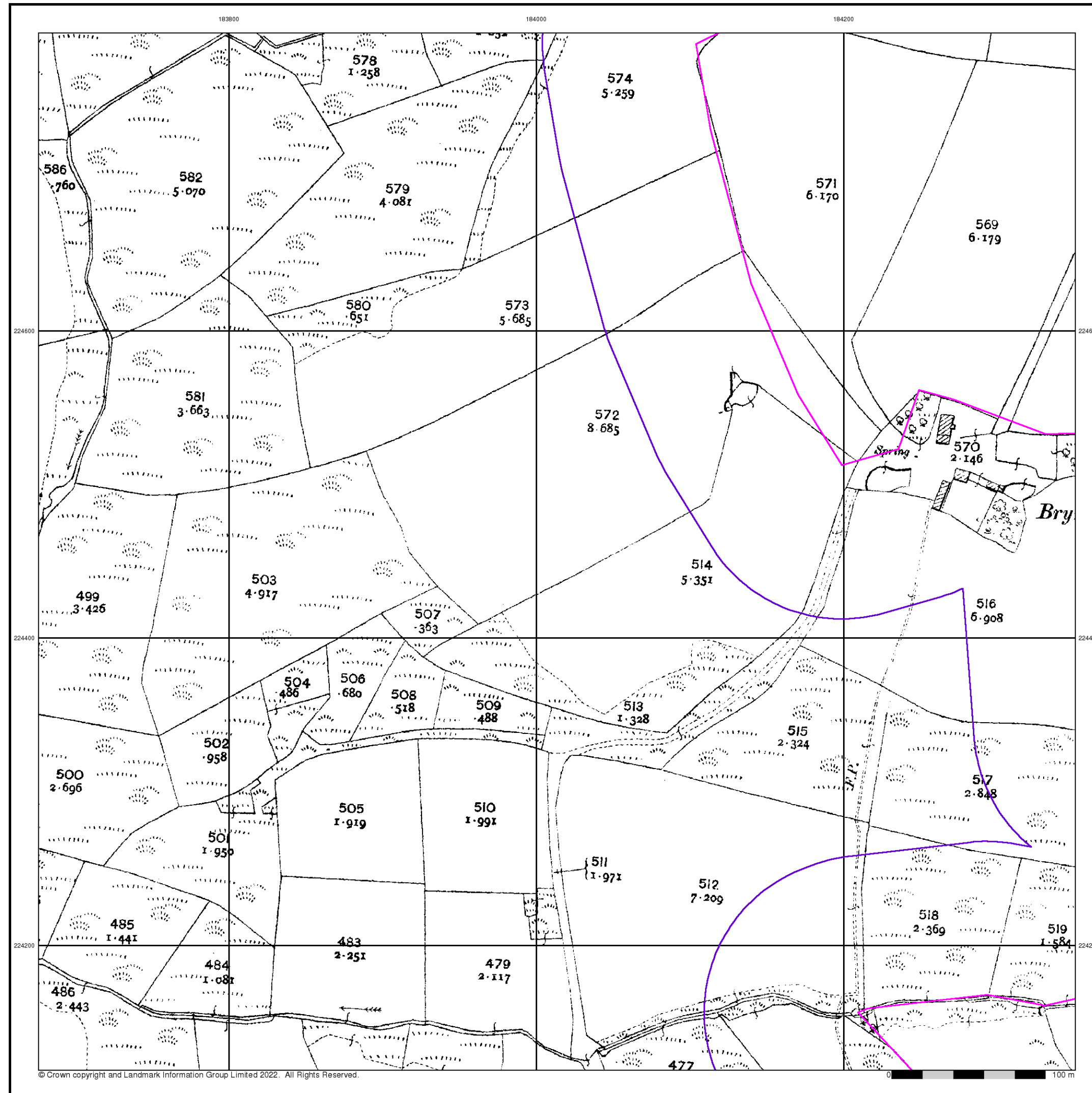
Order Number: 305022956_1_1
Customer Ref: 65208061
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Slice: B
Site Area (Ha): 308.46
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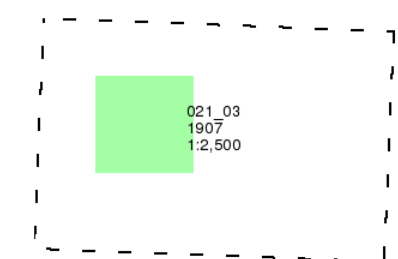
Pembrokeshire

Published 1907

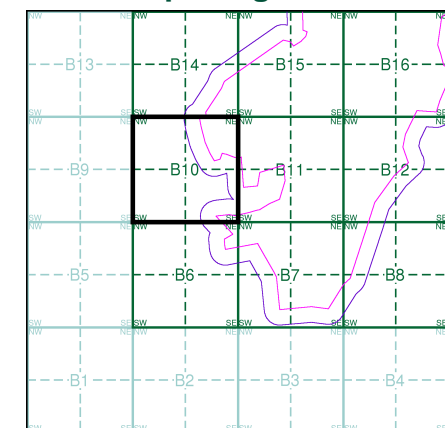
Source map scale - 1:2,500

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 B10



Order Details

Order Number: 305022956_1_1
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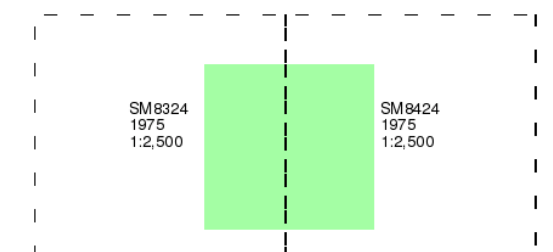
Ordnance Survey Plan

Published 1975

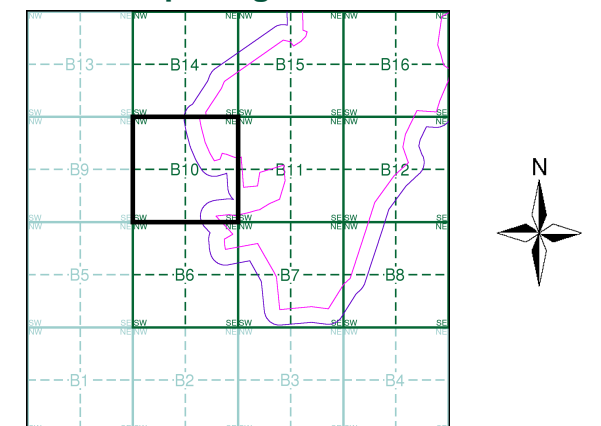
Source map scale - 1:2,500

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 B10



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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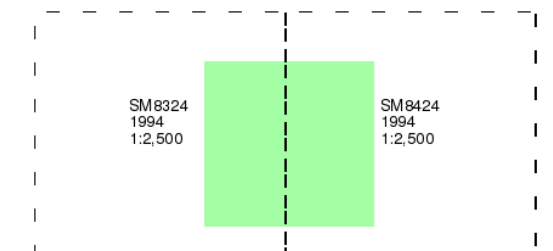
Tel: 0844 844 9952
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Published 1994

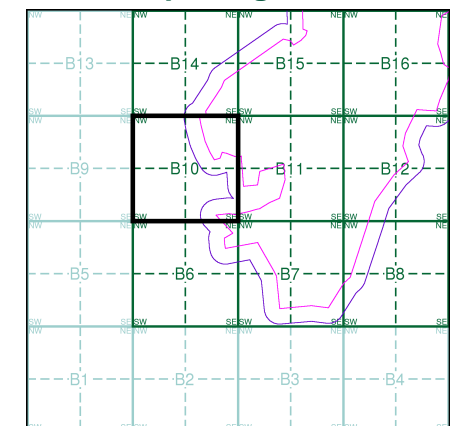
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment B10



Order Details

Order Number: 305022956_1_1
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Site Details

Cawdor site





Map Name(s) and Date(s)



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Site Area (Ha): 308.46
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Historical Mapping Legends

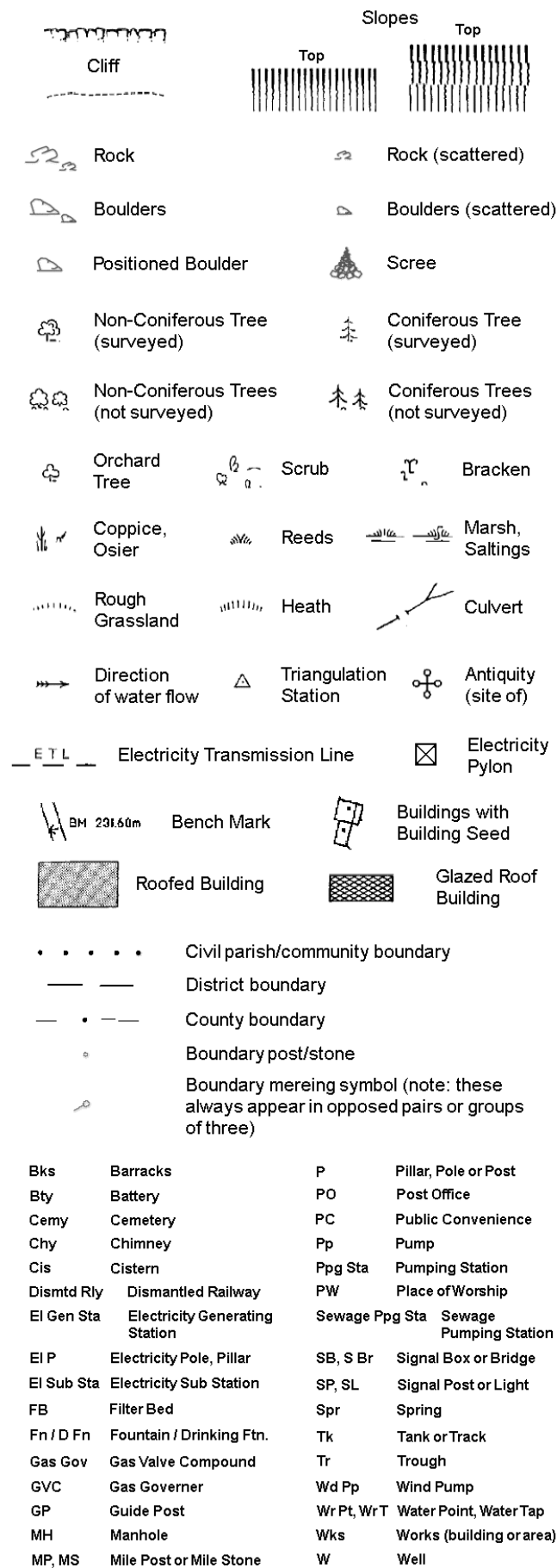
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



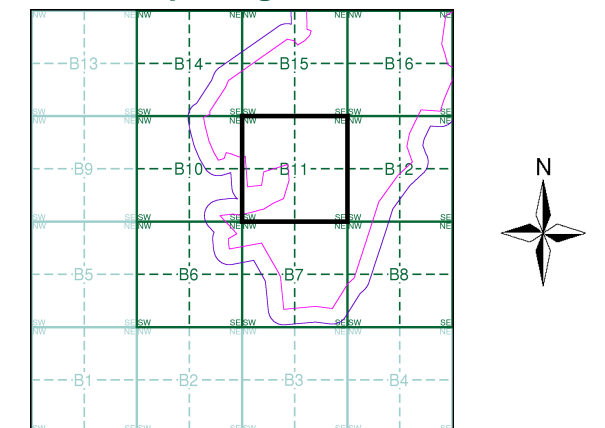
Large-Scale National Grid Data 1:2,500 and 1:1,250



SWECO Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B11

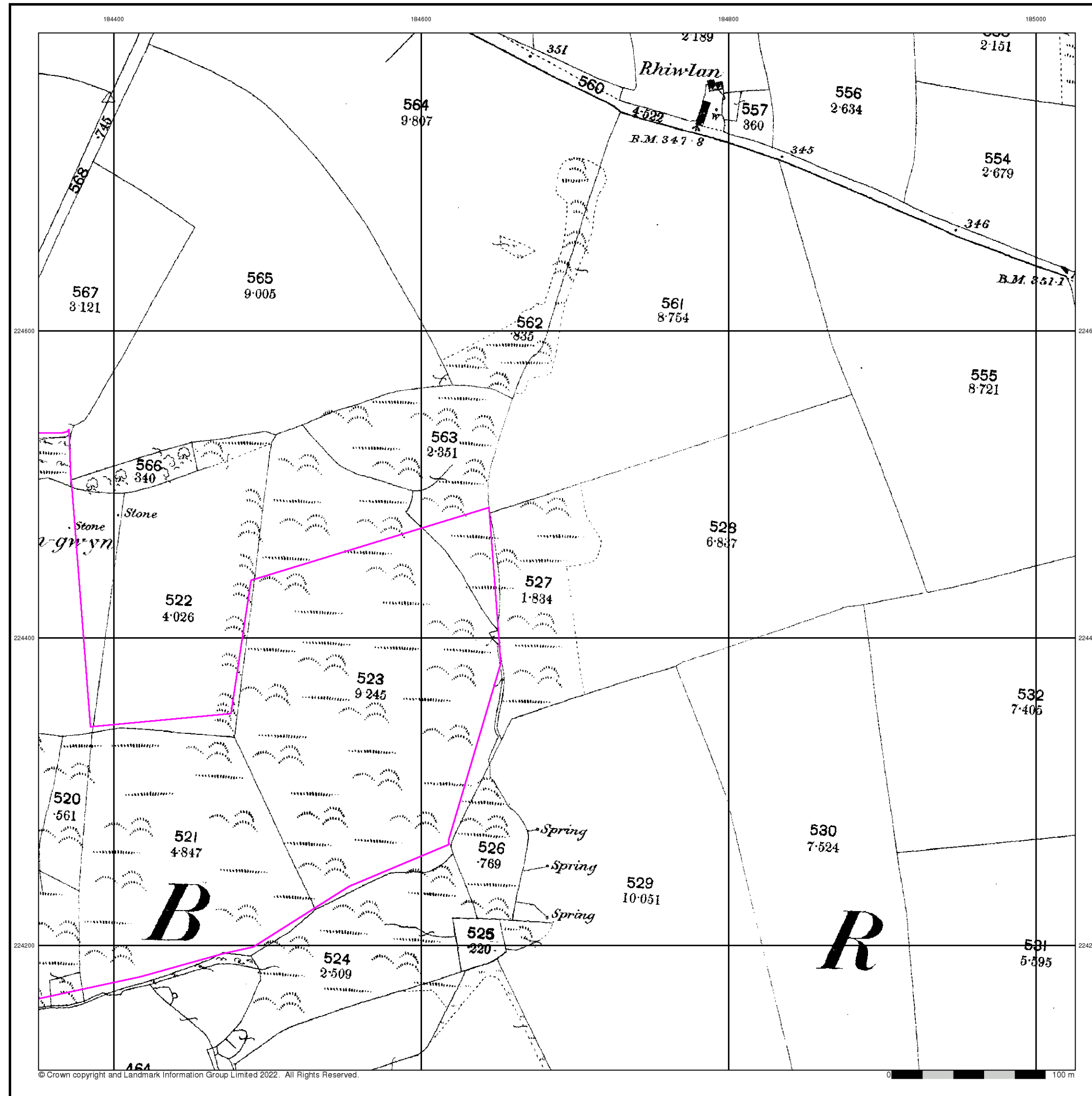


Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site



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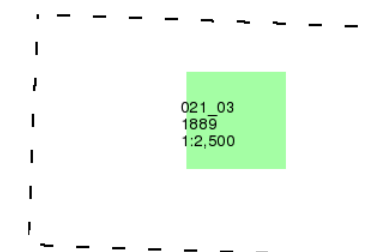
Pembrokeshire

Published 1889

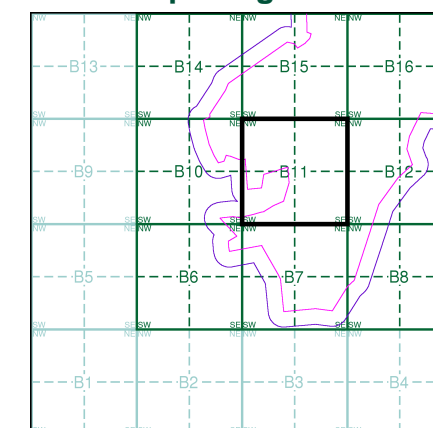
Source map scale - 1:2,500

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 B11



Order Details

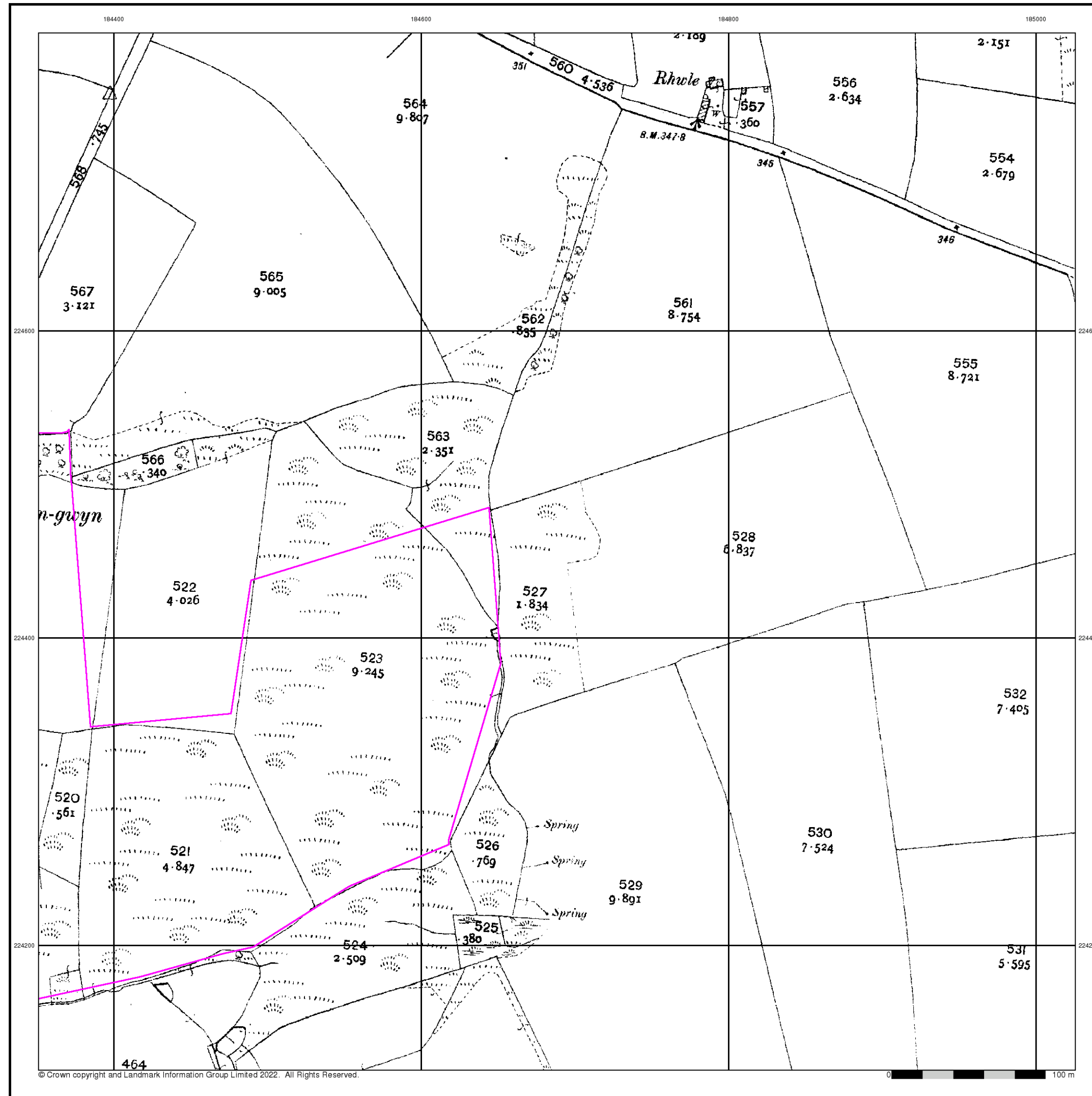
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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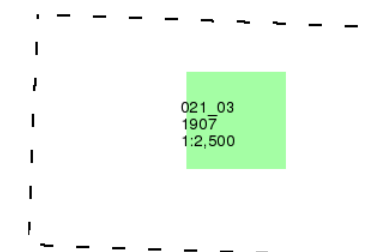
Pembrokeshire

Published 1907

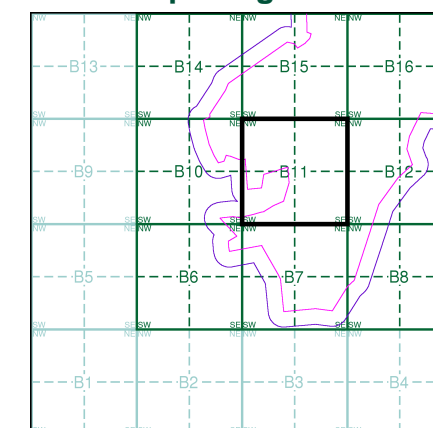
Source map scale - 1:2,500

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 B11



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
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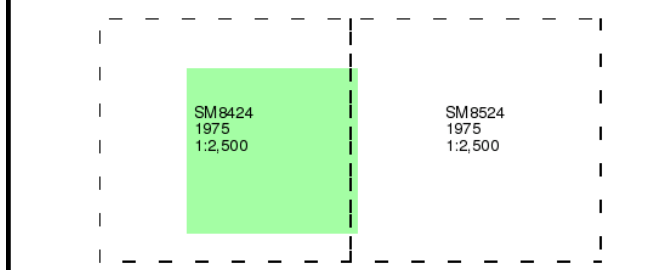
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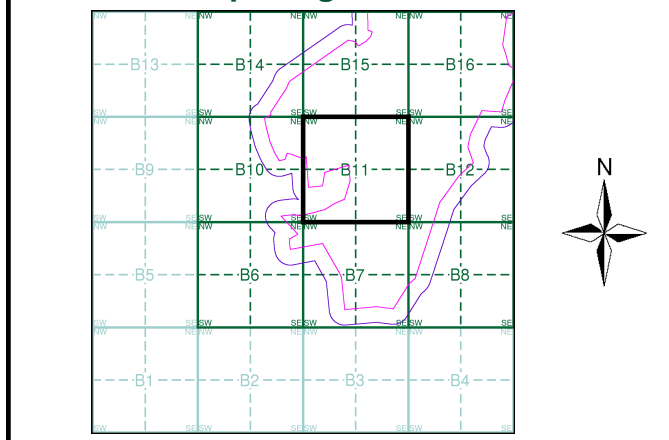
SWECO
Ordnance Survey Plan
Published 1975
Source map scale - 1:2,500

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)



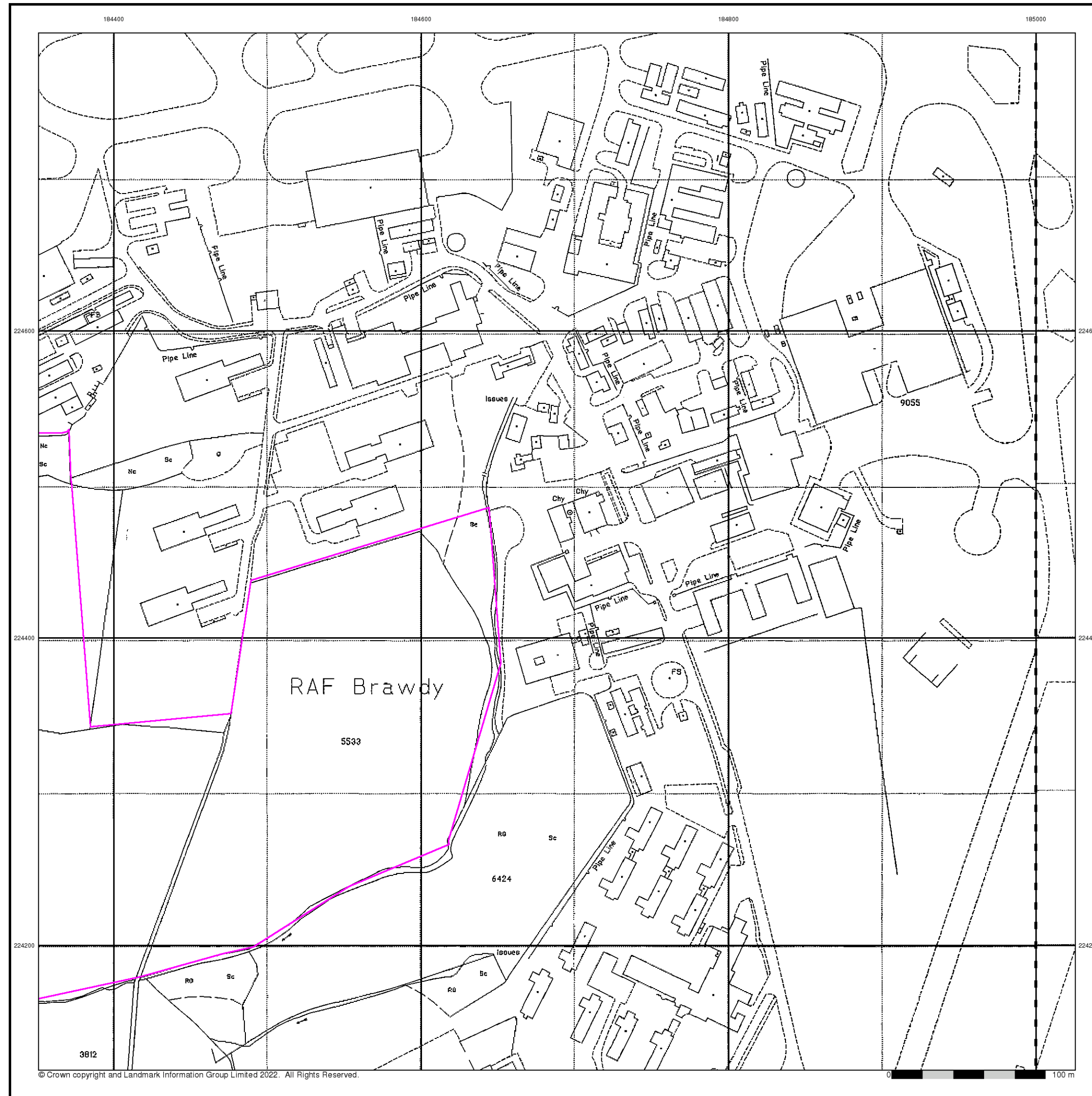
Historical Map - Segment B11



Order Details
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details
Cawdor site

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0 100 m



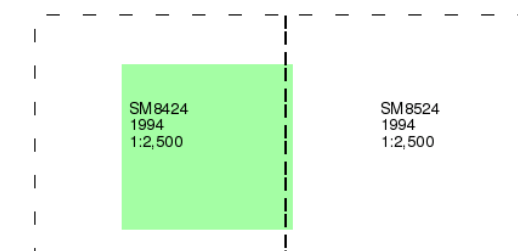
Large-Scale National Grid Data

Published 1994

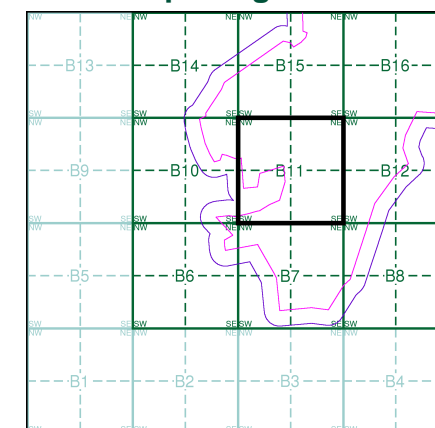
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment B11



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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Source map scale - 1:2,500

Map Name(s) and Date(s)



Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

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Historical Mapping Legends

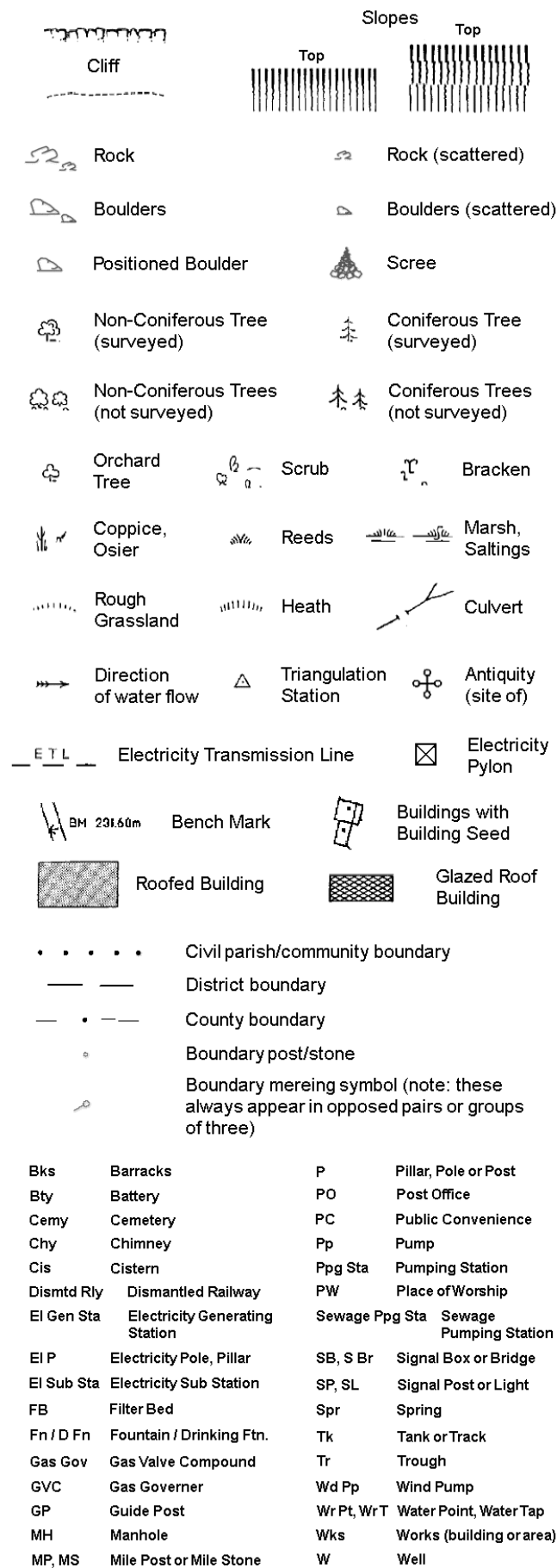
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

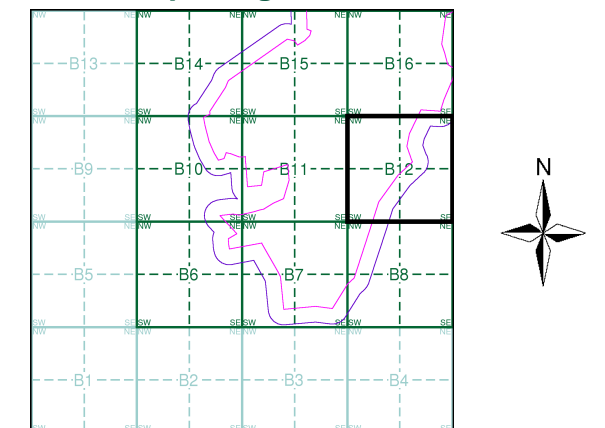


SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment B12



Order Details

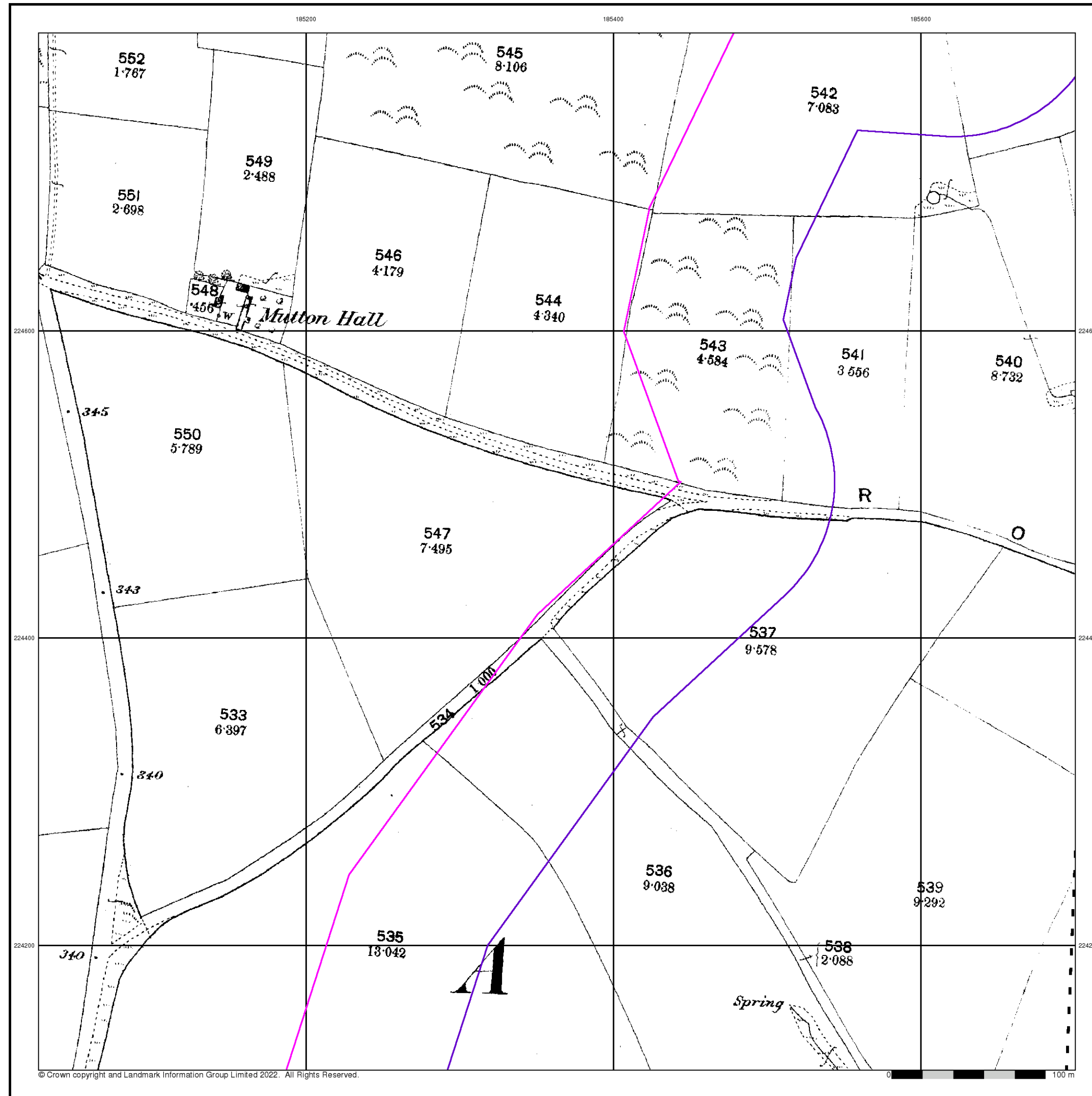
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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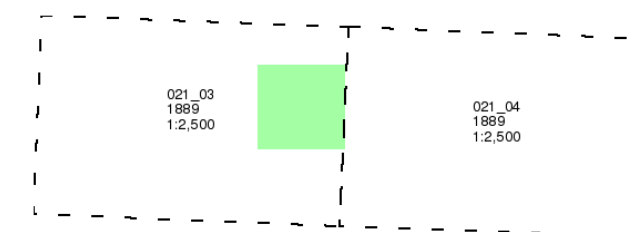
Pembrokeshire

Published 1889

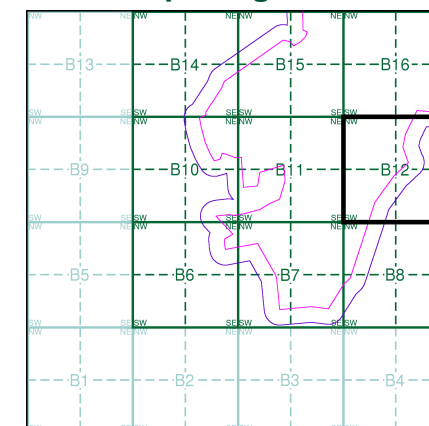
Source map scale - 1:2,500

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 B12



Order Details

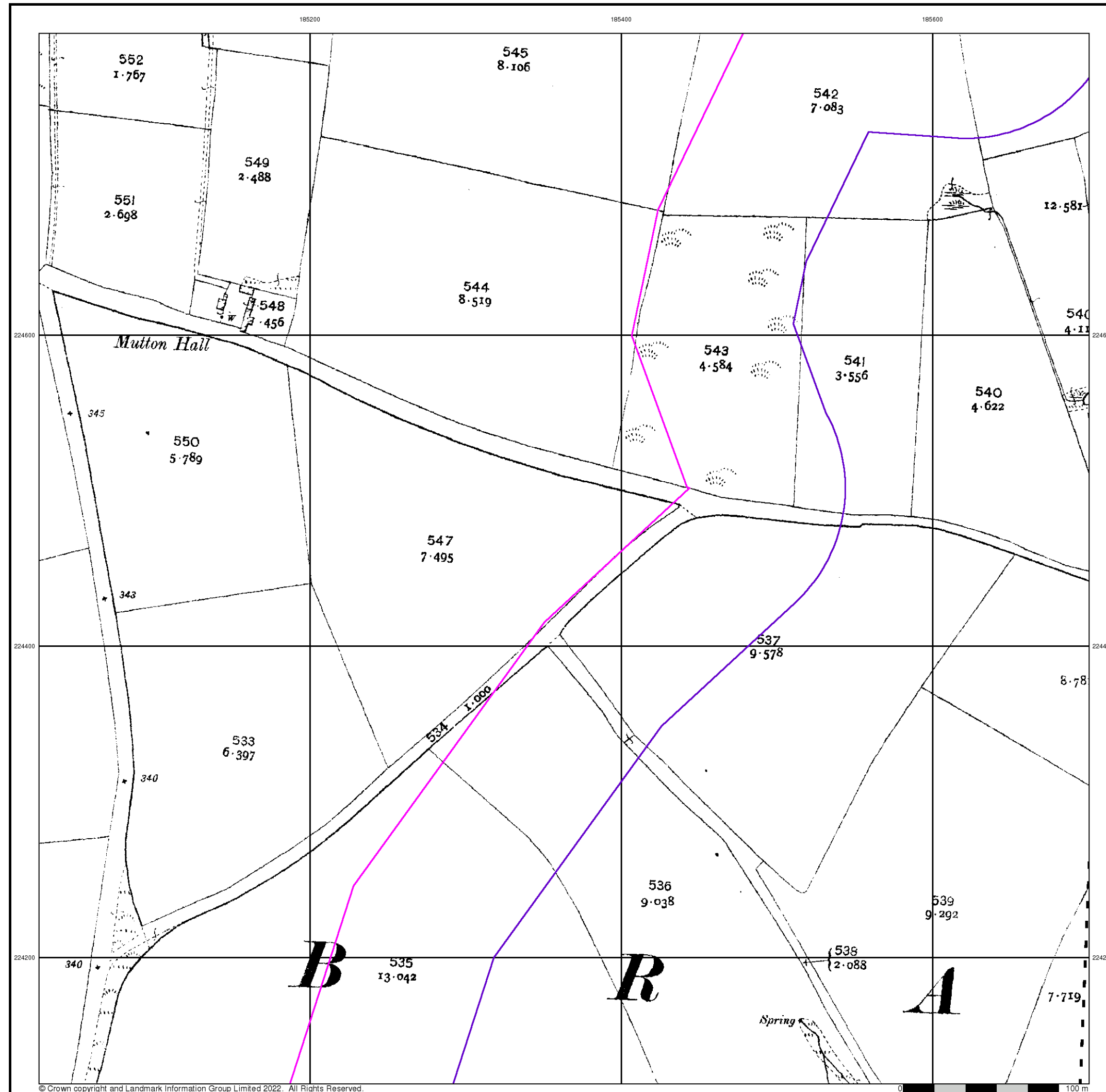
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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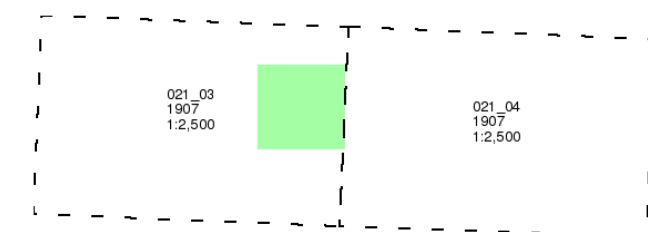
SWECO
Pembrokeshire

Published 1907

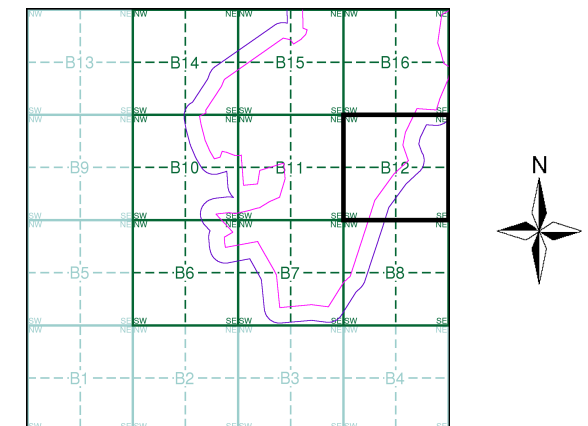
Source map scale - 1:2,500

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 B12



Order Details

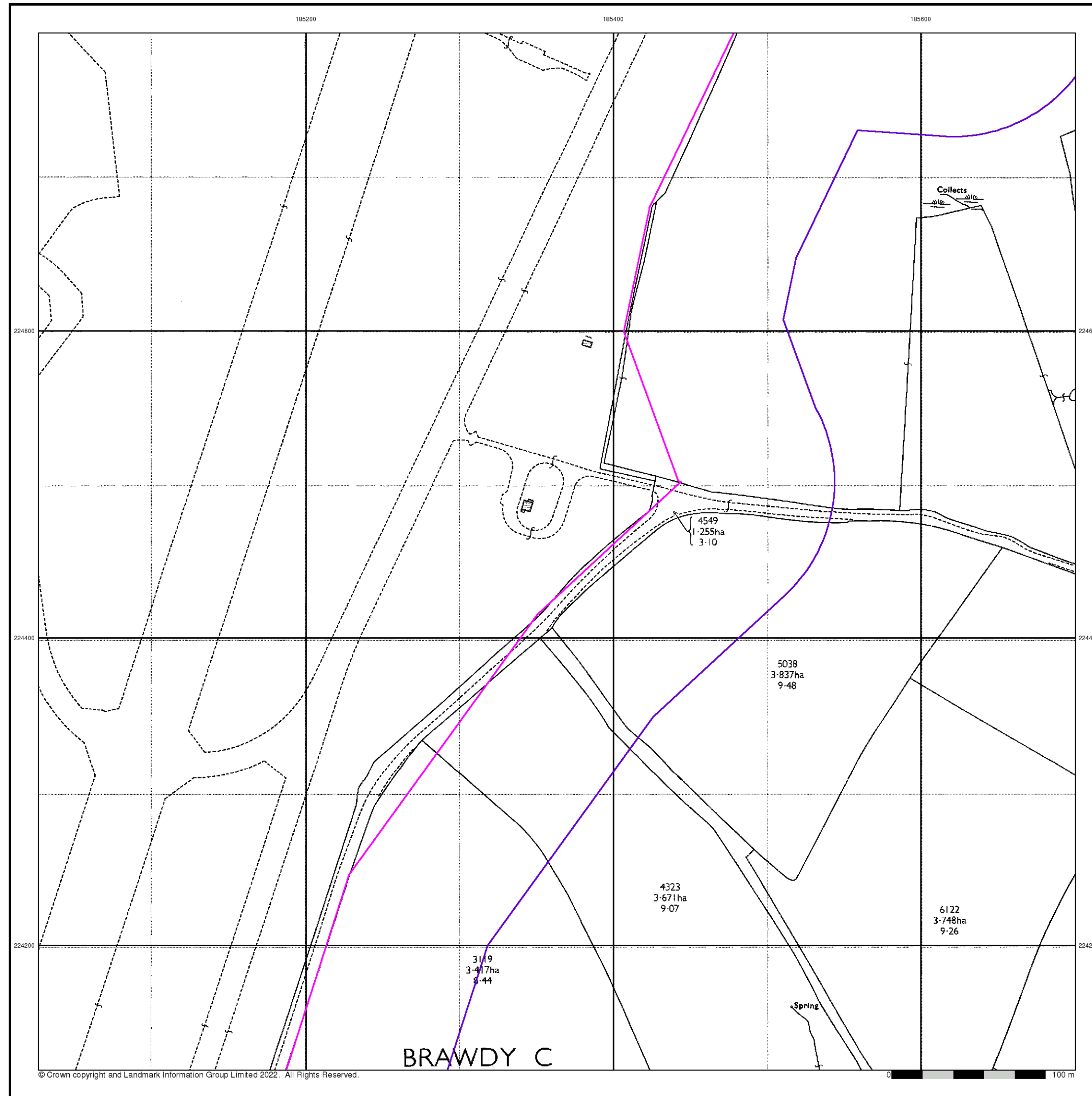
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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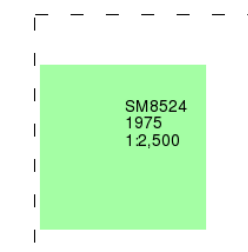
Ordinance Survey Plan

Published 1975

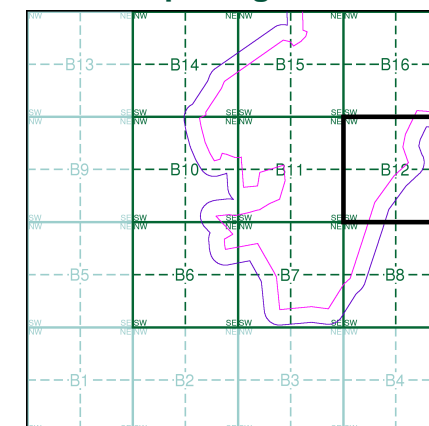
Source map scale - 1:2,500

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 B12



Order Details

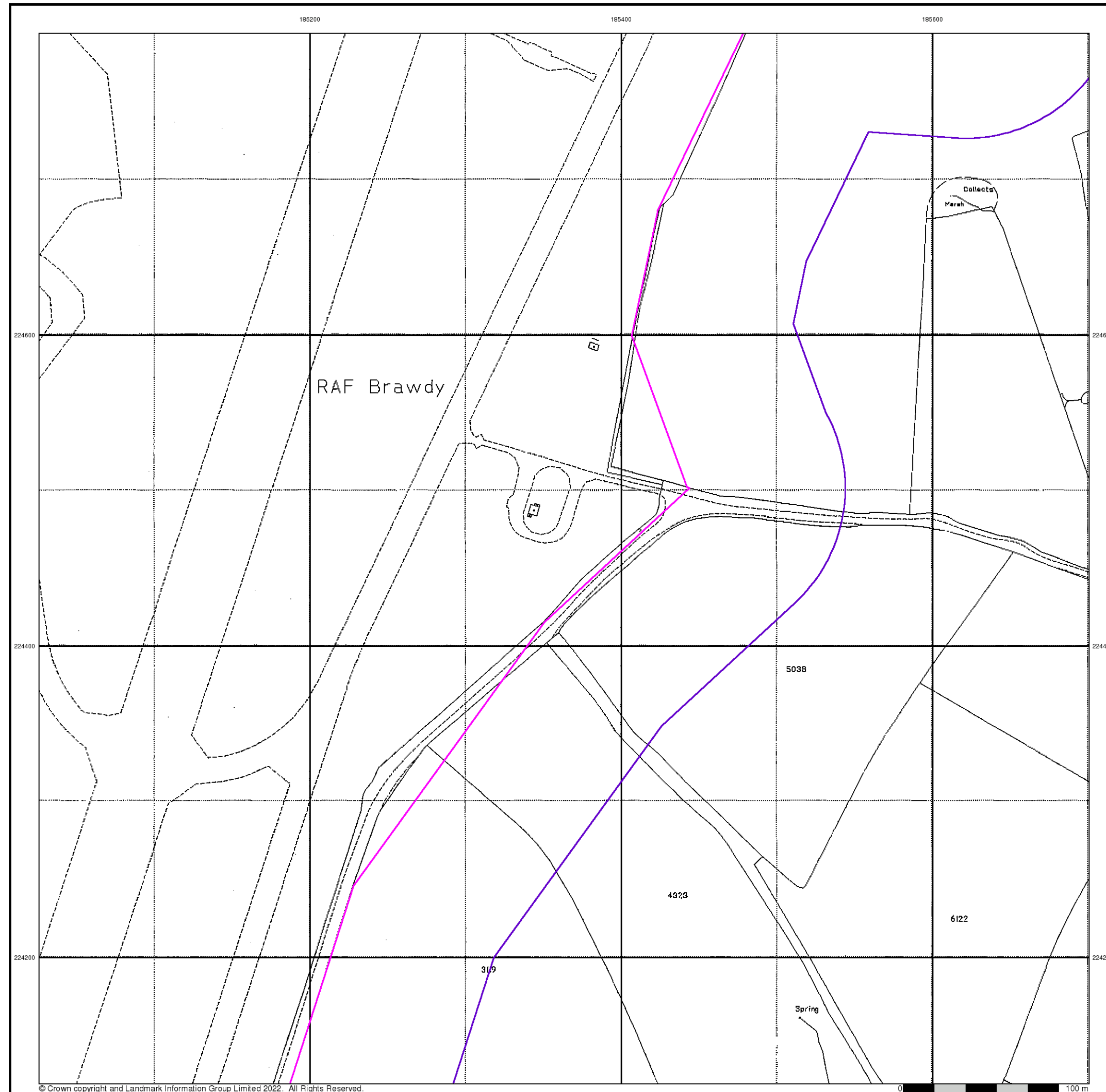
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Historical Mapping Legends

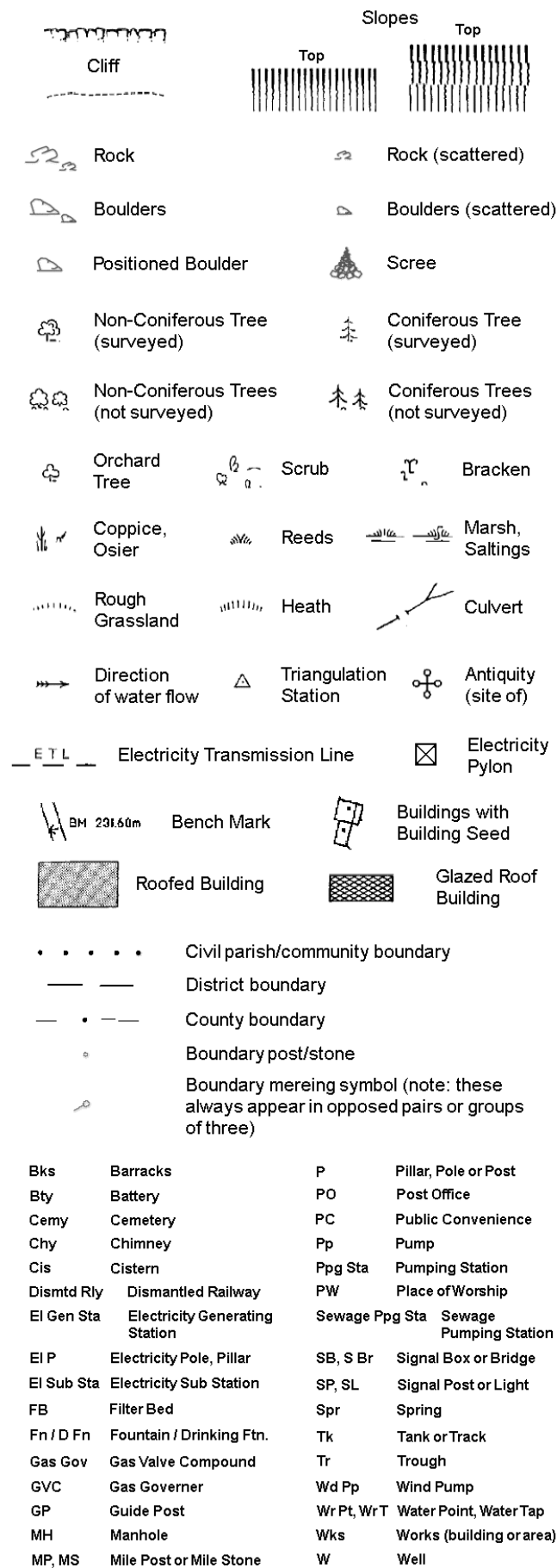
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

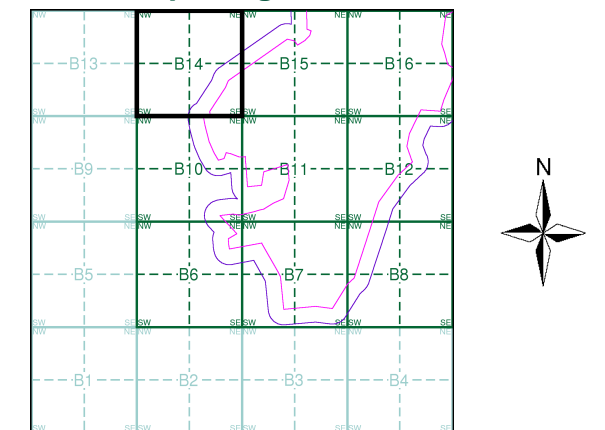


SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B14



Order Details

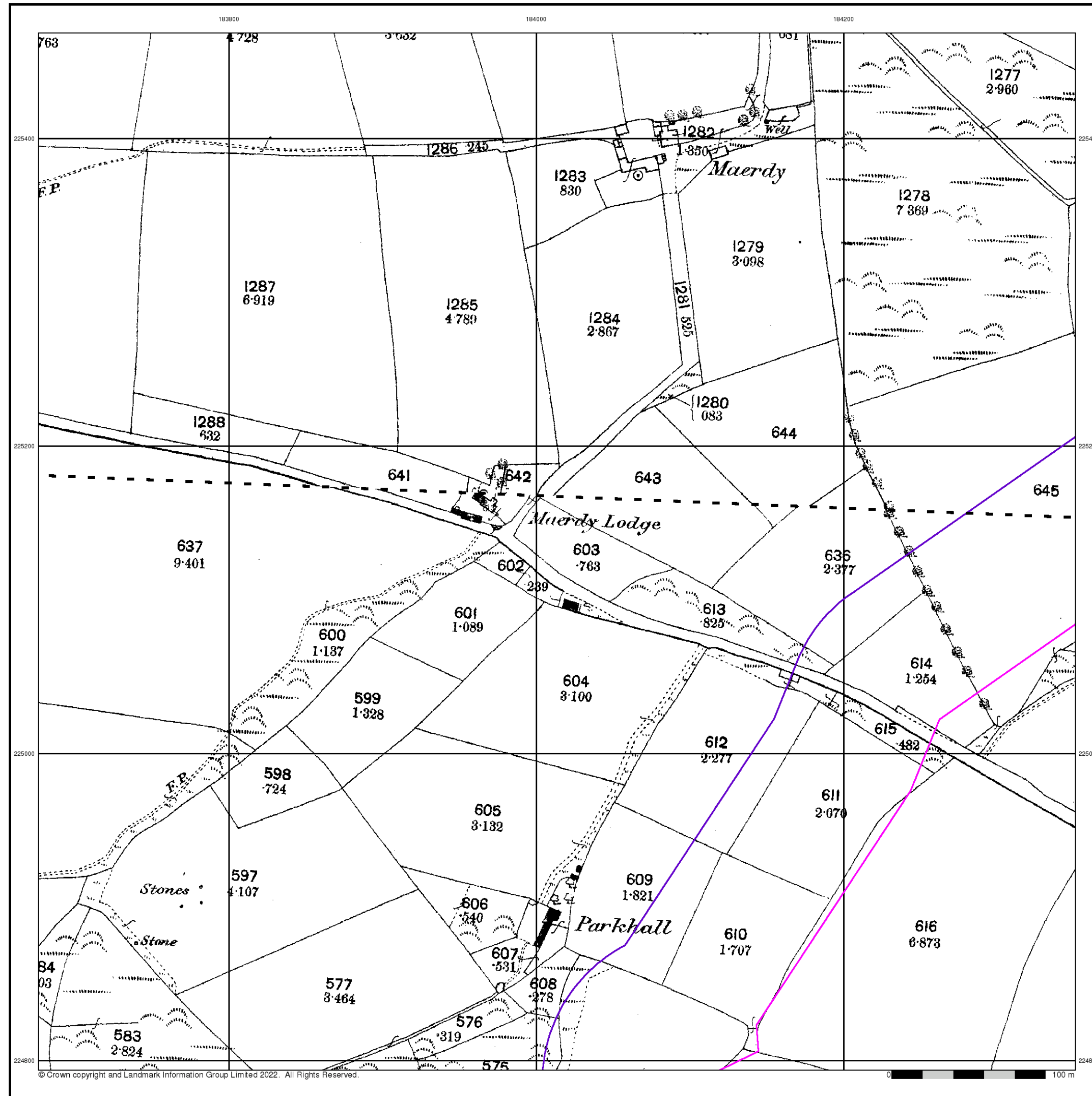
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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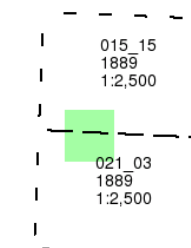
Pembrokeshire

Published 1889

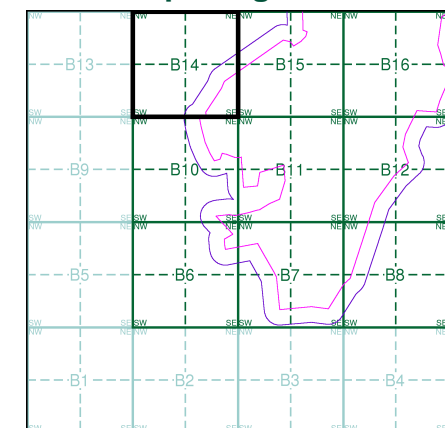
Source map scale - 1:2,500

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 B14



Order Details

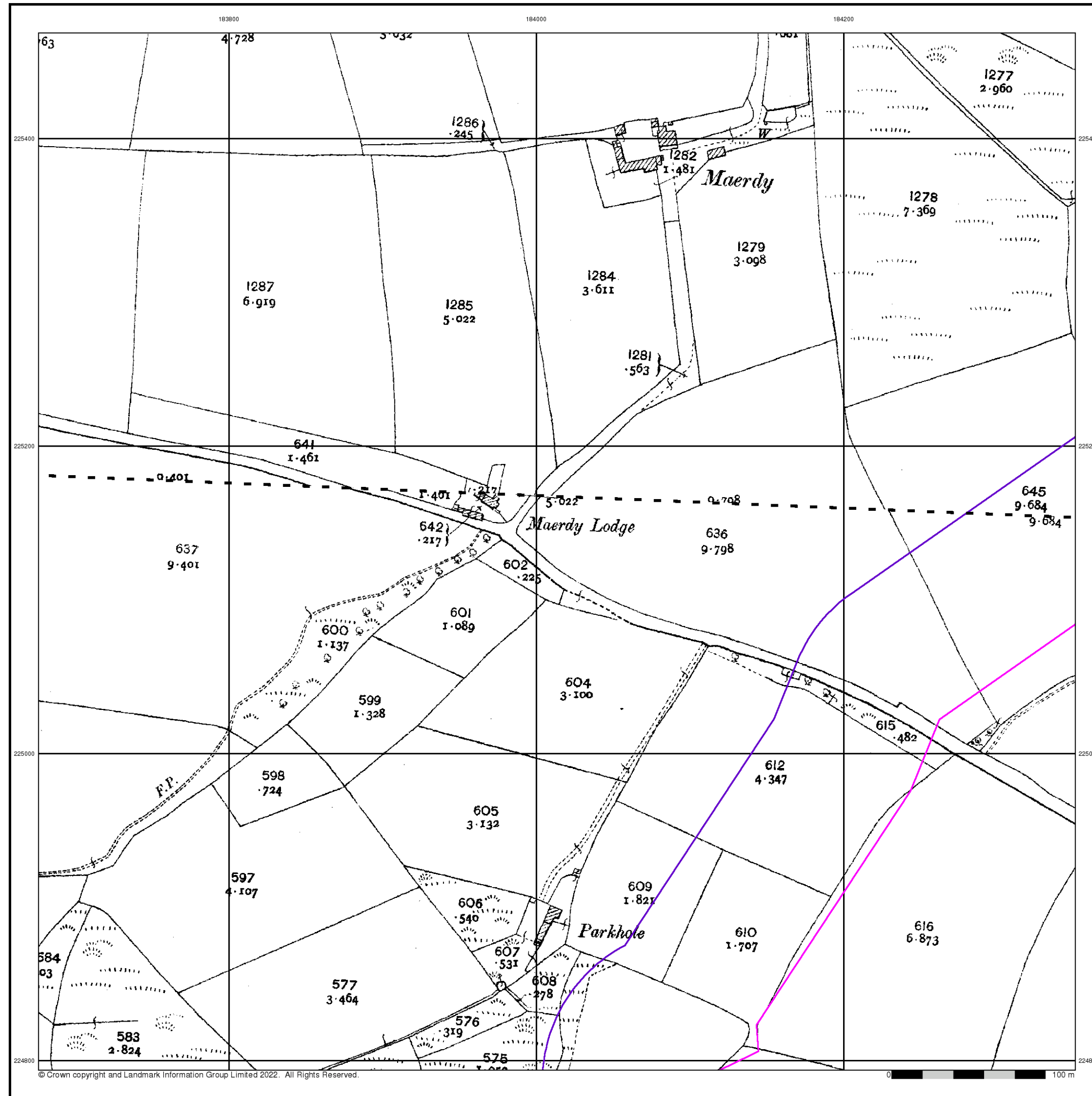
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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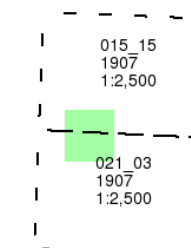
Pembrokeshire

Published 1907

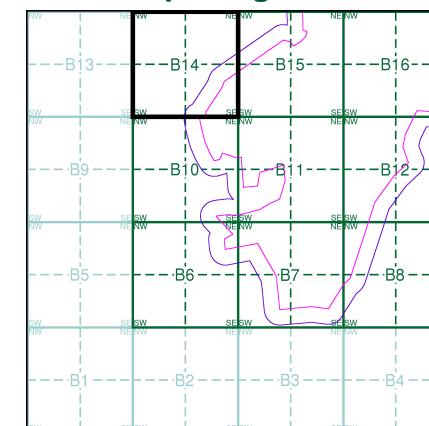
Source map scale - 1:2,500

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 B14



Order Details

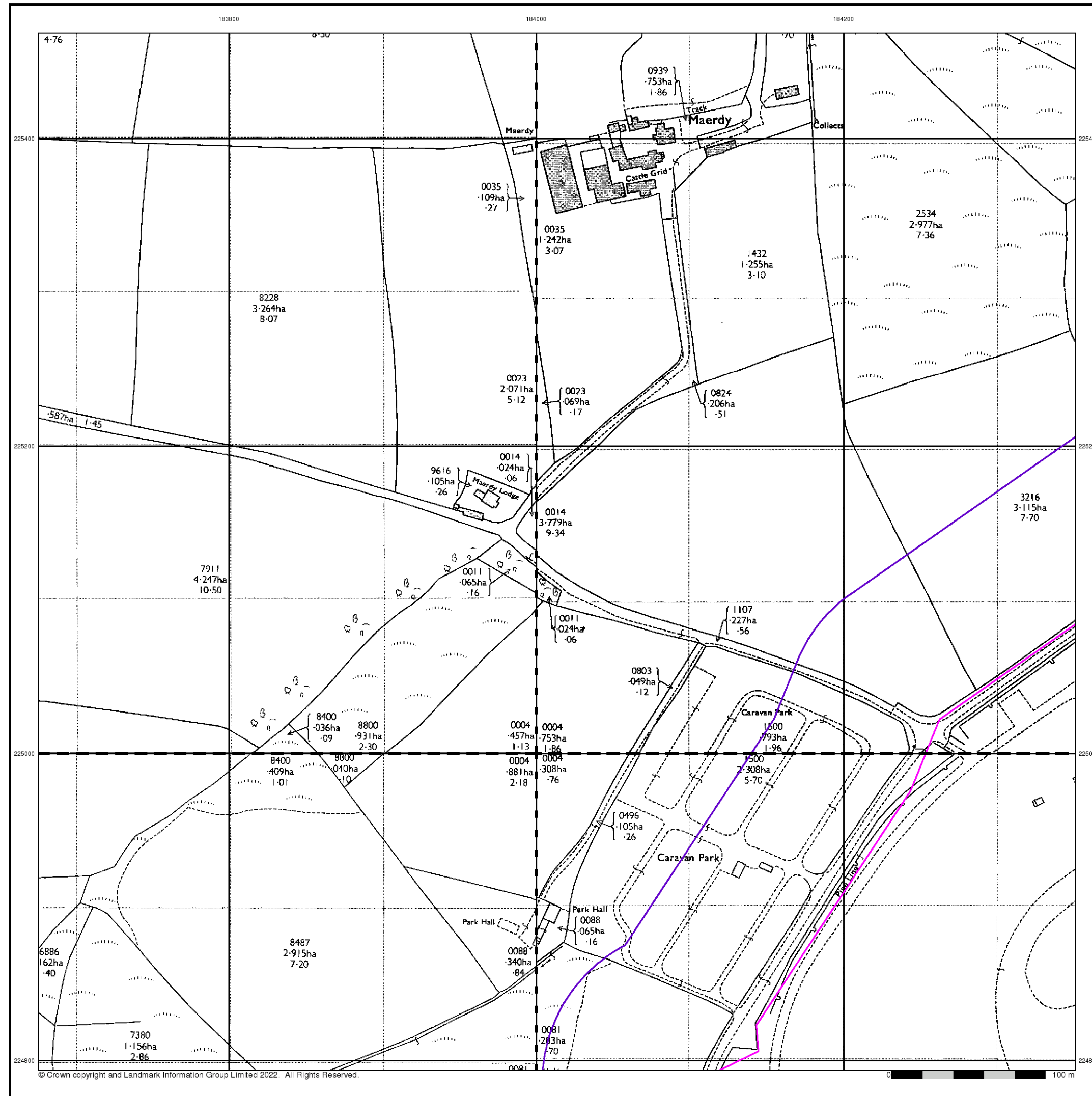
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1975

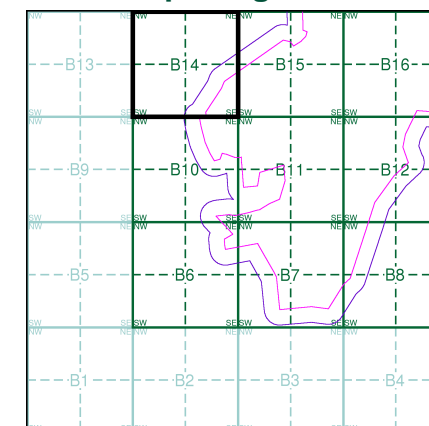
Source map scale - 1:2,500

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)

SM8325 1975 12,500	SM8425 1975 12,500
SM8324 1975 12,500	SM8424 1975 12,500

Historical Map - Segment B14



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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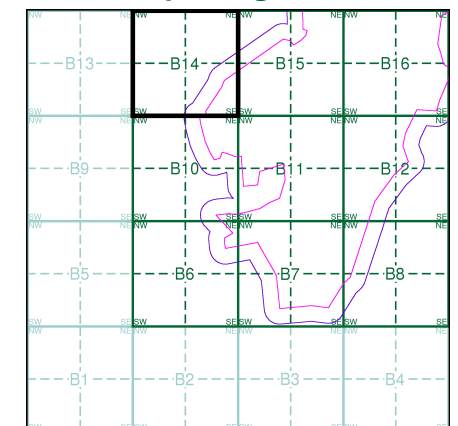
Published 1994

Source map scale - 1:2,500

Map Name(s) and Date(s)

SM8325 1994 12,500	SM8425 1994 12,500
SM8324 1994 12,500	SM8424 1994 12,500

Historical Map - Segment B14



Order Details

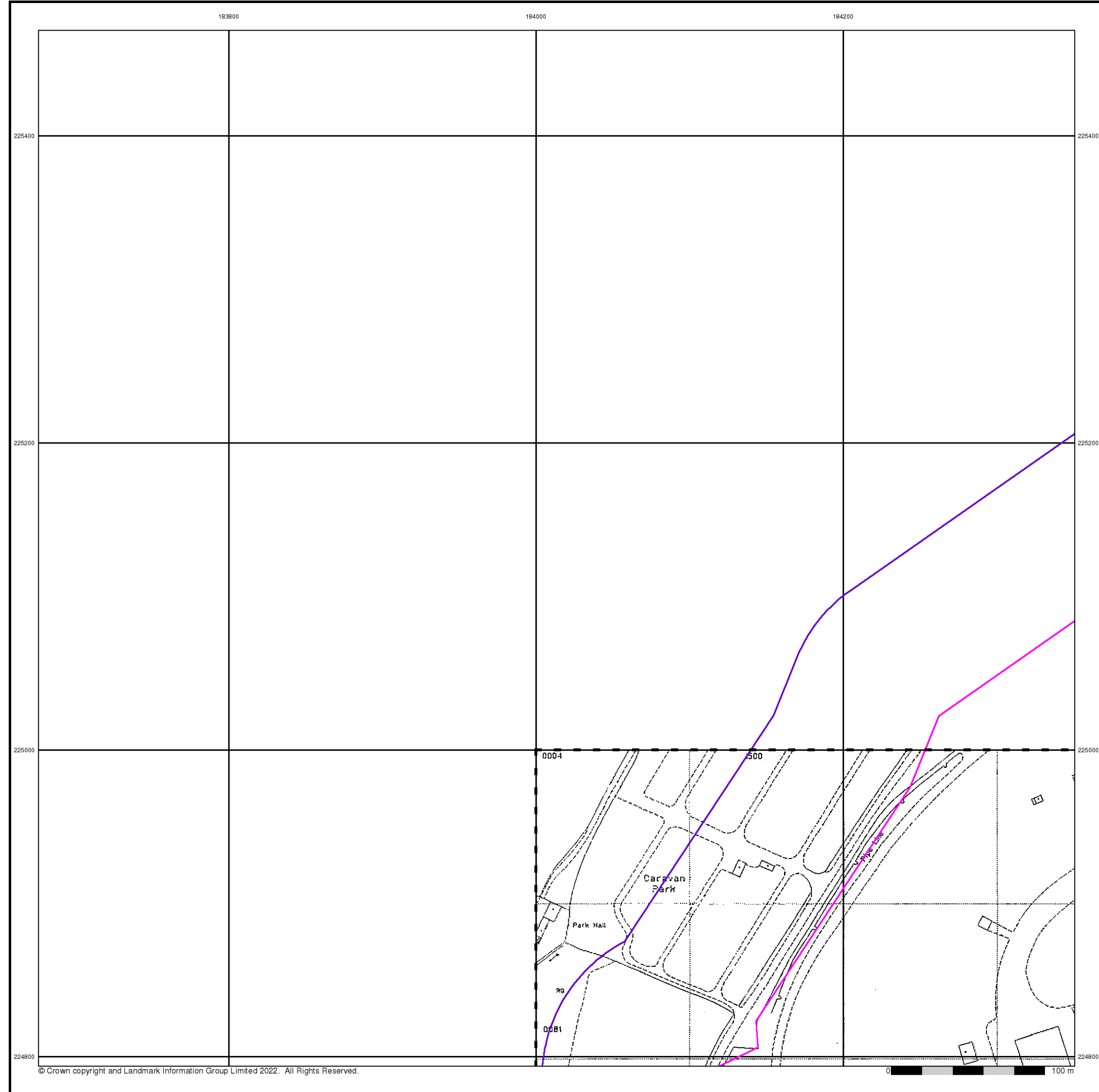
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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SWECO


Large-Scale National Grid Data

Published 1995

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)

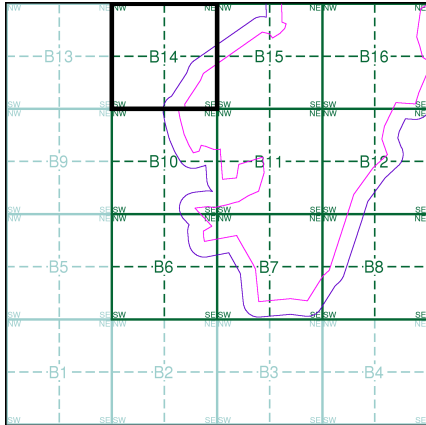


SM8424

1995

1:2,500

Historical Map - Segment B14



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

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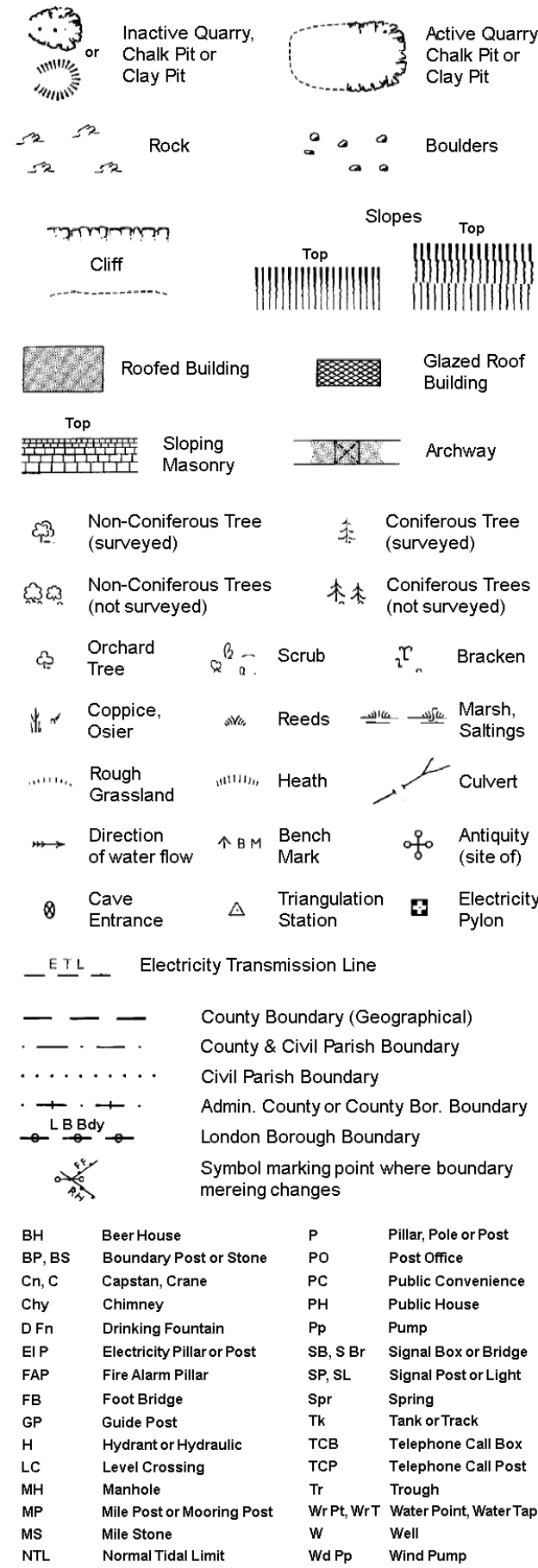
A Landmark Information Group Service v50.0 14-Dec-2022 Page 6 of 6

Historical Mapping Legends

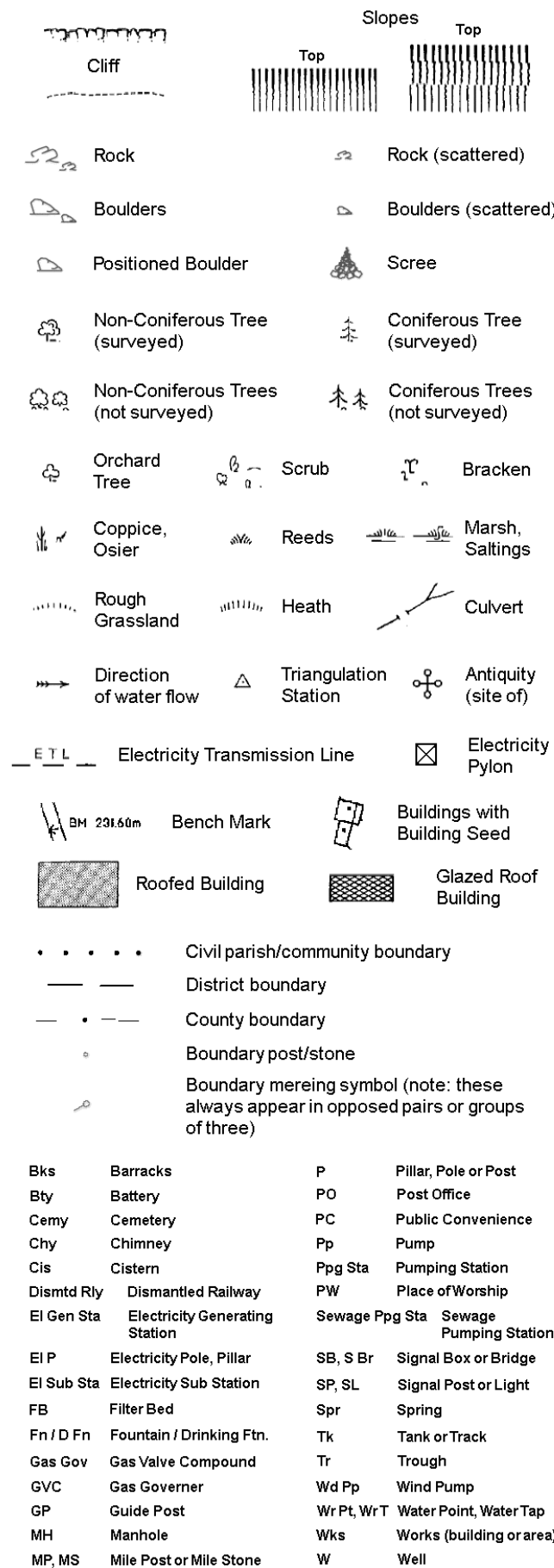
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



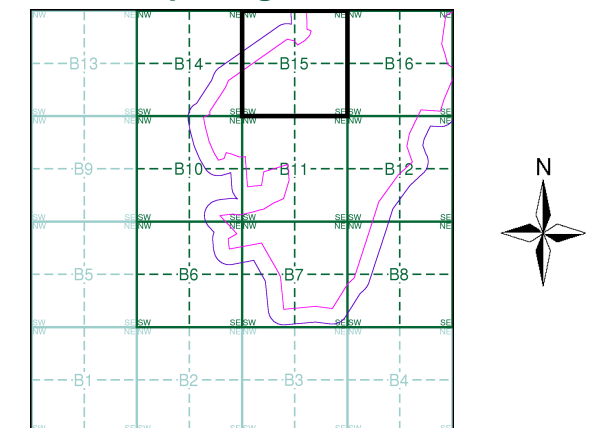
Large-Scale National Grid Data 1:2,500 and 1:1,250



SWECO Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B15



Order Details

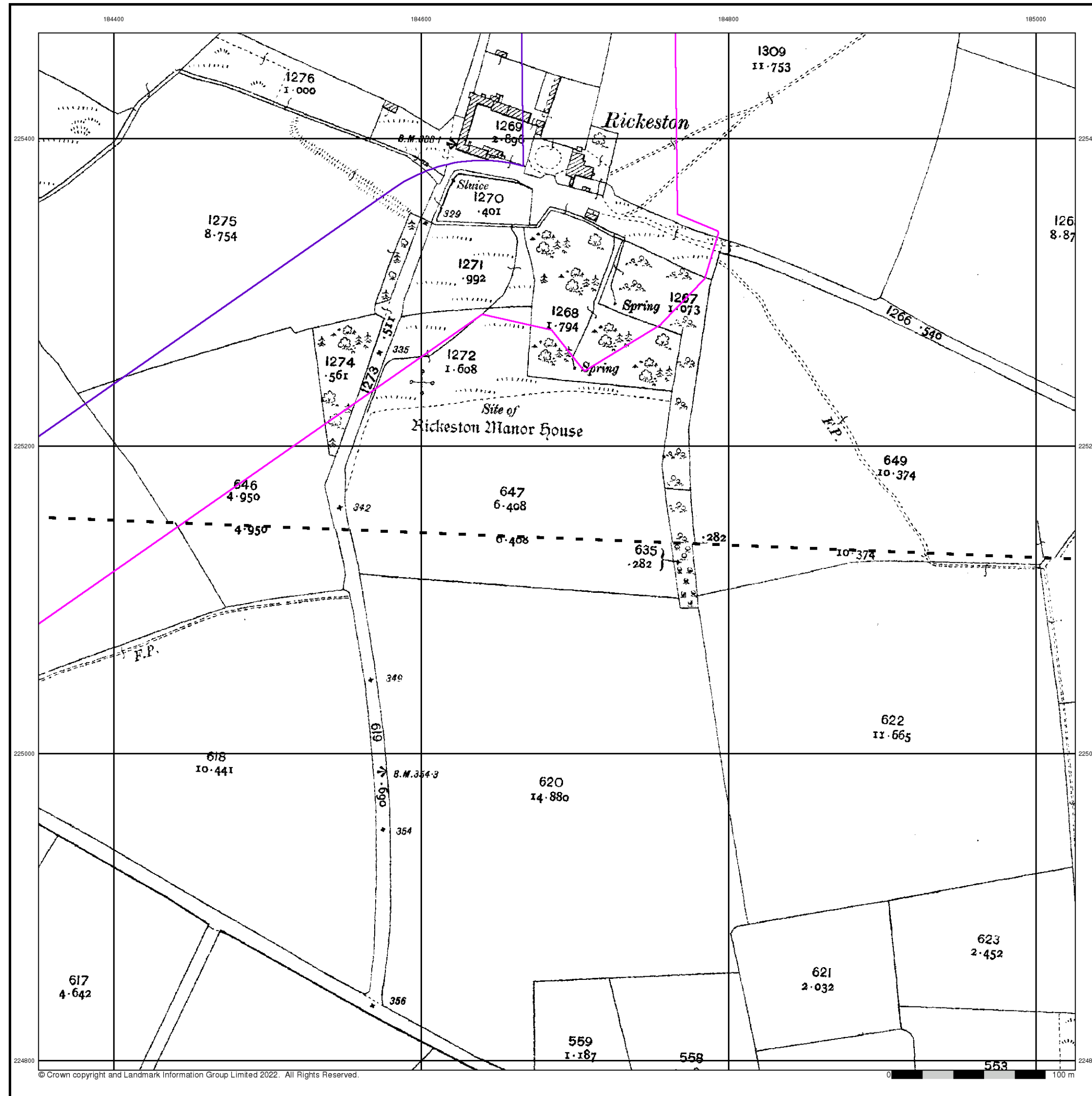
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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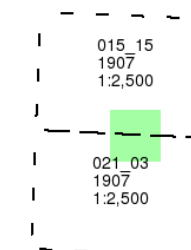
Pembrokeshire

Published 1907

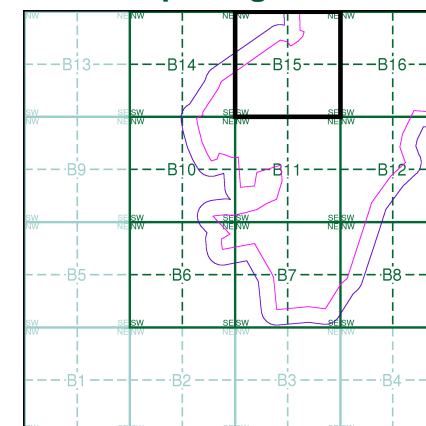
Source map scale - 1:2,500

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 B15



Order Details

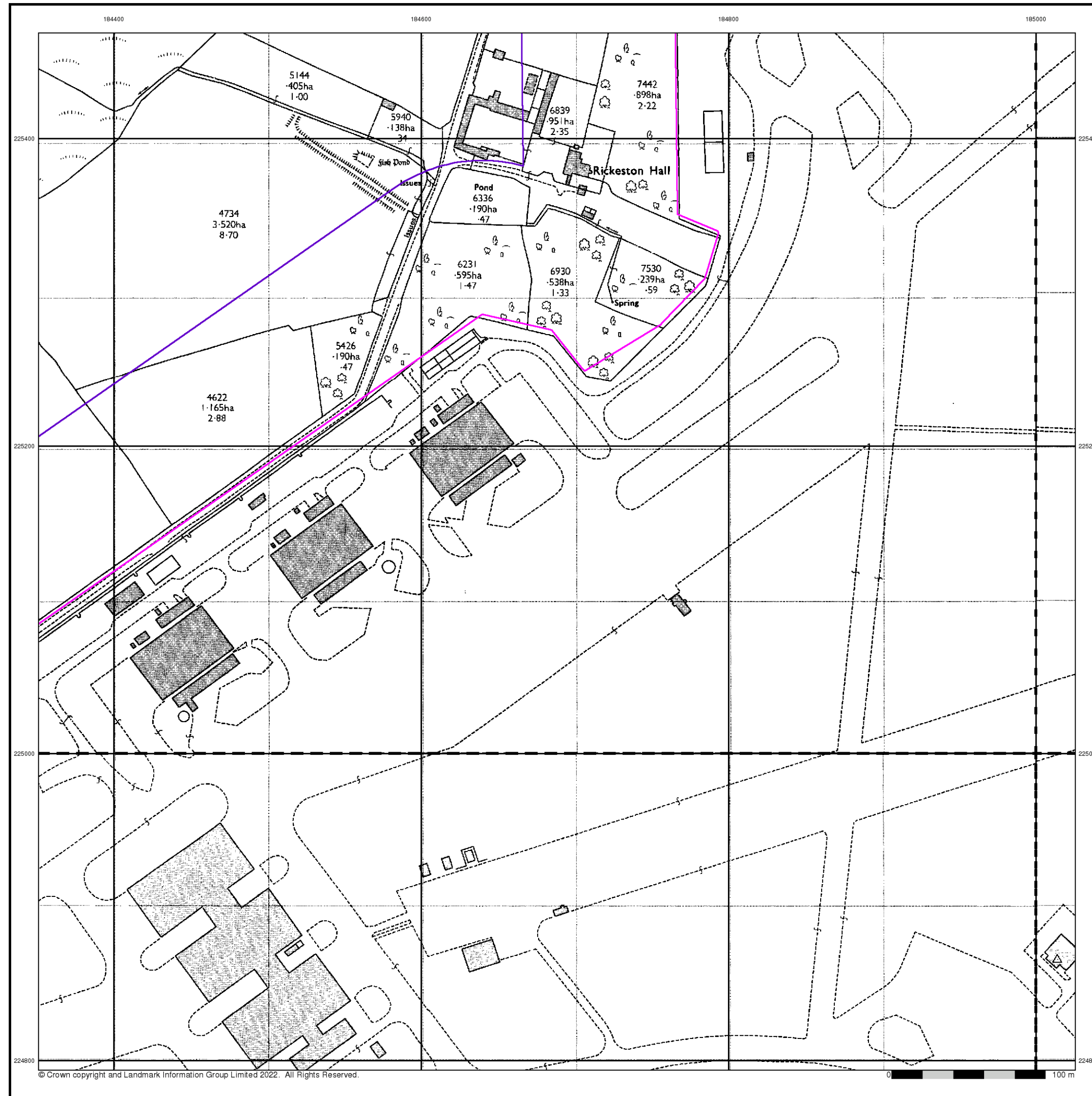
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1975

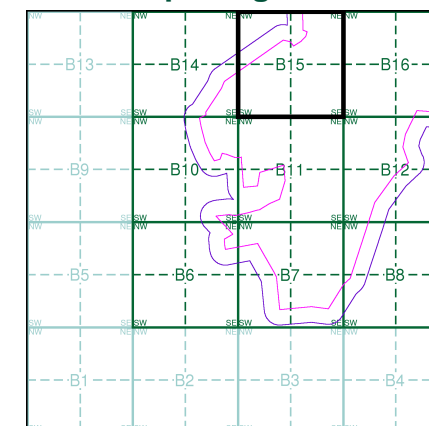
Source map scale - 1:2,500

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)

SM8425 1975 12,500	SM8525 1975 12,500
SM8424 1975 12,500	SM8524 1975 12,500

Historical Map - Segment B15



Order Details

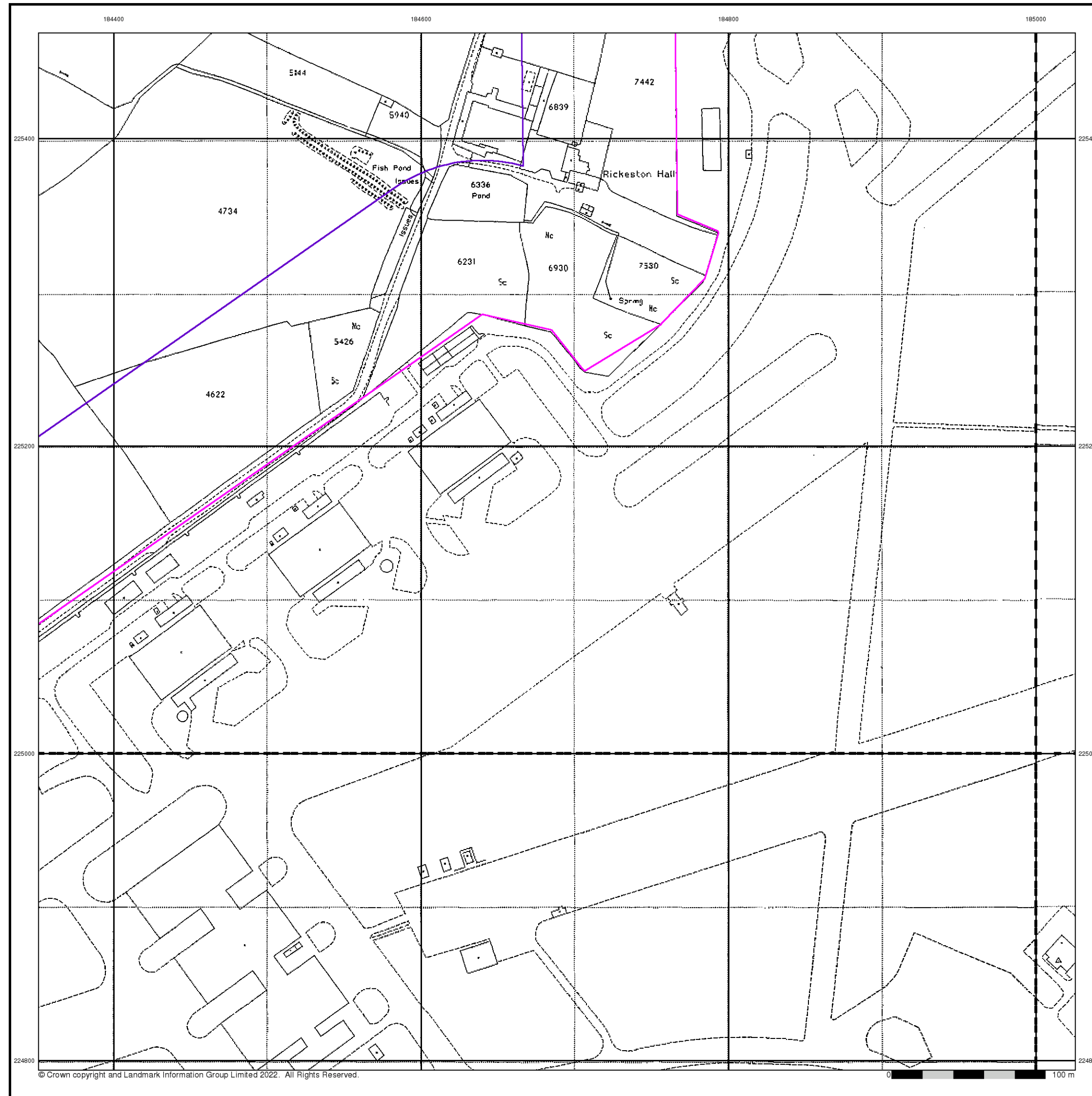
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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Large-Scale National Grid Data

Published 1994

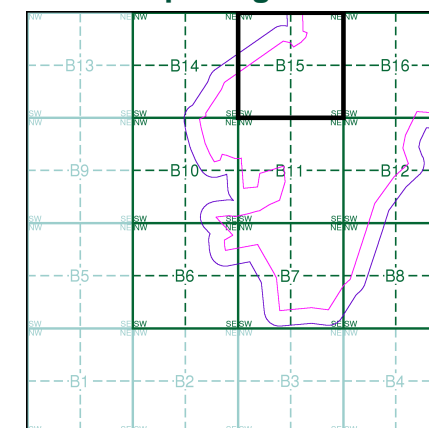
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8425 1994 12,500	SM8525 1994 12,500
SM8424 1994 12,500	SM8524 1994 12,500

Historical Map - Segment B15



Order Details

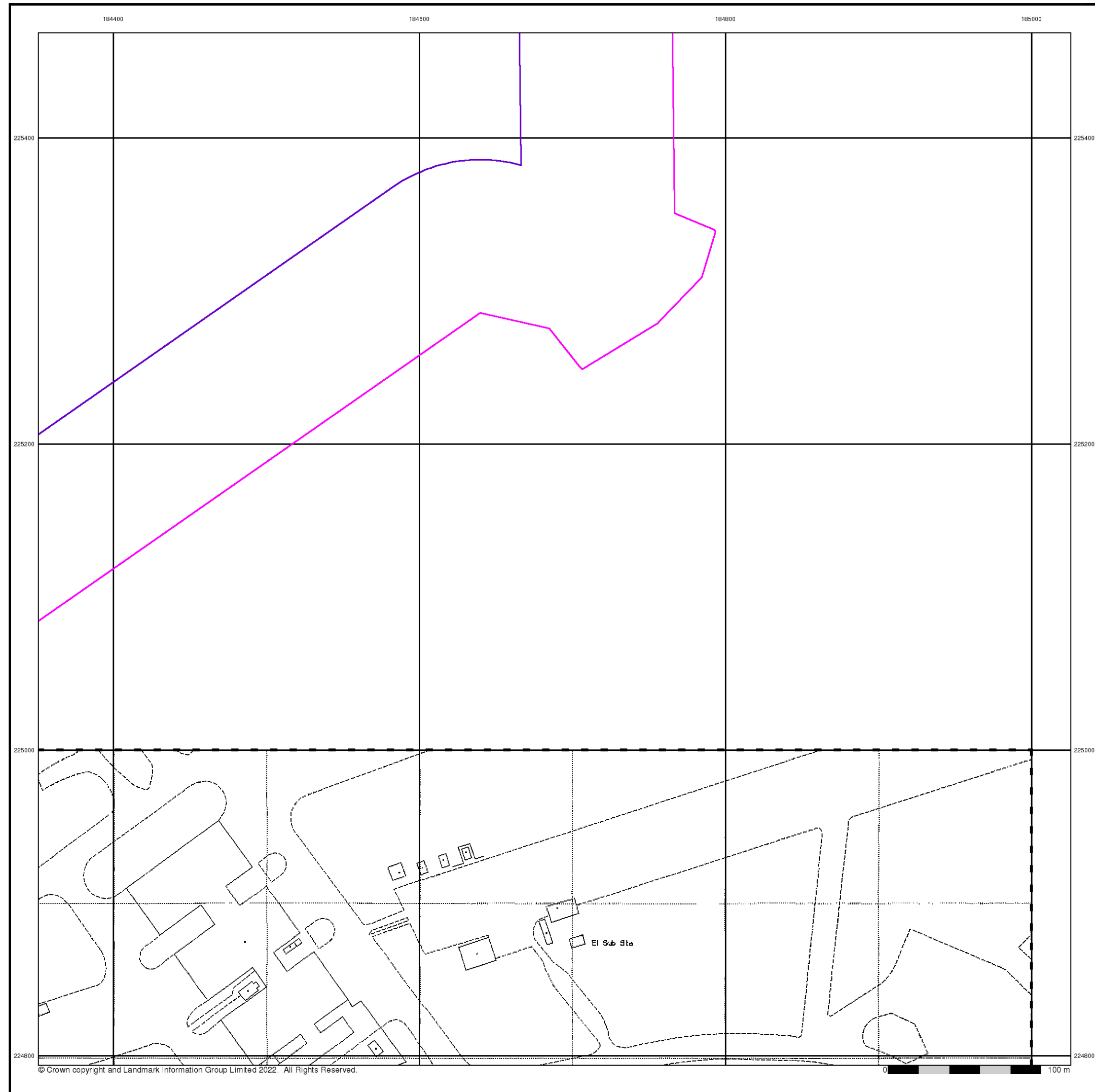
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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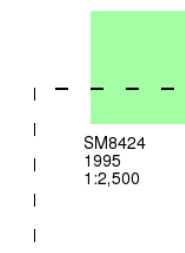
Large-Scale National Grid Data

Published 1995

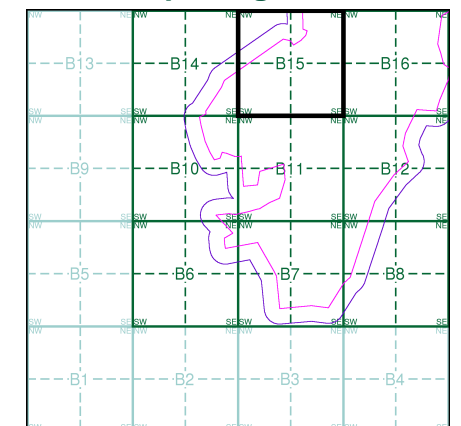
Source map scale - 1:2,500

'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 B15



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site



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Historical Mapping Legends

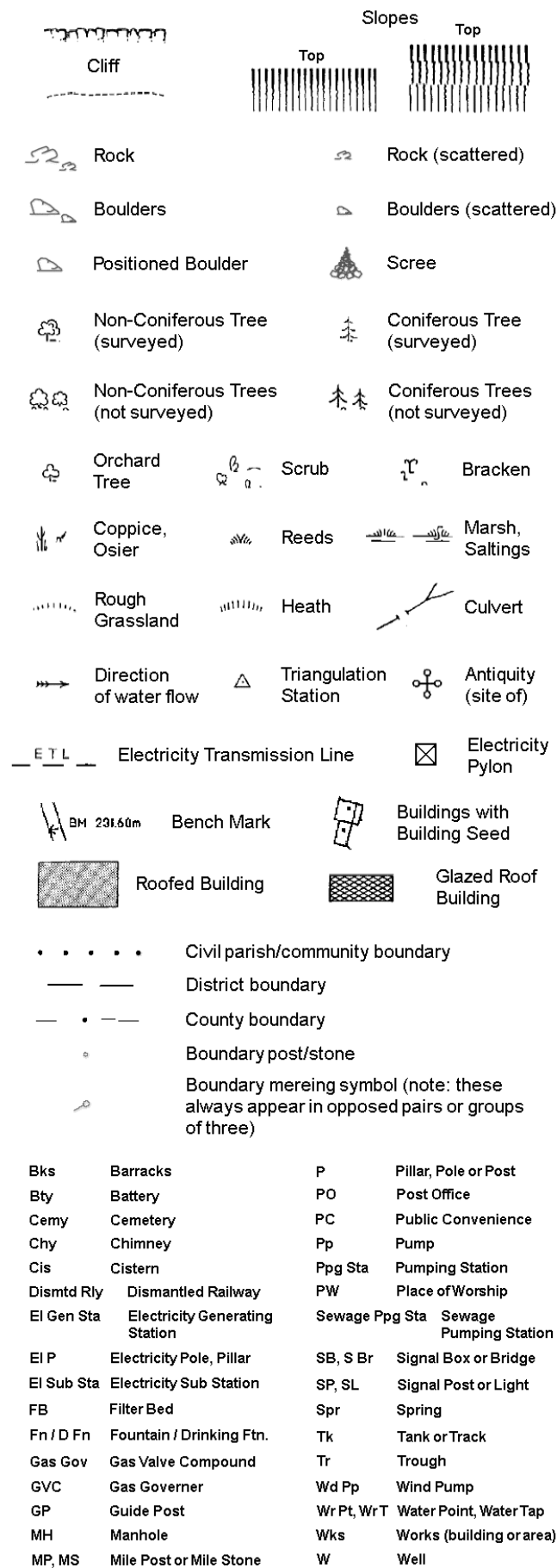
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

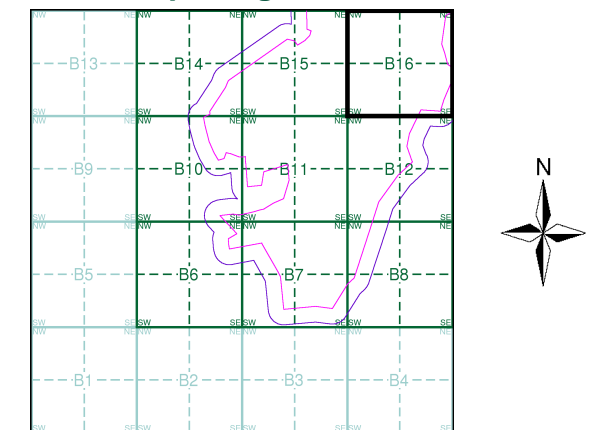


SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment B16



Order Details

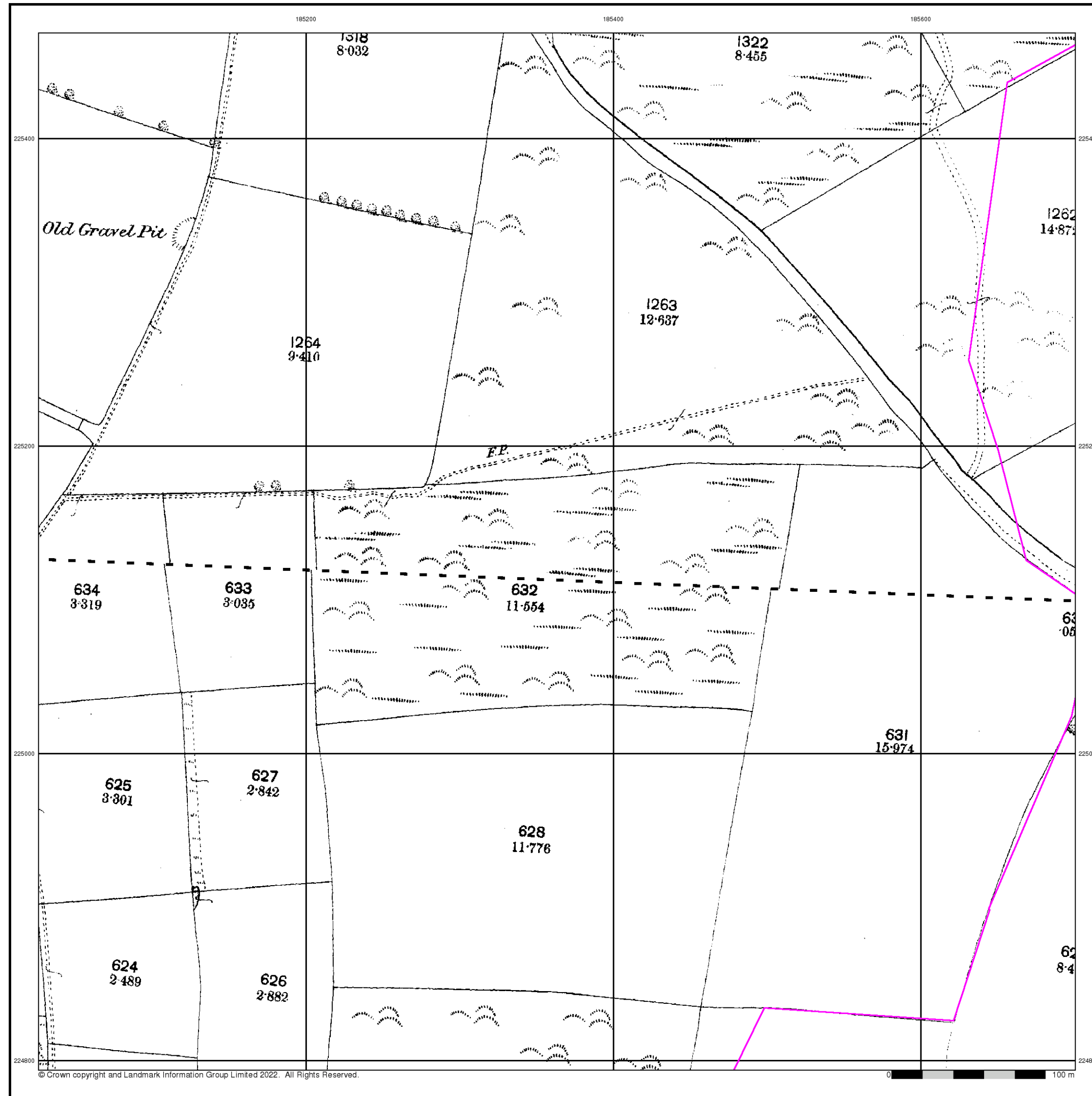
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site

Landmark
INFORMATION GROUP

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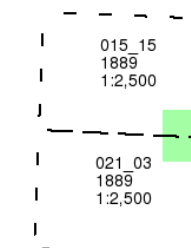
Pembrokeshire

Published 1889

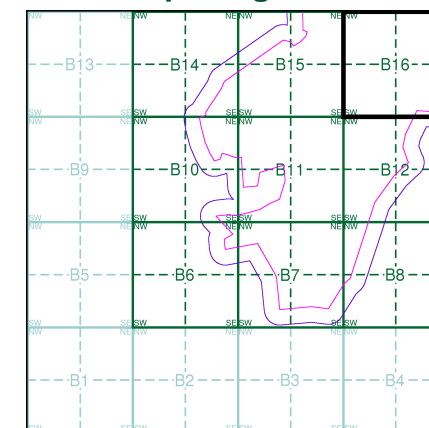
Source map scale - 1:2,500

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 B16



Order Details

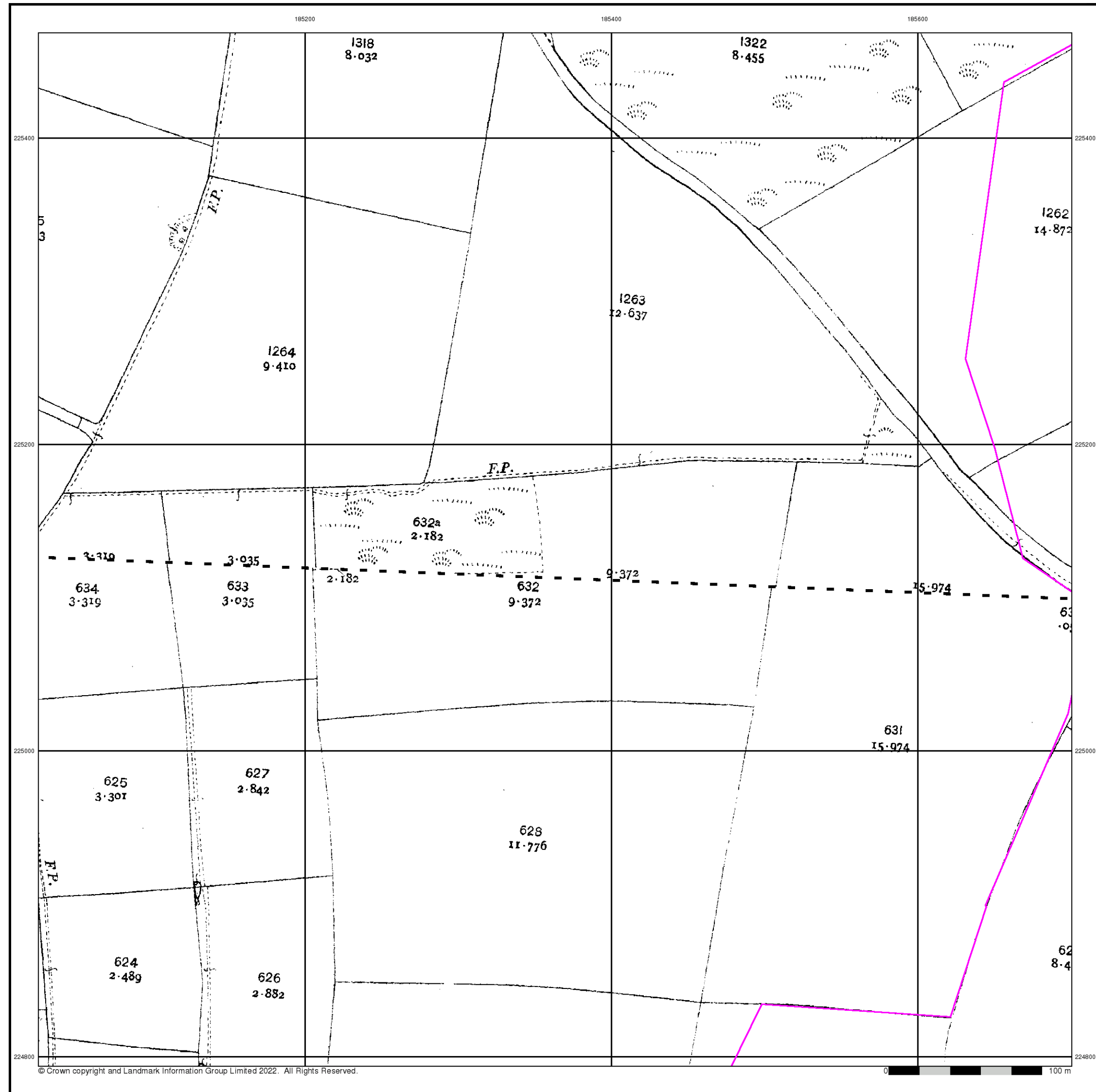
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

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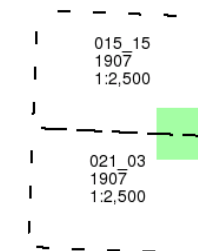
Pembrokeshire

Published 1907

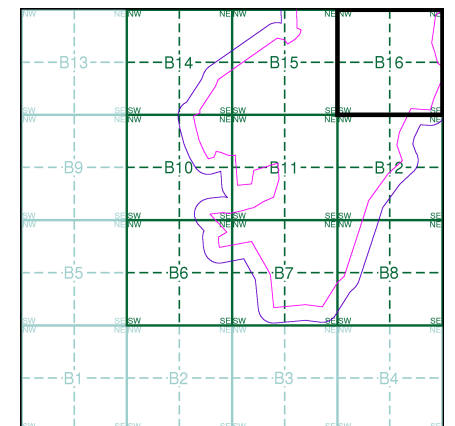
Source map scale - 1:2,500

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 B16



Order Details

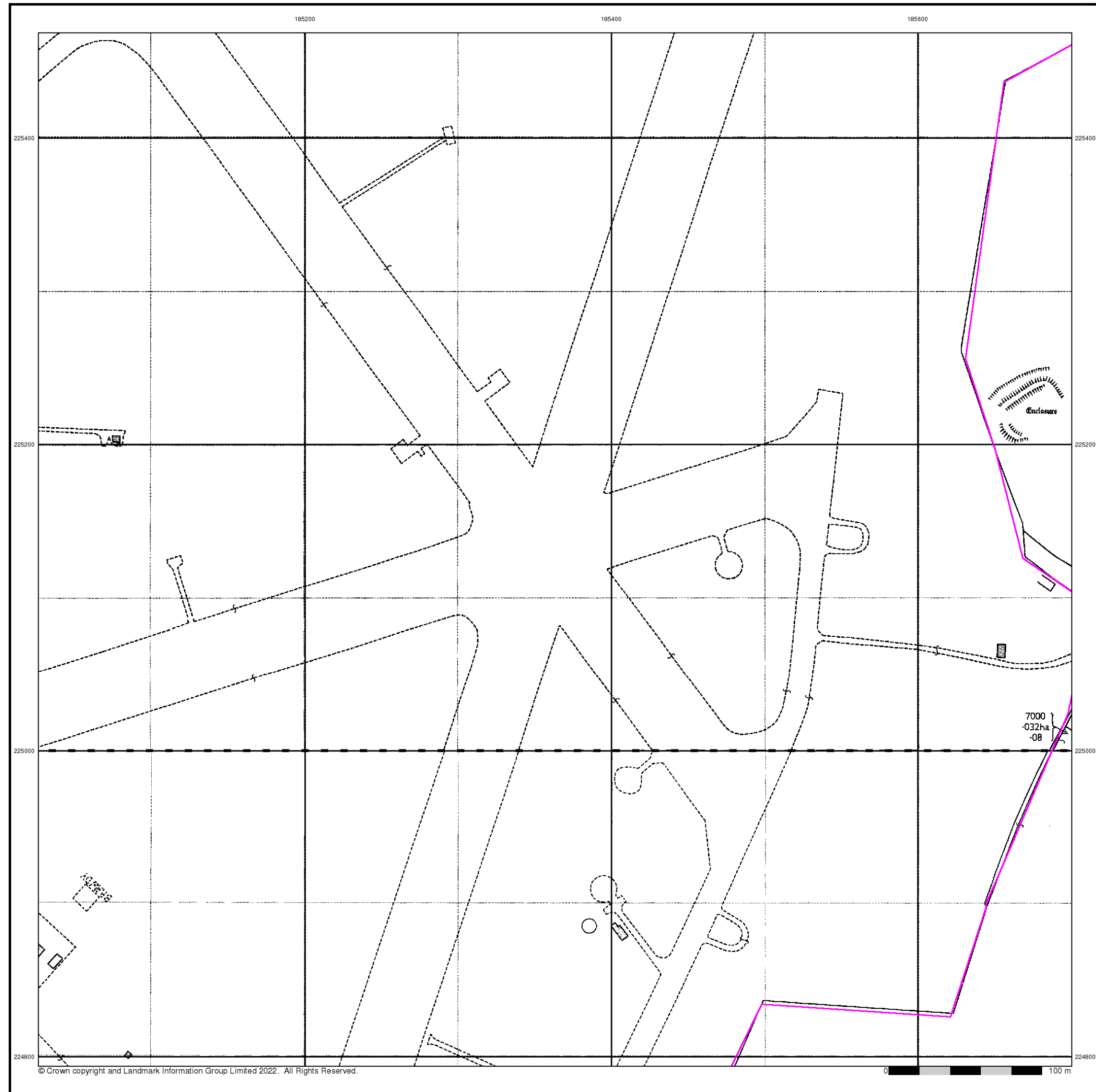
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site

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INFORMATION GROUP

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Web: www.envirocheck.co.uk



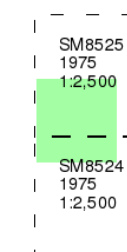
Ordinance Survey Plan

Published 1975

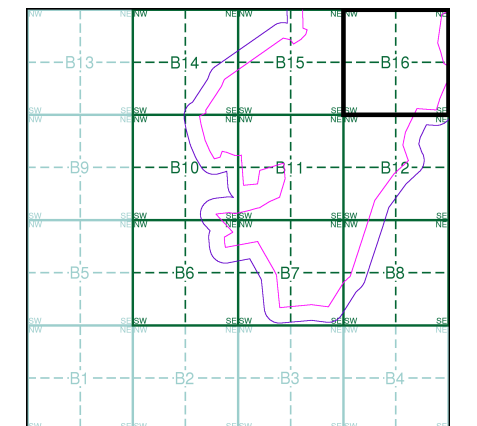
Source map scale - 1:2,500

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 B16



Order Details

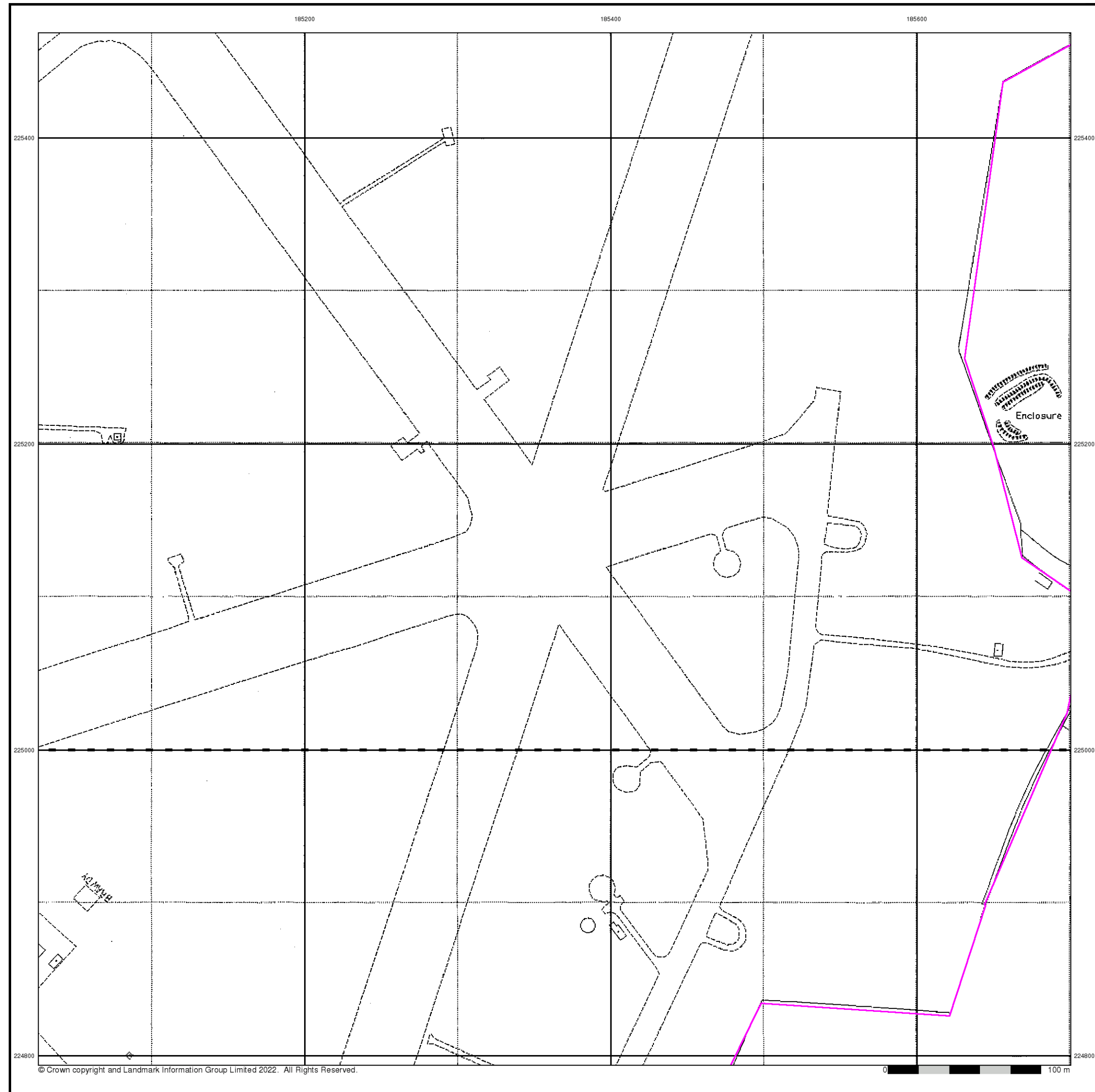
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site



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Large-Scale National Grid Data

Published 1994

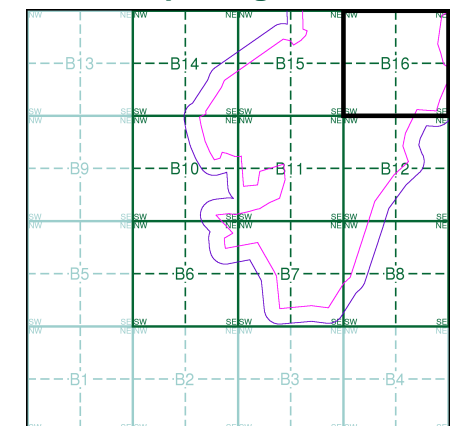
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8525	1994	1:2,500
SM8524	1994	1:2,500

Historical Map - Segment B16



Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site

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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

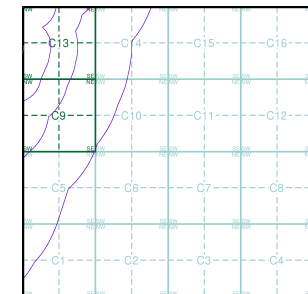
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice C



Order Details

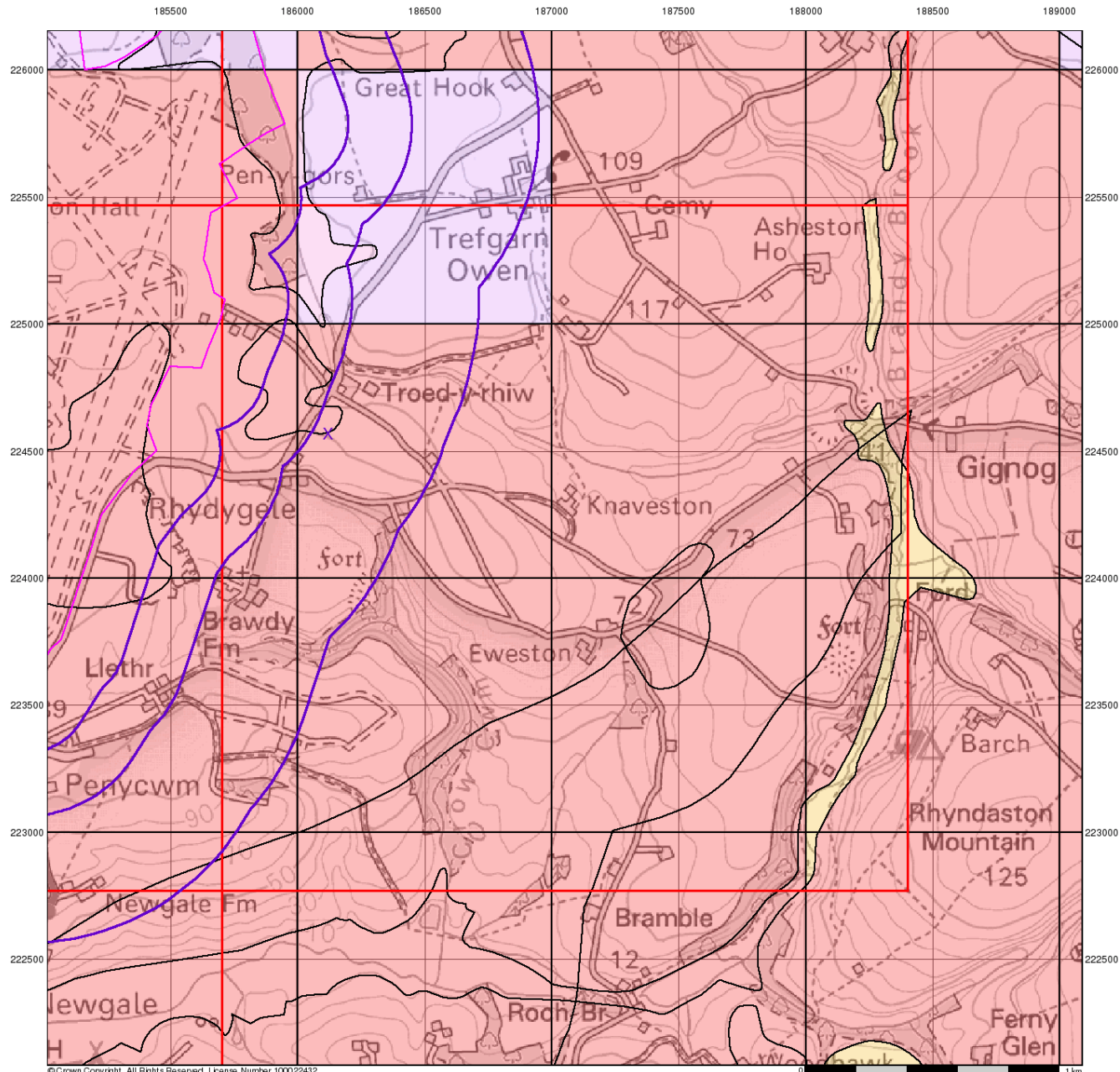
Order Number: 305022956_1_1
 Customer Ref: 65208061
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 Slice: C
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

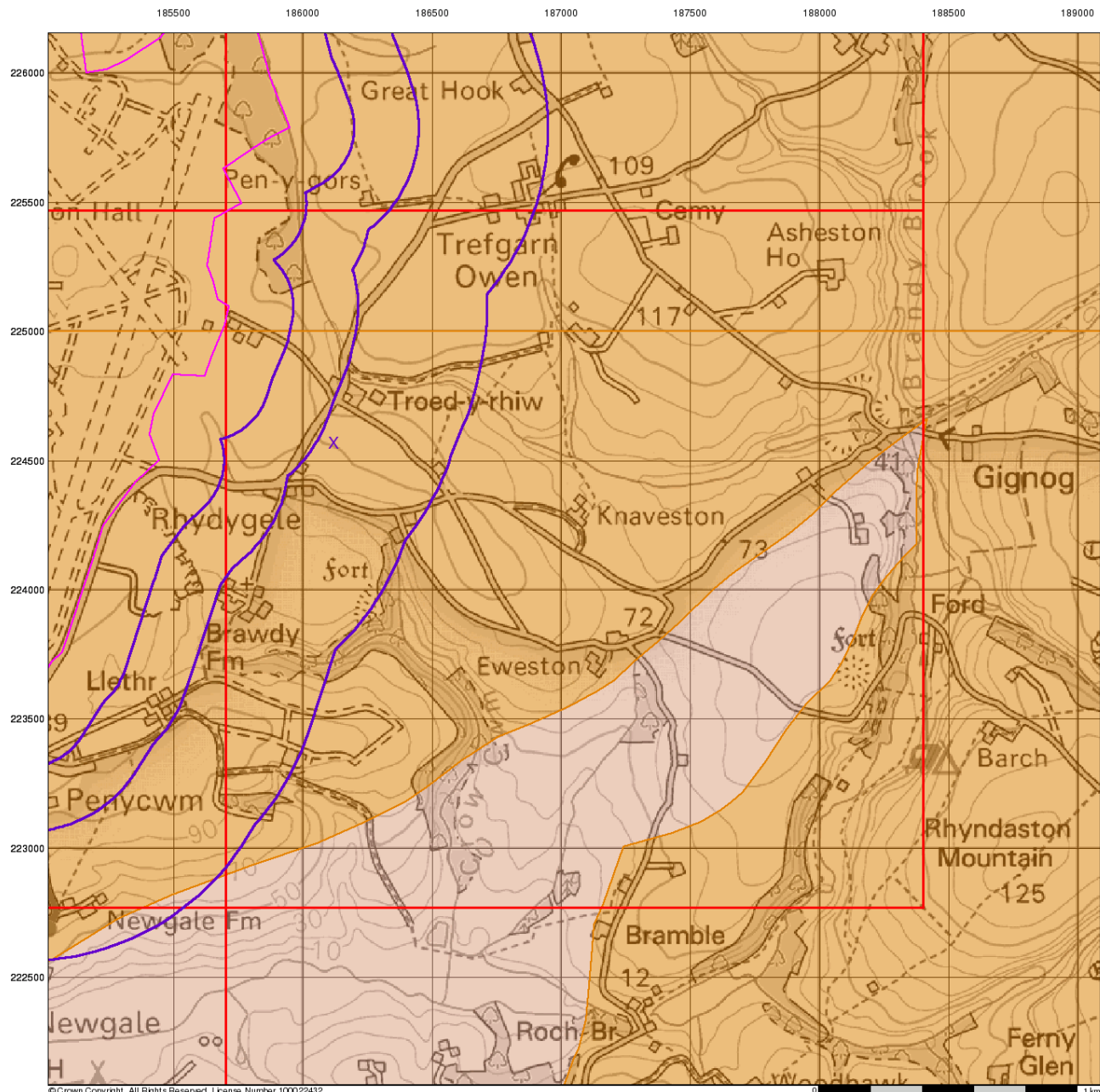
Site Details

Cawdor site

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0 1 km

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Bedrock Aquifer Designation

General

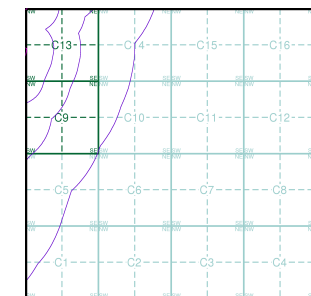
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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 C



Order Details

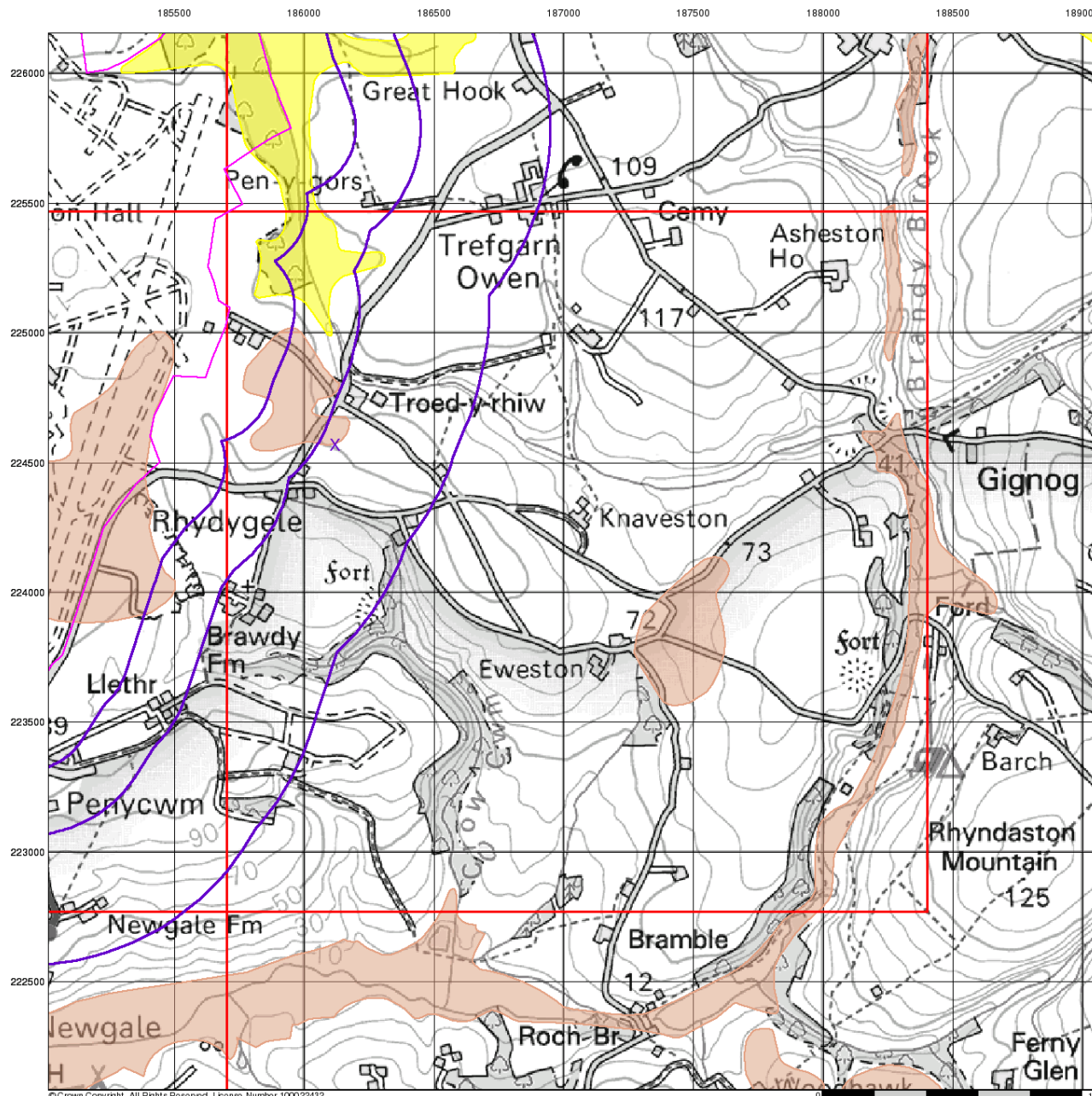
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 186120, 224570
 Slice: C
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

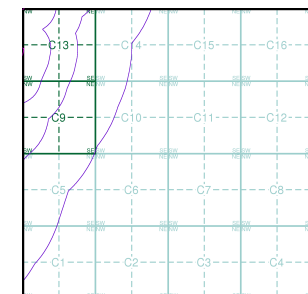
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice C



Order Details

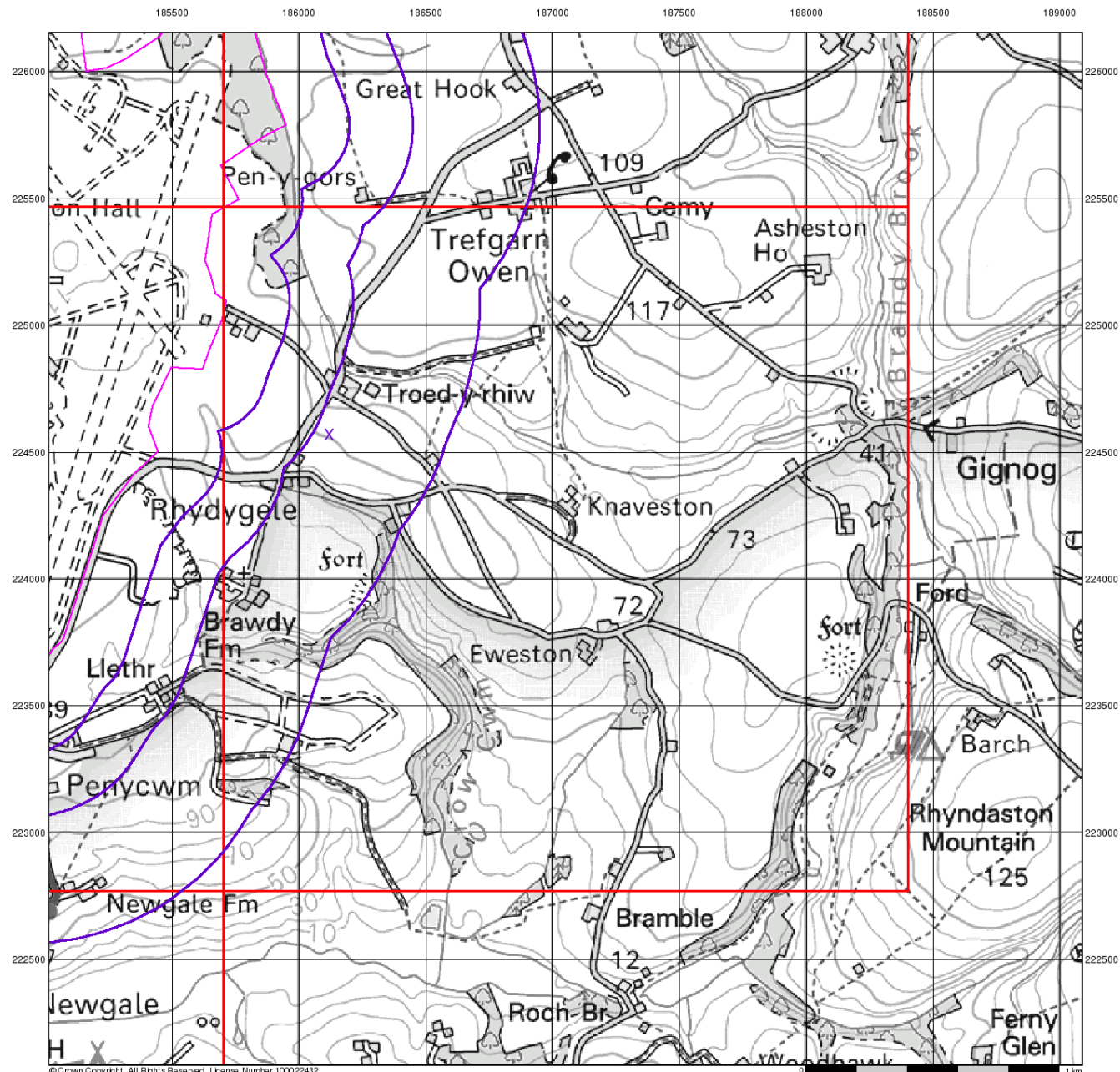
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 186120, 224570
 Slice: C
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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Source Protection Zones

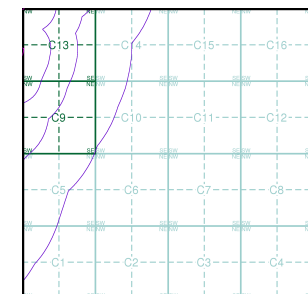
General

- ▬ Specified Site
- ▬ Specified Buffer(s)
- X Bearing Reference Point
- ▬ Slice
- B 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 C



Order Details

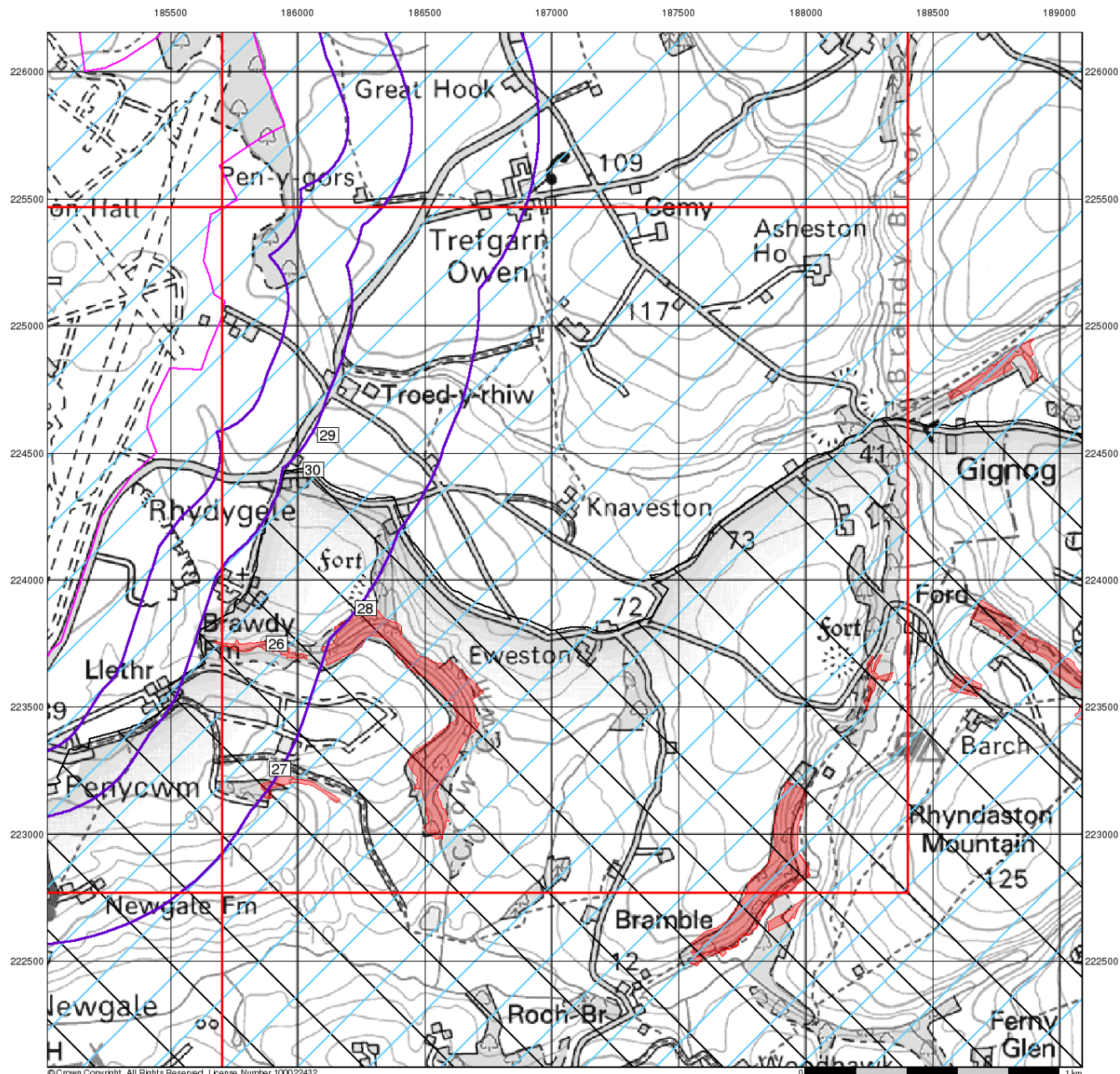
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 186120, 224570
 Slice: C
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

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Sensitive Land Uses

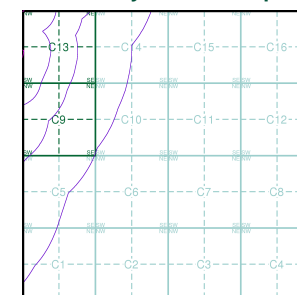
General

- 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 C



Order Details

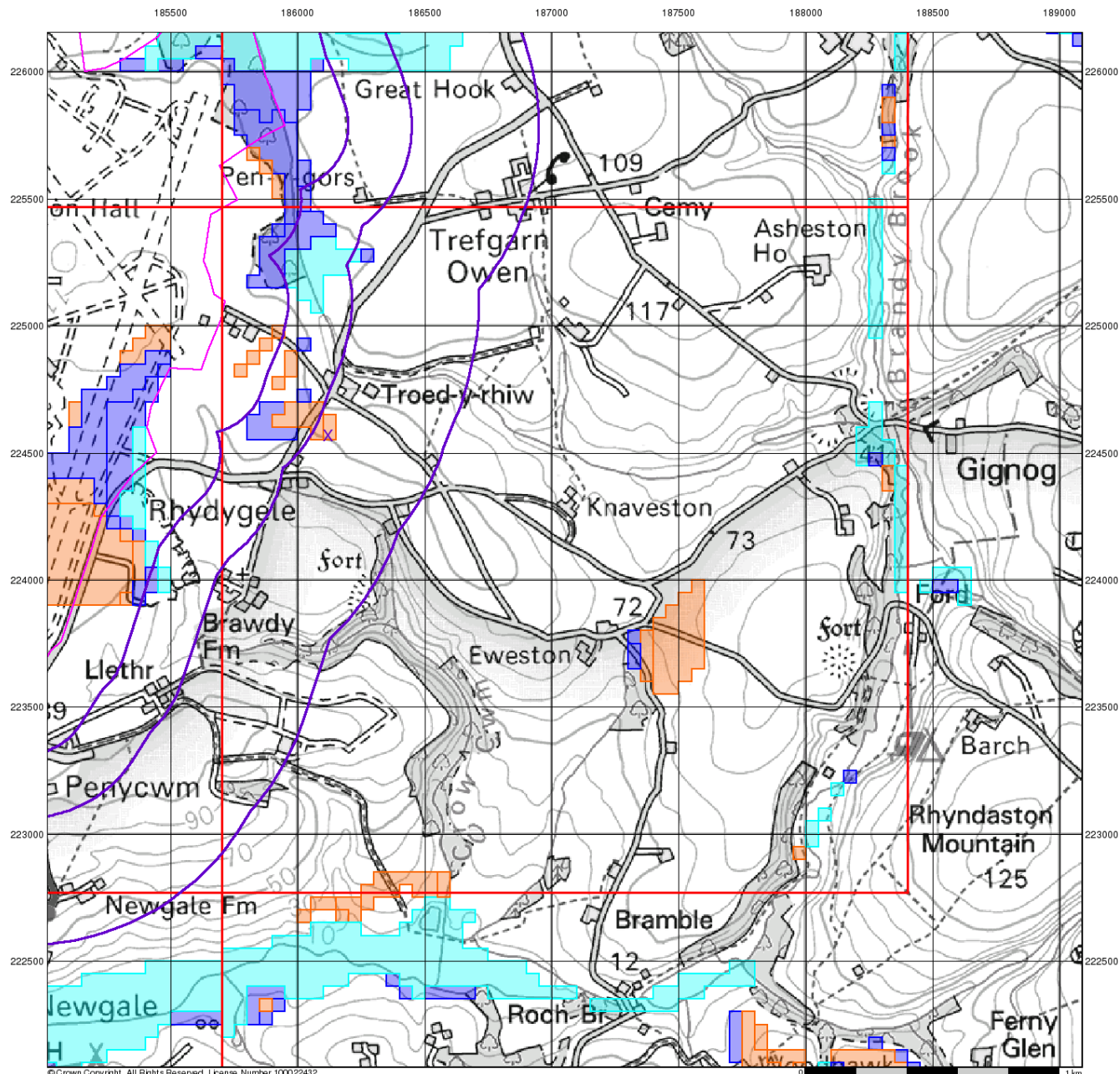
Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 186120, 224570
 Slice: C
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

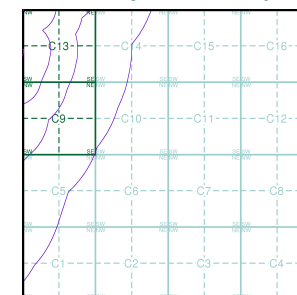
General

- 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 C



Order Details

Order Number: 305022956_1_1
 Customer Ref: 65208061
 National Grid Reference: 186120, 224570
 Slice: C
 Site Area (Ha): 308.46
 Search Buffer (m): 1000

Site Details

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

305022956_1_1

Customer Reference:

65208061

National Grid Reference:

186120, 224570

Slice:

C

Site Area (Ha):

308.46

Search Buffer (m):

1000

Site Details:

Cawdor site

Client Details:

Ms C Bithell
Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	11
Hazardous Substances	-
Geological	12
Industrial Land Use	15
Sensitive Land Use	16
Data Currency	17
Data Suppliers	21
Useful Contacts	22

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3			1	1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		1		
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3				(*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 8		8	5	5

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 11	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
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					
Geological					
BGS 1:625,000 Solid Geology	pg 12	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 12				3
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 12				1
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 12	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 13	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 14	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 14	Yes	n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 15				1
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 16				3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 16	1			
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 16		1		
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
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 of Property Situated Below Ground Level	(N)	0	1	185700 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	185500 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	185350 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	185250 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	185450 224700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	0	1	186000 225800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13NW (N)	0	1	186000 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	185200 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	0	1	185500 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	185400 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	0	1	185550 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(N)	0	1	186050 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	185150 224600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	0	1	185400 224571
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	185500 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	3	1	185850 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	16	1	185300 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	57	1	185350 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	72	1	185900 225600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	83	1	185350 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13NW (N)	103	1	185950 225150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	115	1	185800 224800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	126	1	185400 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	138	1	185950 225500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	143	1	185850 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	146	1	185400 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	148	1	186050 225550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	160	1	185350 223950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13NW (N)	167	1	185950 225350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	169	1	185900 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	170	1	186100 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	192	1	185400 224000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	194	1	185450 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	203	1	185950 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	224	1	185450 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	C13SE (N)	244	1	186100 225050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C9NW (W)	251	1	186000 224571
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	272	1	185500 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C9NW (NW)	274	1	185950 224750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	281	1	186000 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13SE (N)	311	1	186050 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C9NE (W)	330	1	186100 224571
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C9NE (NW)	384	1	186050 224700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Osborne-Dowle P F W Property Type: Undefined Or Other Location: Dwelling Plot 752 Rhyd Y Gele Penyc, Penycwm H/West Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0097501 Permit Version: 1 Effective Date: 19th November 1973 Issued Date: 19th November 1973 Revocation Date: 7th July 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: To Land Near Crwo Cwm Brook, R Status: Consent expired Positional Accuracy: Located by supplier to within 100m	C9SW (SW)	468	2	185900 224400
2	Discharge Consents Operator: Davies Bros Property Type: Undefined Or Other Location: Troedyrhiw Penycwm Haverfordwest. Authority: Natural Resources Wales Catchment Area: Brandy Brook Reference: Bj0090101 Permit Version: 1 Effective Date: 13th August 1970 Issued Date: 13th August 1970 Revocation Date: 26th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Pipe Nr. Brandy Brook Status: Consent expired Positional Accuracy: Located by supplier to within 100m	C13SE (N)	550	2	186200 224800
	Nearest Surface Water Feature	C13NW (NW)	106	-	185808 225142
3	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Druidstone Beach, NEWGALE Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Not Supplied Incident Date: 20th December 1994 Incident Reference: 21922 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	C13SW (NW)	204	3	185901 225001
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1843	2	186590 222720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 12000 Details: Crow Cwm Stream At Lower Llethr, Penycwm Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1843	3	186590 222720
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied 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 10m	(S)	1843	2	186590 222720
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: Mineral Products: General use relating to Secondary Category (High Loss) Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied 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 10m	(S)	1843	2	186590 222720
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 04 January Authorised End: 10 July Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(S)	1845	2	186590 222715

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: Mineral Products: General Use(High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(S)	1850	2	186595 222715
	Water Abstractions Operator: Mr G D Lovegrove Licence Number: 22/61/2/0036 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 100 Yearly Rate (m3): 7201 Details: Brandy Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1869	3	186400 222410
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	185705 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NW)	0	2	185309 226000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	C13SW (N)	0	2	186000 225000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	C5NW (S)	0	2	186000 224000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	(NW)	0	2	185421 225000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	C9NW (W)	0	2	186000 224571

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	(W)	0	2	185469 224802
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	(SW)	0	2	185499 224000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - Medium Vulnerability Classification: Medium Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	(N)	0	2	186000 226000
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	C13SW (N)	0	2	186000 225118

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NW)	0	2	185458 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	C13SE (N)	0	2	186119 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	C9NE (S)	0	2	186119 224571
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C13SE (N)	0	2	186107 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(NW)	0	2	185458 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(W)	0	2	185469 224802
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
4	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (NW)	106	4	185808 225142
5	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	C13NW (NW)	170	4	185853 225192
6	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (NW)	170	4	185853 225192

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	192	4	185873 225216
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	202	4	185873 225216
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 242.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	239	4	186032 225274
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	247	4	185945 225245
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	249	4	185922 225228
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	277	4	185945 225245
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SW (SW)	293	4	185885 224387
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 626.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13SE (NE)	349	4	186236 224816
15	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: St Davids Head and St Brides North Primacy: 1	C9SW (SW)	456	4	185902 224384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 853.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SE (S)	474	4	186060 224344
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 950.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	C5NE (S)	503	4	186281 223823
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 857.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C5NE (S)	503	4	186264 223824
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13SE (NE)	680	4	186338 224795
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 912.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13SE (NE)	683	4	186341 224795
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 517.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SE (S)	809	4	186227 224291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	186119 224571

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Cambrian Rocks (Undifferentiated)	C9SE (S)	0	1	186175 224155
	BGS 1:625,000 Solid Geology Description: Upper Cambrian, Including Tremadoc	C13SW (NW)	0	1	185892 224855
22	BGS Recorded Mineral Sites Site Name: Troed-Y-Rhiw Location: Hayscastle, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89859 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Caerbwdy Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C13SE (N)	510	1	186199 224930
23	BGS Recorded Mineral Sites Site Name: Pen-Y-Gors Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89682 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C13NE (N)	527	1	186294 225393
24	BGS Recorded Mineral Sites Site Name: Brawdwy Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89866 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: St Non'S Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C5NW (SW)	680	1	185794 223789
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Man-Made Mining Cavities Easting: 186400 Northing: 224300 Distance: 940 Quadrant Reference: C10 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Not supplied Commodity: Lead Solid Geology Detail: No Details Superficial Geology Detail: No Details	C10SW (SE)	940	7	186400 224300
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NE (N)	0	1	186119 224572
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	79	1	186119 224571
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186107 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186084 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	49	1	186119 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NE (N)	139	1	186119 224572
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SW (N)	209	1	185991 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186084 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186107 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	49	1	186119 225000
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C9NW (NW)	0	1	186025 224750
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C13SW (NW)	0	1	185825 224800
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186050 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	C9NW (NW)	0	1	186025 224750
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C13SW (NW)	0	1	185825 224800
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186050 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Contemporary Trade Directory Entries Name: Techtronics Location: Silver Hill, Pen y Cwm, Haverfordwest, Dyfed, SA62 6JZ Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	C10SW (SE)	988	-	186407 224228

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Ancient Woodland Name: Not Supplied Reference: 4712 Area(m²): 8596.98 Type: Ancient and Semi-Natural Woodland	C5SW (S)	570	2	185919 223748
27	Ancient Woodland Name: Not Supplied Reference: 4710 Area(m²): 8906.03 Type: Ancient and Semi-Natural Woodland	C1NW (S)	967	2	185930 223257
28	Ancient Woodland Name: Not Supplied Reference: 4713 Area(m²): 119967.99 Type: Ancient and Semi-Natural Woodland	C5NE (S)	979	2	186270 223887
29	Environmentally Sensitive Areas Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	C9NE (S)	0	8	186119 224571
30	National Parks Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales Status: Fully Designated - designated as a National Park Designation Date: 31st December 1951	C9SE (SW)	140	2	186060 224434




Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Natural Resources Wales Pembrokeshire County Council - Public Protection Division	June 2020 September 2017	Annually Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 October 2022	Quarterly 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 Environment Agency - Welsh Region Natural Resources Wales	January 2021 October 2022	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	As notified
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	January 2021 October 2022	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	October 2022 October 2022	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2022	Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
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	October 2022	Quarterly
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South West Area	October 2021 October 2022	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	July 2021 July 2022	Quarterly Quarterly
Local Authority Landfill Coverage Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council - Planning Department	February 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council - Planning Department	February 2016 October 2015	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council	July 2022 July 2022	Quarterly Quarterly
Areas of Unadopted Green Belt Pembrokeshire Coast National Park Authority - Development Control Pembrokeshire County Council	July 2022 July 2022	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2022	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 July 2019	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Pembrokeshire County Council - Environmental Health Department Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	The National Assembly for Wales - GI Services (Department of Planning & Countryside) Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

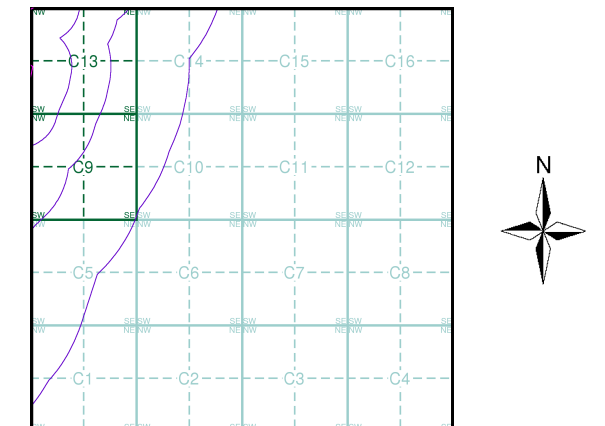
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1980	6
10K Raster Mapping	1:10,000	2000	7
Street View	Variable		8

Historical Map - Slice C



Order Details

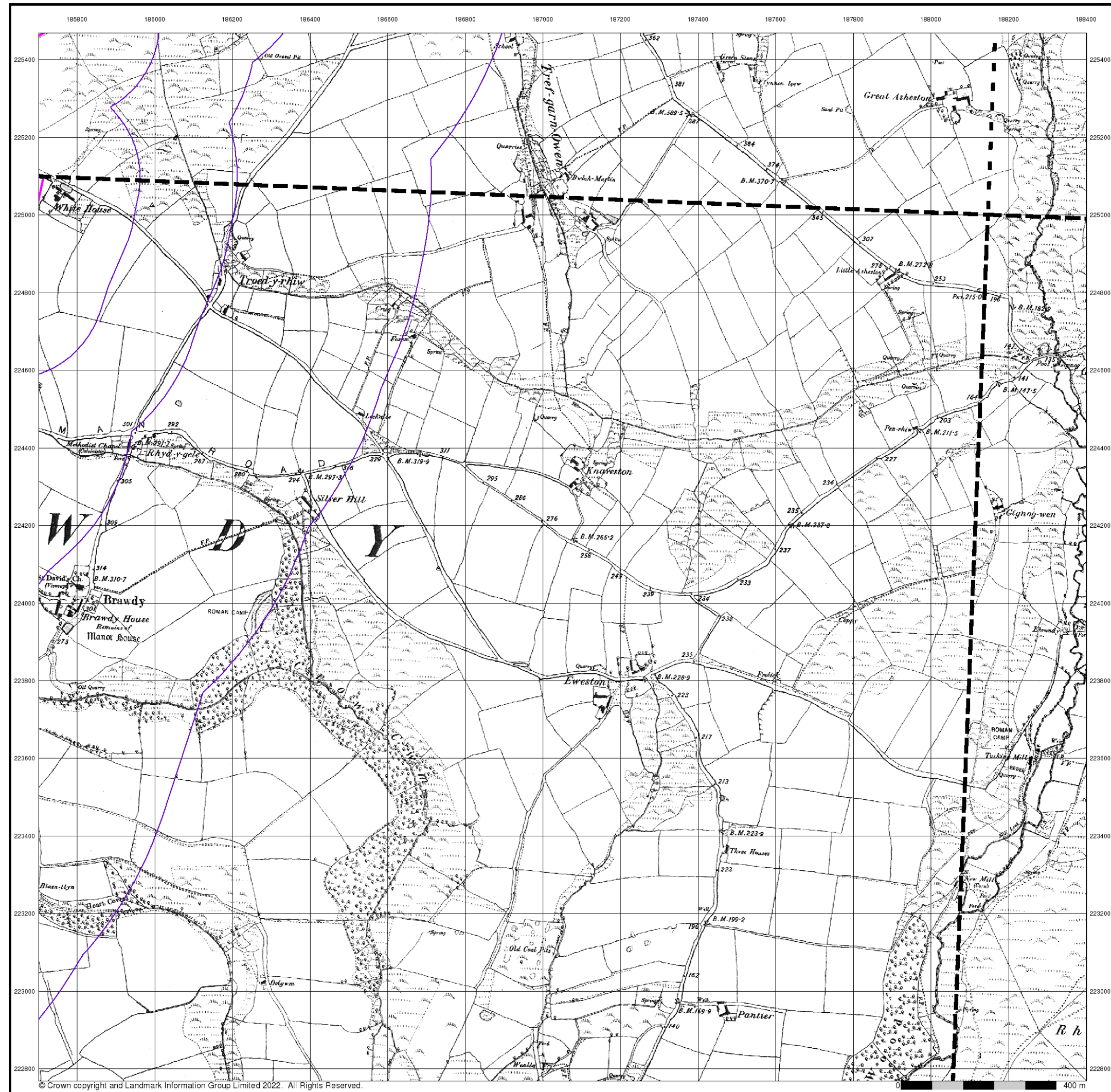
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Customer Ref: 65208061
National Grid Reference: 186120, 224570
Slice: C
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

Landmark
INFORMATION GROUP

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Pembrokeshire

Published 1888

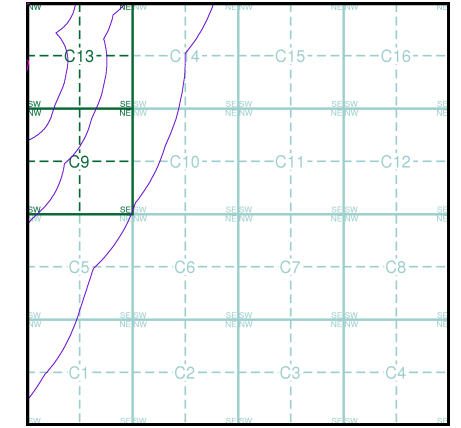
Source map scale - 1:10,560

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)

015SE 1888 1:10,560	016SW 1888 1:10,560
021NE 1888 1:10,560	022NW 1888 1:10,560

Historical Map - Slice C



Order Details

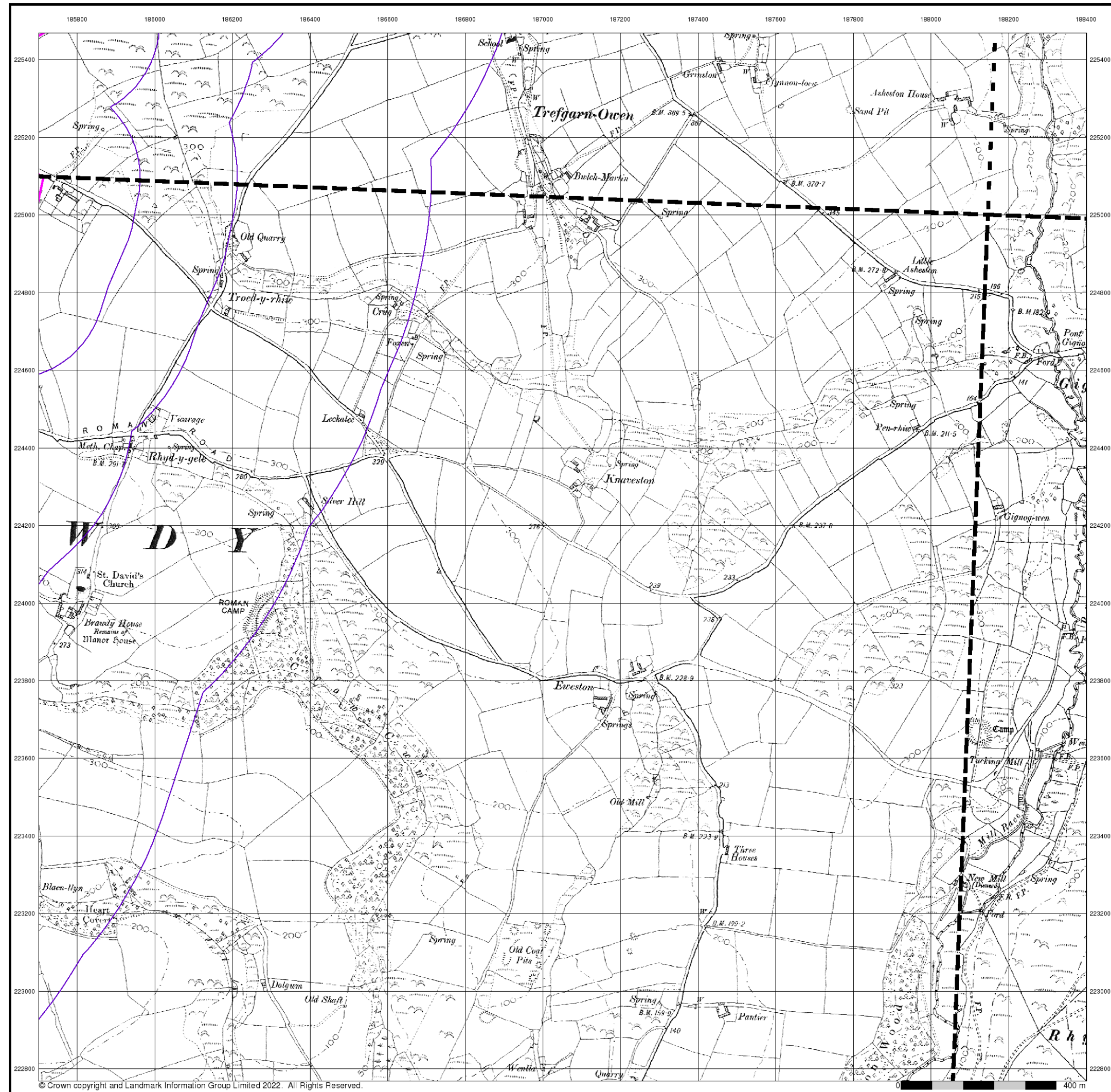
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Pembrokeshire

Published 1908

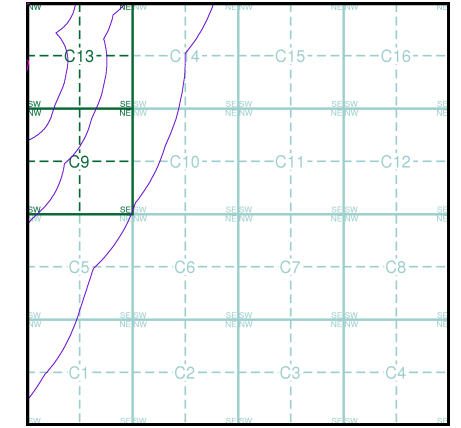
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

015SE 1908 1:10,560	016SW 1908 1:10,560
021NE 1908 1:10,560	022NW 1908 1:10,560

Historical Map - Slice C



Order Details

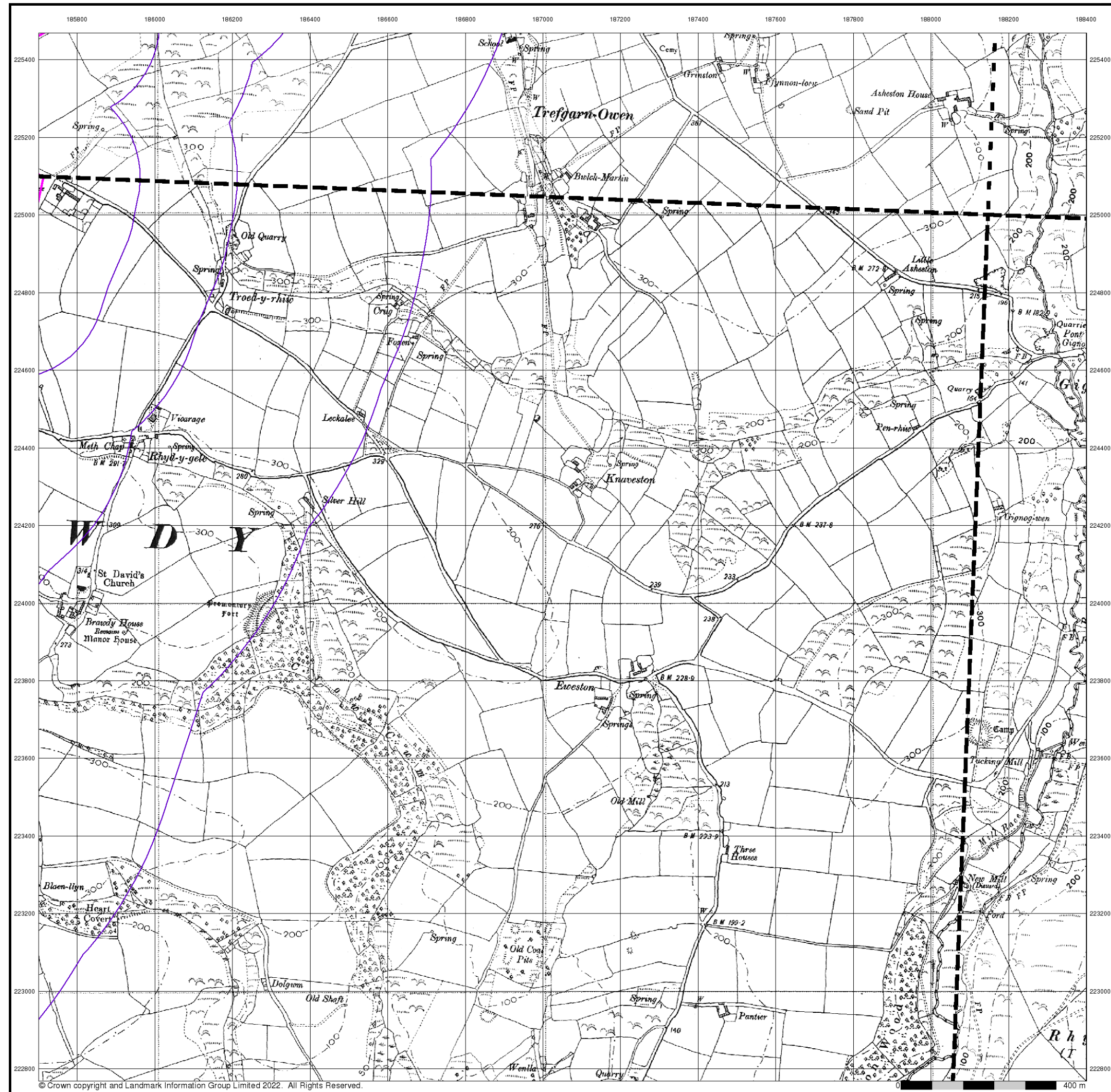
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Search Buffer (m): 1000

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Pembrokeshire

Published 1953

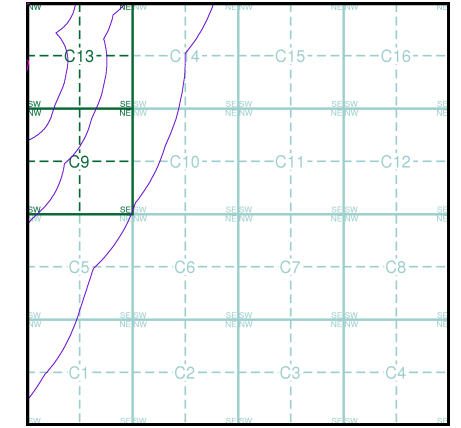
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

015SE 1953 1:10,560	016SW 1953 1:10,560
021NE 1953 1:10,560	022NW 1953 1:10,560

Historical Map - Slice C



Order Details

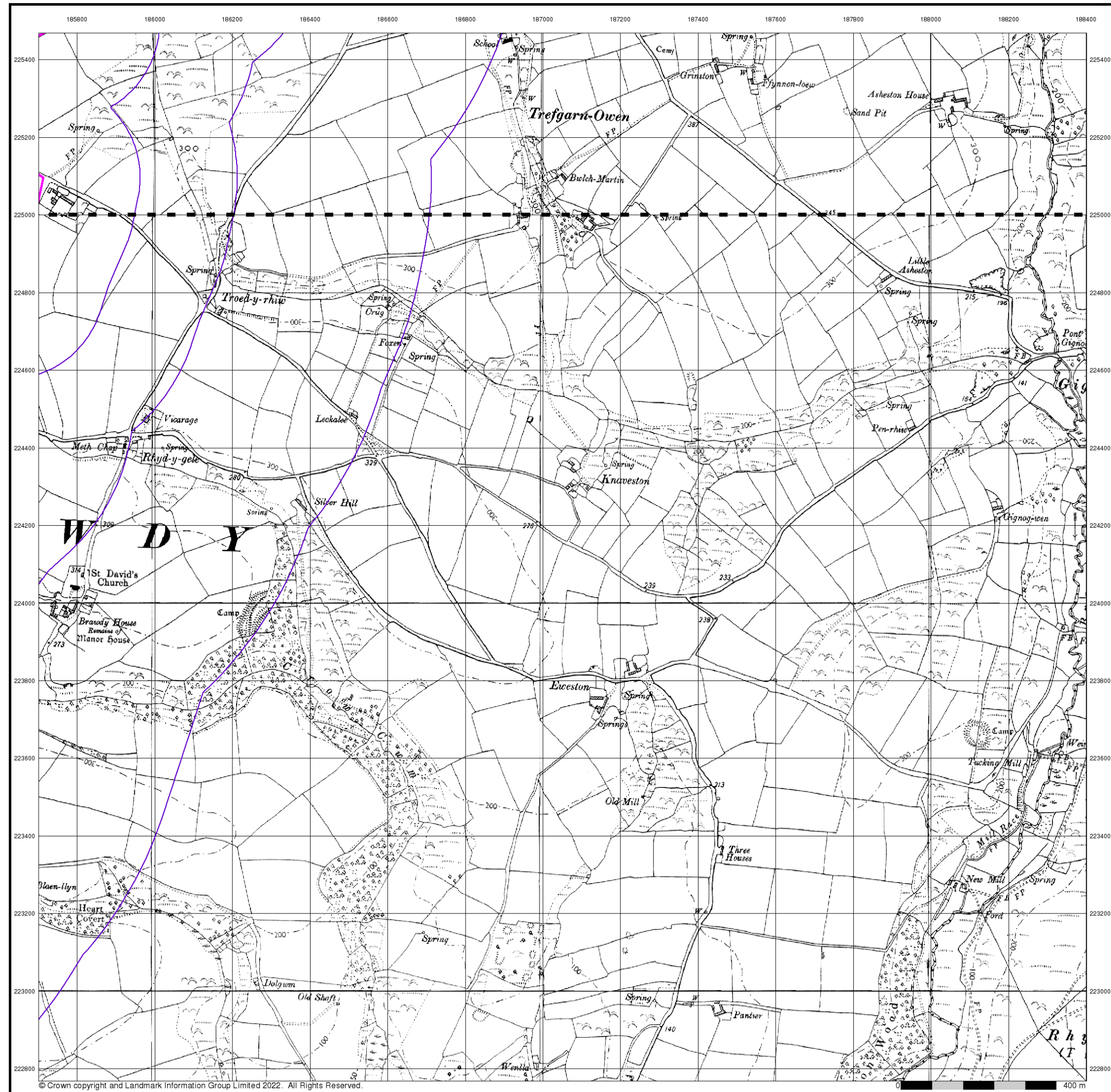
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Site Area (Ha): 308.46
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1964

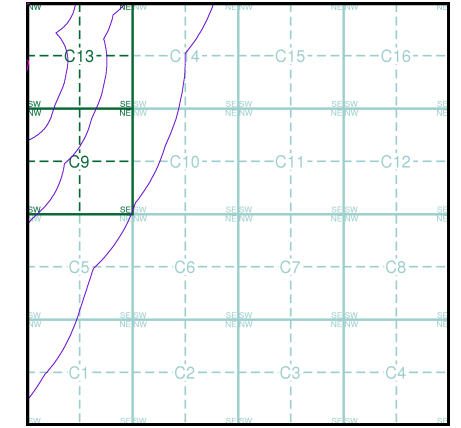
Source map scale - 1:10,000

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)

SM82NE	1964
1:10,560	
SM82SE	1964
1:10,560	

Historical Map - Slice C



Order Details

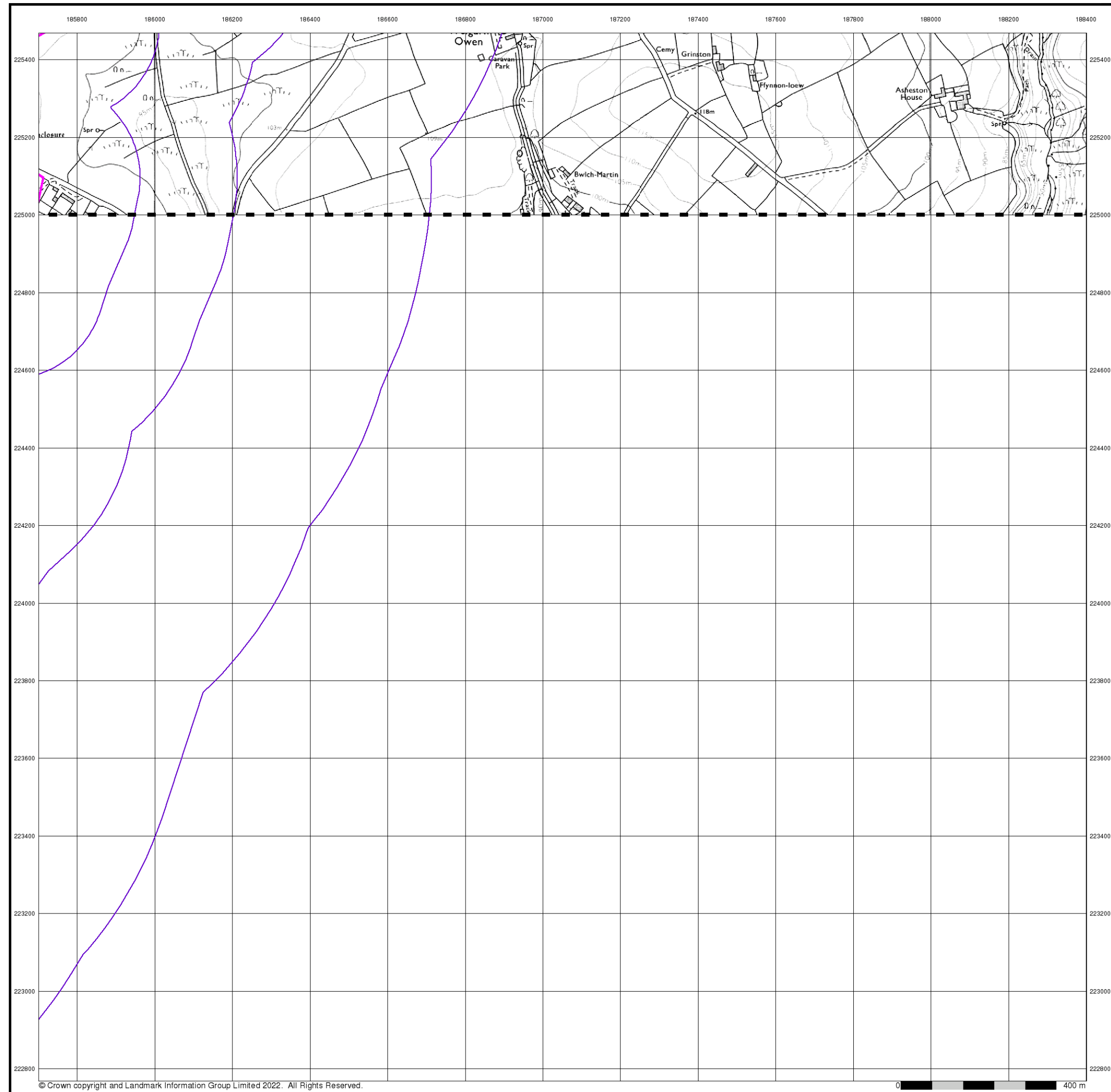
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National Grid Reference: 186120, 224570
Slice: C
Site Area (Ha): 308.46
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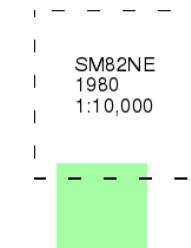
Ordinance Survey Plan

Published 1980

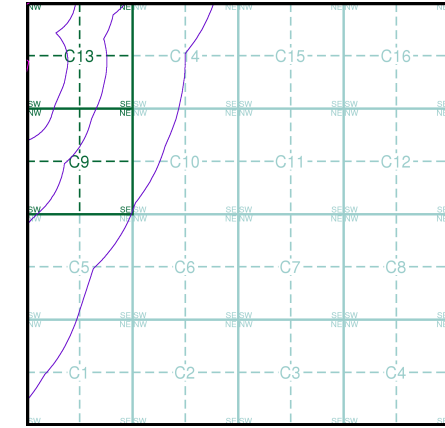
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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



Order Details

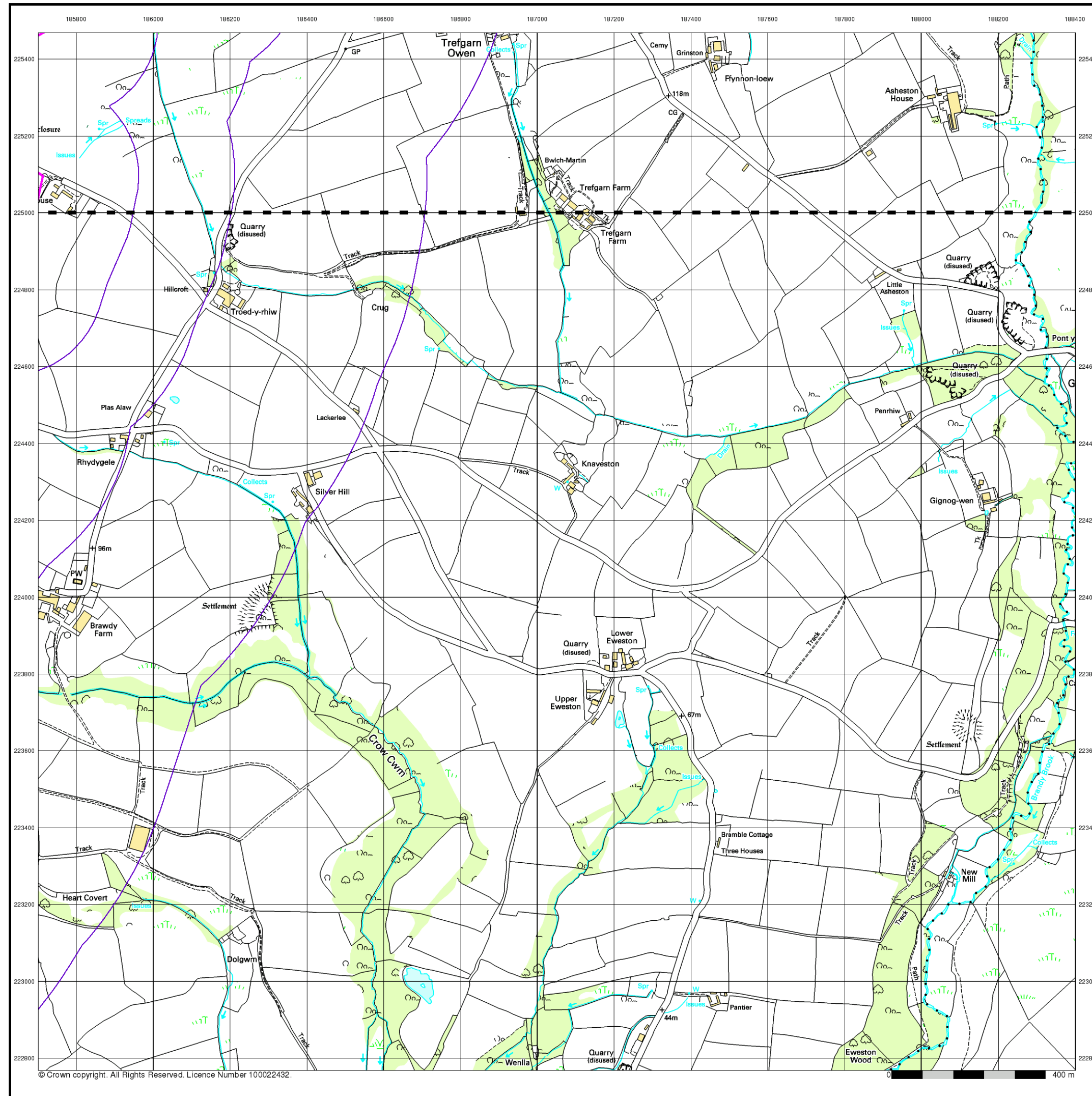
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Slice: C
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site



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10k Raster Mapping

Published 2000

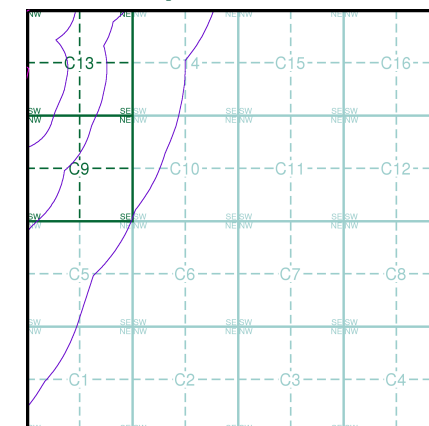
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SM82NE	2000	1:10,000
SM82SE	2000	1:10,000

Historical Map - Slice C



Order Details

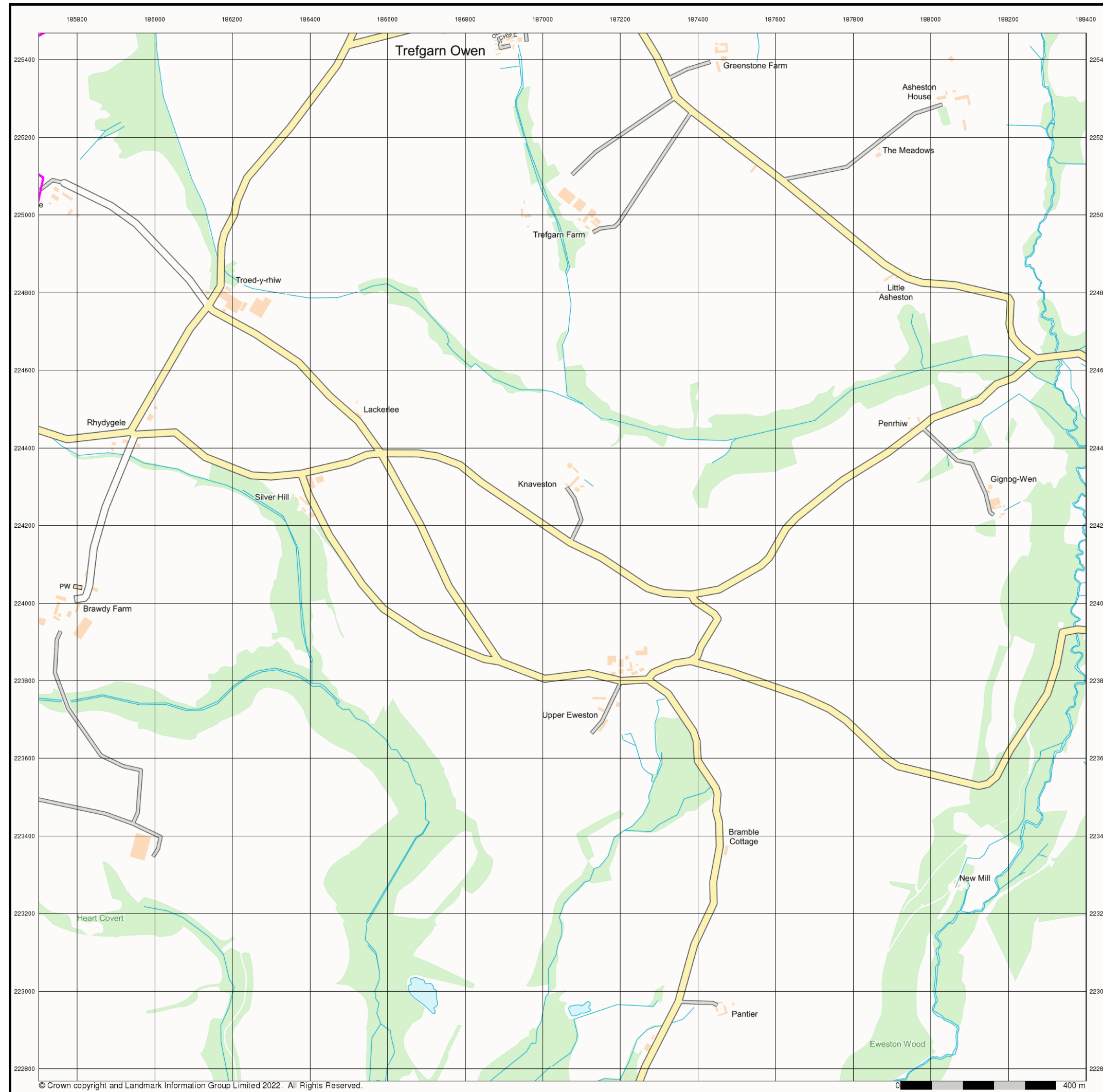
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 186120, 224570
Slice: C
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site




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



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SWECO



Street View


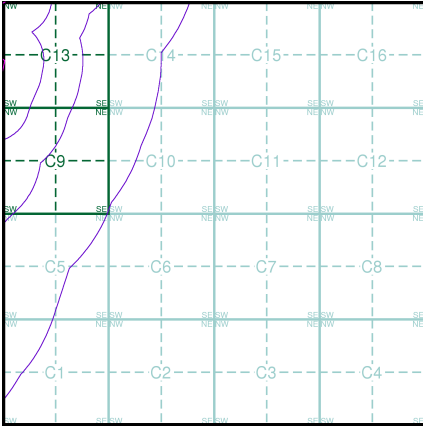
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice C



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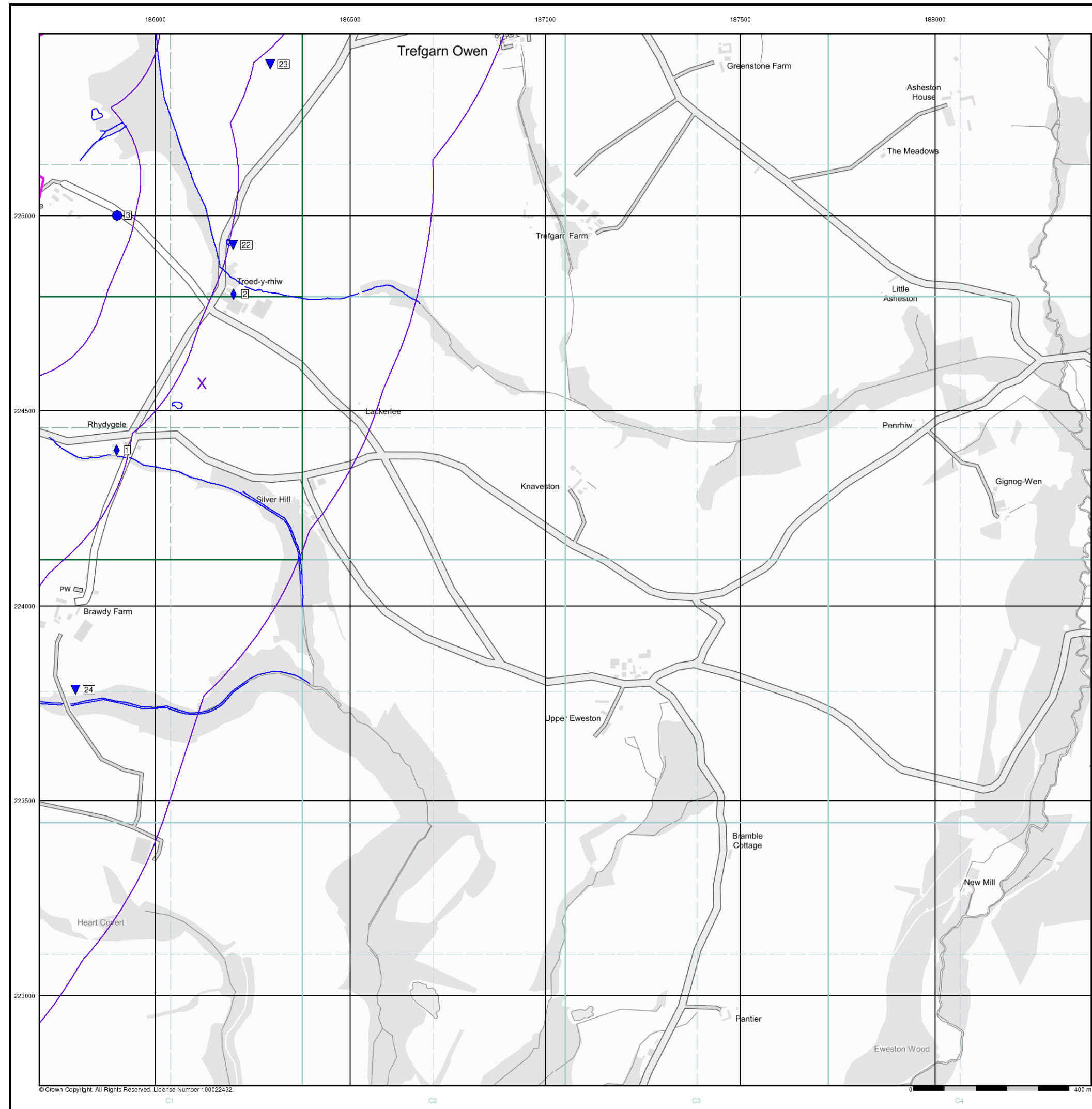
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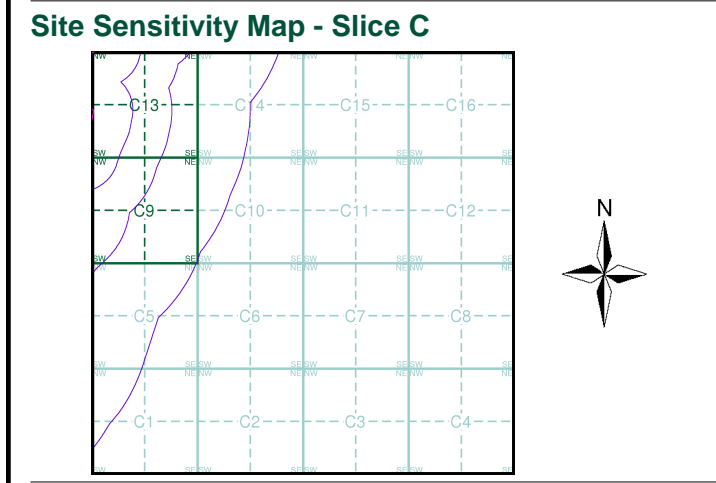
A Landmark Information Group Service v50.0 14-Dec-2022 Page 8 of 8



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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
- Geological**
 - BGS Recorded Mineral Site
- Industrial Land Use**
 - Contemporary Trade Directory Entry
 - Fuel Station Entry
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement



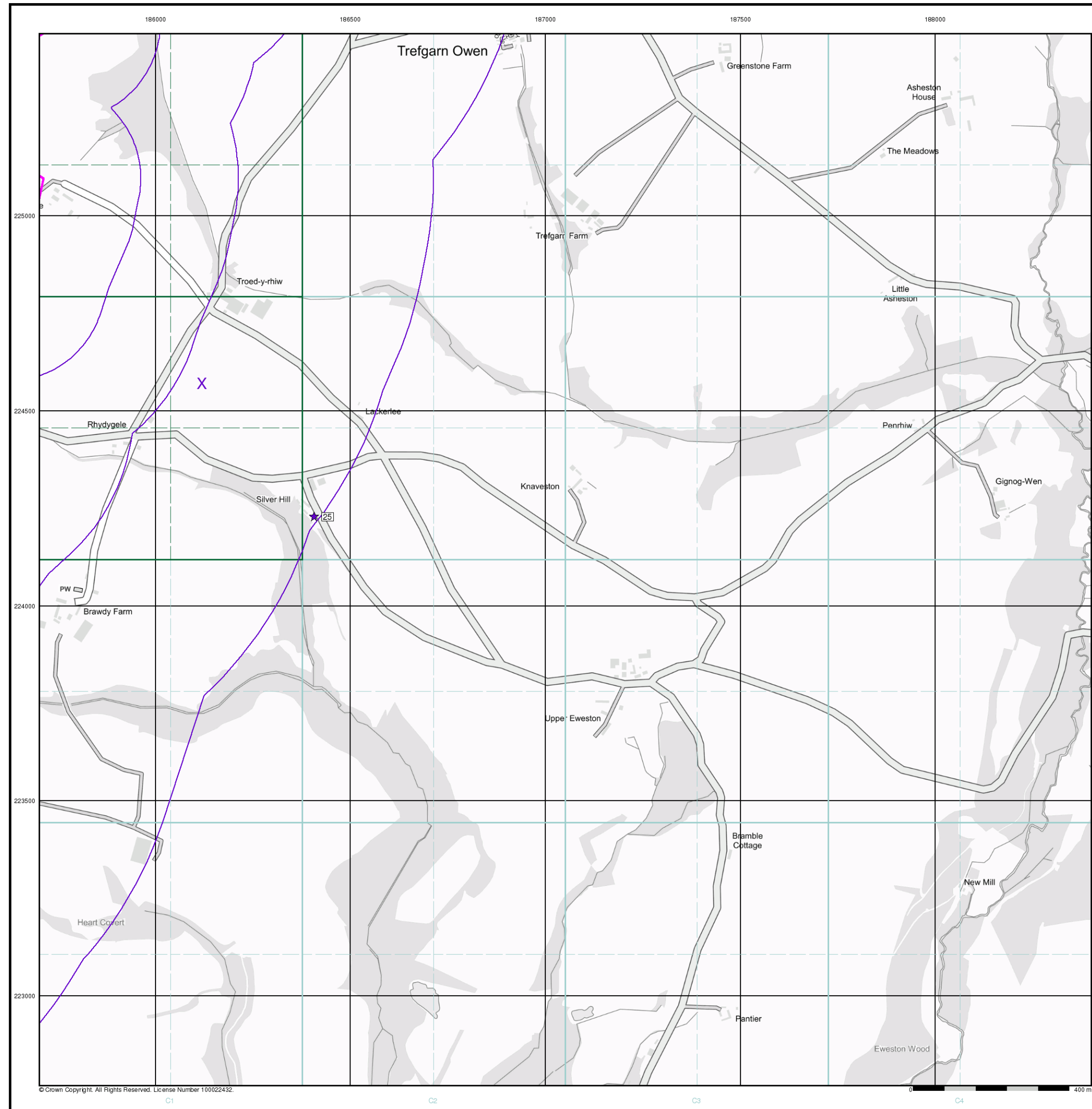
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Site Details
Cawdor site

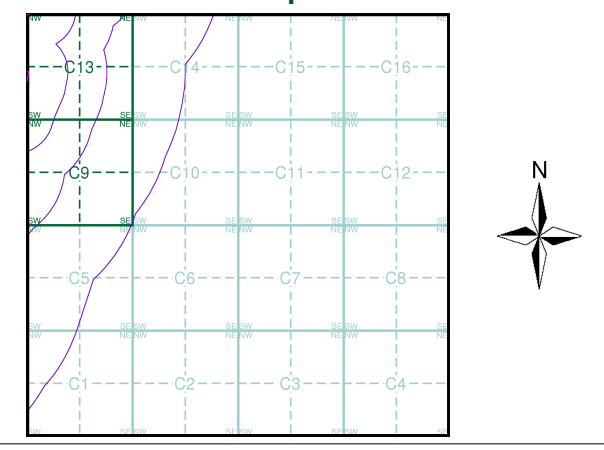
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- General**
-  Specified Site
 -  Specified Buffer(s)
 -  Bearing Reference Point
 -  Slice
 -  Map ID
- Industrial Land Use**
-  Contemporary Trade Directory Entry
 -  Fuel Station Entry
 -  Gas Pipeline
 -  Underground Electrical Cables

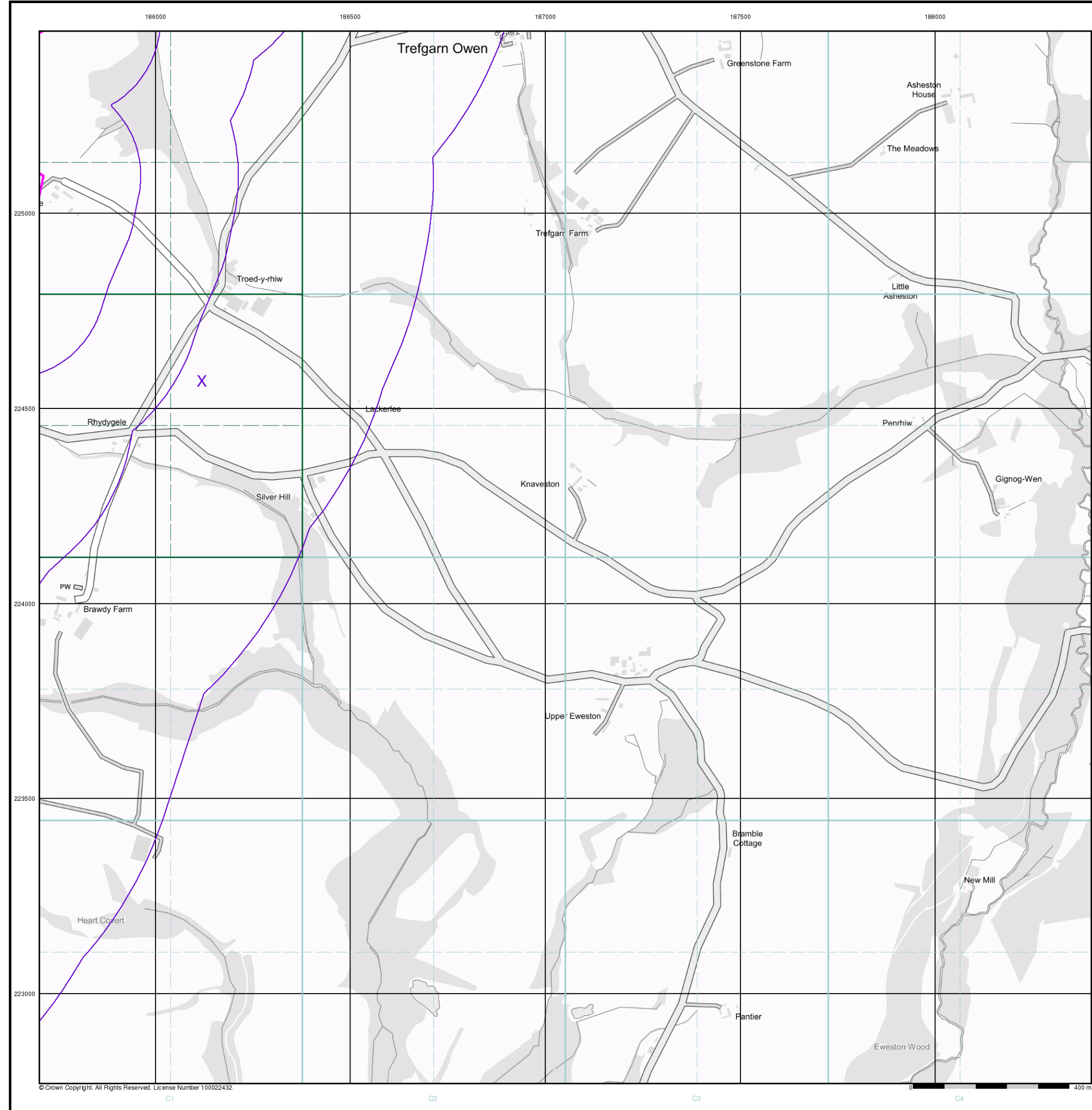
Industrial Land Use Map - Slice C



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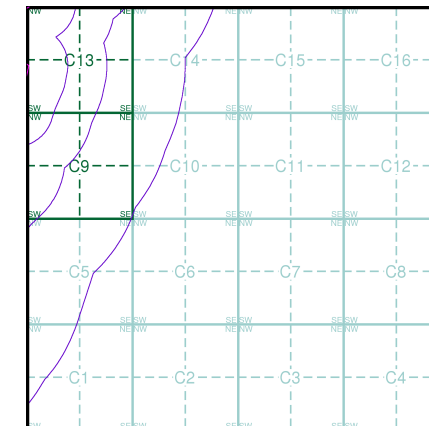
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice C

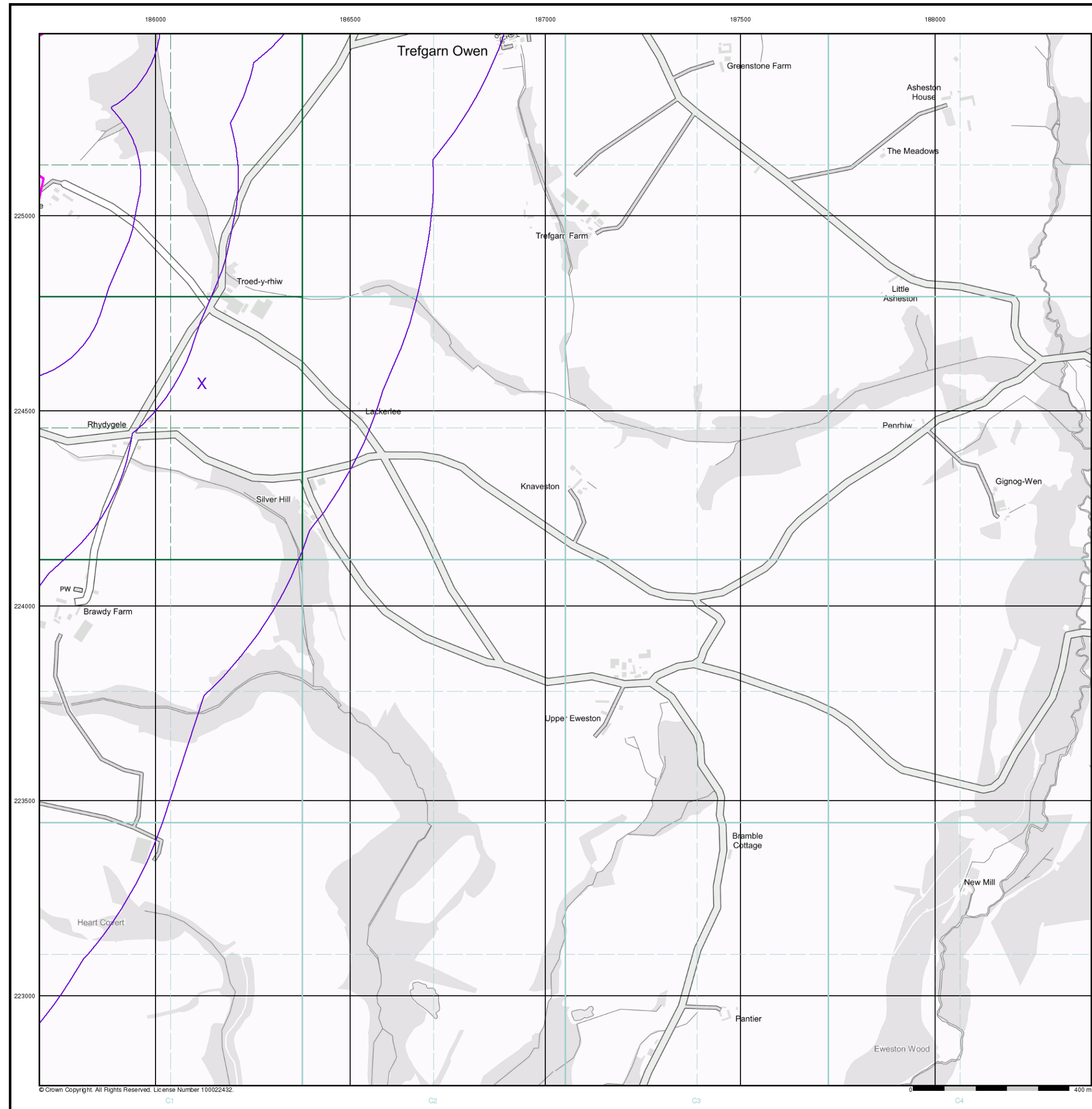


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General

- Specified Site
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- Bearing Reference Point
- Map ID
- Several of Type at Location

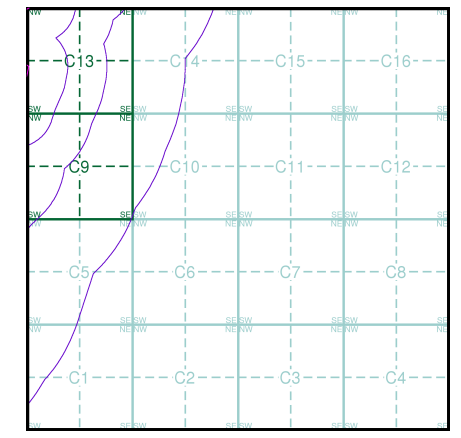
Agency and Hydrological (Boreholes)

- 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 C

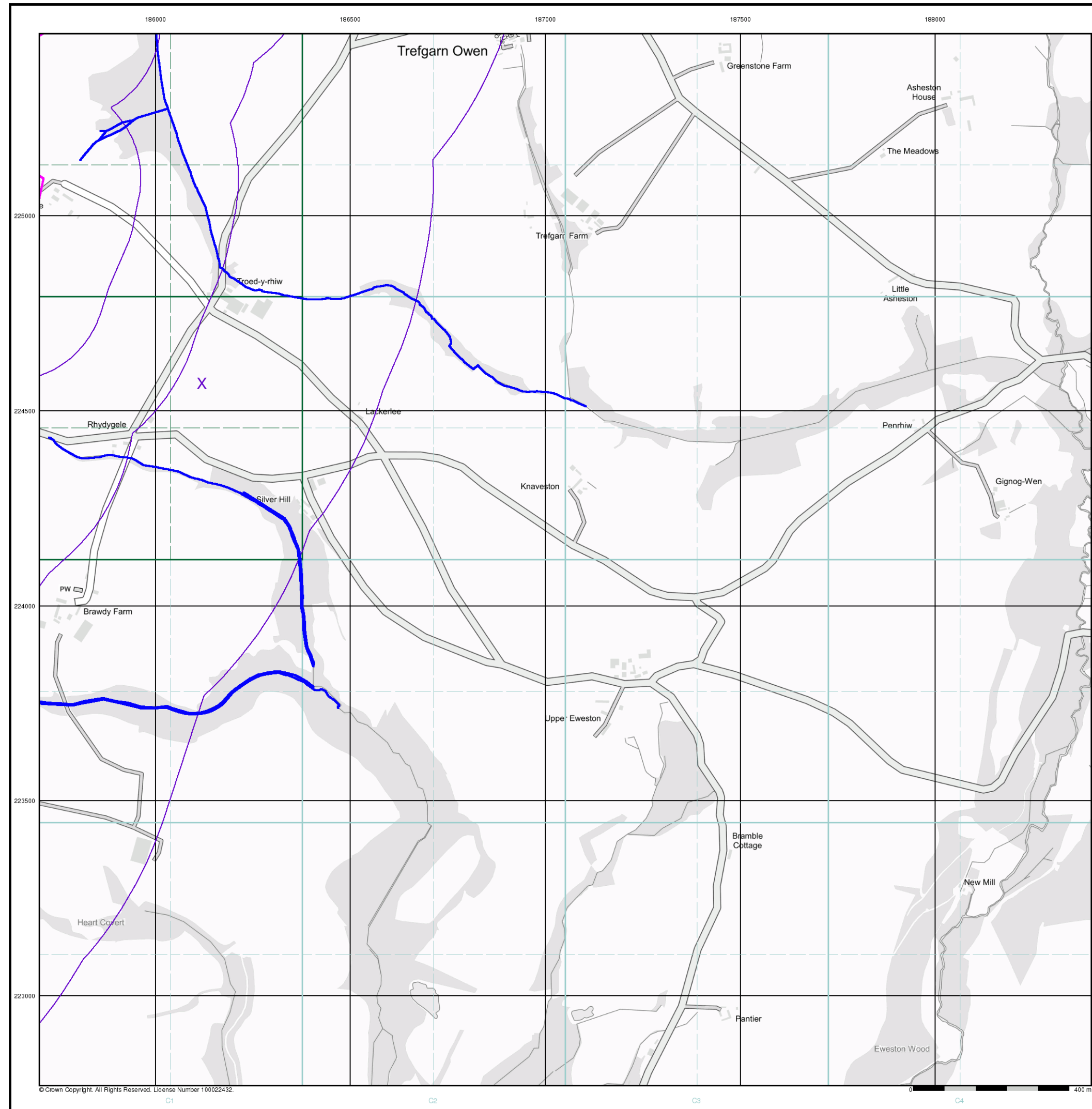


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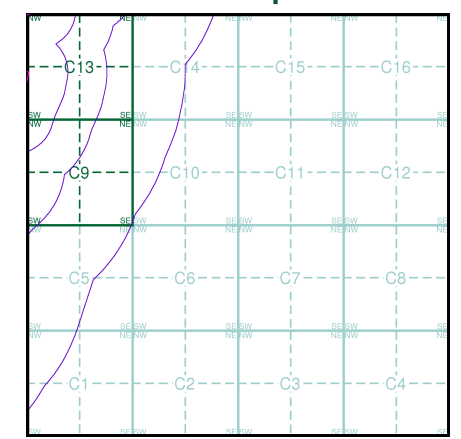


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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
- OS Water Network Data**
- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

OS Water Network Map - Slice C



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