


**SITE CONDITION REPORT  
VARIATION APPLICATION  
EPR/AB3233DW/V008**

**GP Biotec Ltd  
Great Porthamel AD Plant**

Date:  
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Project Issue Number:  
**SOL\_321\_P001\_GPB**

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## INTRODUCTION

This Application Site Report has been prepared by Sol Environment Ltd on the behalf of GP Biotec Ltd in support of a Normal Variation Application of their existing permit at Great Porthamel Farm, Talgarth, Brecon.

GP Biotec is making this application to carry out a Normal Variation of their existing EPR permit under The Environmental Permitting (England and Wales) Regulations 2016 (as amended) for the following reason:

- To vary the existing permit (EPR/AB3233DW) to include a new area of land ('new area') within the permitted boundary which will house a new Directly Associated Activity biogas upgrading plant. A new standby biogas boiler will also be added as part of this variation but will be located within the existing permit boundary.

This document utilizes information contained in the Application Site Condition Report (ASCR) 2014 submitted as part of the Variation Application package to Natural Resources Wales (NRW) (Sol Environment Ref. SOL0614GP02) which relied on information supplied by the site and various third party information sources (See Section 2) submitted as part of the planning application process. This Application Site Condition Report 2021 has been updated to include a new area of land within the permitted area to house the new biogas upgrading plant.

The GP Biotec site (*'the Site'*) is located at Great Porthamel Farm, Talgarth, Brecon, Powys, LD3 0DL.

This document has been prepared in accordance with the EA's Guidance Document H5 Site Condition Reports Guidance and Templates (Version 5.0, dated October 2014). This report provides baseline information in relation to the site.

## 1. Site Details

<b>Name of the Applicant:</b>	GP Biotec Ltd
<b>Activity Address:</b>	Great Porthamel Farm, Talgarth, , Brecon, Powys, LD3 0DL
<b>National Grid Reference:</b>	OS X (Eastings) 316010 OS Y (Northings) 235040

<b>Document References:</b>	EP Application Site Condition Report, GP Biotec Ltd  Sol document reference and date: SOL_21_P001_GPB December 2021
<b>Annexes:</b>	Annex A of this report: <ul style="list-style-type: none"> <li>• Figure A1 – Site Location</li> <li>• Figure A2 – Site Layout</li> <li>• Figure A3 – Site Drainage</li> </ul> Annex B: Historic Maps Annex C: Envirocheck Report 14 <sup>th</sup> February 2011 (existing site) Groundsure Report 8 <sup>th</sup> December 2021 (new area for biogas upgrading plant) Annex D: Soil Reference Data Suite (existing site) Annex E: Conceptual Model

## 2. Condition of Land at Permit Issue

### 2.1 Environmental Setting

#### 2.1.1 Site Location

The location of the subject Site is shown on Figure A1, Annex A, centered at approximate National Grid Reference OS X (Eastings) 316010; OS Y (Northings) 235040. The site layout, including the new area of land to be included in the permit as part of variation V008, is shown in Figure A2.

The site occupies the central area of the current Great Porthamel Farm located at Great Porthamel Farm, Talgarth, Brecon, Powys, LD3 0DL (Figure A of Appendix A).

The total installation site area (including the new biogas upgrading plant area) is approximately 1.09 hectares. The facility is situated to the west of the A4078 road in an area of predominantly agricultural land. The nearest residential property and sensitive receptor to the site is Great Porthamel Farm, located 50m northwest of the site. The wider surroundings primarily comprise agricultural land, with the village of Talgarth located approximately 1.9km south of the site.

Table 2.1 provides further information in relation to the site.

**Table 2.1 Site Setting**

Direction	Description
North	Immediate Vicinity: Unoccupied Land Within 500m: Unoccupied Land Beyond 500m: Unoccupied Land, A438, A4079, River Wye, Afon Llynfi
North East	Immediate Vicinity: Unoccupied Land Within 500m: Unoccupied Land, A4078 Beyond 500m: Unoccupied Land, Tyle-glas Wood, Craig Wood
East	Immediate Vicinity: Unoccupied Land, A4078 Within 500m: Unoccupied Land Beyond 500m: Unoccupied Land, Bradwys Wood
South East	Immediate Vicinity: Unoccupied Land Within 500m: Unoccupied Land Beyond 500m: Unoccupied Land, Park Wood
South	Immediate Vicinity: Unoccupied Land Within 500m: Unoccupied Land, A4078 Beyond 500m: Unoccupied Land, Talgarth
South West	Immediate Vicinity: Unoccupied Land Within 500m: Unoccupied Land, Leys Wood

	Beyond 500m: Unoccupied Land, Talgarth
West	Immediate Vicinity: Great Porthamel Farm grain store, liquor lagoon etc Within 500m: Unoccupied Land Beyond 500m: Unoccupied Land, Bronllys, A438
North West	Immediate Vicinity: Great Porthamel Farm workshop, canteen, silage clamp etc Within 500m: Unoccupied Land, Beyond 500m: Unoccupied Land, Marish Wood

The Natural Resources Wales Flood Map for Planning indicates that the site is predominantly situated within Flood Zone 1 (considered an area of low probability with regards to flooding (the chance of flooding each year is estimated at <0.1% (1 in 1000) or less)).

*New biogas upgrading plant area as in 2021*

The Natural Resources Wales Flood Map for Planning indicates the access road to the site which is adjacent to the location of the new biogas upgrading plant is located in a Flood Zone 2 for surface water and small watercourses (chance of flooding between 0.1% and 1% (between 1 in 1000 and 1 in 100)).

### 2.1.2 Geology, Hydrogeology and Surface Waters

Desk-based research of the local geology, hydrogeology and surface waters has been carried out in order to establish the potential for migration of contamination onto or away from the Site, and to assess the surface water and groundwater sensitivity of the Site area. Information was obtained from a number of sources, namely:

- Environment Agency Groundwater Vulnerability Digital Maps.
- Information provided by an environmental database report (Envirocheck for main permitted site and Groundsure for new biogas upgrading plant area).
- Geological maps produced by the British Geological Survey (BGS) and the BGS Geology of Britain Viewer (<http://maps.bgs.ac.uk/geologyviewer>).
- MAGIC <http://magic.defra.gov.uk>
- BGS Borehole Record Viewer (<http://www.bgs.ac.uk/data/boreholescans/home.html>)

#### Geology

##### *Main site as in 2014*

According to the BGS Geology of Britain Viewer and BGS 1:50,000 Solid and Drift map of the area, the site is directly underlain by superficial Glacial Till Deposits which comprise of brown and grey sandy gravelly diamicton. The superficial deposits are subsequently further underlain by the Bedrock Geology of the Raglan Mudstone.

The BGS Lexicon of Named Rock Units describes the Raglan Mudstone as '*Red mudstones and silty mudstones with calcretes and sandstones.*'

An intrusive geotechnical investigation of the site was undertaken prior to the construction of the site by Terra Firma Ltd in March 2011 (Ref: 11338). The report showed the geology directly beneath the site to comprise the following:

- Firm, stiff and very stiff red brown slightly sandy clay with many gravels, cobbles, and sandstone lithorelicts. Typically encountered at 0 – 9.8m below ground level (bgl). The clay was further underlain by the following natural strata;
- Probable sandstone/mudstone bedrock. Typically encountered at 10m below ground level (bgl).
- No contamination was evident.

According to data issued by the National Radiological Protection Board (NRPB) in 2002 (now the Health Protection Agency), the land is located in an area where 1% - 3% of residential properties are above the action level for Radon as set by the NRPB. No radon protection measures are considered necessary by the BGS.

The site is located in an area which is not affected by coal mining activity. There is a no hazard potential for compressible ground subsidence and very low hazard potential for landslip subsidence.

*New biogas upgrading plant area as in 2021*

The geology in the new biogas upgrading plant area is as described above for the main site in 2014 i.e., superficial Glacial Till Deposits underlain by Raglan Mudstone bedrock.

**Hydrogeology**

*Main site as in 2014*

The hydrogeological characteristic of the geological groups identified is summarised below:

- Glacial Till – unproductive strata – rocks layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.
- Raglan Mudstone – Secondary A Aquifer – Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally the water-bearing parts of the former non-aquifers.

No overlying drift deposits are present on site.

The site is not located in a Groundwater Source Protection Zone (SPZs).

There are no groundwater abstractions on site. However, there is one groundwater abstractions within 2km of the Site. The abstraction is licensed to Mr. M Jones for 'General Farming and Domestic' and is located approximately 1.26km to the east of the site and linked to the wider operations of Great Porthamel Farm.

Groundwater in the vicinity is likely to flow in a westerly to southwesterly direction, towards the Afon Llynfi.

The site is considered to be situated in an area of low to moderate sensitivity with respect to groundwater resources due to the underlying Secondary A Aquifer. This sensitivity is mitigated somewhat by the absence of any groundwater abstraction (sensitive or otherwise) within 1km of the site (the closest groundwater abstraction being located 1.263km north-east) and that the site is not situated in a groundwater source protection zone.

*New biogas upgrading plant area as in 2021*

The hydrogeology in the new biogas upgrading plant area is as described above for the main site in 2014. The only differences are:

- that the Glacial Till is now described as Secondary Undifferentiated (it is not possible to

attribute either Category A or B to a rock type. In general, these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type).

- There is only one active groundwater abstraction within 2km of the new area of site which is located approximately 1813m west of the site for 'Drinking, cooking, sanitary washing (small garden) – Commercial / industrial / public services.

## Surface Water

### *Main site as in 2014*

There are no surface water features located on site.

The nearest surface watercourse is the Afon Llynfi, located approximately 400m northwest of the site at its closest point. The closest River Quality data for the Afon Llynfi was taken approximately 500m north of the site. The results show that the river was classified as Grade B (Good) for chemical and biological quality in 2009. The flow of the Afon Llynfi at this point is reported to be less than 2.5 cumecs.

There are no surface water abstractions on site. However, there are two licensed surface water abstractions within 2km of the site, the details of which are shown in Table 2.2 below. The closest of these is licensed to Mr P C Gunning and is located 1.34km to the southwest of the site from River Dulas at Bronllys for 'Holiday Sites; Camp Sites and Tourist Attractions'.

**Table 2.2. Surface Water Abstractions within 2km of the Site**

Operator	Distance and Direction	Location	Purpose
Mr P C Gunning	1339m South-West	River Dulas At Bronllys	Business Parks: Make-Up or Top Up Water Business Parks: Spray Irrigation – Direct
Messrs J & B Powell & Sons	1770m West	Borehole At Anchorage Caravan Park	Holiday Sites; Camp Sites And Tourist Attractions: Drinking; Cooking; Sanitary; Washing; (Small Garden)

The Environment Agency flood zone database indicates that the site is situated within Flood Zone 1 and therefore is considered an area of low probability with regards to flooding (the chance of flooding each year is estimated at <0.1% (1 in 1000) or less).

### *New biogas upgrading plant area as in 2021*

There are no surface water features located on site and the nearest watercourse is the Afon Llynfi, located approximately 760 north west of the new biogas upgrading plant area at its closest point. The River Quality data (2016) for the Afon Llynfi shows that the river was classified as 'good' for chemical quality and 'moderate' for biological quality.

There are no surface water abstractions on site. There are several active licensed surface water and potable abstractions within 2km of the site, the details of which are shown in Table 2.3 below.

**Table 2.3. Surface Water Abstractions within 2km of the new Biogas Upgrading Plant area**

Operator	Distance and Direction	Location	Purpose
-	1357m South	Easting 315573, Northing 233676	Milling and water power other than electricity.
-	1360m South	Easting 315570, Northing 233674	Hydro-electric power generation.
-	1813m West	Easting 314190, Northing 235050	Drinking, cooking, sanitary washing (small garden) – Commercial / industrial / public services

The Natural Resources Wales Flood Map for Planning indicates the access road adjacent to the location of the new biogas upgrading plant is located in a Flood Zone 2 for surface water and small watercourses (chance of flooding between 0.1% and 1% (between 1 in 1000 and 1 in 100).

### 2.1.3 Designated Sites

#### *Main site as in 2014*

The Environment Agency's 'Risk assessments for specific activities: environmental permits' guidance and 'Air emissions risk assessment for your environmental permit' guidance (which Natural Resources Wales H1 guidance links to) state that the potential impacts of the site should be assessed for the following habitat sites within 10km of the Installation:

- Special Areas of Conservations (SAC's and candidate (cSACs) designated under the EC Habitats Directive;
- Special Protection Areas (SPAs) and potential SPAs designated under the EC Birds Directive.
- Ramsar Sites designated under the Convention of Wetlands of International Importance.

It is also stated that within 2km of the Source:

- Sites of Special Scientific Interest (SSSI) established by the 1981 Wildlife and Countryside Act;
- National Nature Reserves (NNR);
- Local Nature Reserves;
- Local Wildlife sites;
- Ancient Woodland.

Information from the Multi Agency Geographic Information for the Countryside (MAGIC) website (<http://magic.defra.gov.uk/>) has been used to obtain the below information.

The habitat receptor designations and locations relevant to the assessment are shown in Table 2.3 below:

Table 2.4: Sensitive Habitat Receptors		
Receptor	Habitat Designation	Approx. Location (Relative to Site)
Unnamed Wood	Ancient woodland	209 m S
Leys Wood	Ancient woodland	277 m SW
Afon Llynfi	SSSI	514 m NW
Bradwys Wood / Park Wood	Ancient woodland	551 m E
Afon Gwy	SAC	612 m NW
Unnamed Wood	Ancient woodland	755 m NW
Unnamed Wood	Ancient woodland	878m W
Unnamed Wood	Ancient woodland	1411 m NW
Marish Wood	Ancient woodland	1652 m NW
Unnamed Wood	Ancient woodland	1980 m W
Unnamed Wood	Ancient woodland	1723 m NE
Pyll-y-Wrach	SSSI	2000 m S
Drostre Bank	SAC	7292 m SW
Llangorse Lake	SAC	8430 m SW

The site is not located within a nitrate vulnerable zone.

The site is not located within an Air Quality Management Area.

Due to the nature of the proposed Installation and that there are no direct releases of emissions from the process, beyond the relatively minor emissions from the CHP engines, it is the conclusion of this assessment that the proposed operations are not likely to have any significant effect on the surrounding environment.

#### *New biogas upgrading plant area as in 2021*

The above information remains correct as in December 2021 in relation to all habitats except ancient woodland. Several more ancient woodland sites are now recorded (see table 2.5 for updated table). There are no changes to emissions other than the addition of the minor emissions from the biogas upgrading plant stack (post activated carbon filtration). Analysis in October 2021 of the raw biogas (prior to activated carbon filtration and biogas upgrading) has not indicated the presence of

ammonia. The additional air emissions are therefore not considered to alter the previous conclusion i.e. the proposed operations are not likely to have any significant effect on the surrounding environment.

**Table 2.5: Sensitive Habitat Receptors 2021 (in relation to new biogas to grid area)**

Receptor	Habitat Designation	Approx. Location (Relative to Site)
Unnamed Wood	Ancient Semi Natural woodland	149 m SW
Unnamed Wood	Ancient Semi Natural woodland	334 m W
Unnamed Wood	Ancient Semi Natural woodland	427 m E
Unnamed Wood	Ancient Semi Natural woodland	428 m W
Unnamed Wood	Ancient Semi Natural woodland	434 m E
Unnamed Wood	Plantation on Ancient woodland Site	455 m E
Unnamed Wood	Plantation on Ancient woodland Site	472 m E
Unnamed Wood	Ancient Semi Natural woodland	514 m E
Afon Llynfi	SSSI	514 m NW
Unnamed Wood	Restored Ancient woodland	533 m E
Unnamed Wood	Ancient Semi Natural woodland	583 m E
Unnamed Wood	Plantation on Ancient woodland Site	593 m E
Unnamed Wood	Plantation on Ancient woodland Site	605 m E
Afon Gwy	SAC	612 m NW
Unnamed Wood	Ancient Semi Natural woodland	613 m E
Unnamed Wood	Restored Ancient woodland	669 m E
Unnamed Wood	Ancient woodland	683 m E
Unnamed Wood	Plantation on Ancient woodland Site	691 m SE
Unnamed Wood	Ancient Semi Natural woodland	765 m NW
Unnamed Wood	Ancient Semi Natural woodland	865 m W
Unnamed Wood	Ancient Semi Natural woodland	885 m SE
Unnamed Wood	Ancient woodland	926 m E
Unnamed Wood	Restored Ancient woodland	1018 m E
Unnamed Wood	Ancient Semi Natural woodland	1031 m SE
Unnamed Wood	Restored Ancient woodland	1072 m SE
Unnamed Wood	Plantation on Ancient woodland Site	1116 m E

Unnamed Wood	Plantation on Ancient woodland Site	1197 m SE
Unnamed Wood	Plantation on Ancient woodland Site	1200 m SE
Unnamed Wood	Ancient Semi Natural woodland	1208 m E
Unnamed Wood	Restored Ancient woodland	1233 m SE
Unnamed Wood	Restored Ancient woodland	1241 m E
Unnamed Wood	Restored Ancient woodland	1260 m SE
Unnamed Wood	Ancient Semi Natural woodland	1292 m SE
Unnamed Wood	Restored Ancient woodland	1299 m SE
Unnamed Wood	Ancient Semi Natural woodland	1320 m SE
Unnamed Wood	Plantation on Ancient woodland Site	1342 m E
Unnamed Wood	Restored Ancient woodland	1345 m SE
Unnamed Wood	Ancient Semi Natural woodland	1348 m SE
Unnamed Wood	Ancient Semi Natural woodland	1376 m SE
Unnamed Wood	Ancient Semi Natural woodland	1386 m S
Unnamed Wood	Ancient Semi Natural woodland	1450m NW
Unnamed Wood	Plantation on Ancient woodland Site	1599 m SE
Unnamed Wood	Ancient Semi Natural woodland	1639 m SE
Unnamed Wood	Ancient Semi Natural woodland	1644 m NW
Unnamed Wood	Ancient Semi Natural woodland	1650 m NW
Unnamed Wood	Plantation on Ancient woodland Site	1669 m SE
Unnamed Wood	Ancient Semi Natural woodland	1742 m S
Unnamed Wood	Ancient Semi Natural woodland	1754 m N
Unnamed Wood	Ancient Semi Natural woodland	1809 m NW
Unnamed Wood	Restored Ancient woodland	1815 m E
Unnamed Wood	Plantation on Ancient woodland Site	1827 m SE
Unnamed Wood	Restored Ancient woodland	1905 m NE
Unnamed Wood	Restored Ancient woodland	1918 m S
Unnamed Wood	Plantation on Ancient woodland Site	1947 m E
Unnamed Wood	Restored Ancient woodland	1952 m W
Unnamed Wood	Ancient Semi Natural woodland	1959 m E
Unnamed Wood	Ancient Semi Natural woodland	1966 m SE
<b>Pyll-y-Wrach</b>	<b>SSSI</b>	2000 m S

Drostre Bank	SAC	7292 m SW
Llangorse Lake	SAC	8430 m SW

## 2.2 Pollution History

### 2.2.1 Environmental Database Records

The following information has been obtained from a search of a publicly available database of environmental information (Envirocheck data sheets, produced by Landmark Ltd for the main site application in 2011, and from Groundsure for the addition of the new bioagas upgrading plant in 2021).

The databases contain records of information from public registers held by environmental regulatory authorities and can be used to assess the site's sensitivity, the potential for neighbouring activities to pose a risk to the site and to determine whether specific records of pollution relate to the subject site.

#### Pollution Incidents

##### *Main site as in 2014*

There have been no records of pollution incidents relating to the site.

There is one recorded pollution incident to Controlled Waters within a 1km radius of the site, located downstream of Castel Bridge (approximately 1km south-west) and relating to the overflow of milk/creamery wastes into an unknown area. The incident was recorded as a Category 2 – Significant Incident.

There have been no entries in the Substantiated Pollution Incident Register relating to the site or within 2km of the site.

The above incident is not considered to have had any impact on the subject site.

##### *New biogas upgrading plant area as in 2021*

There are no entries in the Substantiated Pollution Incident Register relating to the site. There has been one within 1km (approximately 147km northeast) which was recorded as a Category 4 (no impact) to air and land.

The above incident is not considered to have had any impact on the subject site.

## **Prosecutions**

### *Main site as in 2014*

There are no records of prosecutions relating to authorised processes or to controlled waters taken against the study site or within 1km of the site.

### *New biogas upgrading plant area as in 2021*

Information not available in the Groundsure 2021 report.

## **Licensed Waste Management Facilities**

### *Main site as in 2014*

There are no other waste management facilities within 2km of the site.

### *New biogas upgrading plant area as in 2021*

There are no other waste management facilities within 500m of the site (those noted in the Groundsure 2021 report relate to the currently permitted G P Biotec Ltd Anaerobic Digestion plant site (EPR/AB3233DW) and associated digestate storage which is outwith the current permit (approximately 417m northwest).

## **Discharge Consents**

### *Main site as in 2014*

There are no water discharge consents, revoked or current, associated with the site.

There are two current discharge consents located within a 1km search radius of the Site. The nearest of which is located 899m to the southwest of the site for 'discharge of storm sewage overflow' into a freshwater stream.

### *New biogas upgrading plant area as in 2021*

There are no water discharge consents, revoked or current, associated with the site nor within 500m of it.

## **Authorised or Permitted Processes**

### *Main site as in 2014*

Other than AB3233DW (the permit to which this variation relates) there are no other Part A(1), Part A(2) and Part B Environmental Permits to operate an installation as defined by the Environmental Permitting Regulations 2013 process at the site or within a 1km search radius of the site.

### *New biogas upgrading plant area as in 2021*

The information above for the main site in 2014 remains the same (the Groundsure report covers a 500m radius).

### **2.2.2 Historical Land Uses**

Available historic maps for the site have been obtained and reviewed to determine if there is the potential for contamination to be present on Site associated with the Sites historical uses.

The historical maps are presented within Annex B of this report (and include those from the original Envirocheck report in 2011 for the existing main site, and those from the Groundsure 2021 report for the new biogas upgrading area) and a summary of the historical development of the site and surroundings is included below.

#### *Main site as in 2014*

The land use chronology shown on the historical plans shows the main site to have been in agricultural use since the earliest available map dated 1887. The maps do not show significant changes to the site or immediate surroundings up to the most recent edition (dated 2010).

The maps indicate that the site has remained as agricultural land since the late 1880's. Based on the information provided from the historical maps, there is considered to be a low potential for contamination to be present on site relating to its historical use.

#### *New biogas upgrading plant area as in 2021*

The land use chronology shown on the historical plans shows the new biogas upgrading area to have been in agricultural use since the earliest map dated 1887. The maps do not show any changes to the site or immediate surroundings up to the most recent edition (dated 2021).

The maps indicate that the new area has remained as agricultural land since the late 1880's. Based on the information provided from the historical maps, there is considered to be a low potential for contamination to be present on site relating to its historical use.

### **2.2.3 Site Reconnaissance (as at 2014)**

#### **Visual/Olfactory Evidence of Existing Contamination**

All areas of the site have been subject to a visual inspection at the time of original construction and at the time of the 2014 ASCR document. No structural integrity/pollution pathways were identified.

The inspection was carried out in conjunction with the management of GP Biotec for the purposes of inspecting and assessing the following:

- Physical condition of hardstanding;
- Condition and adequacy of containment bunds;

- Condition and adequacy of underground drainage and containment systems.

There was no evidence of any contamination or hydrocarbon/pollutant staining noted during the site assessment.

There is no visual or olfactory evidence on site of existing contamination.

The following basic design have been incorporated into the design of the plant:

- All aspects of the site are operated on sealed impermeable floor slabs which as a minimum comprise of reinforced concrete which is at least 250mm thickness. The concrete slabs provide a completely impermeable barrier to ensure that the underlying geology and controlled waters are protected.
- All storage tanks, process pipelines and equipment are installed above ground.
- There are no underground structures, pipelines, or transfer ducts.
- All storage tanks are equipped with secondary containment bunds that have been designed to comply with EA best practice guidelines as defined by PPG2 – Above Ground Storage Tanks.
- All storage tanks are fitted with level gauges, alarms and hardwired into the plant online (SCADA) monitoring system.

The construction of the plant foundations and tanks is very significant and on their own provide significant protection to the environment. The construction of the site has been confirmed as follows:

*Primary and secondary digestion tanks:*

- Site excavated to bedrock base, overlain by;
- Compacted sub-base, overlain by;
- Concrete blinding, overlain by;
- Impermeable geo-membrane liner, overlain by;
- 60 mm layer of impermeable thermal insulation, overlain by;
- Impermeable 'Visqueen' liner, overlain by;
- A 250mm steel reinforced concrete base, upon which the tank walls were constructed complete with proprietary leak detection system;
- A liner was welded on up the sides of the tanks which had also insulation around the walls; and
- A viol drain system was then fixed around the tanks to protect the liner and allow free drainage to flow down outside of the liner.

*All other areas of the site have been constructed upon:*

- Site excavated to bedrock base, overlain by;

- Compacted sub-base, overlain by;
- Concrete blinding, overlain by;
- Impermeable geo-membrane liner, overlain by;
- 250mm steel reinforced concrete base.

#### *New biogas upgrading plant area as in 2021*

A site reconnaissance has not been conducted due to this area being of agricultural use prior to the installation of the new biogas upgrading plant. The new biogas upgrading area will be constructed upon:

- Compacted hardcore, overlain by;
- Biogas upgrading plant will be on concrete bases (and will connect process water to sealed drainage);
- Gravel finish;

All aspects of the GP Biotec operation are subject to a strict maintenance schedule.

All installation of the site drainages and collection tanks have been in accordance with Environment Agency requirements.

Due to the construction of the nature of the Installation, the operations on site do not introduce any sub surface or potentially polluting activities to the site.

## 2.3 Evidence of Historic Contamination

#### **Previous Site Investigation – Main Site as in 2014**

A baseline intrusive site investigation was undertaken by Terra Firma in February 2010 in order to obtain baseline environmental data and ascertain the geotechnical conditions of the site. The laboratory chemical test results undertaken demonstrate sulphate contents varying between 200 and 300mg/kg and pH values varying between 7.66 and 8.39.

A summary of the chemical analysis is shown in Annex D.

There have been no other previous site investigations carried out on site.

#### *New biogas upgrading plant area as in 2021*

The new area of site to house the new biogas upgrading plant is a small area of bare ground with no evidence of historical use, on the edge of an agricultural field. There is considered to be a low potential for contamination to be present on site relating to its historical use and therefore baseline intrusive site investigation data has not been obtained.

Given the site (main existing and new biogas upgrading area) and the surrounding areas history, the potential for significant existing ground contamination is considered low.

## 2.4 Supporting Information

Figures detailing the location, boundary and layouts of the Installation are shown in Annex A.

Historical Ordnance Survey plans of the site and surrounding area are reproduced in Annex B.

Information from the Envirocheck environmental database (provided by Landmark Information Group 2011) for the main existing site and Groundsure 2021 for the new biogas upgrading plant area, identifying the environmental setting and pollution incidents are reproduced in Annex C.

Summary of Chemical Analysis taken place on the soils on site (main site as at 2011) carried out by Laboratory Testing Services Ltd is reproduced in Annex D.

A Conceptual Model is shown in Annex E.

## 3. Permitted Activities

### 3.1 Activities Undertaken at the Installation

#### 3.1.1 Existing Activities

##### *Main site as in 2014*

GP Biotec is making this application to carry out a Normal Variation of their existing EPR permit under The Environmental Permitting (England and Wales) Regulations 2013 (as amended) for the following reason:

- To vary the existing permit (EPR/AB3233DW) to become a bespoke Installation Permit due to the anaerobic digestion activities on site now being considered a Section 5.4 Part A(1)(b)(i) activity due to the changes to the Industrial Emissions Directive (IED).

The Anaerobic Digestion plant has been designed to process the following key waste types:

- Energy Crops: Comprising Maize and Beet generally grown on Great Porthamel Farm;
- Liquid and Slurry Wastes: Comprising Blood and Manure / Cowshed Slurries;
- Biodegradable Solid Wastes: Comprising food, agricultural and abattoir wastes.

### *New biogas upgrading plant area as in 2021*

GP Biotec is making this application to carry out a Normal Variation of their existing EPR permit under The Environmental Permitting (England and Wales) Regulations 2016 (as amended) for the following reason:

- To vary the existing permit (EPR/AB3233DW) to include:
  - a Directly Associated Activity for the new biogas upgrading plant;
  - a new (standby) biogas boiler (<1MWth);
  - expand the permitted boundary to include a new area in the southeast just off the A4078 and existing G P Biotec access road, to house the new biogas upgrading plant.

### **3.1.2 Description of the Process**

#### *Main site as in 2014*

The proposed variation does not change the purpose and function of the Installation. A summary description of the key stages of the operation is described below.

- *Waste Reception / Pre-Processing:* ABP wastes are accepted into the 'dirty' reception area and discharged directly into the enclosed 60m<sup>3</sup> reception hopper or into the 60m<sup>3</sup> liquid waste tanks dependent on waste type (solid, liquid etc).

The liquid waste tanks and reception hoppers are fitted with activated carbon odour treatment plant and kept under negative pressure to ensure that there is no discharge of odours.

All non-ABP wastes will be unloaded in the non-ABP reception area ('clean area') at the lower (western portion of the site).

The reception hoppers and liquid storage are fitted with macerating blades and 'stirring agitator' to enable the discharge and pumping of the waste feedstocks to the primary digestion tanks.

- *Primary and Secondary Digestion:* The feedstocks are pumped directly into the primary digestion tanks where it is retained for a total period of approximately 64 days. During this process the temperature is maintained at a mesophilic range (35 - 40°C).

The fermentation process produces a methane-rich biogas, condensate and solid digestate. The digestate is transferred between the two tanks via a cutting screen to ensure that the digestate achieves the ABPR requirements of 12mm.

All biogas formed within the digester collects in the airspace in the very top of the tanks and is

subsequently pumped through gas treatment measures (condensate pit and dry carbon filter) which remove excess condensate through gas drying.

The biogas is then pumped to the CHP unit where it is combusted to form electricity and heat. Condensate removed from the gas is fed back into the digesters.

- *Batch Pasteurisation:* All post digested material is batch pasteurised prior to discharge from site for landspreading. Batch pasteurisation takes place within two sealed 10m<sup>3</sup> batch pasteurisation tanks where it is heated in accordance with the time / temperature requirements (1 hour at 70°C) stipulated by the ABP Directive.

Once pasteurised, the digestate is stored in 4 storage tanks (3 x 100m<sup>3</sup>, 1 x 550m<sup>3</sup>) for 4 weeks before being transferred directly off site or to a covered 4000m<sup>3</sup> lagoon, prior to use for landspreading.

#### *New biogas upgrading plant area as in 2021*

The proposed variation does not change the purpose and function of the Installation. A summary description of new plant to be added is described below.

- *Biogas Upgrading Plant:* All biogas formed within the existing digesters will collect in the integrated gas store at the top of the tanks and is subsequently transported to:
  - Existing combustion plant (CHPs);
  - A new biogas upgrading plant where it is upgraded to biomethane for export to the national grid; and
  - A new biogas boiler where it is used as a fuel for this standby combustion plant.

The biogas upgrading plant will remove moisture and contaminants from the biogas, compress it and use membrane technology to separate methane from carbon dioxide. This will result in the production of biomethane which will be injected into the National Gas Grid and carbon dioxide which will be vented to atmosphere.

- *Biogas boiler:* the new biogas boiler will be used as standby combustion plant to provide heat for the anaerobic digestion process in the event one of the engines is offline.

### **3.1.3 Substances Used at the Installation**

#### *Main site as in 2014*

**Table 3.1: Chemical and Hazardous Materials Summary – as in 2014**

Material	Nature of storage	Location	Fate
Lubrication Oils	Internal Bunded oil tank < 2m <sup>3</sup> Double skinned tanks stored	Internal	Used within Gas engine. All oils disposed off site

	internally and designed in accordance with EA PPG2 Oil Storage Tanks.		
Ferric Oxide	Internal enclosed tanks	Internal – within Reception Building	100% injected into AD reactor tanks, used or Hydrogen Sulphide Removal

#### *New biogas upgrading plant area as in 2021*

**In addition to the above** chemicals the following will be added to the site inventory as a result of the installation of the new biogas upgrading plant.

**Table 3.2: Chemical and Hazardous Materials Summary – as in 2021**

Material	Nature of storage	Location	Fate
Liquid propane gas	12-tonne steel tank	Top yard – within secondary containment	Entry to gas grid
Activated Carbon	3 x stainless steel tanks each containing 1100 l of activated carbon	Biogas upgrading plant	Waste, recycled (when spent)
Odorant (Neat Blend Mercaptan)	GA50 Schmidt Container	GEU – bunded container	Entry to gas grid
Compressor Oil	Compressor bund housing	Biogas upgrading plant	Waste, disposed of off-site

## **Waste Storage**

### *Main site as in 2014*

All waste will be stored within dedicated areas. All waste vessels, will be clearly identified, sealed, and stored internally within a secured area protected by secondary containment.

All pasteurised digestate is collected and stored in one of 3 x 100m<sup>3</sup> and 1 x 550m<sup>3</sup> glass coated steel tanks.

Under general operating conditions, the storage of digestate is not considered to present a significant ground contamination

The system has been designed such that all process and chemical tanks are located with secondary containment bunds and fitted with level gauges and alarms. The system will be fully automated and

will operate continuously. The plant will be fully integrated into the SCADA control and PLC systems.

#### *New biogas upgrading plant area as in 2021*

The proposed new biogas upgrading plant and boiler will not inherently produce significant quantities of waste.

The main waste stream associated with the new plant items is considered to comprise spent activated carbon. Maintenance consumables will be catered for by the existing waste management arrangements at the facility. Spent membranes from the biogas upgrader will be removed from site and disposed of off-site. The membranes typically need to be replaced every 5 – 10 years. Compressor oil filters and oil will be disposed of by a suitable waste contractor.

All waste will be stored in situ (i.e., within the plant that generates it) until such time as maintenance activities require its removal and replacement.

### **3.1.4 Existing Drainage Systems**

#### *Main site as in 2014*

All aspects of the operating site are constructed on a sealed concrete hardstanding as described in the original application.

All surface water currently falling on to ABP reception area is routed to the Anaerobic Digestion Tanks for disposal.

There is no potential for cross contamination from the 'dirty area'.

There are no surface water drains or direct releases to controlled waters emanating on the site.

#### ***Hardstanding***

All internal and external processing areas are constructed with impermeable concrete hardstanding which has been designed in accordance with the load bearing requirements of the processing equipment and vehicles used at the facility. Typically, all non-structural concrete areas comprise of a reinforced concrete hardstanding of at least 200 - 250mm thickness.

#### ***Tanks and Bunds***

All tanks are installed with secondary containment and designed to comply with the Environment Agency Pollution Prevention Guidelines Note 2 '*Above Ground Oil Tanks*'. All storage and process tanks are enclosed within the main process building.

#### *New biogas upgrading plant area as in 2021*

The new biogas upgrading plant will be housed on concrete bases surrounded by compacted hardcore

and will benefit from sealed drainage for process effluent (condensate). A new drainage pipeline will be routed for this process water drainage to connect it to the existing Installation drainage network which returns drainage to the Anaerobic Digestion Tanks. Clean uncontaminated surface water will drain to ground so there will be no discharges to surface water or sewer.

### **3.1.5 Potential for Fugitive Releases to Soil, Groundwater and Surface Water**

#### *Main site as in 2014*

The materials and substances used in the activities on site are not considered to have potential to cause ground or groundwater contamination under general storage or operating procedures.

Furthermore:

- There are no drains within the building interior. Any materials spilt within the main building are retained and treated accordingly. No materials are able to leave the process area if spilled;
- All tanks are located away from vehicle maneuvering areas and within secondary containment bunds;
- All processing activities associated with the operation are enclosed within the main building.

The site operates a comprehensive maintenance and management system which is described in Section 3 of the Application Support Document.

The management system includes quarterly visual inspections of:

- All tanks and hard surfaced areas to detect any signs of deterioration, leaks, or spillage. Any corrective action required is reported to and implemented by the Site Manager; and
- Equipment in all process areas as part of the company's planned/predictive maintenance programme.

Site management will operate an environmental management system which is designed to meet the requirements of the Environmental Permitting Regulations, associated pollution prevention guidance.

Based on this assessment, the potential for the operations on site to impact soil and groundwater underlying the installation is considered to be low.

#### *New biogas upgrading plant area as in 2021*

The biogas upgrading plant and biogas boiler have been designed to ensure that there will be no fugitive emissions from the site. The proposed activity will not result in any fugitive releases of process emissions, dust, or odour under normal operating conditions.

There will be the potential for fugitive emissions to air from the new plant items, as a result of minor

leaks.

The inherent design of the pipework and the new biogas upgrader is such that the opportunity for fugitive emissions will be virtually eliminated. Further to this, the maintenance regime that will be in place for the new pipework and biogas upgrader will ensure that the potential for such fugitive emissions will be kept low.

The odorant is inherently highly odorous and even a minor fugitive release has the potential to cause widespread odour. However, it will be stored and handled in very small quantities, in sealed containers, at the new biomethane to grid plant. Its injection into the biomethane will be automatically controlled by a fully enclosed system inside the GEU which is purpose-designed and subject to a comprehensive inspection and maintenance regime in order to prevent fugitive releases.

All handling of the odorant will be subject to stringent procedures which will be noted in the Odour Management Plan (OMP) for the installation (to be reviewed and updated) and operatives are trained in the necessary measures to prevent fugitive releases.

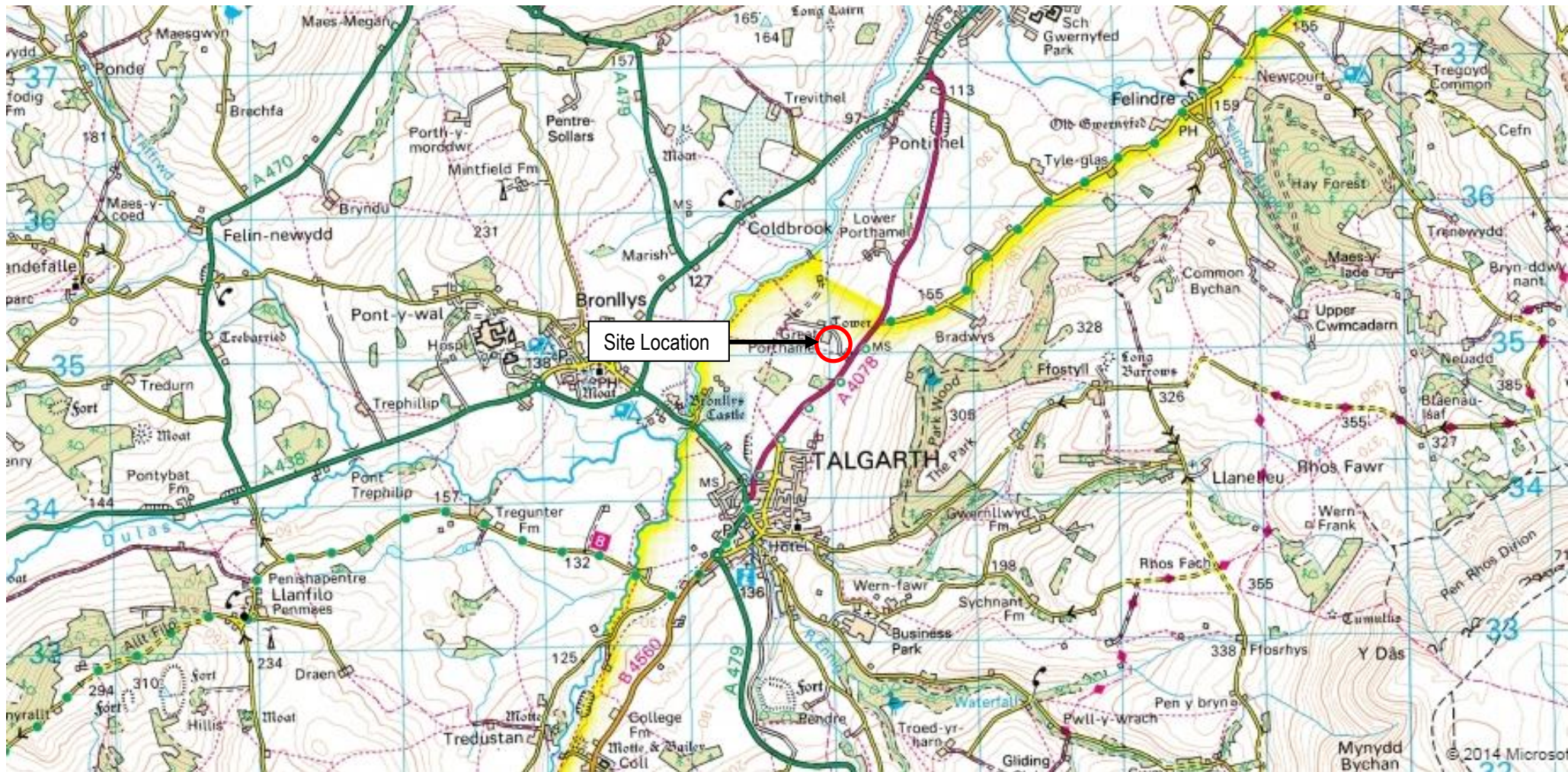
The principal potential sources of fugitive emissions to surface water, sewer and groundwater are the storage and handling of chemicals and maintenance sundries associated with the new biomethane to grid plant. Appropriate containment measures will be in place, including procedural controls and the provision of spill kits. Potential sources of fugitive emissions for the biogas upgrader include leaks of effluent from the chiller and condensate separator, oil from the compressor and effluent from the coalescer.

The inherent design of the above listed plant items will be such that the opportunity for fugitive emissions will be virtually eliminated, plus the likelihood of occurrence of leaks will be minimised by the maintenance regime that will be in place. The presence of the concrete hardstanding underneath the new plant items and the fact that the drainage system is sealed will prevent any fugitive emissions that occur from reaching the environment. Also, the compressor will be located in a compressor bund housing. The capacity of the housing will be greater than 110% of the capacity of the compressor.

Based on this assessment, the potential for the operations on site to impact soil and groundwater underlying the installation is considered to remain low.

<b>Non-permitted activities undertaken at the Installation</b>	Not applicable
<b>Plan showing activity layout</b>	Refer to Figure A2, Annex A
<b>Environmental Risk Assessment</b>	See Main Application Document SOL0614GP02 (2014 variation) See attached Application Supporting Document SOL_21_P001_GPB Annex C - ERA

## Annex A – Figures



1. Do not scale off this drawing
2. All dimensions to be confirmed on site
3. This drawing is copyright of Sol Environment Ltd
4. This drawing is to be read in conjunction with relevant consultant drawings and specifications

Rev: 0  
Date: SEP 14  
Desc: Original

Client: GP BIOTEC LTD  
Project: GREAT PORTHAMEL AD PLANT PERMIT VARIATION  
Drawing Title: SITE LOCATION

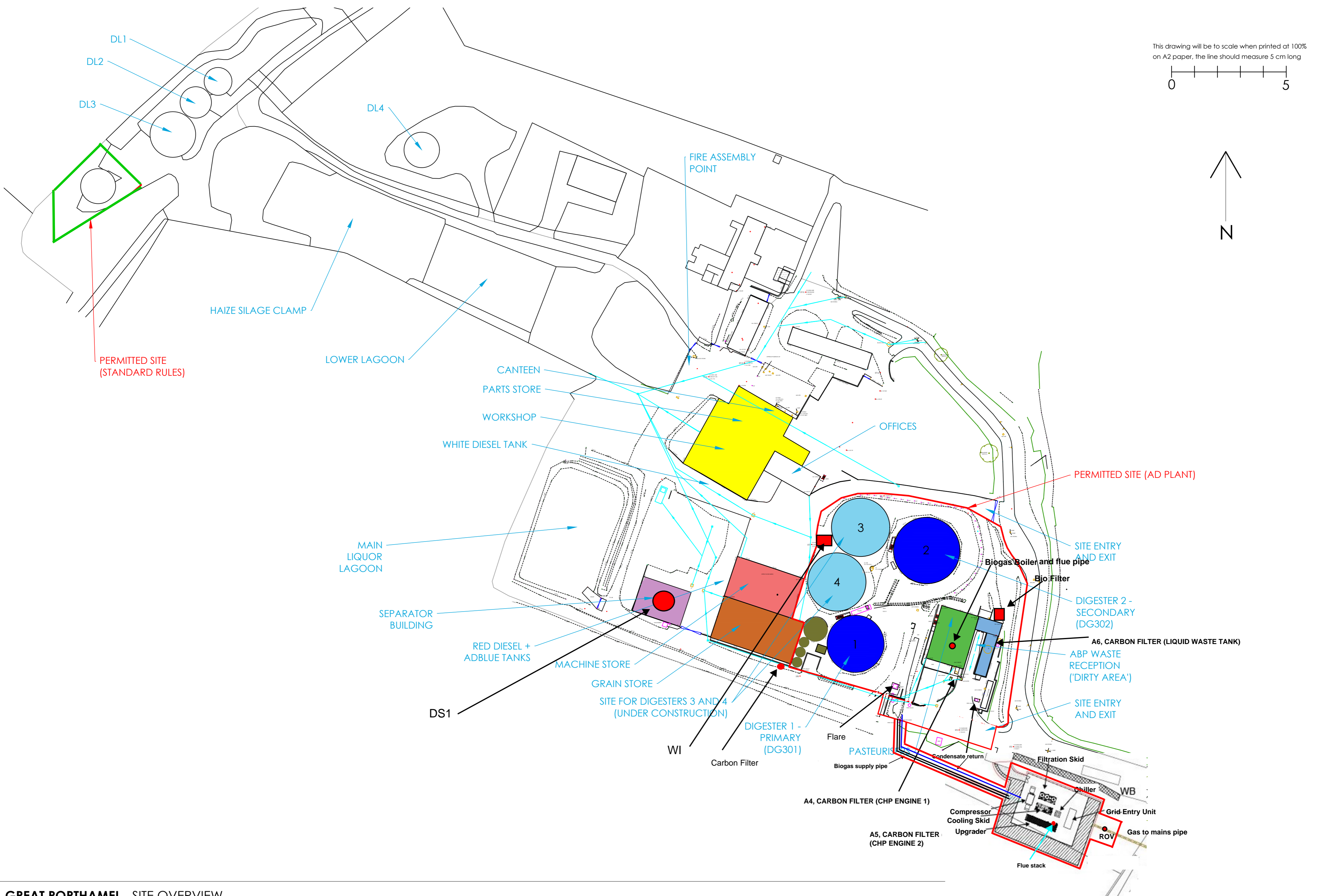
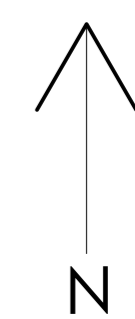
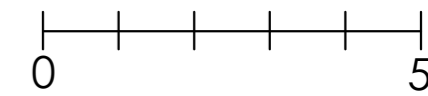
Job No: SOL0614GP02  
Date: SEPT 14  
Drawn By: STEVE BUTLER

Drawing No: GP01  
Revision: 0  
Scale: NTS



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[www.sol-environment.co.uk](http://www.sol-environment.co.uk)

This drawing will be to scale when printed at 100% on A2 paper, the line should measure 5 cm long

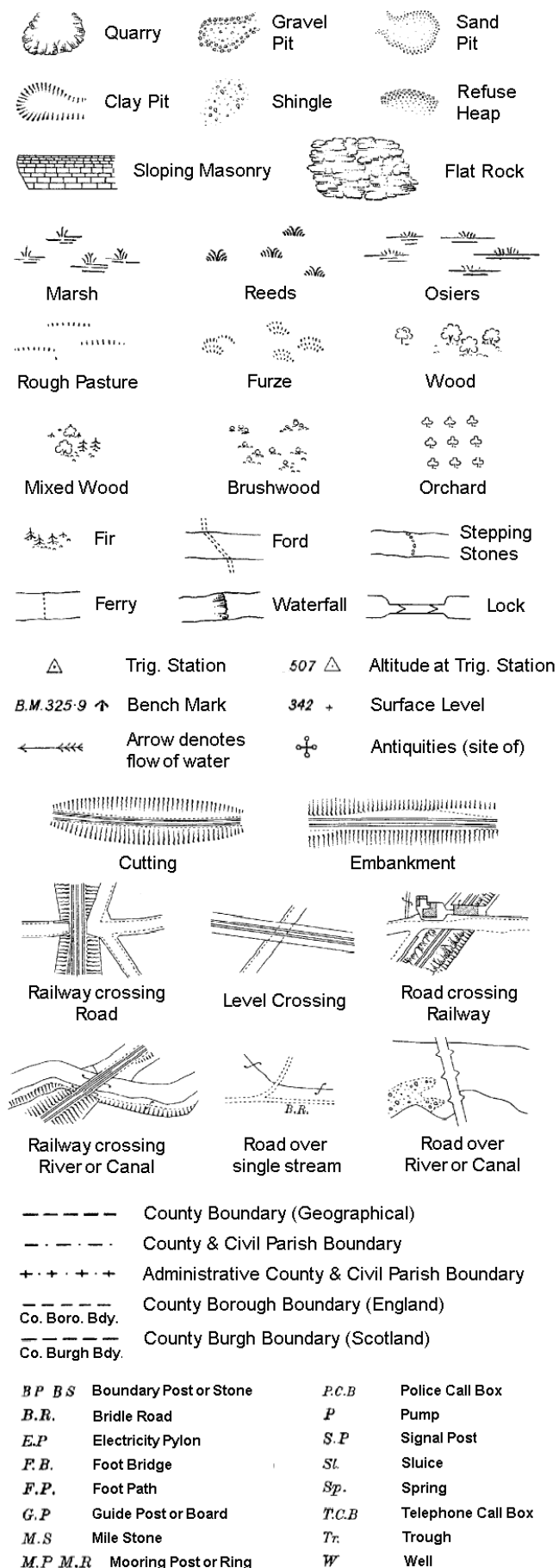




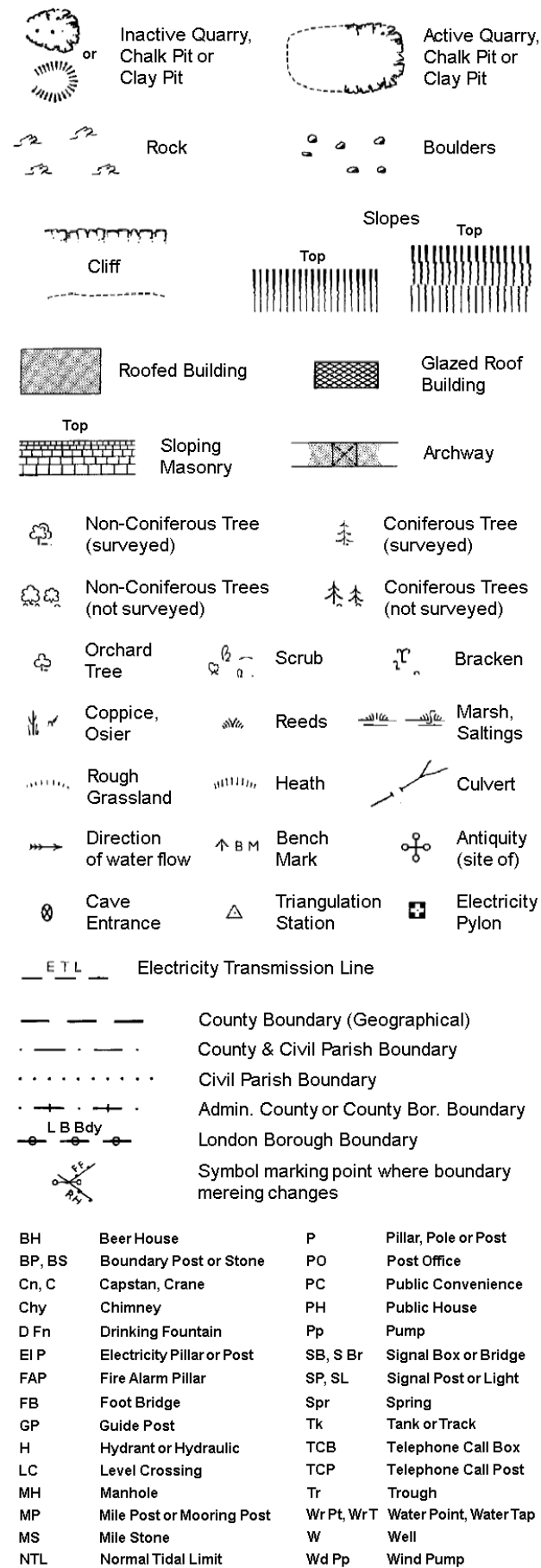
## Annex B – Historical Maps 2011 and 2021

## Historical Mapping Legends

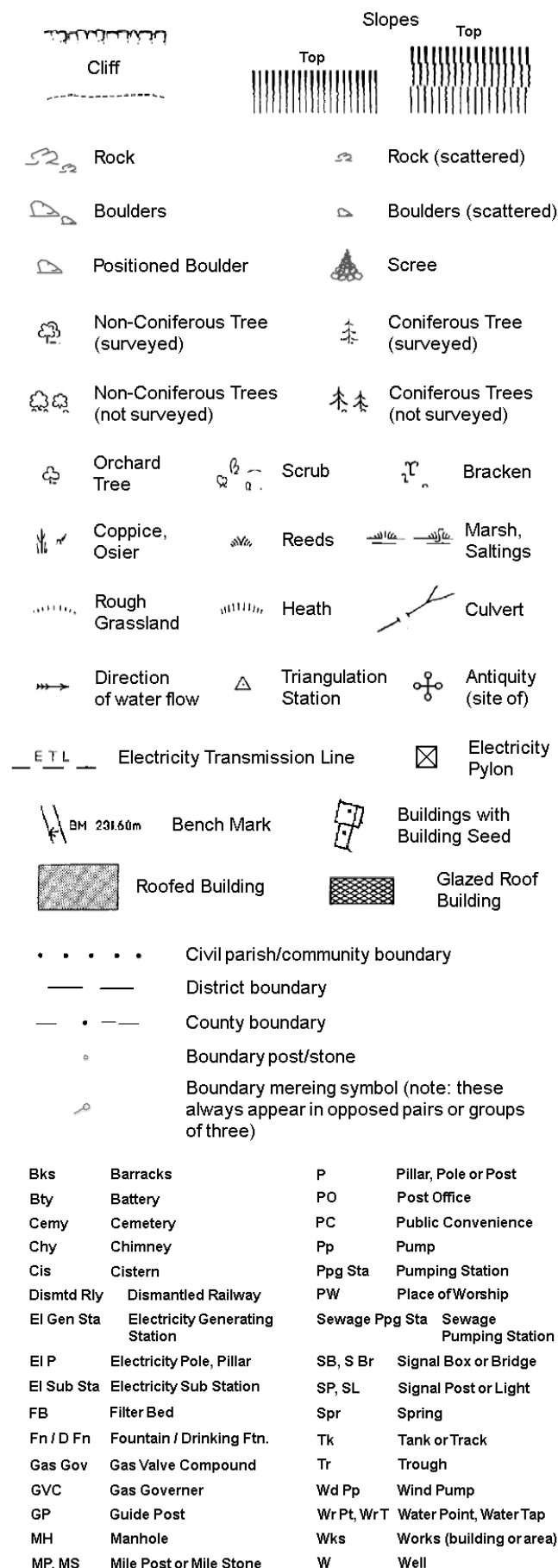
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



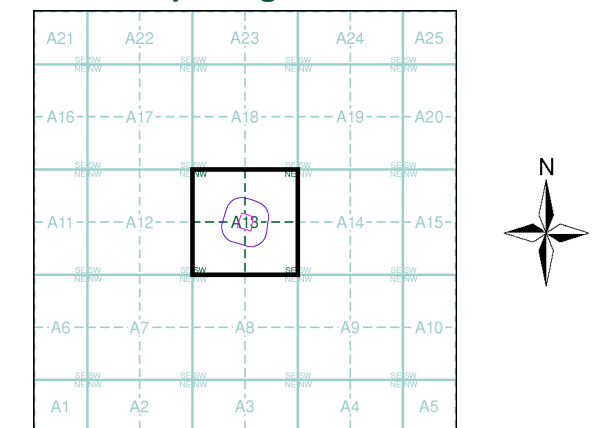
## Large-Scale National Grid Data 1:2,500 and 1:1,250



### Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Brecknockshire	1:2,500	1888	2
Brecknockshire	1:2,500	1904	3
Ordnance Survey Plan	1:2,500	1975	4
Additional SIMs	1:2,500	1985 - 1986	5
Large-Scale National Grid Data	1:2,500	1995	6
Large-Scale National Grid Data	1:2,500	1996	7

## Historical Map - Segment A13



## Order Details

Order Number: 33863924\_1\_1  
Customer Ref: GP Services  
National Grid Reference: 316010, 235040  
Slice: A  
Site Area (Ha): 0.78  
Search Buffer (m): 100

## Site Details

Great Porthamel, Talgarth, BRECON, Powys, LD3 0DL



## Brecknockshire

Published 1888

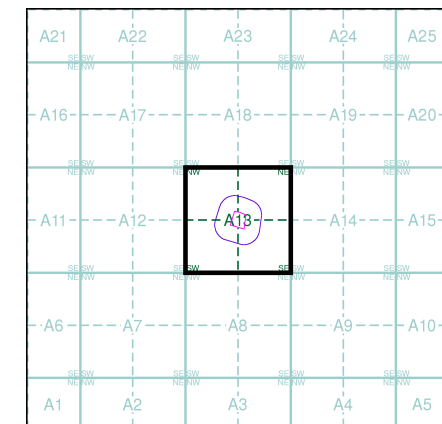
Source map scale - 1:2,500

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)

023_09 1888 1:2,500	023_10 1888 1:2,500
023_13 1888 1:2,500	023_14 1888 1:2,500

### Historical Map - Segment A13

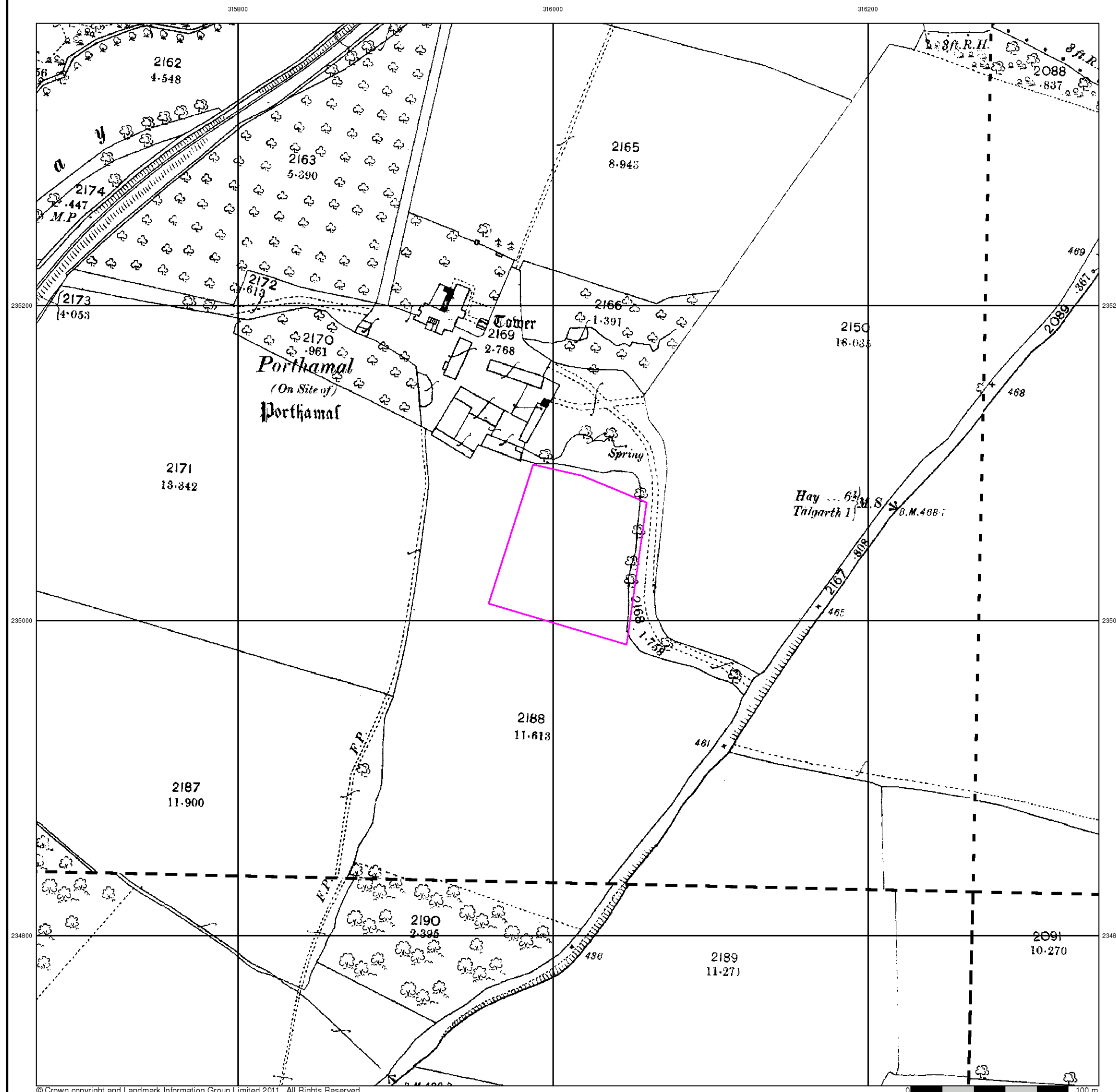


### Order Details

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 National Grid Reference: 316010, 235040  
 Slice: A  
 Site Area (Ha): 0.78  
 Search Buffer (m): 100

### Site Details

Great Porthamel, Talgarth, BRECON, Powys, LD3 0DL







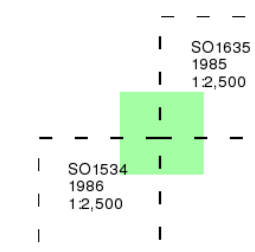
## Additional SIMs

**Published 1985 - 1986**

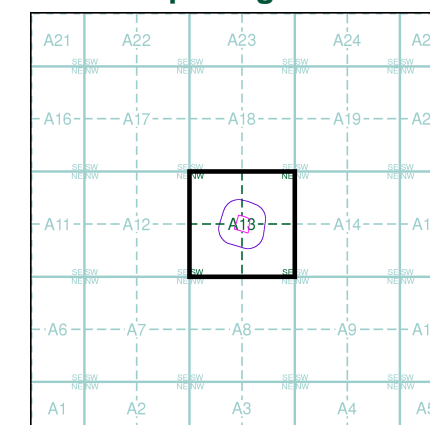
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)



## Historical Map - Segment A13

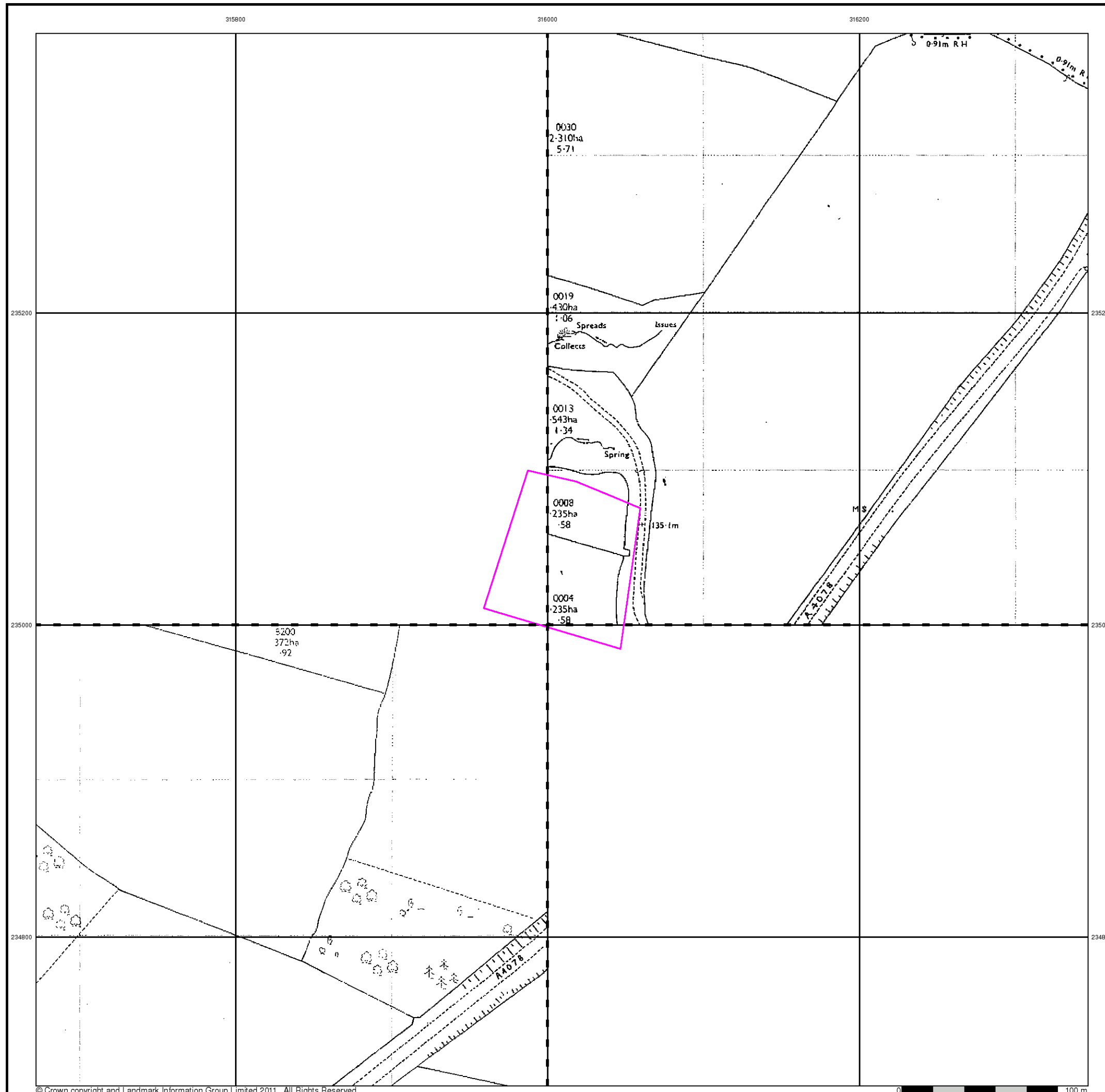


## Order Details

Order Number: 33863924\_1\_1  
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 National Grid Reference: 316010, 235040  
 Slice: A  
 Site Area (Ha): 0.78  
 Search Buffer (m): 100

## Site Details

Great Porthamel, Talgarth, BRECON, Powys, LD3 0DL



## Large-Scale National Grid Data

Published 1995

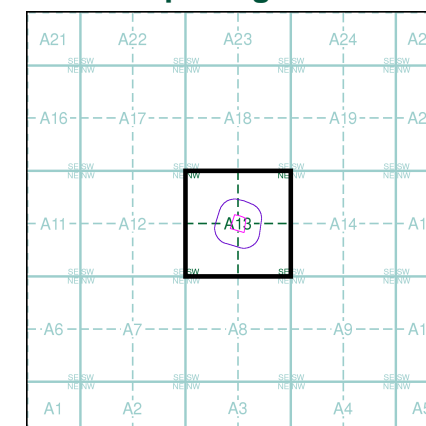
Source map scale - 1:2,500

'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)

SO1535	SO1635
1995	1995
1:2,500	1:2,500
SO1534	SO1634
1995	1995
1:2,500	1:2,500

### Historical Map - Segment A13

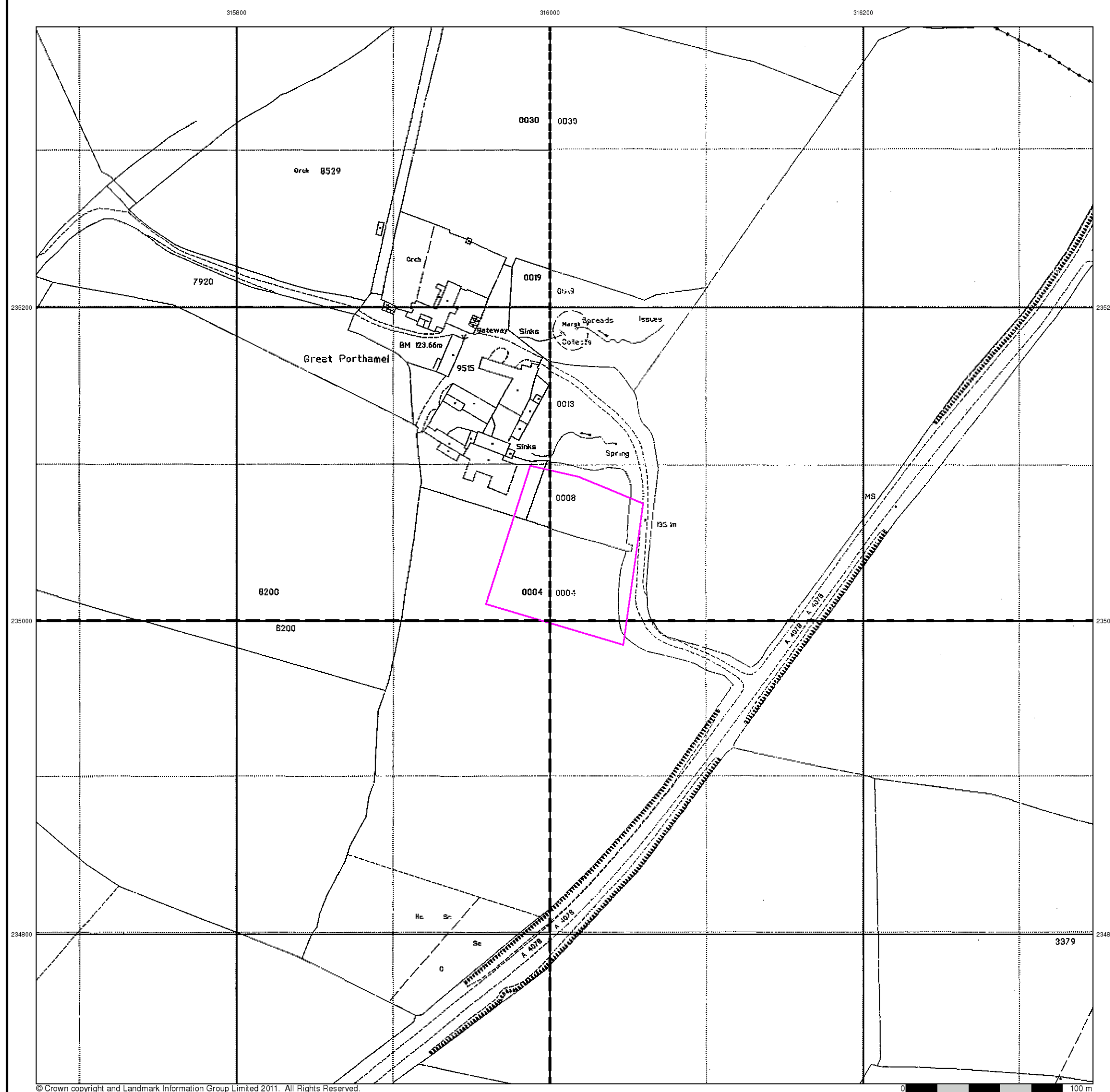


### Order Details

Order Number: 33863924\_1\_1  
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 Slice: A  
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 Search Buffer (m): 100

### Site Details

Great Porthamel, Talgarth, BRECON, Powys, LD3 0DL



## Large-Scale National Grid Data

Published 1996

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.

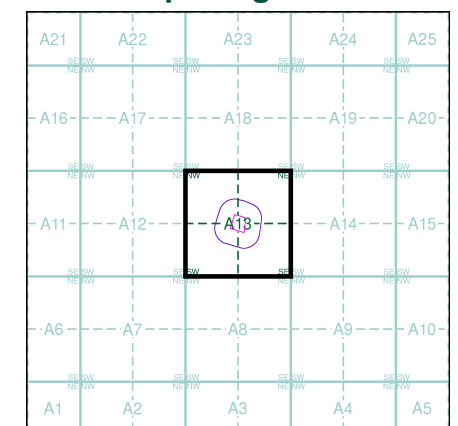
### Map Name(s) and Date(s)

SO1535
1996
1:2,500

SO1534
1996
1:2,500

### Historical Map - Segment A13

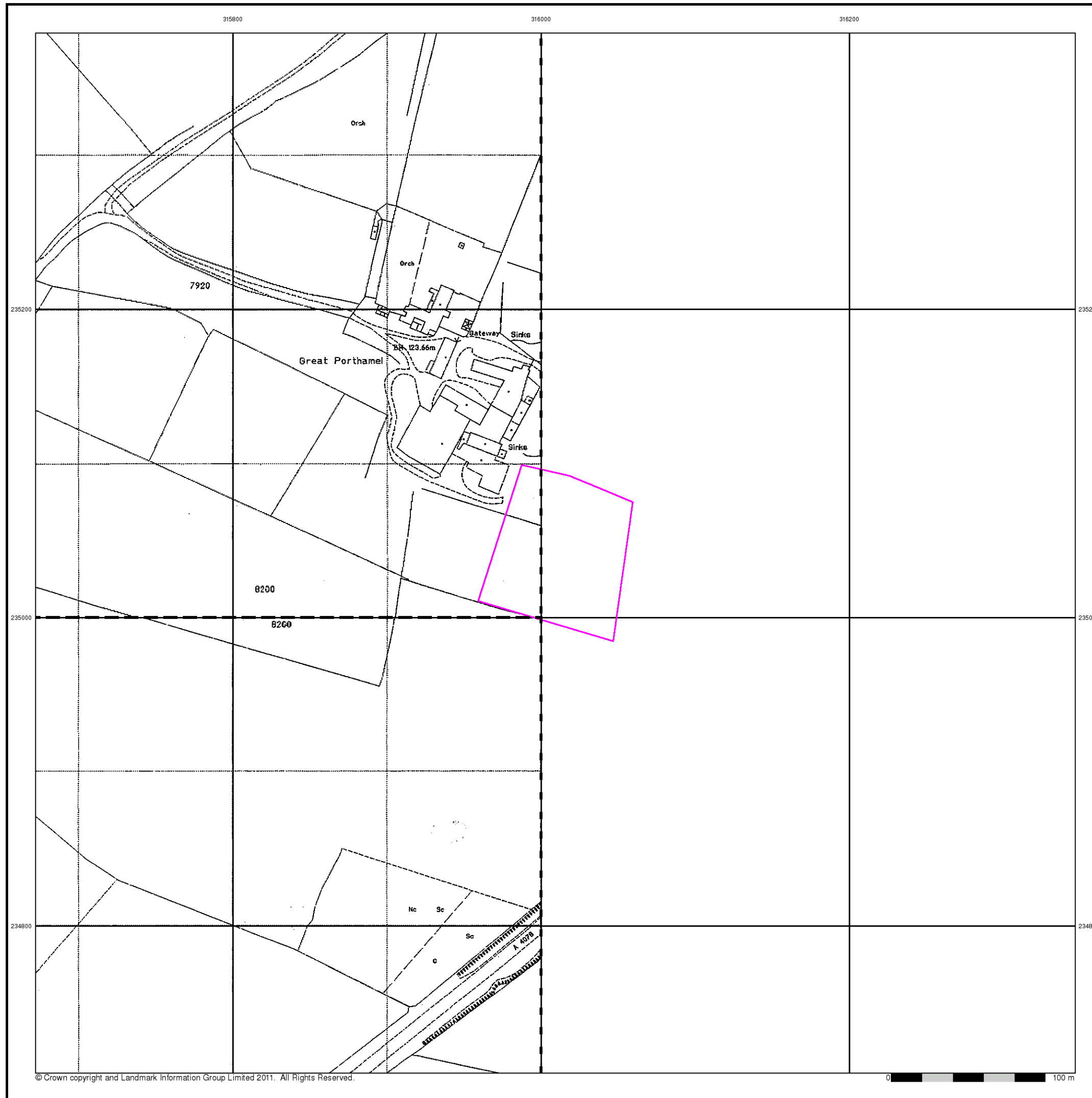


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 Site Area (Ha): 0.78  
 Search Buffer (m): 100

### Site Details

Great Porthamel, Talgarth, BRECON, Powys, LD3 0DL



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

County Boundary (Geographical)

County & Civil Parish Boundary

Administrative County & Civil Parish Boundary

County Borough Boundary (England)

County Borough Boundary (Scotland)

Rural District Boundary

Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry

Gravel Pit

Sand Pit

Disused Pit or Quarry

Refuse or Slag Heap

Lake, Loch or Pond

Dunes

Boulders

Coniferous Trees

Non-Coniferous Trees

Orchard

Scrub

Coppice

Bracken

Heath

Rough Grassland

Marsh

Reeds

Saltings

Building

Glasshouse

Sloping Masonry

Pylon

Electricity Transmission Line

Pole

Cutting

Embankment

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  
Shown only when not coincident with other boundaries

Civil Parish  
Shown alternately when coincidence of boundaries occurs

BP, BS Boundary Post or Stone

Ch Church

CH Club House

F E Sta Fire Engine Station

FB Foot Bridge

Fn Fountain

GP Guide Post

MP Mile Post

MS Mile Stone

Pol Sta Police Station

PO Post Office

PC Public Convenience

PH Public House

SB Signal Box

Spr Spring

TCB Telephone Call Box

TCP Telephone Call Post

W 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

Overhead detail

Multi-track railway

Single track railway

County boundary (England only)

Civil, parish or community boundary

District, Unitary, Metropolitan, London Borough boundary

Constituency boundary

Area of wooded vegetation

Non-coniferous trees

Non-coniferous trees (scattered)

Coniferous trees

Coniferous trees (scattered)

Positioned tree

Orchard

Coppice or Osiers

Rough Grassland

Heath

Scrub

Marsh, Salt Marsh or Reeds

Water feature

Flow arrows

**MHW(S)** Mean high water (springs)

**MLW(S)** Mean low water (springs)

Telephone line (where shown)

Electricity transmission line (with poles)

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

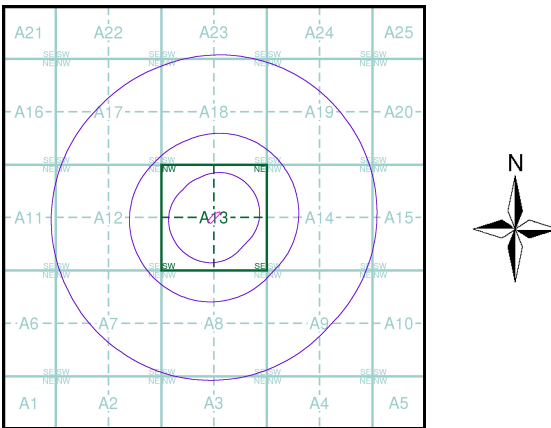
General Building

Important Building

**sol**  
**environment**  
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Somerset	1:10,560	1884 - 1886	2
Wiltshire	1:10,560	1890	3
Wiltshire	1:10,560	1901	4
Somerset	1:10,560	1904	5
Wiltshire	1:10,560	1926	6
Wiltshire	1:10,560	1926	7
Somerset	1:10,560	1932	8
Somerset	1:10,560	1938	9
Wiltshire	1:10,560	1941	10
Historical Aerial Photography	1:10,560	1947	11
Ordnance Survey Plan	1:10,000	1960 - 1961	12
Ordnance Survey Plan	1:10,000	1972 - 1973	13
Ordnance Survey Plan	1:10,000	1989	14
Ordnance Survey Plan	1:10,000	1993	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2014	17

Historical Map - Slice A



Order Details

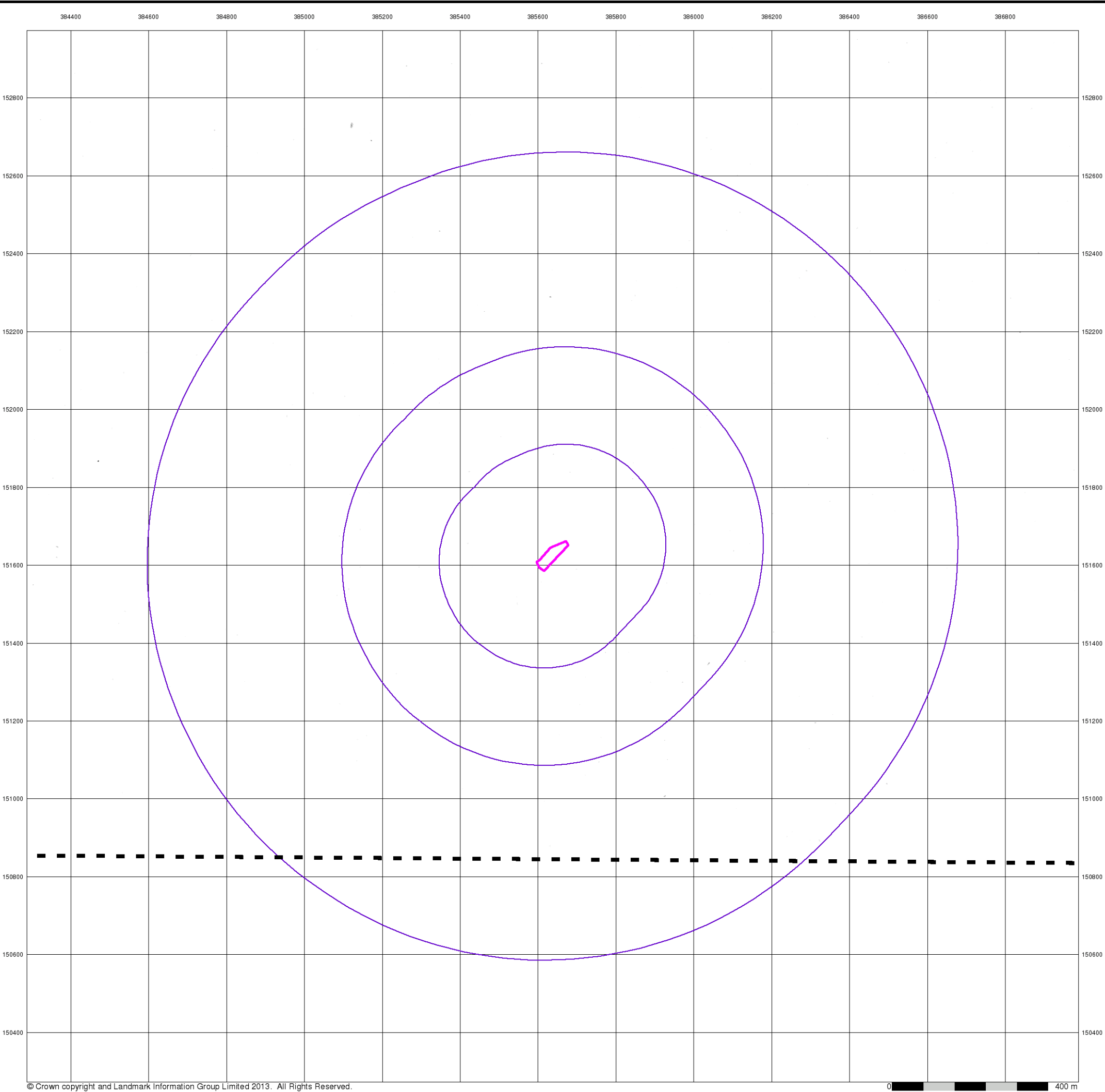
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Customer Ref: SOL0714WM01  
National Grid Reference: 385640, 151620  
Slice: A  
Site Area (Ha): 0.23  
Search Buffer (m): 1000

Site Details

Waste Matters, Brook Lane, WESTBURY, Wiltshire, BA13 4EN

**Landmark**  
Information Group

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



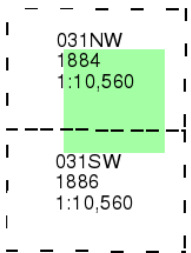
© Crown copyright and Landmark Information Group Limited 2013. All Rights Reserved.



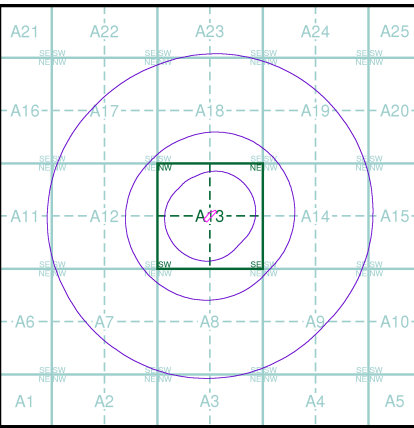
**Published 1884 - 1886**  
**Source map scale - 1:10,560**

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

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

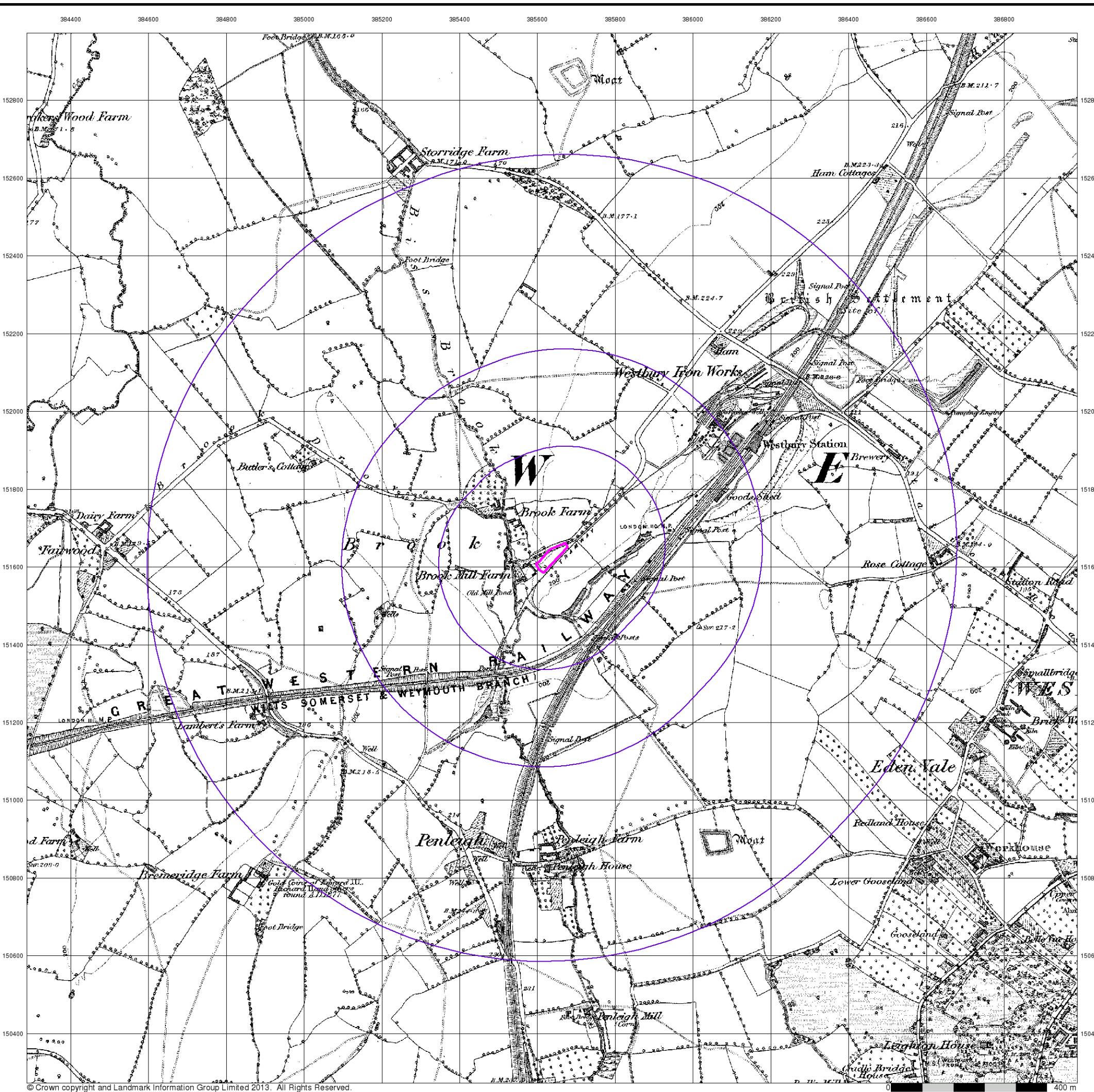
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Customer Ref: SOL0714WM01  
National Grid Reference: 385640, 151620  
Slice: A  
Site Area (Ha): 0.23  
Search Buffer (m): 1000

**Site Details**

Waste Matters, Brook Lane, WESTBURY, Wiltshire, BA13 4EN



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Fax: 0844 844 9951  
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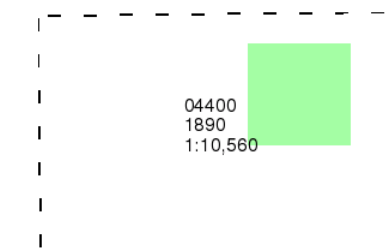
Wiltshire

Published 1890

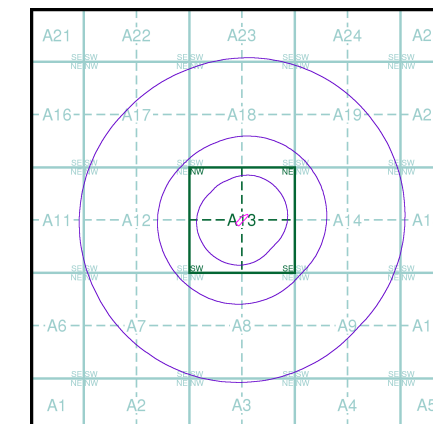
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

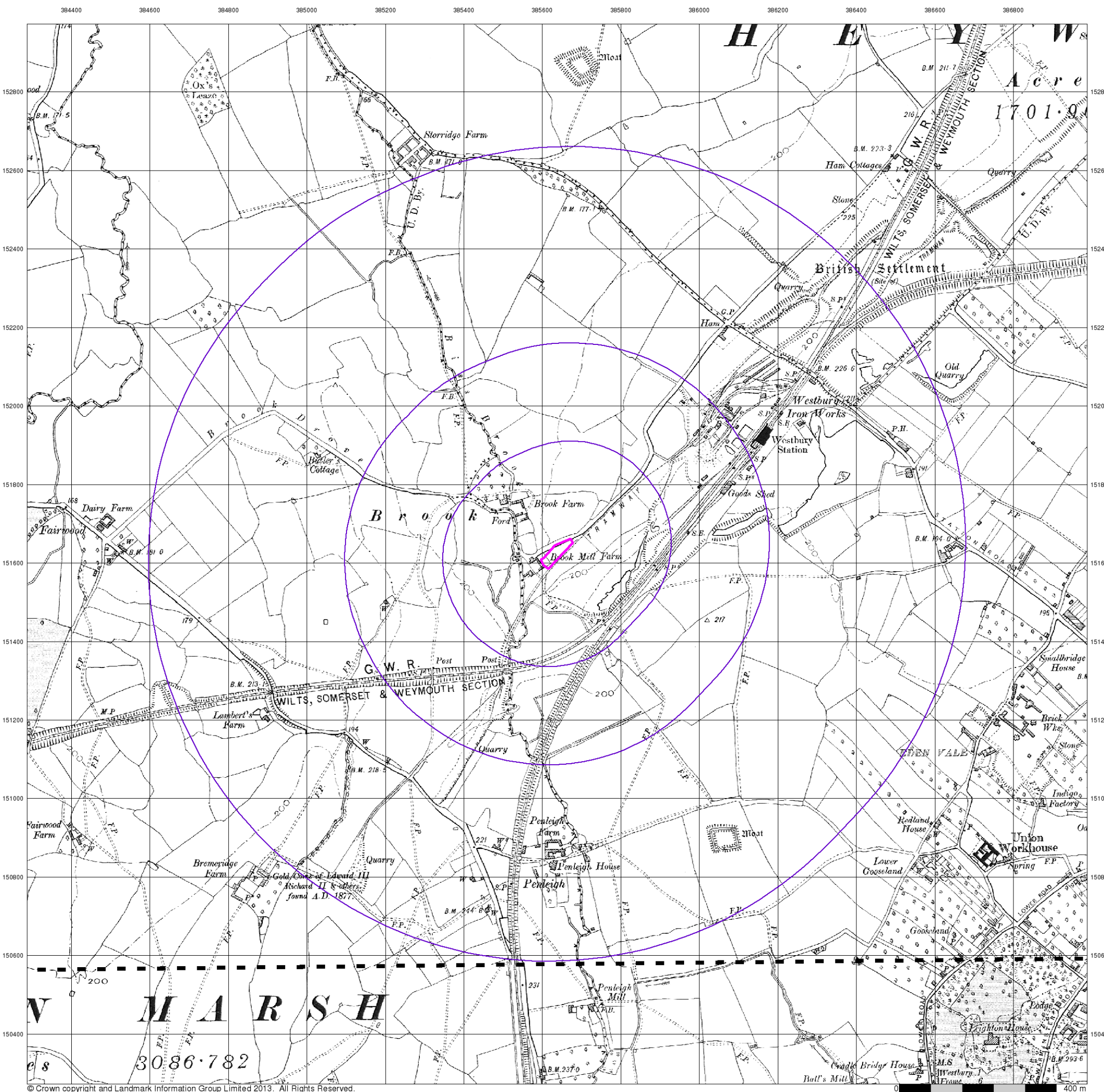
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Site Area (Ha): 0.23  
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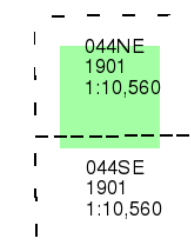
Wiltshire

Published 1901

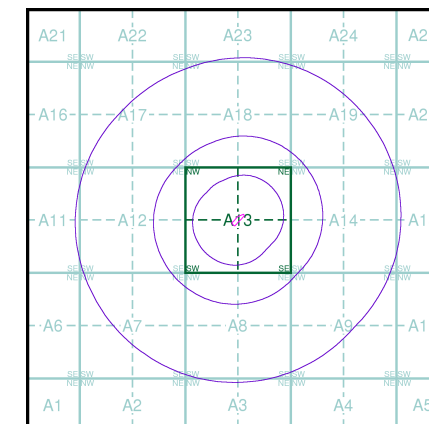
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

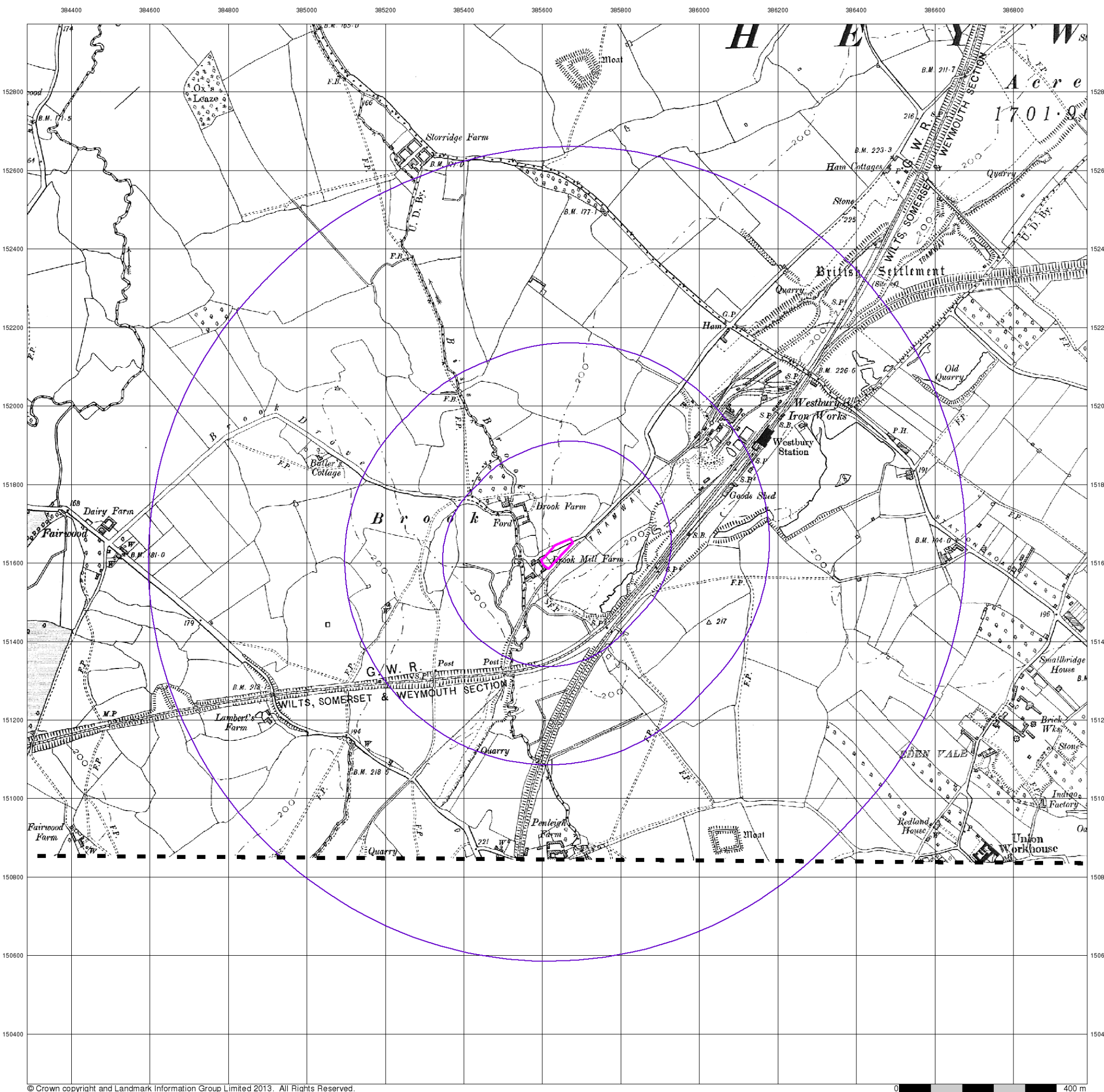
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0 400 m



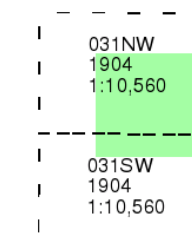
**Somerset**

**Published 1904**

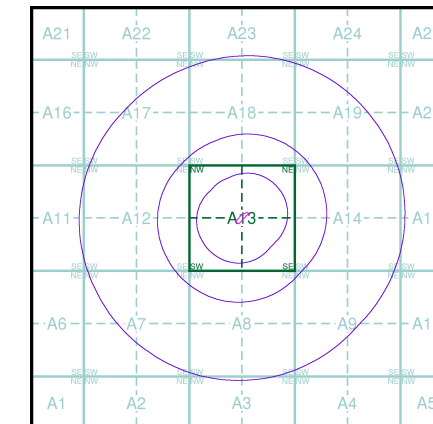
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

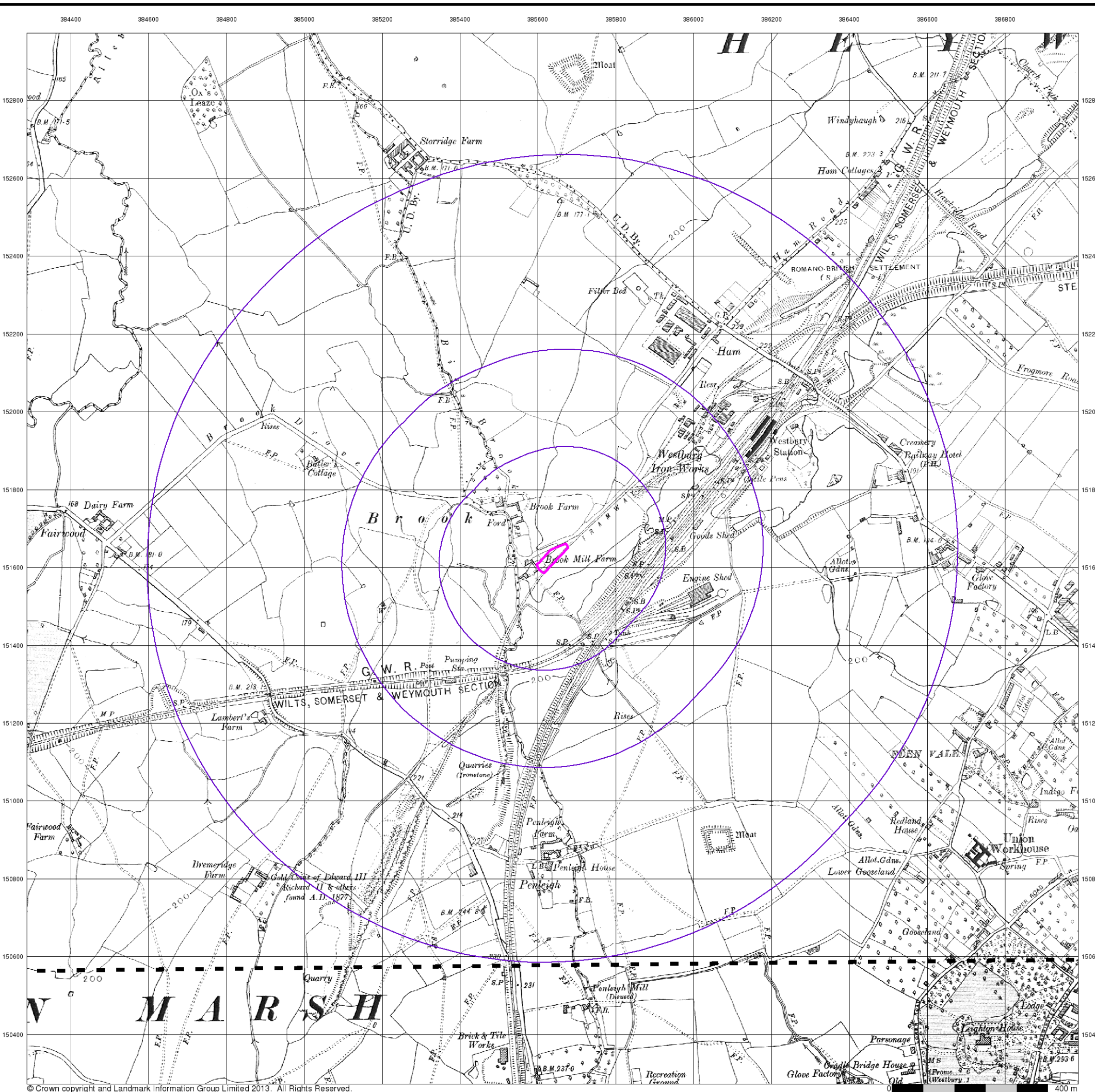
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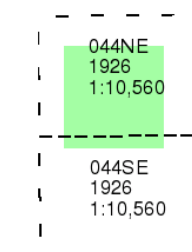
Wiltshire

Published 1926

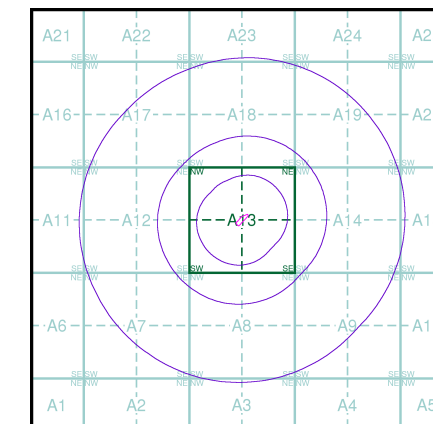
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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



Order Details

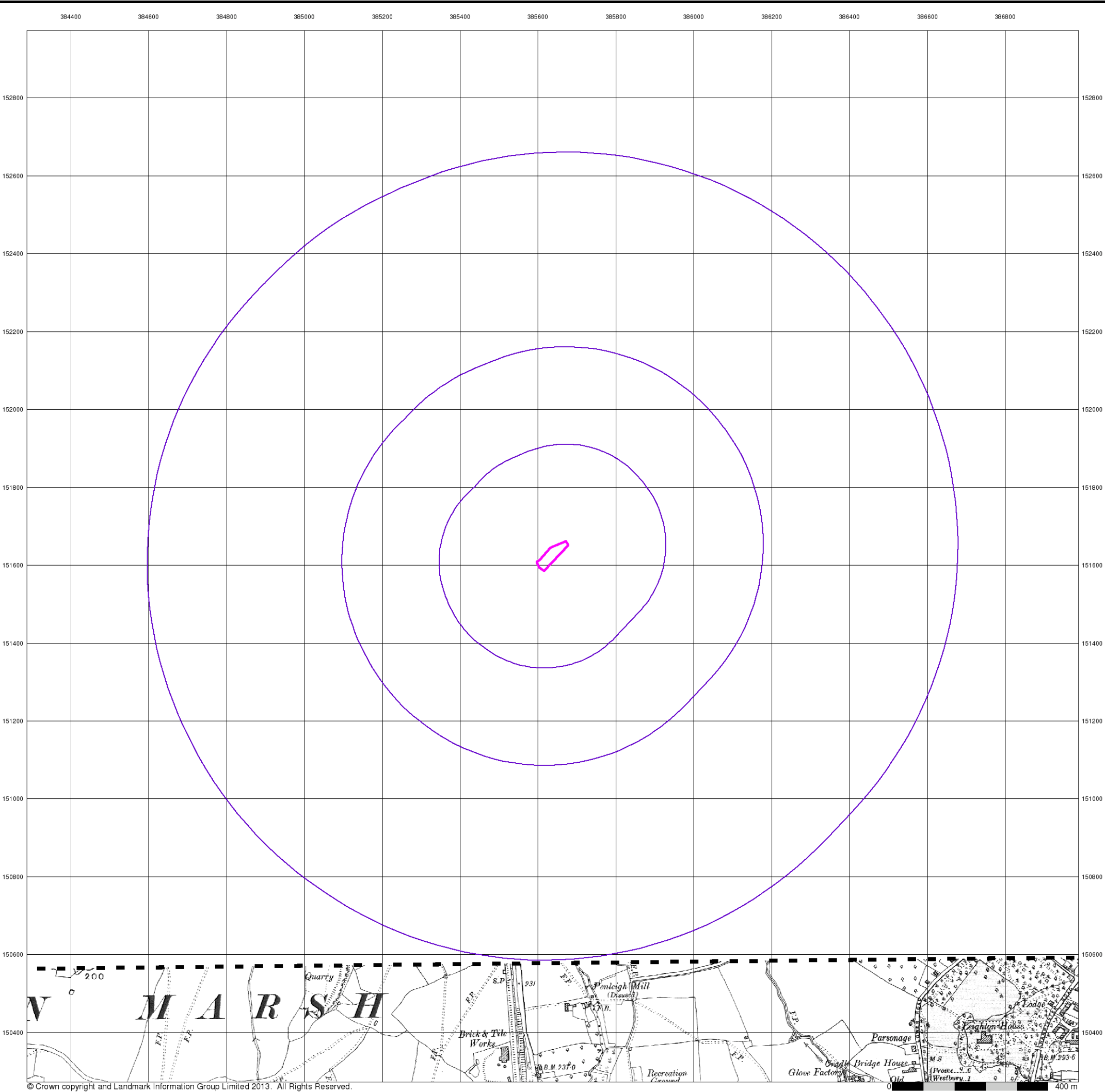
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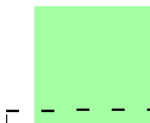
Wiltshire

Published 1926

Source map scale - 1:10,560

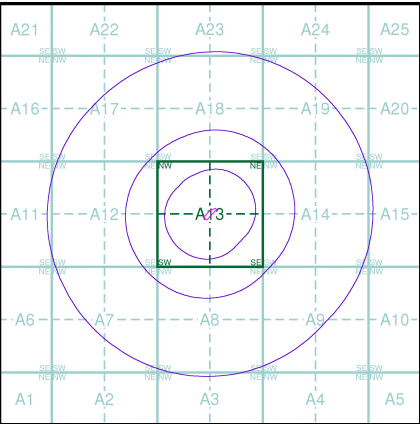
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Map Name(s) and Date(s)



044SE  
1926  
1:10,560

Historical Map - Slice A



Order Details

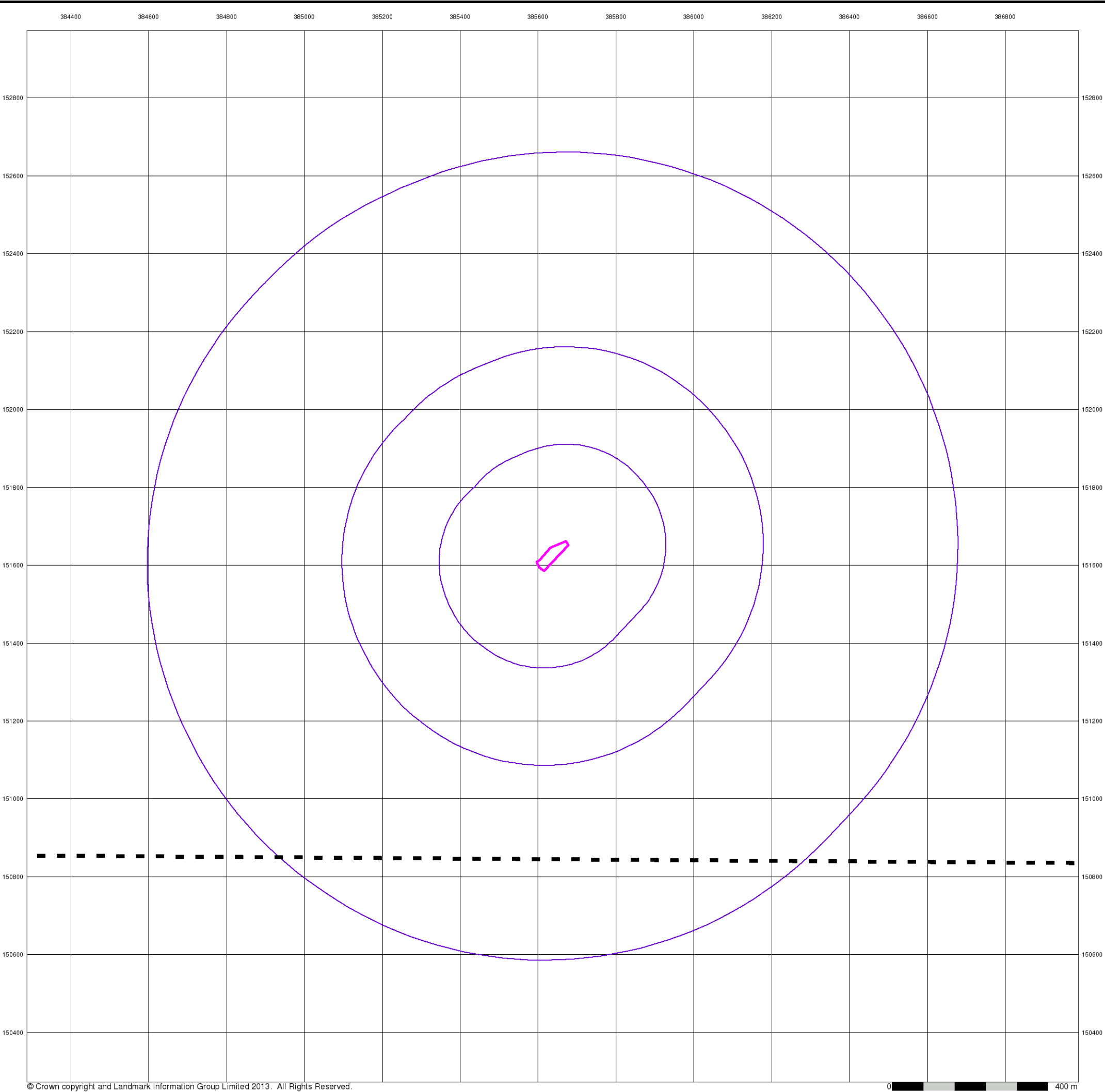
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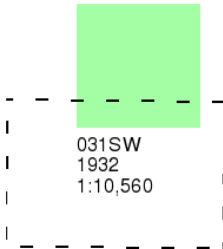
**Somerset**

**Published 1932**

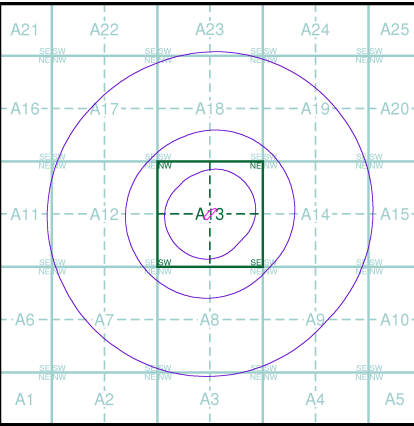
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### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

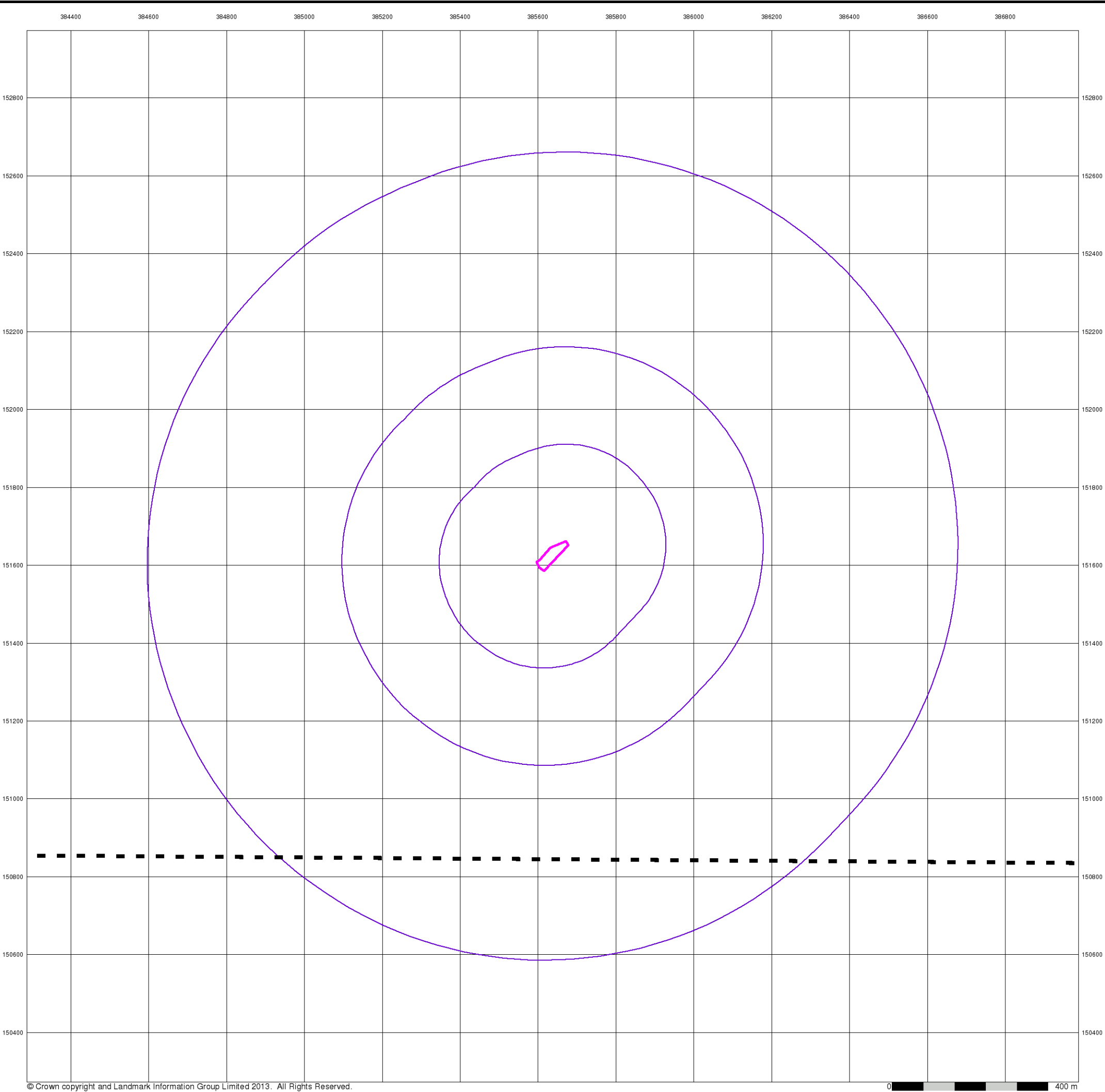
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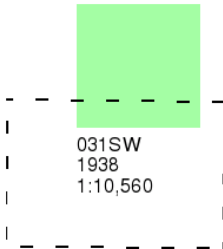
Somerset

Published 1938

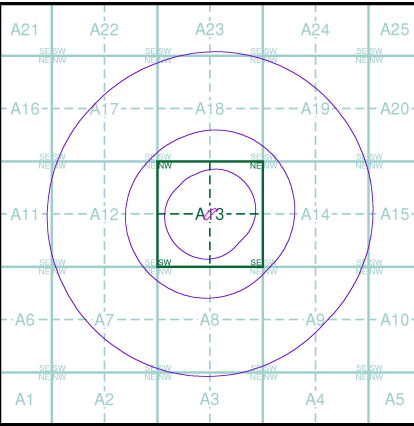
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

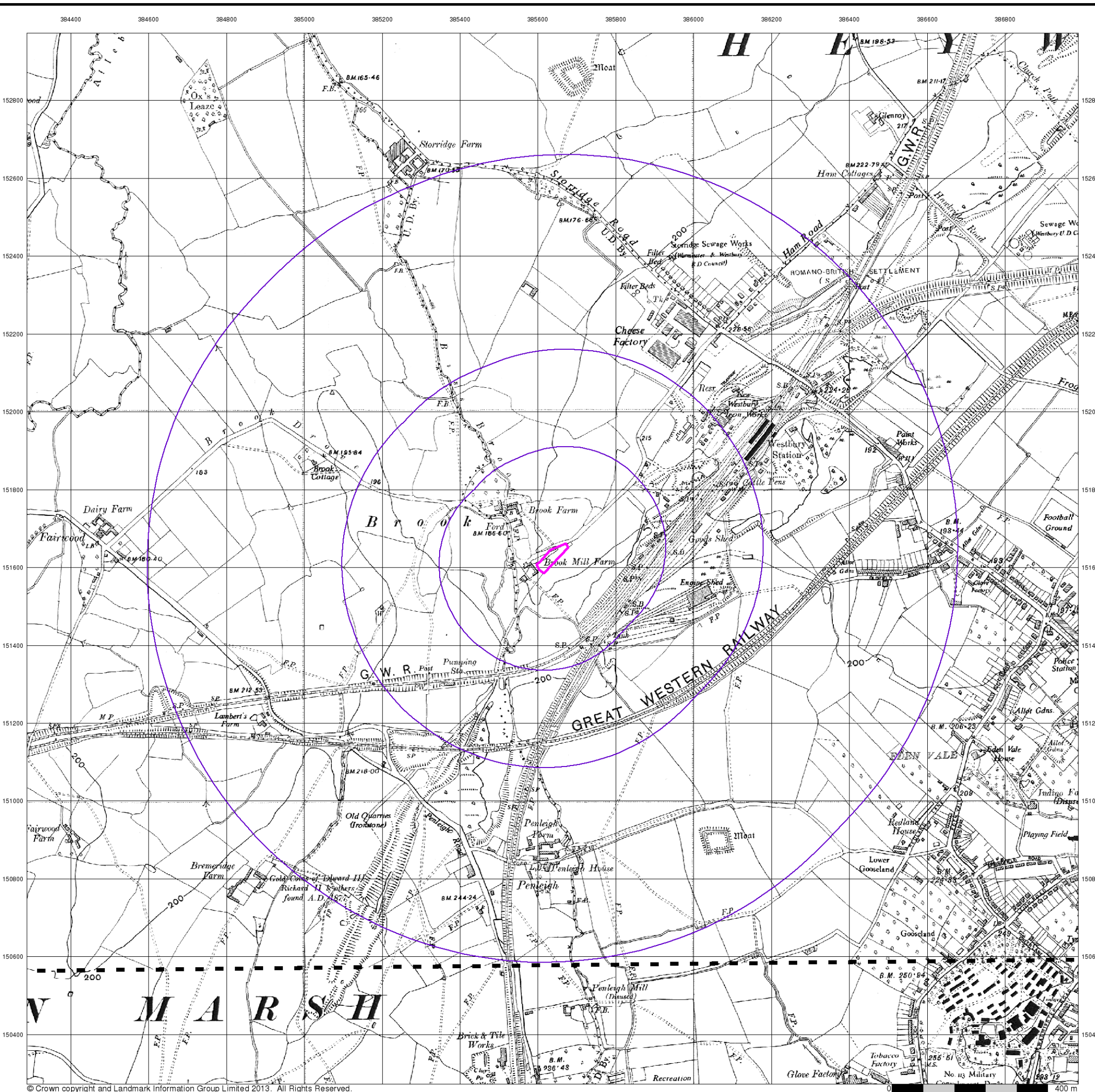
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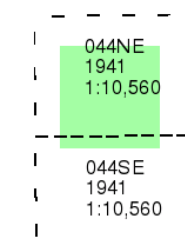
**Wiltshire**

**Published 1941**

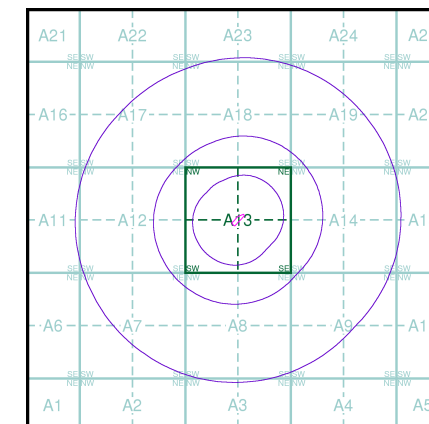
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**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

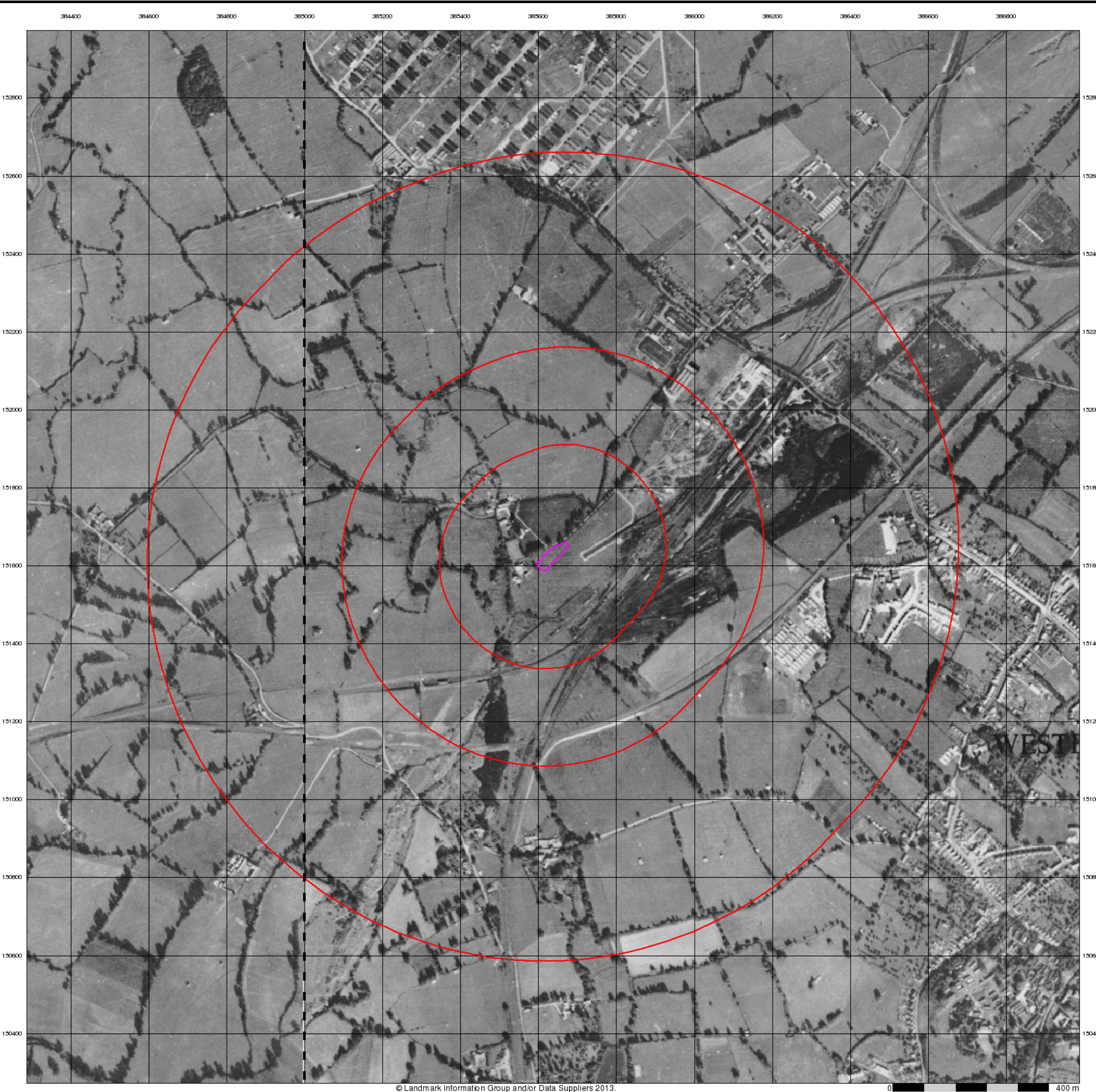
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0 400 m



# environment

## Historical Aerial Photography

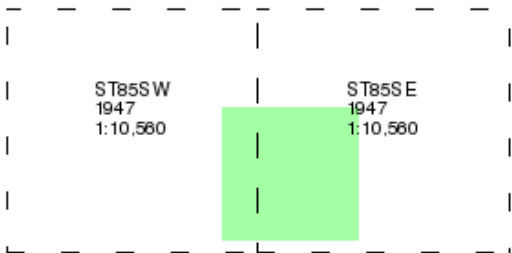
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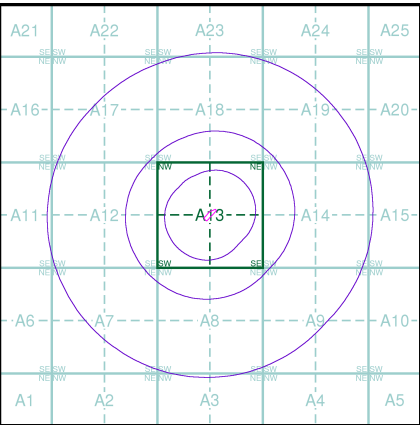
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the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

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### Map Name(s) and Date(s)



### Historical Aerial Photography - Slice A



### Order Details

Order Number: 58764213\_1\_1  
Customer Ref: SOL0714WM01  
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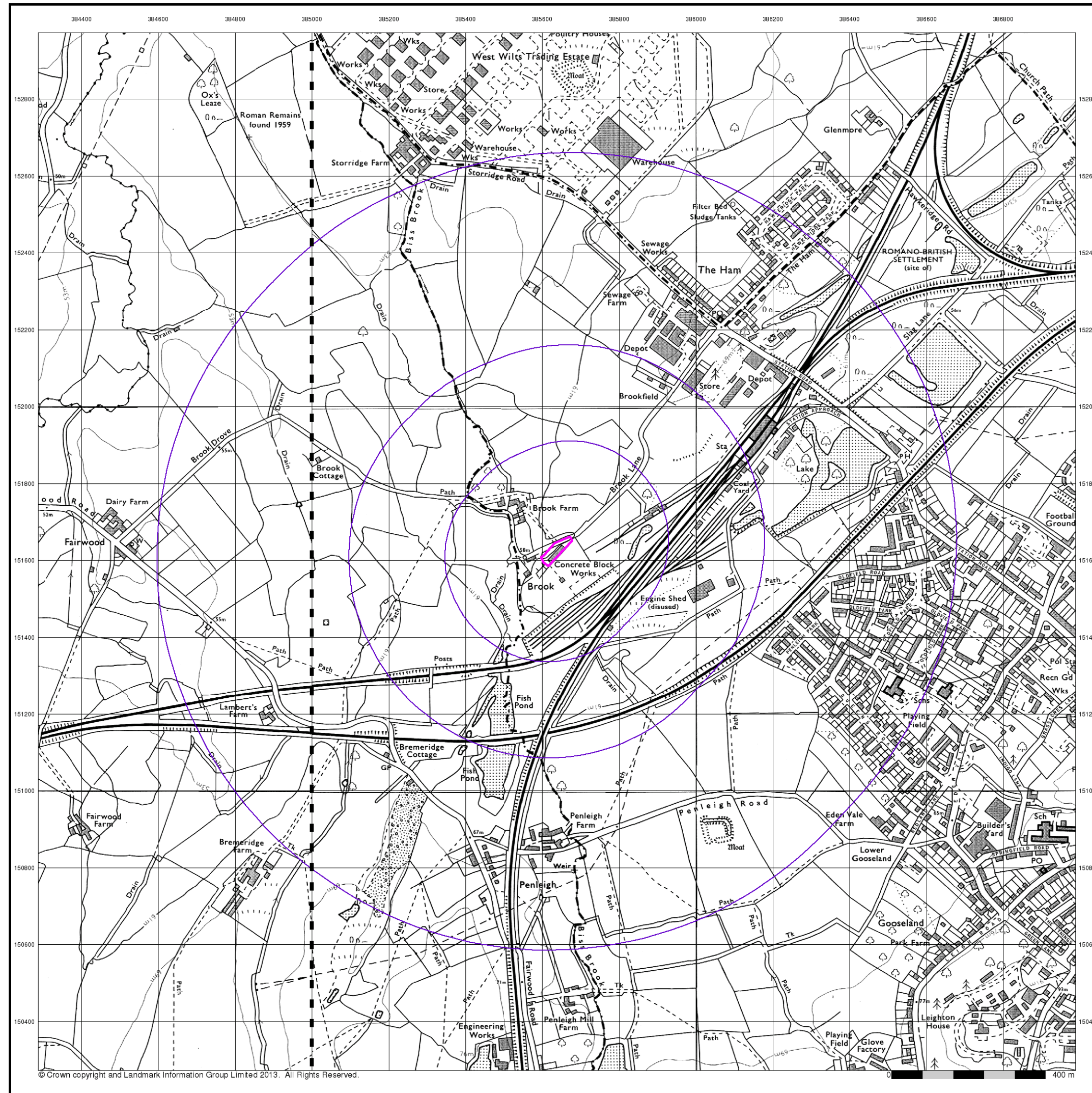
### Site Details

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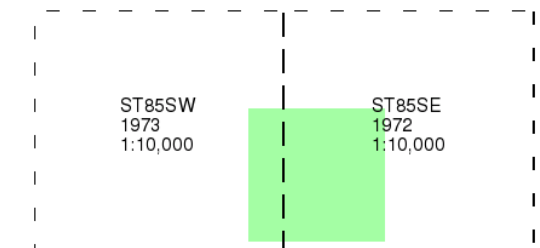
# environment Ordnance Survey Plan

Published 1972 - 1973

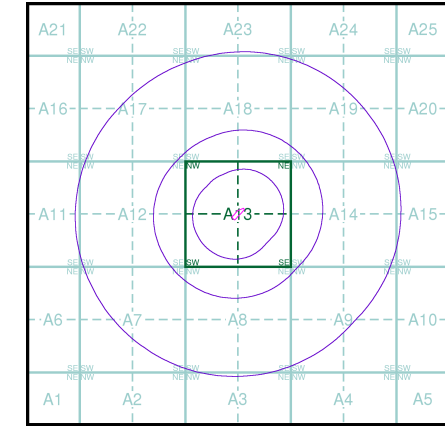
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## Map Name(s) and Date(s)



## Historical Map - Slice A



## Order Details

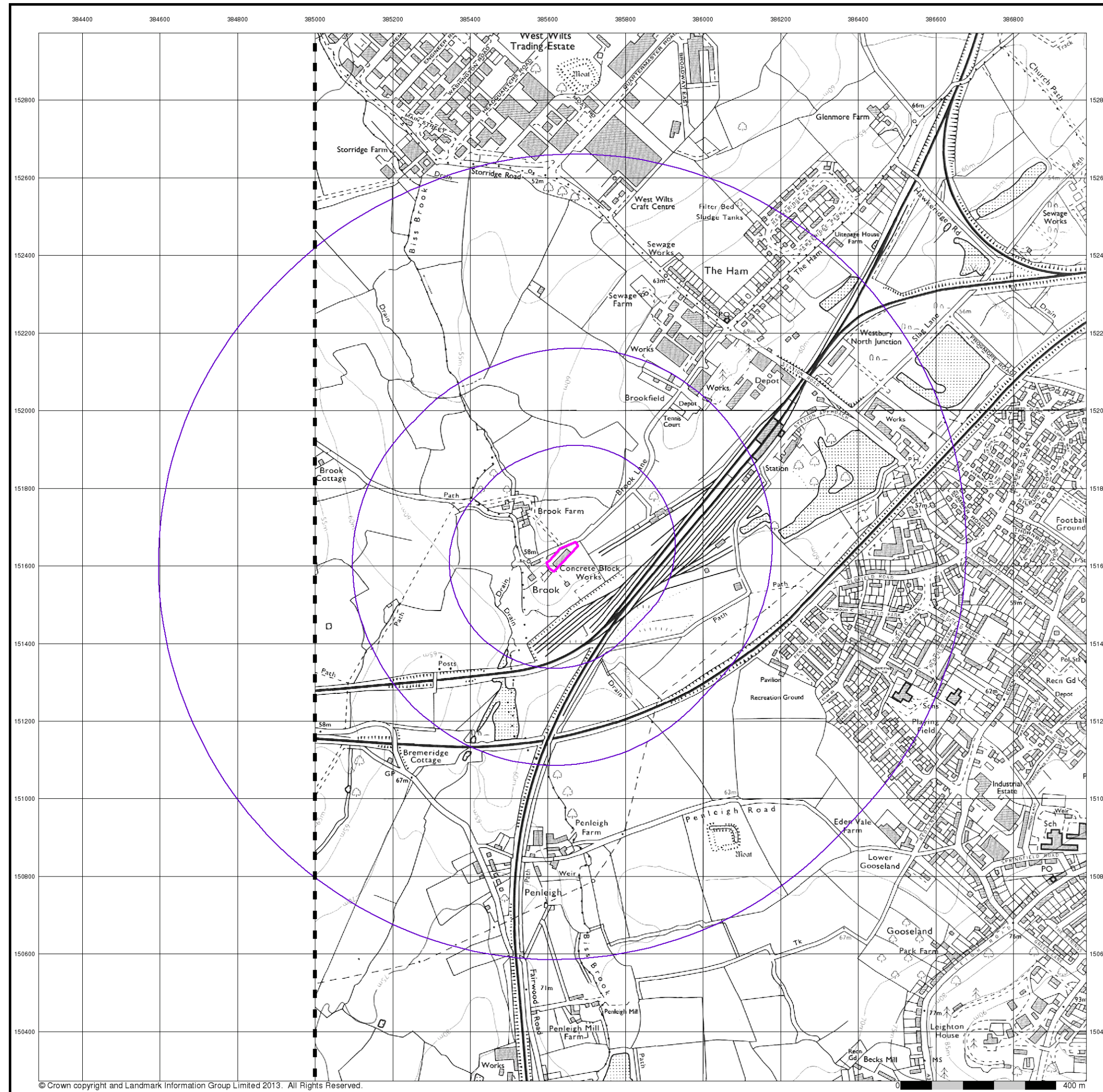
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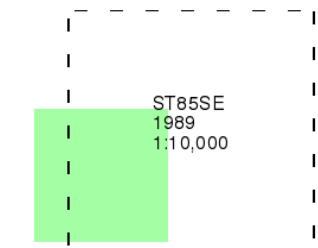
## environment Ordnance Survey Plan

Published 1989

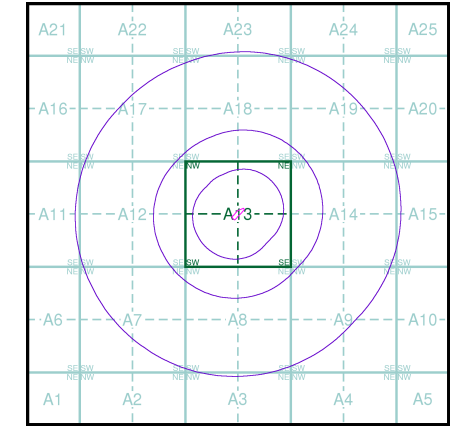
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### Historical Map - Slice A



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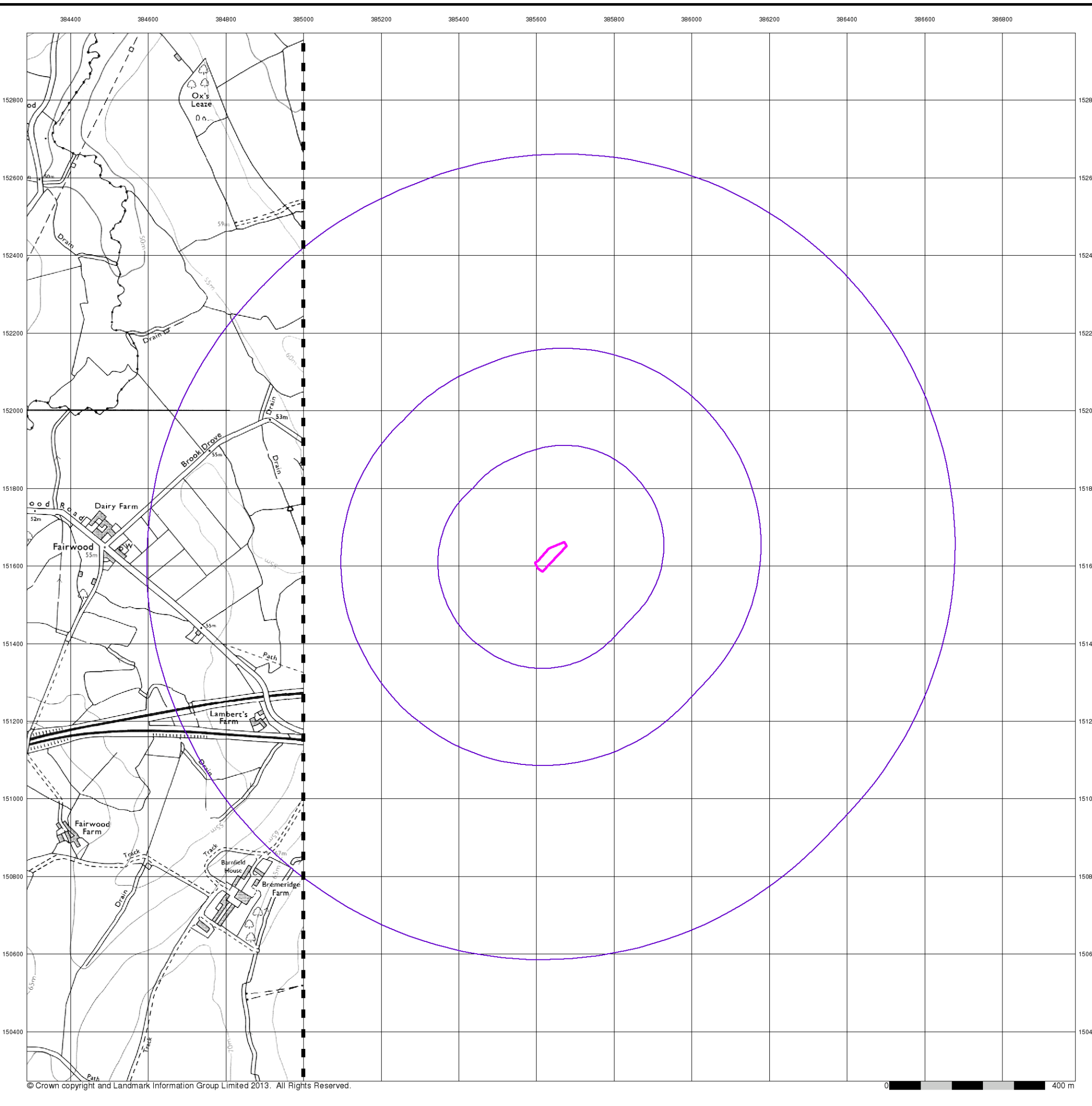
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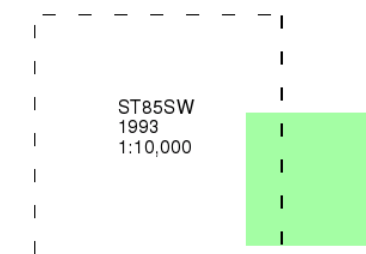
## environment Ordnance Survey Plan

Published 1993

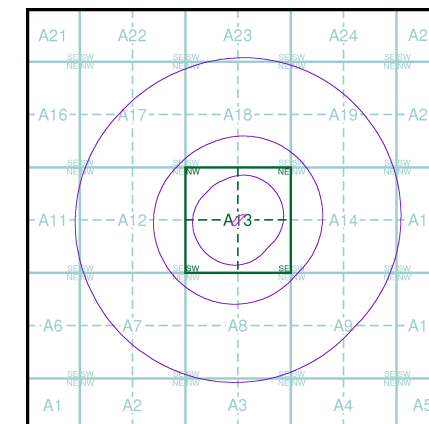
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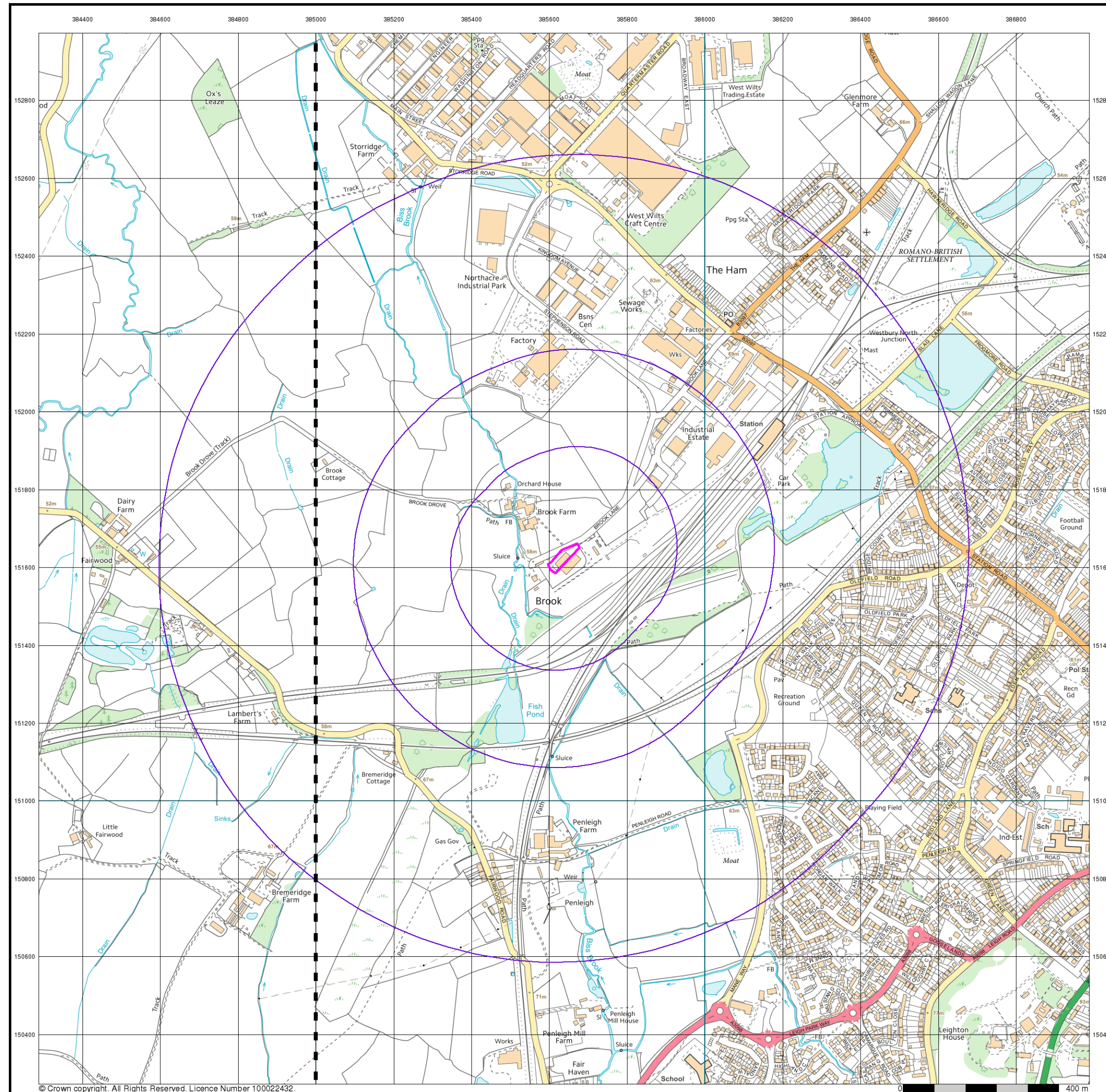
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## environment

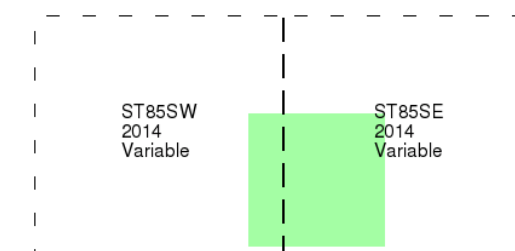
### VectorMap Local

Published 2014

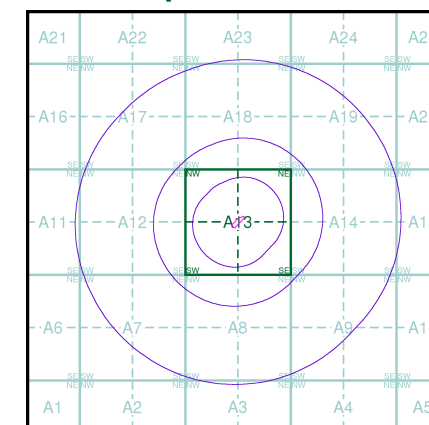
**Source map scale - 1:10,000**

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

## Map Name(s) and Date(s)



### Historical Map - Slice A



## Order Details

Order Number: 58764213\_1\_1  
Customer Ref: SOL0714WM01  
National Grid Reference: 385640, 151620  
Slice: A  
Site Area (Ha): 0.23  
Search Buffer (m): 1000

## Site Details

Waste Matters, Brook Lane, WESTBURY, Wiltshire, BA13 4EN



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

**Map date:** 1975

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright 1975  
 Levelled 1971

Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright 1975  
 Levelled 1953

Surveyed N/A  
 Revised 1973  
 Edition N/A  
 Copyright 1975  
 Levelled 1971

Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright 1975  
 Levelled 1953



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Production date: 08 December 2021

Map legend available at:  
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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

**Map date:** 1975

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Edition N/A  
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 Levelled N/A

Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

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 Revised N/A  
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 Levelled N/A

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 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

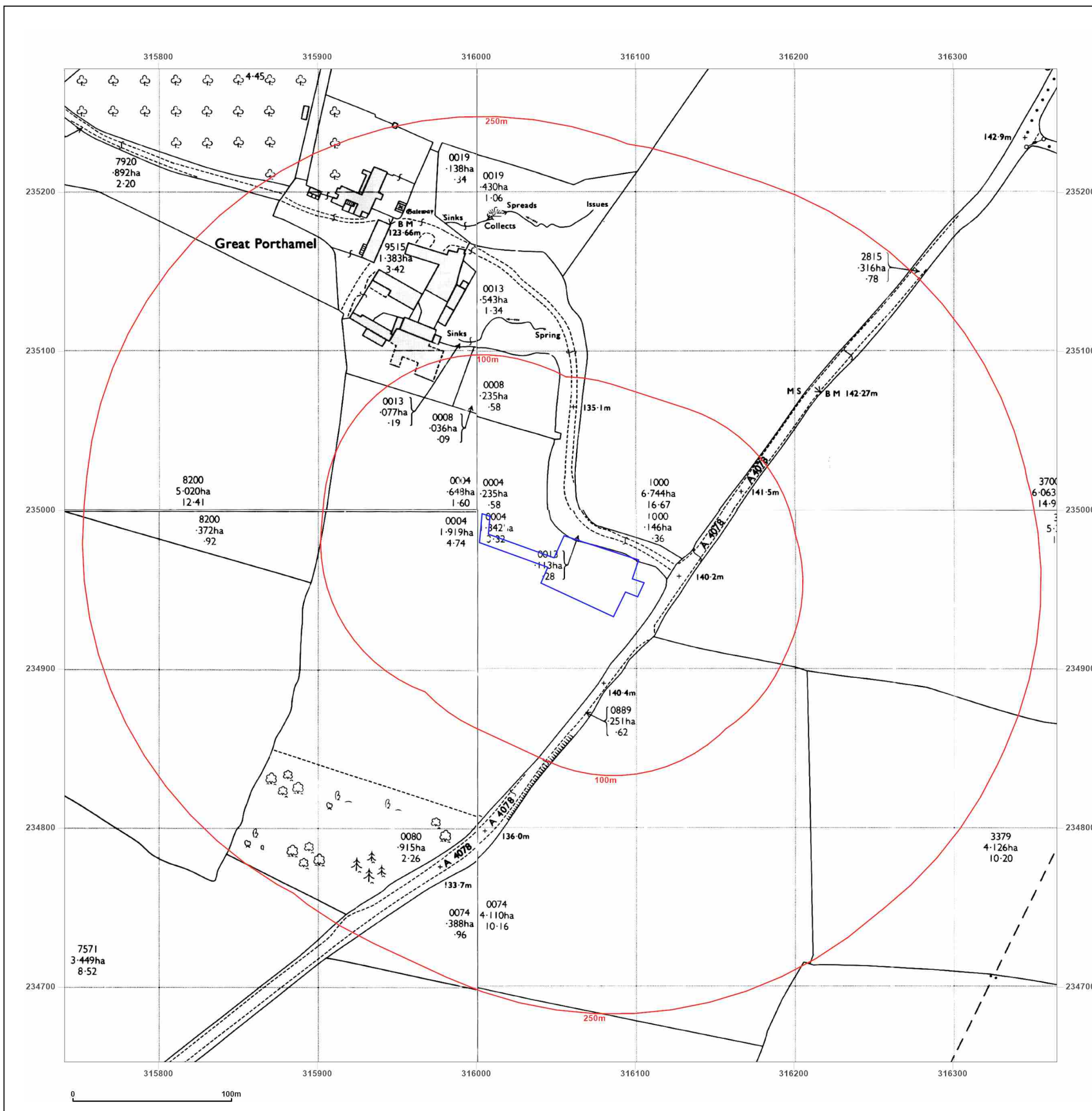


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

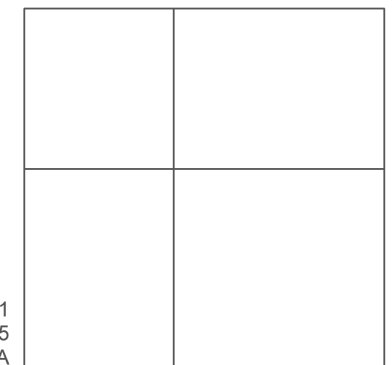
**Map date:** 1985

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1975  
 Revised 1985  
 Edition N/A  
 Copyright 1985  
 Levelled 1975



Surveyed 1971  
 Revised 1985  
 Edition N/A  
 Copyright 1985  
 Levelled 1971

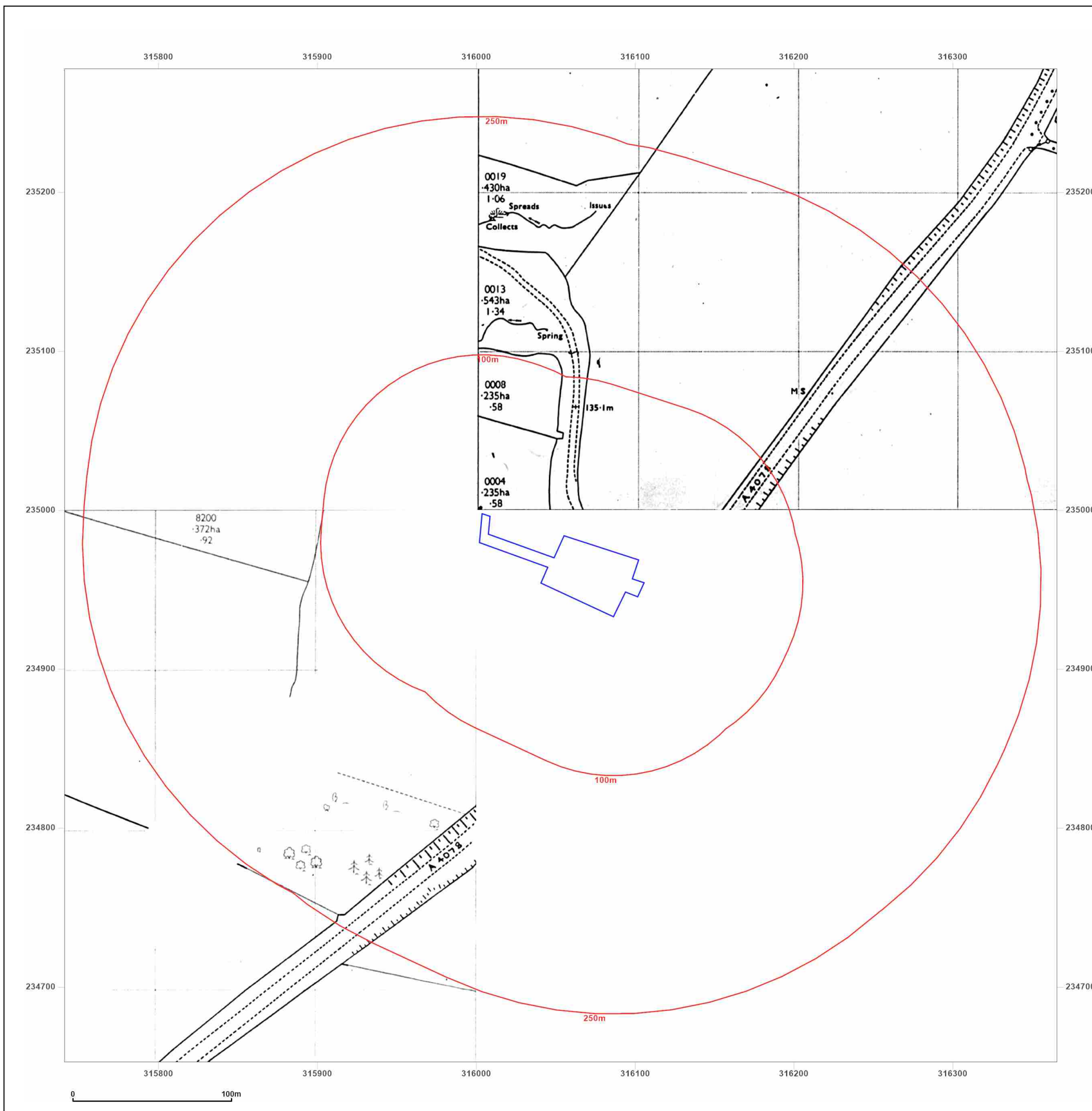


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

**Map date:** 1985-1986

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1971  
 Revised 1986  
 Edition N/A  
 Copyright 1986  
 Levelled 1971

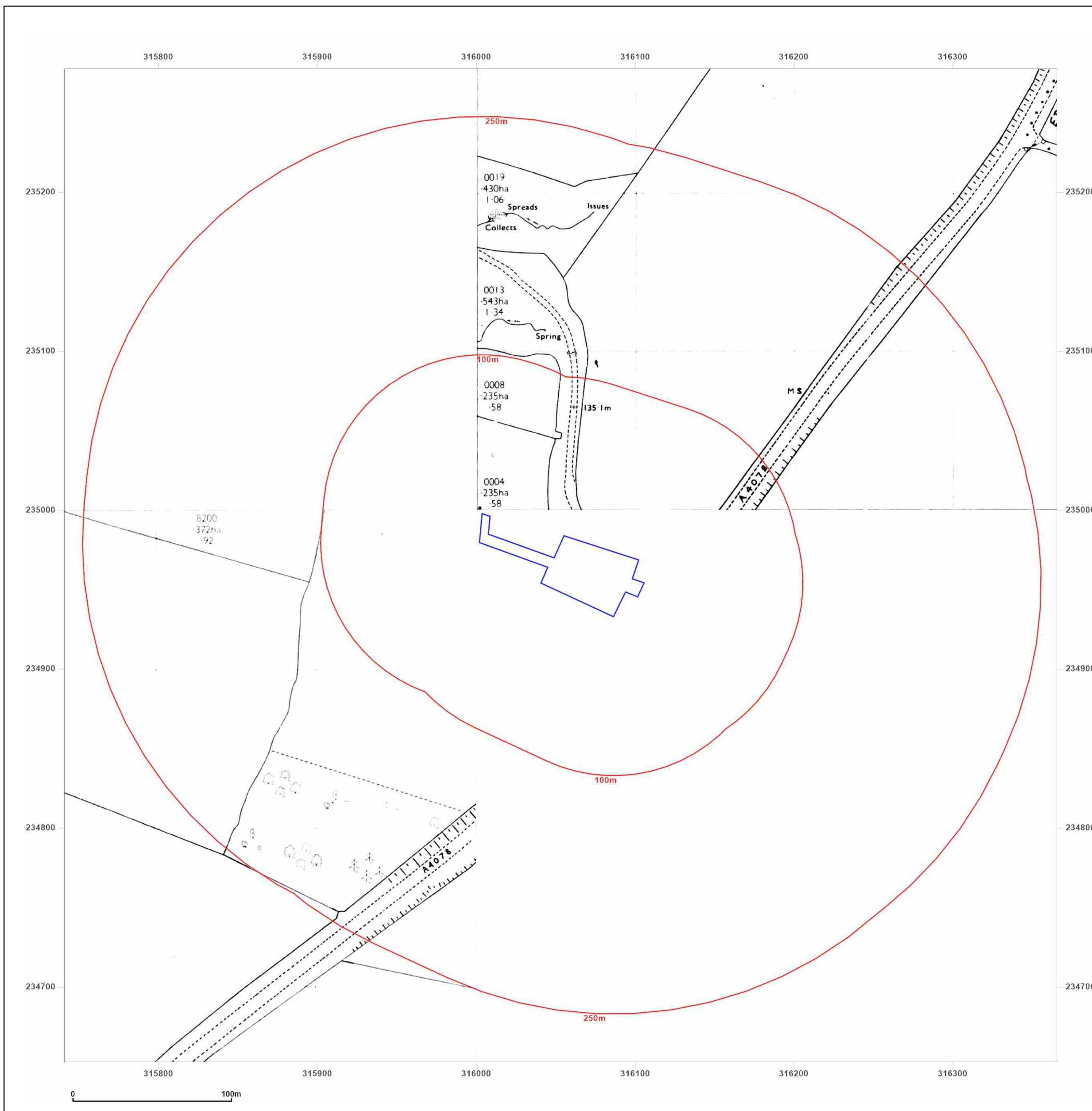


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** County Series

**Map date:** 1887

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1887  
 Revised 1887  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

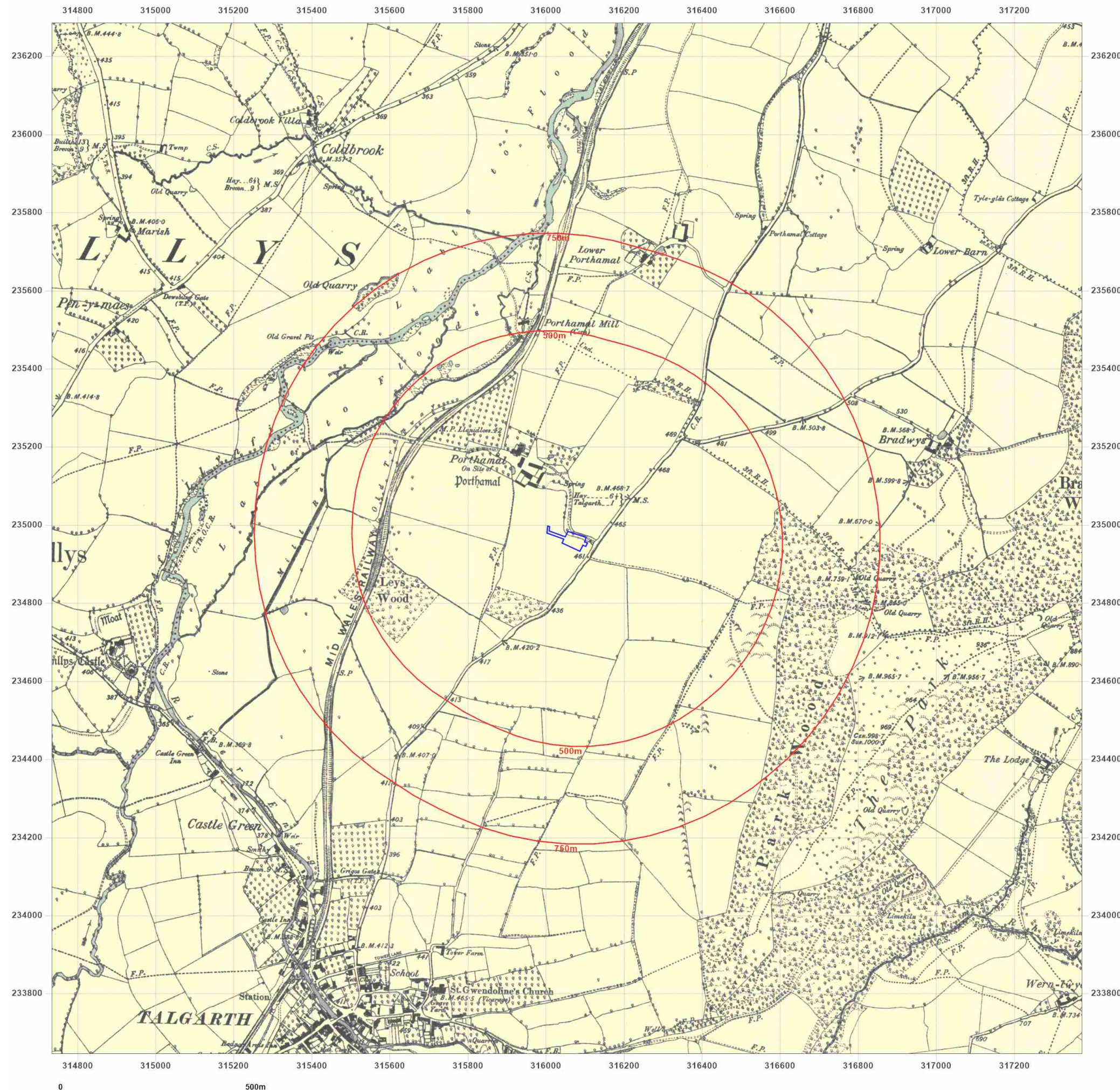


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** County Series

**Map date:** 1905

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1886  
 Revised 1905  
 Edition 1905  
 Copyright N/A  
 Levelled N/A

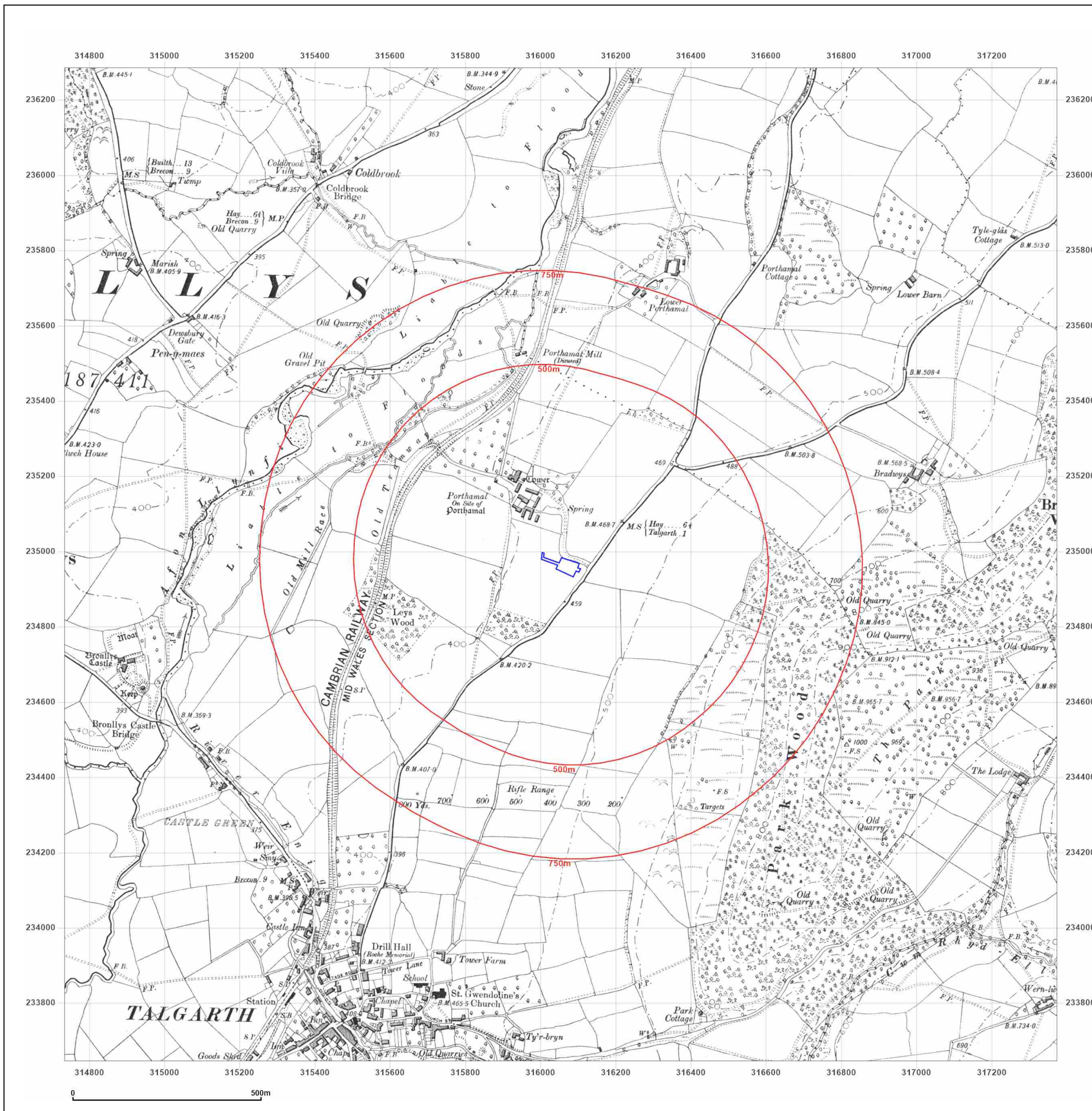


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** County Series

**Map date:** 1948

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1886  
 Revised 1948  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

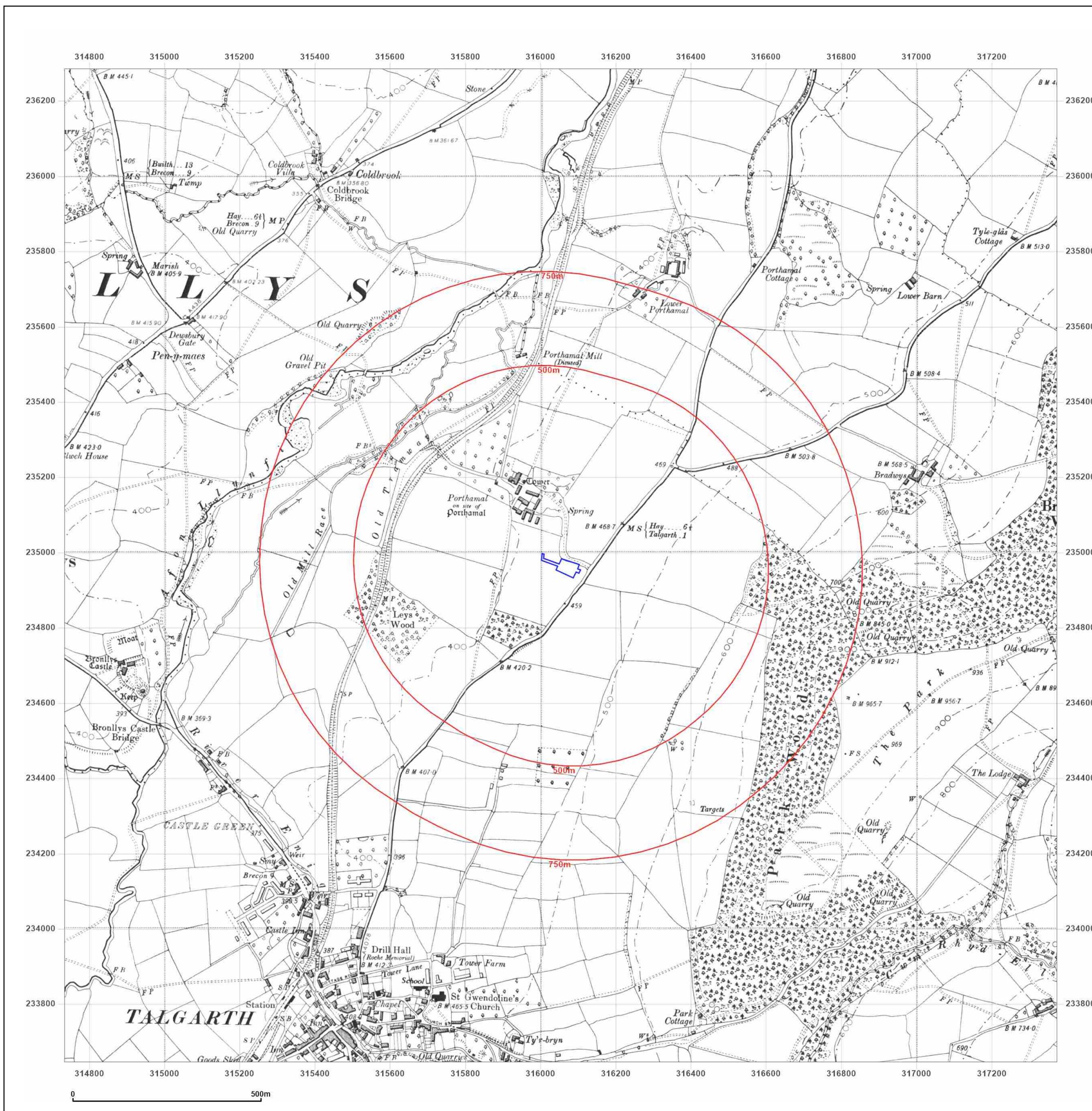


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#### Site Details:

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**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** Provisional

**Map date:** 1948

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1948  
 Revised 1948  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1948  
 Revised 1948  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1948  
 Revised 1948  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

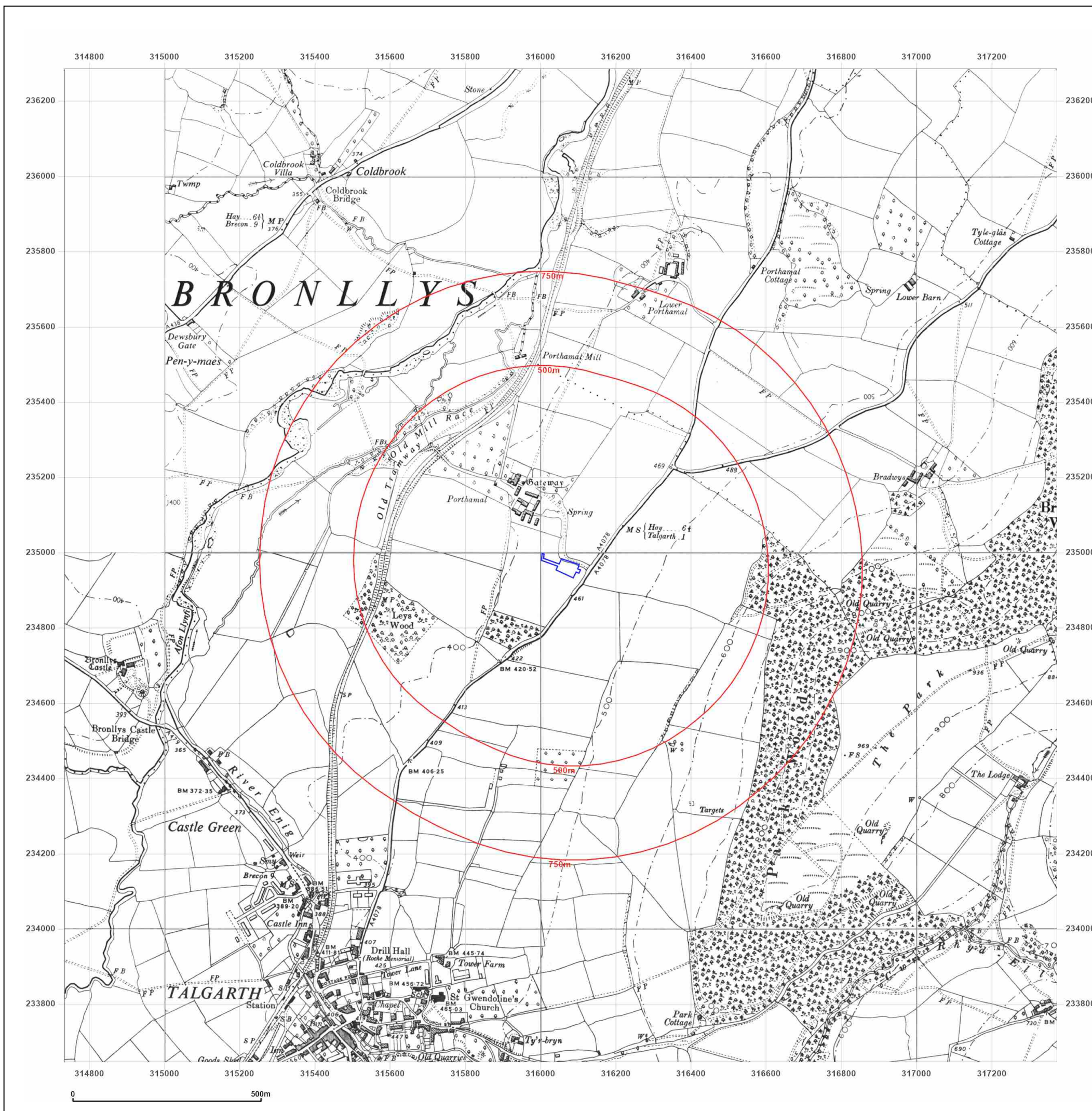


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

**Map date:** 1979-1980

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1973  
Revised 1979  
Edition N/A  
Copyright 1979  
Levelled 1975

Surveyed 1974  
Revised 1980  
Edition N/A  
Copyright 1980  
Levelled 1975

Surveyed 1975  
Revised 1980  
Edition N/A  
Copyright 1980  
Levelled 1975

Surveyed 1976  
Revised 1979  
Edition N/A  
Copyright 1979  
Levelled 1976

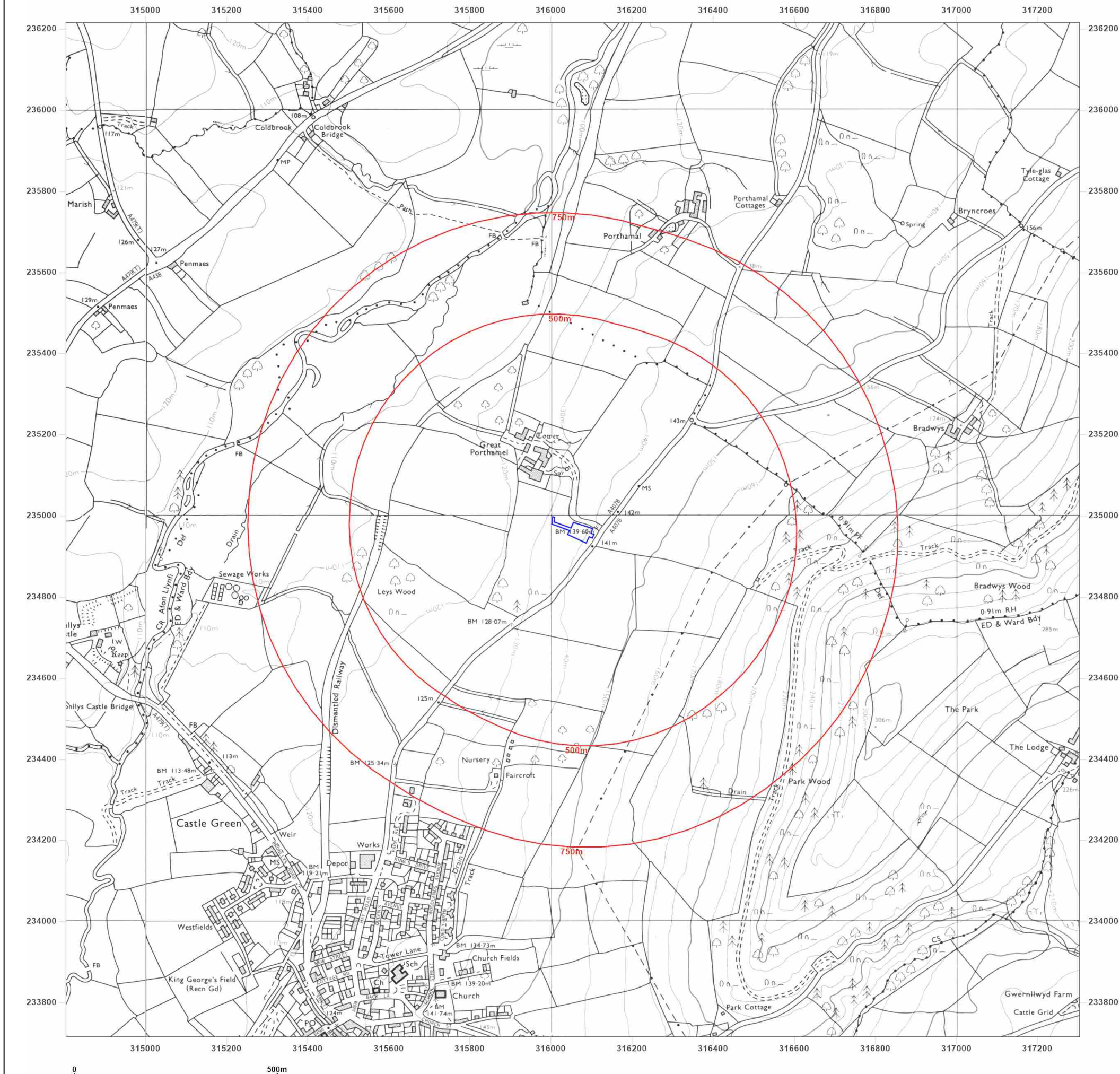


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#### Site Details:

316072, 234964

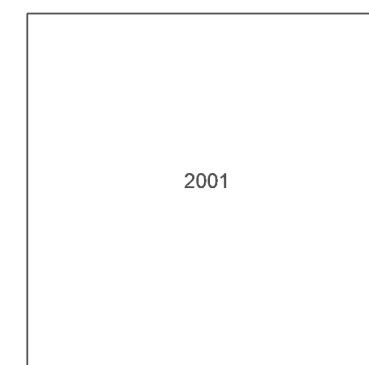
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**Scale:** 1:10,000

**Printed at:** 1:10,000

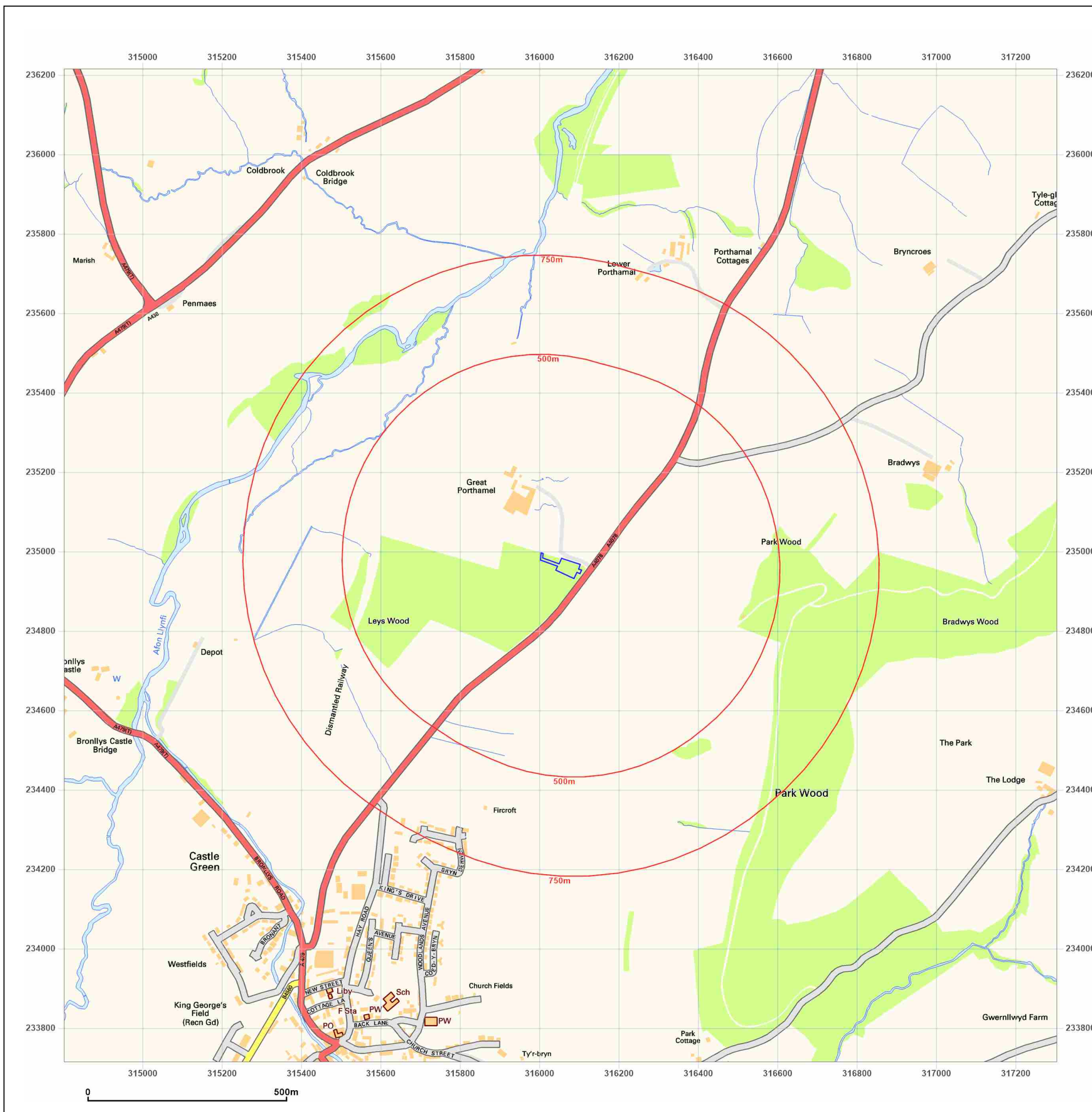


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#### Site Details:

316072, 234964

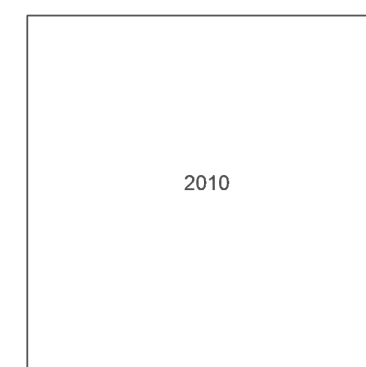
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**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000

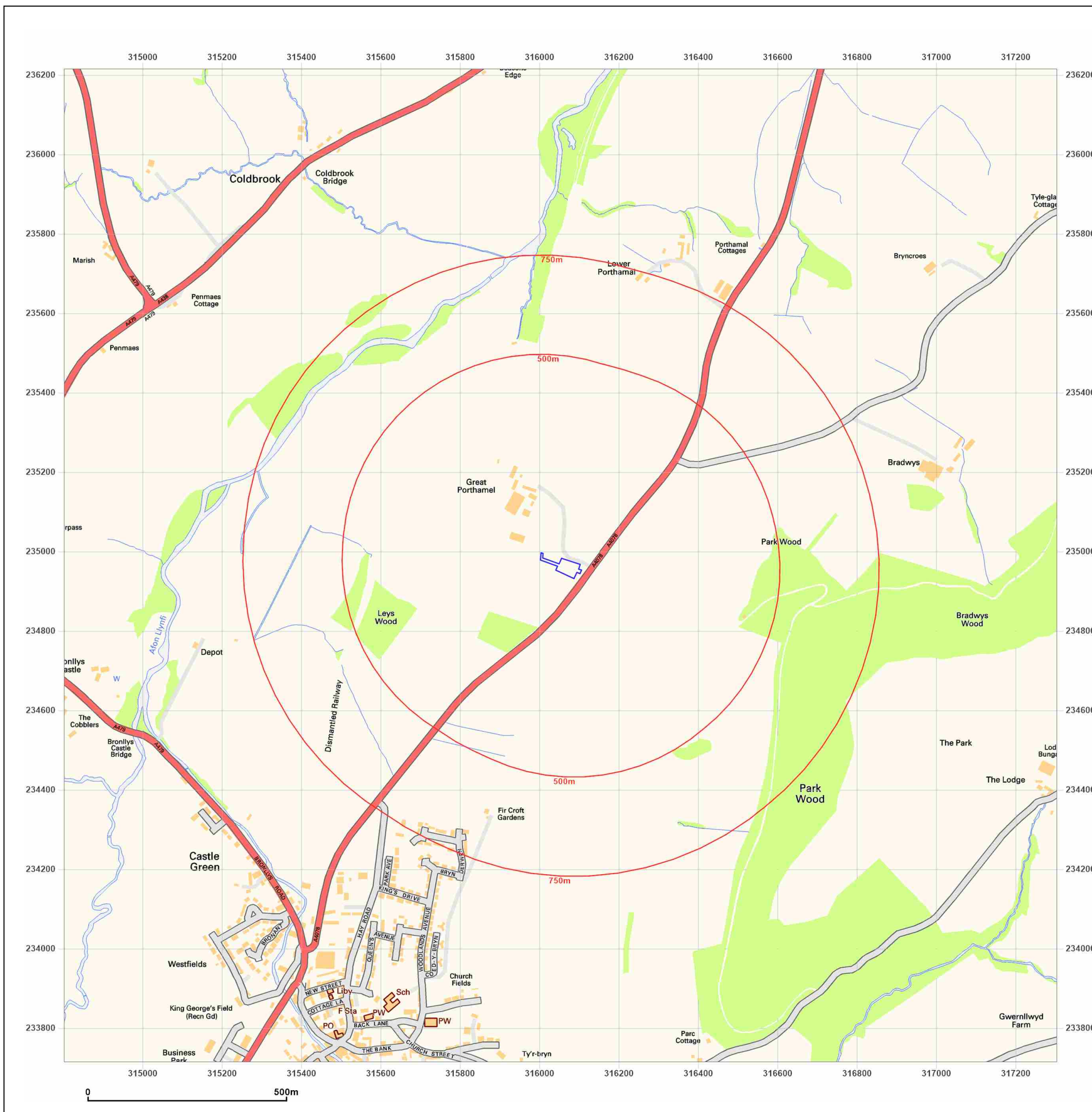


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#### Site Details:

316072, 234964

**Client Ref:** SOL\_21\_P001\_GPB  
**Report Ref:** GS-8388539  
**Grid Ref:** 316053, 234965

**Map Name:** National Grid

**Map date:** 2021

**Scale:** 1:10,000

**Printed at:** 1:10,000



2021

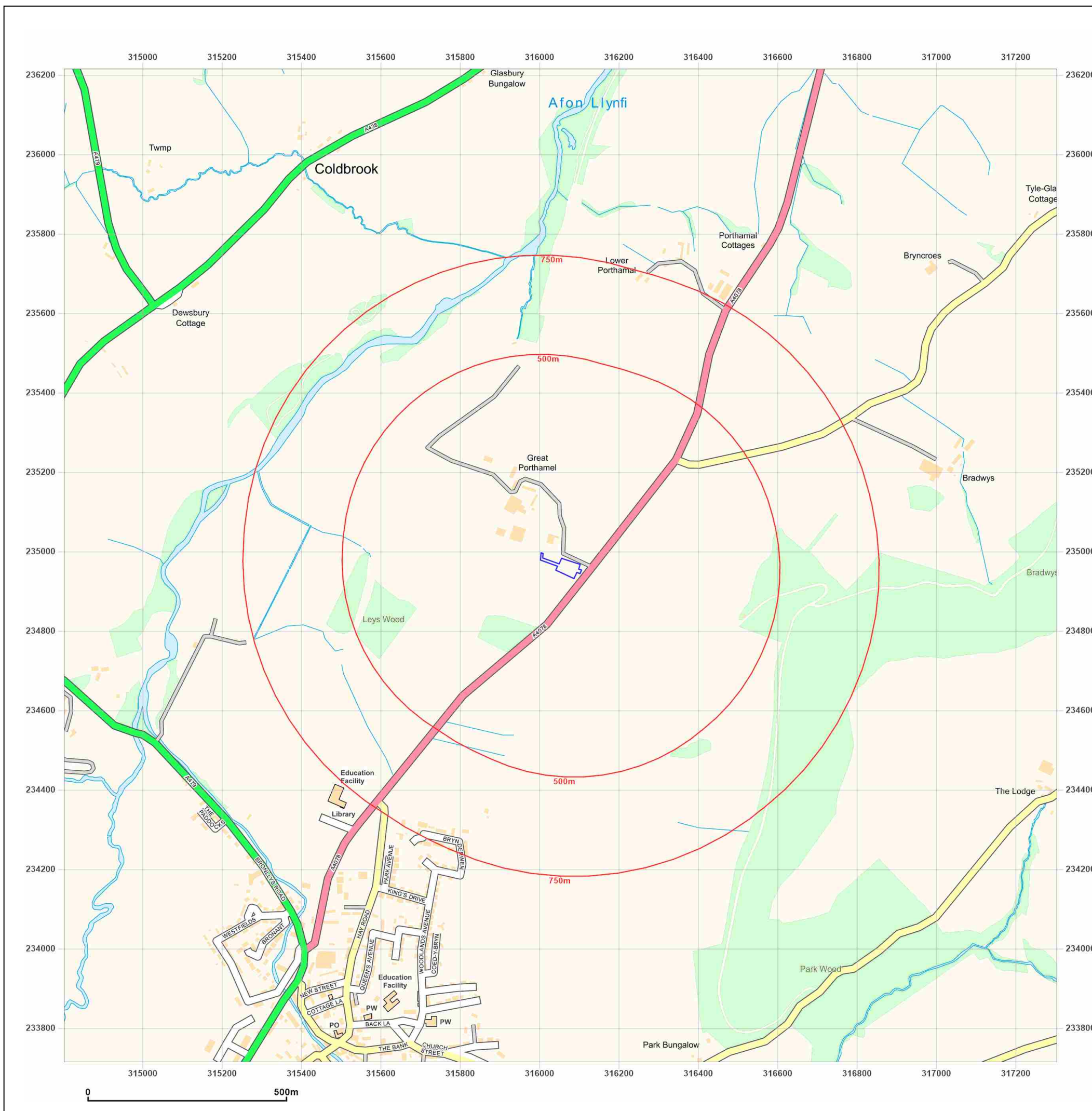


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## Annex C – Envirocheck Report 2011 and Groundsure 2021

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

33863924\_1\_1

**Customer Reference:**

GP Services

**National Grid Reference:**

316010, 235040

**Slice:**

A

**Site Area (Ha):**

0.78

**Search Buffer (m):**

1000

#### Site Details:

Great Porthamel

Talgarth

BRECON

Powys

LD3 0DL

#### Client Details:

Mr S Butler

Steve Butler

23 Christchurch Road

Malvern

Worcestershire

WR14 3BH

#### Prepared For:

GP Biotec Ltd., Great Porthamel

Talgarth, Brecon,

Powys.

LD3 0DL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	9
Hazardous Substances	-
Geological	10
Industrial Land Use	12
Sensitive Land Use	13
Data Currency	14
Data Suppliers	18
Useful Contacts	19

#### 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 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 the attached 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 v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				6
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 2			Yes	
Pollution Incidents to Controlled Waters	pg 2				1
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 2			1	2
River Quality Biology Sampling Points	pg 3				2
River Quality Chemistry Sampling Points	pg 4				3
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				(*4)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 7	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	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
<b>Waste</b>					
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 Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS Recorded Mineral Sites	pg 10				4
BGS 1:625,000 Solid Geology	pg 10	Yes	n/a	n/a	n/a
Brine Compensation Area			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 10	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards				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 10	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 11	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 11	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 12				2
Fuel Station Entries					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Use</b>					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 13	1			
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 13				1
Special Areas of Conservation	pg 13				1
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Talgarth - Along The Green, Ld3 0hh Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: An0075001 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Ennig <b>Status: Appeal by applicant: Revised by Secretary of State (Section 39)</b> Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	899	1	315300 234400
1	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Talgarth - Along The Green, Ld3 0hh Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AN0075001 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Ennig <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b> Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	899	1	315300 234400
2	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Talgarth Stw Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AW1005301 Permit Version: 1 Effective Date: 12th June 1982 Issued Date: 12th June 1982 Revocation Date: 30th March 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Llynfi River <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b> Positional Accuracy: Located by supplier to within 100m	A12SW (W)	905	1	315080 234800
2	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Talgarth Stw Bronllys Road Talgarth, Talgarth Sewage Treatment Works, Bronllys Road, Talgarth, Monmouthshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Aw1005301 Permit Version: 4 Effective Date: 1st April 2015 Issued Date: 26th March 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Llynfi River <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A12SW (W)	910	1	315073 234806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Talgarth Stw Bronllys Road Talgarth, Talgarth Sewage Treatment Works, Bronllys Road, Talgarth, Monmouthshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Aw1005301 Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 31st March 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Llynfi River <b>Status:</b> Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	910	1	315073 234806
2	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Talgarth Stw Bronllys Road Talgarth, Talgarth Sewage Treatment Works, Bronllys Road, Talgarth, Monmouthshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Aw1005301 Permit Version: 2 Effective Date: 31st March 2005 Issued Date: 21st December 2004 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Llynfi River <b>Status:</b> Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	910	1	315073 234806
	<b>Nearest Surface Water Feature</b>	A12SE (W)	383	-	315577 234992
3	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: 3M Downstream Of Castle Bridge, Ridge Hill Authority: Environment Agency, Welsh Region Pollutant: Milk/Creamery Wastes Note: Blocked Sewer Incident Date: 17th July 1996 Incident Reference: 29476 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	1000	1	315100 234500
	<b>River Quality</b> Name: Llynfi GQA Grade: River Quality B Reach: Conf.Cold Bk. - Talgarth Stw O/F Estimated Distance (km): 1.5 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A18SW (NW)	439	1	315713 235441
	<b>River Quality</b> Name: Llynfi GQA Grade: River Quality A Reach: Conf.Wye - Conf.Cold Bk. Estimated Distance (km): 4.8 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A18SW (N)	556	1	315976 235655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>River Quality</b> Name: Llynfi GQA Grade: River Quality A Reach: Talgarth Stw O/F - Conf.Dulas Estimated Distance (km): .6 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A12SW (W)	855	1	315105 235034
4	<b>River Quality Biology Sampling Points</b> Name: Llynfi Reach: Conf.R.Wye - Conf.Cold Bk. Estimated Distance: 4.80 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2002 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2003 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2004 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2005 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2006 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good	A18SW (N)	608	1	315900 235700
5	<b>River Quality Biology Sampling Points</b> Name: Llynfi Reach: Confluence Cold Bk. - Talgarth Sewage Treatment Works Outfall Estimated Distance: 1.50 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good	A12SW (W)	860	1	315100 235000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<b>River Quality Chemistry Sampling Points</b> Name: Llynfi Reach: Confluence Cold Brook To Talgarth Sewage Treatment Works Outfall Estimated Distance: 1.50 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A17SE (NW)	581	1	315588 235521

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>River Quality Chemistry Sampling Points</b> Name: Llynfi Reach: Talgarth Sewage Treatment Works Outfall To Confluence River Dulas Estimated Distance: 0.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	937	1	315060 234750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>River Quality Chemistry Sampling Points</b> Name: Llynfi Reach: Confluence River Dulas To Pont Hemley Estimated Distance: 6.50 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	937	1	315060 234750
	<b>Water Abstractions</b> Operator: Mr M Jones Licence Number: 19/55/7/0092 Permit Version: 100 Location: Borehole At Bradwys Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 1968 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1026	1	317080 235180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Mr & Mrs D Gorman Licence Number: 19/55/7/0097 Permit Version: 100 Location: River Dulas At Bronllys Authority: Environment Agency, Welsh Region Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: R.Dulas Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th May 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NE (SW)	1330	1	314740 234480
	<b>Water Abstractions</b> Operator: Mr P C Gunning Licence Number: 19/55/7/0097 Permit Version: 101 Location: River Dulas At Bronllys Authority: Environment Agency, Welsh Region Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st October 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	1339	1	314730 234480
	<b>Water Abstractions</b> Operator: Messrs J & B Powell & Sons Licence Number: 19/55/7/0103 Permit Version: 100 Location: Borehole At Anchorage Caravan Park Authority: Environment Agency, Welsh Region Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole (O.R.S) At Caravan Park; Well And Borehole Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1770	1	314190 235050
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 28 Powys Scale: 1:100,000	A13SE (N)	0	1	316012 235040
	<b>Drift Deposits</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Desination: Secondary Aquifer - A	A13SE (S)	0	2	316012 235001
	<b>Bedrock Aquifer Designations</b> Aquifer Desination: Secondary Aquifer - A	A13SE (N)	0	2	316012 235040
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A13SE (N)	0	2	316012 235040
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A13SE (S)	0	2	316012 235001
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Powys County Council - Has supplied landfill data		0	5	316012 235040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<b>BGS Recorded Mineral Sites</b> Site Name: Pen-Y-Maes Location: Bronllys, Brecon, Powys Source: British Geological Survey, National Geoscience Information Service Reference: 111419 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Till, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	684	2	315422 235483
9	<b>BGS Recorded Mineral Sites</b> Site Name: Pen-Y-Maes Location: Bronllys, Brecon, Powys Source: British Geological Survey, National Geoscience Information Service Reference: 111158 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Silurian Geology: Raglan Mudstone Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	684	2	315544 235620
10	<b>BGS Recorded Mineral Sites</b> Site Name: Bradwys Location: Talgarth, Brecon, Powys Source: British Geological Survey, National Geoscience Information Service Reference: 111164 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: St Maughans Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	763	2	316801 234873
11	<b>BGS Recorded Mineral Sites</b> Site Name: Bradwys Location: Talgarth, Brecon, Powys Source: British Geological Survey, National Geoscience Information Service Reference: 111165 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: St Maughans Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	827	2	316850 234790
	<b>BGS 1:625,000 Solid Geology</b> Description: Lower Old Red Sandstone, including Downtonian	A13SE (N)	0	2	316012 235040
	<b>Coal Mining Affected Areas</b> In an area which may not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Occasional Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040
	<b>Potential for Collapsible Ground Stability Hazards</b> No Hazard				
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	2	316012 235000
	<b>Potential for Ground Dissolution Stability Hazards</b> No Hazard				
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	2	316012 235000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	2	316012 235000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	2	316012 235000
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	2	316012 235000
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	316012 235040
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	2	316012 235000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<b>Contemporary Trade Directory Entries</b> Name: Orion Motors Ltd Location: Hay Road, Talgarth, Brecon, Powys, LD3 0AW Classification: Garage Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	958	-	315492 234175
12	<b>Contemporary Trade Directory Entries</b> Name: Orion Group International Ltd Location: Hay Road, Talgarth, Brecon, Powys, LD3 0AW Classification: Hygiene & Cleansing Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	958	-	315492 234175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<b>National Parks</b> Name: Brecon Beacons Multiple Area: N Area (m2): 1349543936 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside) <b>Status:</b> <b>Fully Designated - designated as a National Park</b> Designation Date: 31st December 1955	A13SE (N)	0	3	316012 235040
14	<b>Sites of Special Scientific Interest</b> Name: Afon Llynfi Multiple Areas: N Total Area (m2): 255533.61 Source: Countryside Council for Wales Reference: 90831whe Designation Details: Biological Designation Date: 22nd January 2003 Date Type: Notified	A18SW (NW)	514	4	315683 235513
15	<b>Special Areas of Conservation</b> Name: River Wye / Afon Gwy (Wales) Multiple Areas: Y Total Area (m2): 12740415.73 Source: Countryside Council for Wales Reference: UK0012642 <b>Status:</b> <b>Designated</b>	A18SW (NW)	514	4	315683 235513













Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Powys County Council - Public Protection Department	April 2010	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Welsh Region	October 2010	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Welsh Region	January 2011	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Welsh Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Welsh Region	October 2010	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Powys County Council - Public Protection Department	December 2010	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Powys County Council - Public Protection Department	December 2010	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Powys County Council - Public Protection Department	December 2010	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2010	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Welsh Region	December 1998	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Welsh Region	January 2011	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Welsh Region	January 2011	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Welsh Region	October 2010	Quarterly
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency Wales - South East Area	October 2010	Quarterly
<b>Water Abstractions</b> Environment Agency - Welsh Region	October 2010	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Welsh Region	October 2010	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 2011	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2010	Annually
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2010	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	October 2010	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	November 2010	Quarterly

<b>Agency &amp; Hydrological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	November 2010	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	November 2010	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	November 2010	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	November 2010	Quarterly
<b>Waste</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency Wales - South East Area	October 2010	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Welsh Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency Wales - South East Area	January 2011	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency Wales - South East Area	October 2010	Quarterly
<b>Local Authority Landfill Coverage</b> Powys County Council	May 2000	Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Powys County Council	May 2000	Not Applicable
<b>Registered Landfill Sites</b> Environment Agency Wales - South East Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency Wales - South East Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency Wales - South East Area	March 2003	Not Applicable
<b>Hazardous Substances</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2010	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	July 2010	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Powys County Council - Planning Department Brecon Beacons National Park	April 2010 August 2008	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Powys County Council - Planning Department Brecon Beacons National Park	April 2010 August 2008	Annual Rolling Update Annual Rolling Update

<b>Geological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	October 2010	Bi-Annually
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2006	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	February 2009	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	November 2010	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	October 2010	Quarterly

<b>Sensitive Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Areas of Outstanding Natural Beauty</b> Countryside Council for Wales	November 2010	Bi-Annually
<b>Environmentally Sensitive Areas</b> The National Assembly for Wales - GI Services (Department of Planning & Countryside)	August 2008	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Powys County Council	December 2010	Bi-Annually
<b>Marine Nature Reserves</b> Countryside Council for Wales	November 2010	Bi-Annually
<b>National Nature Reserves</b> Countryside Council for Wales	November 2010	Bi-Annually
<b>National Parks</b> The National Assembly for Wales - GI Services (Department of Planning & Countryside)	August 2008	Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2009	Not Applicable
<b>Nitrate Vulnerable Zones</b> The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
<b>Ramsar Sites</b> Countryside Council for Wales	November 2010	Bi-Annually
<b>Sites of Special Scientific Interest</b> Countryside Council for Wales	November 2010	Bi-Annually
<b>Special Areas of Conservation</b> Countryside Council for Wales	November 2010	Bi-Annually
<b>Special Protection Areas</b> Countryside Council for Wales	November 2010	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	 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	 CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>
2	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>
3	<b>The National Assembly for Wales - GI Services (Department of Planning &amp; Countryside)</b> Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: <a href="http://www.wales.gov.uk">www.wales.gov.uk</a>
4	<b>Countryside Council for Wales</b> Plas Penrhose, Fford Penrhos, Bangor, Gwynedd, LL57 2LQ	Telephone: 01248 385500 Fax: 01248 355782
5	<b>Powys County Council</b> County Hall, Llandrindod Wells, Powys, LD1 5LG	Telephone: 01597 826000 Fax: 01597 826230 Website: <a href="http://www.powys.gov.uk">www.powys.gov.uk</a>
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: <a href="mailto:radon@hpa.org.uk">radon@hpa.org.uk</a> Website: <a href="http://www.hpa.org.uk">www.hpa.org.uk</a>
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a> Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>

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

316072, 234964

## Order Details

**Date:** 08/12/2021  
**Your ref:** SOL\_21\_P001\_GPB  
**Our Ref:** GS-8388540  
**Client:** Sol Environment

## Site Details

**Location:** 316072 234961  
**Area:** 0.23 ha  
**Authority:** [Powys County Council](#)



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**Summary of findings**

p. 2

**Aerial image**

p. 8

**OS MasterMap site plan**

p.12

[groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>13</b>	<b>1.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	0	9	-
14	1.2	Historical tanks	0	0	0	0	-
14	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
15	1.5	Historical garages	0	0	0	0	-
15	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<b>16</b>	<b>2.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	0	11	-
17	2.2	Historical tanks	0	0	0	0	-
17	2.3	Historical energy features	0	0	0	0	-
17	2.4	Historical petrol stations	0	0	0	0	-
18	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	0	0	-
20	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
20	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
20	3.5	Historical waste sites	0	0	0	0	-
<b>20</b>	<b>3.6</b>	<b><u>Licensed waste sites</u></b>	0	2	0	1	-
21	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>22</b>	<b>4.1</b>	<b><u>Recent industrial land uses</u></b>	0	0	3	-	-
23	4.2	Current or recent petrol stations	0	0	0	0	-
23	4.3	Electricity cables	0	0	0	0	-
23	4.4	Gas pipelines	0	0	0	0	-
23	4.5	Sites determined as Contaminated Land	0	0	0	0	-



23	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
24	4.7	Regulated explosive sites	0	0	0	0	-
24	4.8	Hazardous substance storage/usage	0	0	0	0	-
24	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
<b>24</b>	<b>4.10</b>	<b><u>Licensed industrial activities (Part A(1))</u></b>	0	4	0	0	-
25	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
25	4.12	Radioactive Substance Authorisations	0	0	0	0	-
26	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
26	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
26	4.15	Pollutant release to public sewer	0	0	0	0	-
26	4.16	List 1 Dangerous Substances	0	0	0	0	-
26	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>27</b>	<b>4.18</b>	<b><u>Pollution Incidents (EA/NRW)</u></b>	0	0	1	0	-
27	4.19	Pollution inventory substances	0	0	0	0	-
27	4.20	Pollution inventory waste transfers	0	0	0	0	-
27	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
<b>28</b>	<b>5.1</b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>30</b>	<b>5.2</b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>32</b>	<b>5.3</b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
33	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
34	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>35</b>	<b>5.6</b>	<b><u>Groundwater abstractions</u></b>	0	0	0	0	3
<b>36</b>	<b>5.7</b>	<b><u>Surface water abstractions</u></b>	0	0	0	0	5
<b>38</b>	<b>5.8</b>	<b><u>Potable abstractions</u></b>	0	0	0	0	4
39	5.9	Source Protection Zones	0	0	0	0	-
39	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
40	6.1	Water Network (OS MasterMap)	0	0	0	-	-



40	6.2	Surface water features	0	0	0	-	-
<b>41</b>	<b>6.3</b>	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
<b>41</b>	<b>6.4</b>	<b><u>WFD Surface water bodies</u></b>	0	0	0	-	-
<b>42</b>	<b>6.5</b>	<b><u>WFD Groundwater bodies</u></b>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
43	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
43	7.2	Historical Flood Events	0	0	0	-	-
43	7.3	Flood Defences	0	0	0	-	-
44	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
44	7.5	Flood Storage Areas	0	0	0	-	-
45	7.6	Flood Zone 2	None (within 50m)				
45	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
46	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
<b>47</b>	<b>9.1</b>	<b><u>Groundwater flooding</u></b>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>48</b>	<b>10.1</b>	<b><u>Sites of Special Scientific Interest (SSSI)</u></b>	0	0	0	0	2
49	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
<b>49</b>	<b>10.3</b>	<b><u>Special Areas of Conservation (SAC)</u></b>	0	0	0	0	1
50	10.4	Special Protection Areas (SPA)	0	0	0	0	0
50	10.5	National Nature Reserves (NNR)	0	0	0	0	0
50	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<b>50</b>	<b>10.7</b>	<b><u>Designated Ancient Woodland</u></b>	0	0	1	6	49
53	10.8	Biosphere Reserves	0	0	0	0	0
53	10.9	Forest Parks	0	0	0	0	0
53	10.10	Marine Conservation Zones	0	0	0	0	0
53	10.11	Green Belt	0	0	0	0	0
53	10.12	Proposed Ramsar sites	0	0	0	0	0



54	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
54	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
54	10.15	Nitrate Sensitive Areas	0	0	0	0	0
54	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<b>55</b>	<b><u>10.17</u></b>	<b><u>SSSI Impact Risk Zones</u></b>	<b>1</b>	-	-	-	-
56	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
57	11.1	World Heritage Sites	0	0	0	-	-
58	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
<b>58</b>	<b><u>11.3</u></b>	<b><u>National Parks</u></b>	<b>1</b>	0	0	-	-
<b>58</b>	<b><u>11.4</u></b>	<b><u>Listed Buildings</u></b>	<b>0</b>	<b>0</b>	<b>4</b>	-	-
59	11.5	Conservation Areas	0	0	0	-	-
<b>59</b>	<b><u>11.6</u></b>	<b><u>Scheduled Ancient Monuments</u></b>	<b>0</b>	<b>0</b>	<b>1</b>	-	-
60	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>61</b>	<b><u>12.1</u></b>	<b><u>Agricultural Land Classification</u></b>	Grade 3b (within 250m)				
62	12.2	Open Access Land	0	0	0	-	-
62	12.3	Tree Felling Licences	0	0	0	-	-
62	12.4	Environmental Stewardship Schemes	0	0	0	-	-
62	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
63	13.1	Priority Habitat Inventory	0	0	0	-	-
63	13.2	Habitat Networks	0	0	0	-	-
63	13.3	Open Mosaic Habitat	0	0	0	-	-
63	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>64</b>	<b><u>14.1</u></b>	<b><u>10k Availability</u></b>	Identified (within 500m)				
65	14.2	Artificial and made ground (10k)	0	0	0	0	-
66	14.3	Superficial geology (10k)	0	0	0	0	-

66	14.4	Landslip (10k)	0	0	0	0	-
67	14.5	Bedrock geology (10k)	0	0	0	0	-
67	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>68</b>	<b>15.1</b>	<b><u>50k Availability</u></b>	Identified (within 500m)				
69	15.2	Artificial and made ground (50k)	0	0	0	0	-
69	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<b>70</b>	<b>15.4</b>	<b><u>Superficial geology (50k)</u></b>	1	0	0	1	-
<b>71</b>	<b>15.5</b>	<b><u>Superficial permeability (50k)</u></b>	Identified (within 50m)				
71	15.6	Landslip (50k)	0	0	0	0	-
71	15.7	Landslip permeability (50k)	None (within 50m)				
<b>72</b>	<b>15.8</b>	<b><u>Bedrock geology (50k)</u></b>	1	0	0	0	-
<b>73</b>	<b>15.9</b>	<b><u>Bedrock permeability (50k)</u></b>	Identified (within 50m)				
73	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
74	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
<b>75</b>	<b>17.1</b>	<b><u>Shrink swell clays</u></b>	Very low (within 50m)				
<b>76</b>	<b>17.2</b>	<b><u>Running sands</u></b>	Very low (within 50m)				
<b>78</b>	<b>17.3</b>	<b><u>Compressible deposits</u></b>	Negligible (within 50m)				
<b>79</b>	<b>17.4</b>	<b><u>Collapsible deposits</u></b>	Very low (within 50m)				
<b>80</b>	<b>17.5</b>	<b><u>Landslides</u></b>	Low (within 50m)				
<b>82</b>	<b>17.6</b>	<b><u>Ground dissolution of soluble rocks</u></b>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
84	18.1	Natural cavities	0	0	0	0	-
85	18.2	BritPits	0	0	0	0	-
85	18.3	Surface ground workings	0	0	0	-	-
85	18.4	Underground workings	0	0	0	0	0
85	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<b>85</b>	<b>18.6</b>	<b><u>Non-coal mining</u></b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
86	18.7	Mining cavities	0	0	0	0	0
86	18.8	JPB mining areas	None (within 0m)				
86	18.9	Coal mining	None (within 0m)				
87	18.10	Brine areas	None (within 0m)				
87	18.11	Gypsum areas	None (within 0m)				
87	18.12	Tin mining	None (within 0m)				
87	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<b>88</b>	<b>19.1</b>	<b><u>Radon</u></b>	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<b>89</b>	<b>20.1</b>	<b><u>BGS Estimated Background Soil Chemistry</u></b>	<b>1</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>
89	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
90	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
91	21.1	Underground railways (London)	0	0	0	-	-
91	21.2	Underground railways (Non-London)	0	0	0	-	-
91	21.3	Railway tunnels	0	0	0	-	-
91	21.4	Historical railway and tunnel features	0	0	0	-	-
91	21.5	Royal Mail tunnels	0	0	0	-	-
92	21.6	Historical railways	0	0	0	-	-
92	21.7	Railways	0	0	0	-	-
92	21.8	Crossrail 1	0	0	0	0	-
92	21.9	Crossrail 2	0	0	0	0	-
92	21.10	HS2	0	0	0	0	-



## Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 25/06/2018

Site Area: 0.23ha



## Recent site history - 2014 aerial photograph



Capture Date: 08/09/2014

Site Area: 0.23ha



## Recent site history - 2009 aerial photograph



Capture Date: 12/09/2009

Site Area: 0.23ha



## Recent site history - 2000 aerial photograph

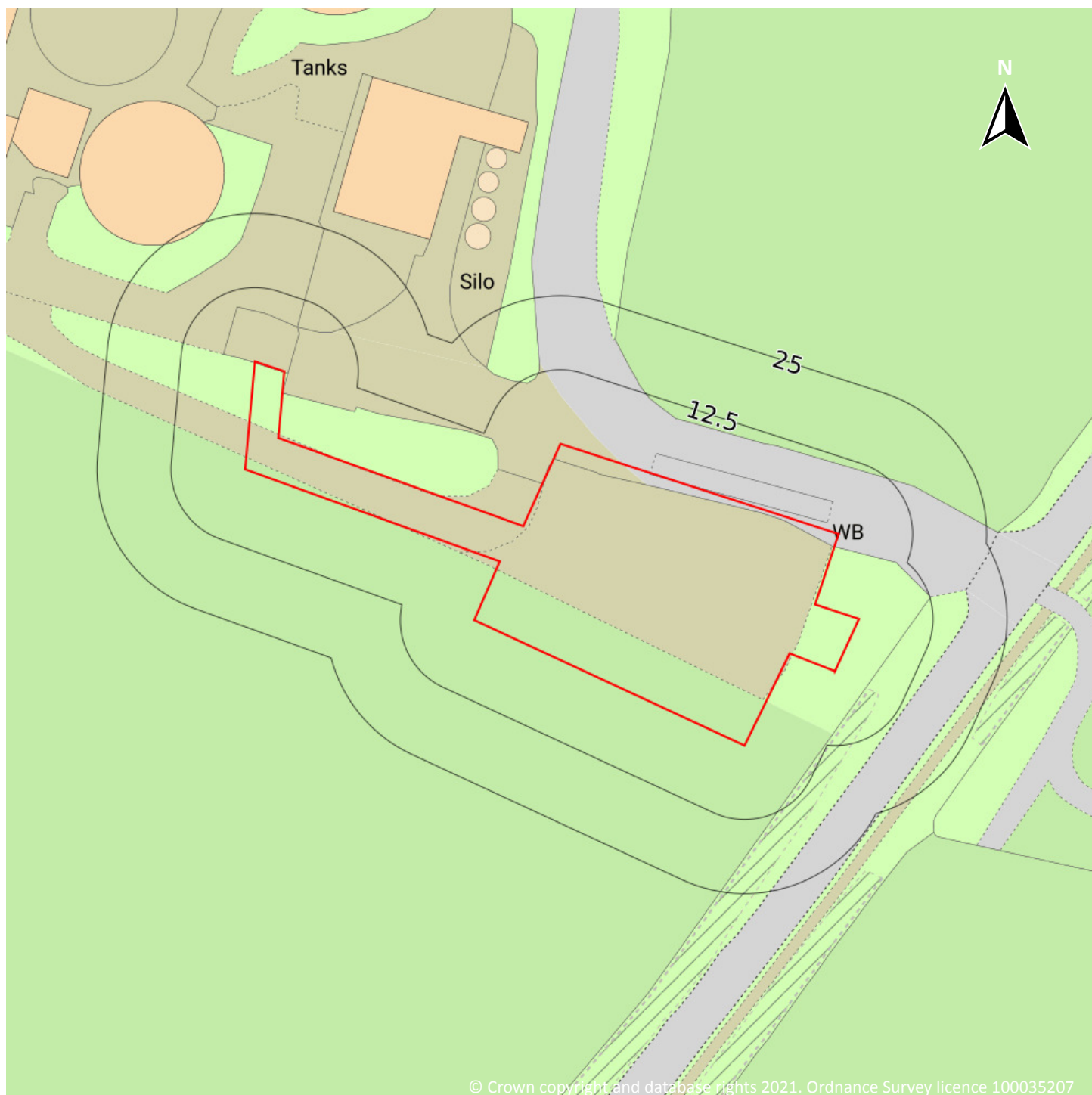


Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved

Capture Date: 19/06/2000

Site Area: 0.23ha

## OS MasterMap site plan



Site Area: 0.23ha



## 1 Past land use



— Site Outline  
Search buffers in metres (m)  
Historical industrial land uses

### 1.1 Historical industrial land uses

#### Records within 500m

9

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	371m NW	Cuttings	1948	1040013



ID	Location	Land use	Dates present	Group ID
A	372m NW	Cuttings	1948	1099589
A	375m NW	Cuttings	1905	1049935
A	378m NW	Cuttings	1887	1063745
B	382m NW	Cuttings	1948	1085851
B	384m NW	Cuttings	1887 - 1905	1096542
C	451m N	Corn Mill	1887	1016246
C	476m N	Unspecified Mill	1948	1006496
C	497m N	Unspecified Disused Mill	1905	1128167

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

### Records within 500m

0

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.3 Historical energy features

### Records within 500m

0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.4 Historical petrol stations

**Records within 500m****0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.5 Historical garages

**Records within 500m****0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

**Records within 500m****0**

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

*This data is sourced from Ordnance Survey / Groundsure / other sources.*

## 2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses

### 2.1 Historical industrial land uses

#### Records within 500m

11

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 16**

ID	Location	Land Use	Date	Group ID
A	371m NW	Cuttings	1948	1040013
A	372m NW	Cuttings	1948	1099589
A	375m NW	Cuttings	1905	1049935



ID	Location	Land Use	Date	Group ID
A	378m NW	Cuttings	1887	1063745
B	382m NW	Cuttings	1948	1085851
B	383m NW	Cuttings	1948	1085851
B	384m NW	Cuttings	1905	1096542
B	389m NW	Cuttings	1887	1096542
C	451m N	Corn Mill	1887	1016246
C	476m N	Unspecified Mill	1948	1006496
C	497m N	Unspecified Disused Mill	1905	1128167

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

**Records within 500m**

**0**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

**Records within 500m**

**0**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m**

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



— Site Outline  
Search buffers in metres (m)  
● Licensed waste sites

### 3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

*This data is sourced from the British Geological Survey.*

### 3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

*This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.*

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

*This data is sourced from Ordnance Survey/Groundsure and Local Authority records.*

### 3.6 Licensed waste sites

Records within 500m

3

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Details		
A	4m NW	Site Name: Great Porthamel Biotec A D Plant Site Address: Great Porthamel A D Plant, Talgarth, Brecon, Powys, LD3 0DL Correspondence Address: -	Type of Site: Biological Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: GPB002 EPR reference: AB3233DW/A001 Operator: G P Biotec Ltd Waste Management licence No: 102992 Annual Tonnage: 0	Issue Date: 12/03/2012 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued

ID	Location	Details		
A	4m NW	Site Name: Great Porthamel Biotec A D Plant Site Address: Great Porthamel A D Plant, Talgarth, Brecon, Powys, LD3 0DL Correspondence Address: -	Type of Site: Biological Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GPB002 EPR reference: EA/EPR/AB3233DW/A001 Operator: G P Biotec Ltd Waste Management licence No: 102992 Annual Tonnage: 35000	Issue Date: 12/03/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
1	417m NW	Site Name: - Site Address: GP Biotec Waste Storage, Great Porthamel Farm, Talgarth, Brecon, Powys, LD3 0DL Correspondence Address: -	Type of Site: Storage of anaerobic digestate 75,000 total Size: - Environmental Permitting Regulations (Waste) Licence Number: BB3099CG EPR reference: - Operator: GP Biotec Ltd Waste Management licence No: 0 Annual Tonnage: -	Issue Date: 21/01/2019 Effective Date: 21/01/2019 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.7 Waste exemptions

**Records within 500m**

**0**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Part A(1) industrial activities
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

#### Records within 250m

3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 22**

ID	Location	Company	Address	Activity	Category
B	75m N	Power Station	Powys, LD3	Energy Production	Industrial Features
B	77m NW	Slurry Bed	Powys, LD3	Waste Storage, Processing and Disposal	Infrastructure and Facilities
2	170m NW	Slurry Bed	Powys, LD3	Waste Storage, Processing and Disposal	Infrastructure and Facilities



*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*



## 4.7 Regulated explosive sites

### Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

### Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

### Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.10 Licensed industrial activities (Part A(1))

### Records within 500m

4

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 22**

ID	Location	Details	
A	5m NW	Operator: GP BIOTEC LTD Installation Name: GP BIOTEC LTD Process: - Permit Number: AB3233DW Original Permit Number: -	EPR Reference: - Issue Date: 12/02/2016 Effective Date: 12/02/2016 Last date noted as effective: 01/04/2017 Status: ISSUED

ID	Location	Details	
A	5m NW	Operator: GP BIOTEC LTD Installation Name: GP BIOTEC LTD Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OR NON-HAZARDOUS WASTE WITH A CAPACIT... Permit Number: AB3233DW Original Permit Number: -	EPR Reference: - Issue Date: 25/09/2017 Effective Date: 25/09/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	5m NW	Operator: GP BIOTEC LTD Installation Name: GP BIOTEC LTD Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 75 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL?DIRECTIVE 91/271/EEC?BIOLOGICAL TREATMENT Permit Number: AB3233DW Original Permit Number: -	EPR Reference: - Issue Date: 09/02/2021 Effective Date: 09/02/2021 Last date noted as effective: 01/07/2021 Status: EFFECTIVE
A	5m NW	Operator: GP BIOTEC LTD Installation Name: GP BIOTEC LTD Process: - Permit Number: AB3233DW Original Permit Number: -	EPR Reference: - Issue Date: 09/02/2021 Effective Date: 09/02/2021 Last date noted as effective: 01/07/2021 Status: EFFECTIVE

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.11 Licensed pollutant release (Part A(2)/B)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

*This data is sourced from Local Authority records.*

#### 4.12 Radioactive Substance Authorisations

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



#### 4.13 Licensed Discharges to controlled waters

**Records within 500m****0**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.14 Pollutant release to surface waters (Red List)

**Records within 500m****0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.15 Pollutant release to public sewer

**Records within 500m****0**

Discharges of Special Category Effluents to the public sewer.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.16 List 1 Dangerous Substances

**Records within 500m****0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.17 List 2 Dangerous Substances

**Records within 500m****0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.18 Pollution Incidents (EA/NRW)

**Records within 500m**

**1**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 22**

ID	Location	Details	
1	147m NE	Incident Date: 02/08/2014 Incident Identification: 1264184 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.19 Pollution inventory substances

**Records within 500m**

**0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.20 Pollution inventory waste transfers

**Records within 500m**

**0**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory radioactive waste

**Records within 500m**

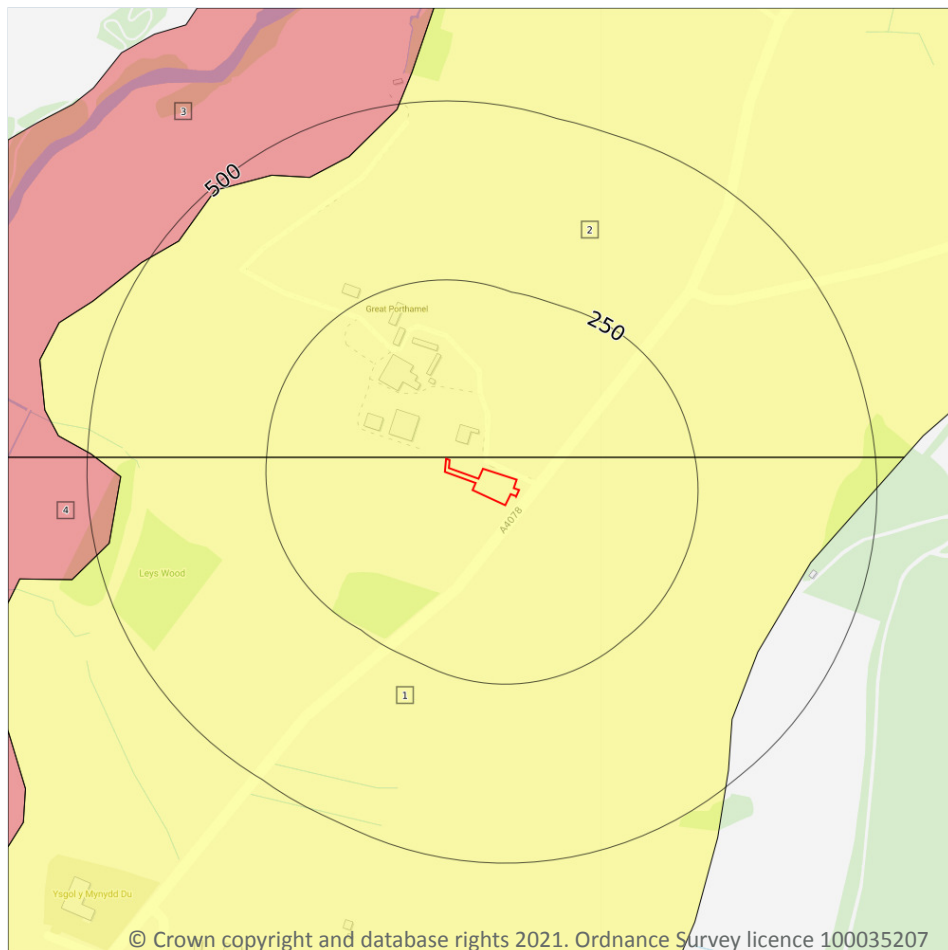
**0**

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive
  - Unknown

### 5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 28**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	2m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

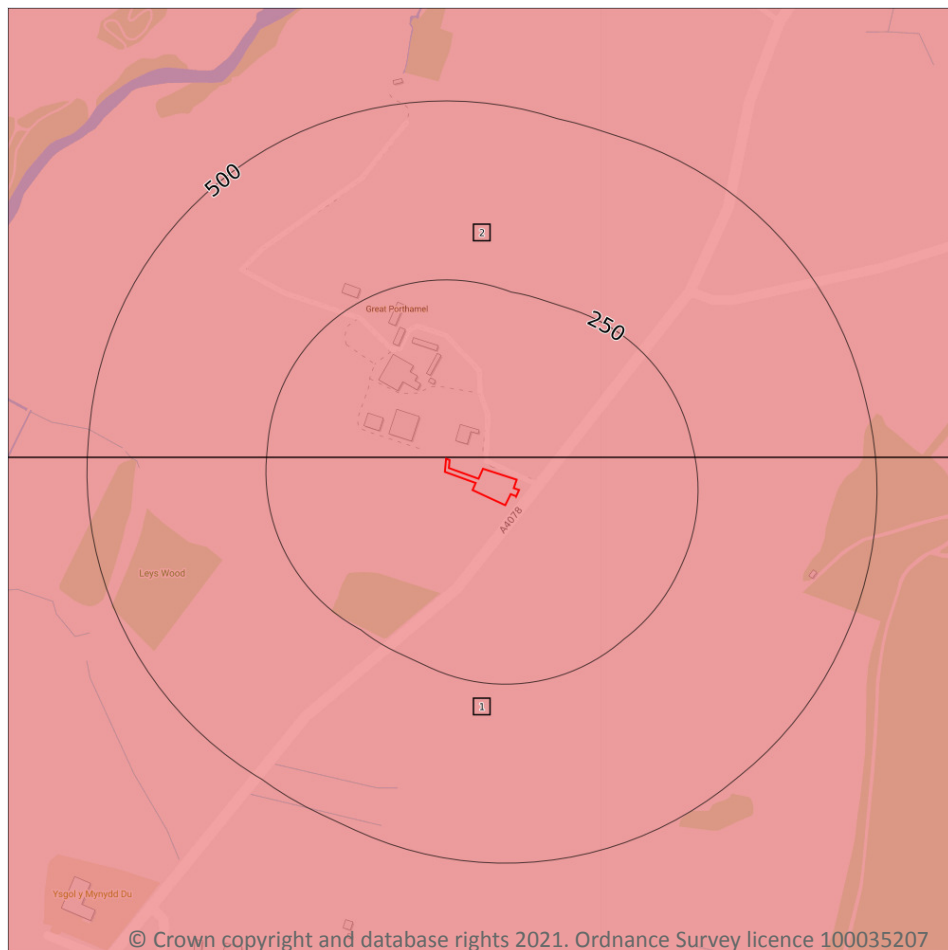


ID	Location	Designation	Description
3	437m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	453m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive

### 5.2 Bedrock aquifer

#### Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 30**

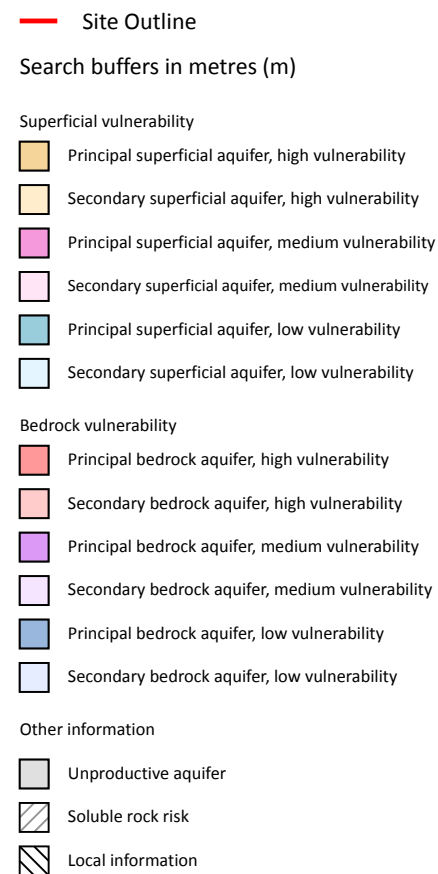
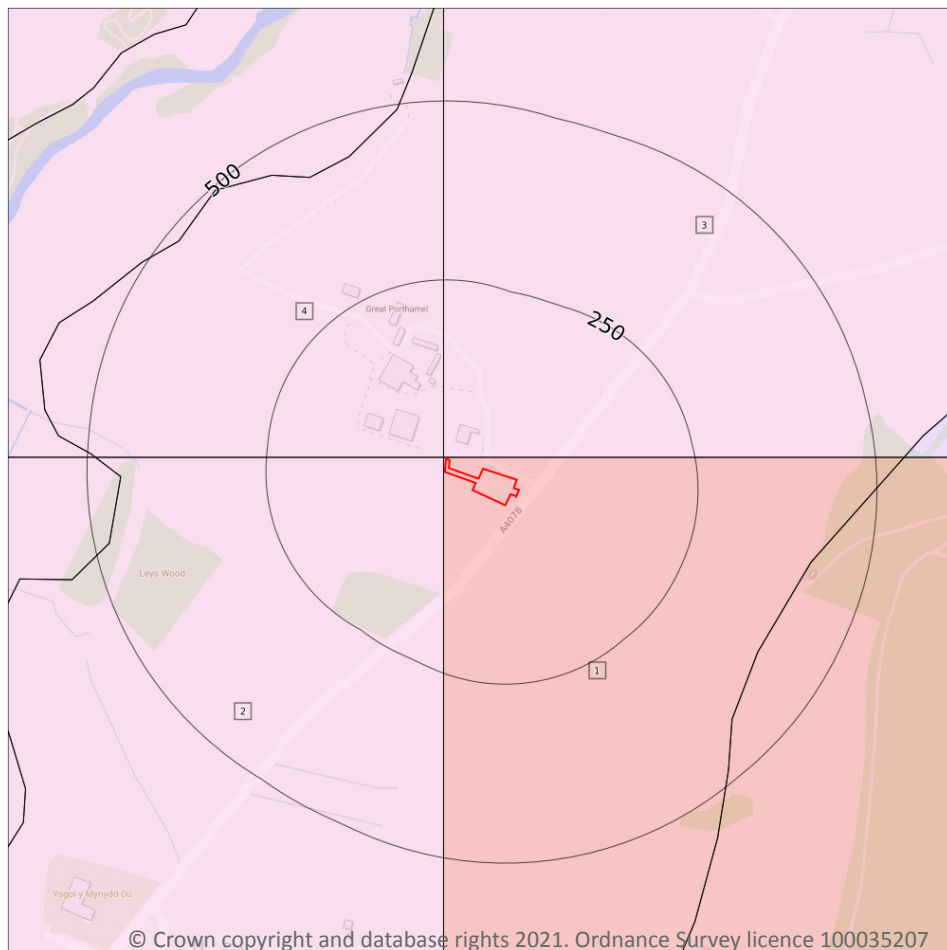
ID	Location	Designation	Description
1	On site	Secondary A	<b>Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers</b>
2	2m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

#### Records within 50m

4

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid.

Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 32**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> 300-550mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
2	1m W	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	2m N	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
4	4m NW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*

## 5.4 Groundwater vulnerability- soluble rock risk

### Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

*This data is sourced from the British Geological Survey and the Environment Agency.*



## 5.5 Groundwater vulnerability- local information

### Records on site

**0**

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk).

*This data is sourced from the British Geological Survey and the Environment Agency.*



## Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1  
Inner catchment
- Source Protection Zone 2  
Outer catchment
- Source Protection Zone 3  
Total catchment
- Source Protection Zone 4  
Zone of Special Interest
- Source Protection Zone 1c  
Inner catchment - confined aquifer
- Source Protection Zone 2c  
Outer catchment - confined aquifer
- Source Protection Zone 3c  
Total catchment - confined aquifer
- Drinking water abstraction licences  
Polygon features
- Drinking water abstraction licences  
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

### 5.6 Groundwater abstractions

#### Records within 2000m

3

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 35**

ID	Location	Details	
-	1000m E	Status: Historical Licence No: 19/55/7/0092 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: BOREHOLE AT BRADWYS FARM Data Type: Point Name: Jones Easting: 317080 Northing: 235180	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/10/1968 Version End Date: -
-	1813m W	Status: Historical Licence No: 19/55/7/0103 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: EAW Groundwater Point: BOREHOLE AT ANCHORAGE CARAVAN PARK Data Type: Point Name: Powell & Sons Easting: 314190 Northing: 235050	Annual Volume (m <sup>3</sup> ): 7300 Max Daily Volume (m <sup>3</sup> ): 30 Original Application No: - Original Start Date: 11/06/1999 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1813m W	Status: Active Licence No: 19/55/7/0103 Details: Drinking, Cooking, Sanitary Washing (small garden) - Commercial / Industrial / Public Services - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 314190 Northing: 235050	Annual Volume (m <sup>3</sup> ): 7,300 Max Daily Volume (m <sup>3</sup> ): 48 Original Application No: - Original Start Date: 2008-04-01 00:00:00.0000000 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.7 Surface water abstractions

### Records within 2000m

5

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 35**



ID	Location	Details	
-	1357m W	Status: Historical Licence No: 19/55/7/0097 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: EAW Surface Water Point: RIVER DULAS AT BRONLLYS Data Type: Point Name: Gorman Easting: 314740 Northing: 234480	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/11/1984 Expiry Date: - Issue No: 100 Version Start Date: 28/05/1993 Version End Date: -
-	1357m S	Status: Historical Licence No: WA/055/0007/001 Details: Milling & Water Power Other Than Electricity Generation Direct Source: EAW Surface Water Point: RIVER ELLYWE Data Type: Point Name: Felin Talgarth Mill Limited Easting: 315573 Northing: 233676	Annual Volume (m <sup>3</sup> ): 719021 Max Daily Volume (m <sup>3</sup> ): 4320 Original Application No: - Original Start Date: 06/12/2010 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 06/12/2010 Version End Date: -
-	1357m S	Status: Active Licence No: WA/055/0007/001 Details: Milling & Water Power other than Electricity Generation - Very Low Direct Source: - Point: - Data Type: Point Name: - Easting: 315573 Northing: 233676	Annual Volume (m <sup>3</sup> ): 719,020.80 Max Daily Volume (m <sup>3</sup> ): 8,640 Original Application No: - Original Start Date: 2010-12-06 00:00:00.0000000 Expiry Date: 2027-03-31 00:00:00.0000000 Issue No: - Version Start Date: - Version End Date: -
-	1360m S	Status: Active Licence No: WA/055/0007/002 Details: Hydro-electric Power Generation - Very Low Direct Source: - Point: - Data Type: Line Name: - Easting: 315570 Northing: 233674	Annual Volume (m <sup>3</sup> ): 0 Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 2010-12-06 00:00:00.0000000 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	1366m W	Status: Historical Licence No: 19/55/7/0097 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: EAW Surface Water Point: RIVER DULAS AT BRONLLYS Data Type: Point Name: Gunning Easting: 314730 Northing: 234480	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/11/1984 Expiry Date: - Issue No: 101 Version Start Date: 21/10/2004 Version End Date: -

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.8 Potable abstractions

### Records within 2000m

**4**

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 35**

ID	Location	Details	
-	1357m W	Status: Historical Licence No: 19/55/7/0097 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: EAW Surface Water Point: RIVER DULAS AT BRONLLYS Data Type: Point Name: Gorman Easting: 314740 Northing: 234480	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/11/1984 Expiry Date: - Issue No: 100 Version Start Date: 28/05/1993 Version End Date: -
-	1366m W	Status: Historical Licence No: 19/55/7/0097 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: EAW Surface Water Point: RIVER DULAS AT BRONLLYS Data Type: Point Name: Gunning Easting: 314730 Northing: 234480	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/11/1984 Expiry Date: - Issue No: 101 Version Start Date: 21/10/2004 Version End Date: -



ID	Location	Details	
-	1813m W	Status: Historical Licence No: 19/55/7/0103 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: EAW Groundwater Point: BOREHOLE AT ANCHORAGE CARAVAN PARK Data Type: Point Name: Powell & Sons Easting: 314190 Northing: 235050	Annual Volume (m <sup>3</sup> ): 7300 Max Daily Volume (m <sup>3</sup> ): 30 Original Application No: - Original Start Date: 11/06/1999 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1813m W	Status: Active Licence No: 19/55/7/0103 Details: Drinking, Cooking, Sanitary Washing (small garden) - Commercial / Industrial / Public Services - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 314190 Northing: 235050	Annual Volume (m <sup>3</sup> ): 7,300 Max Daily Volume (m <sup>3</sup> ): 48 Original Application No: - Original Start Date: 2008-04-01 00:00:00.0000000 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.10 Source Protection Zones (confined aquifer)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

### 6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

### Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 40**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Afon Llynfi - conf Dulas Bk to conf R Wye	GB109055036950	Wye - Ithon to Hay	Wye MC

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6.4 WFD Surface water bodies

### Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 40**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	622m NW	River	Afon Llynfi - conf Dulas Bk to conf R Wye	GB109055036950	Moderate	Good	Moderate	2016

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 6.5 WFD Groundwater bodies

### Records on site

**1**

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 40**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Wye Secondary Devonian ORS	GB40902G205200	Poor	Poor	Good	2019

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

#### Records within 50m

**0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.2 Historical Flood Events

#### Records within 250m

**0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.3 Flood Defences

#### Records within 250m

**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 8 Surface water flooding

### 8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

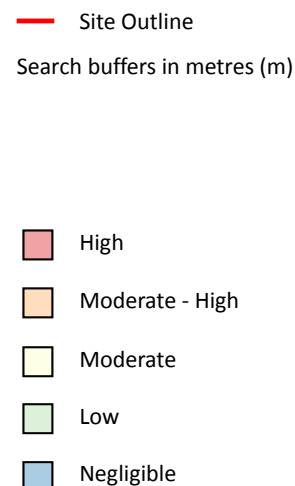
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

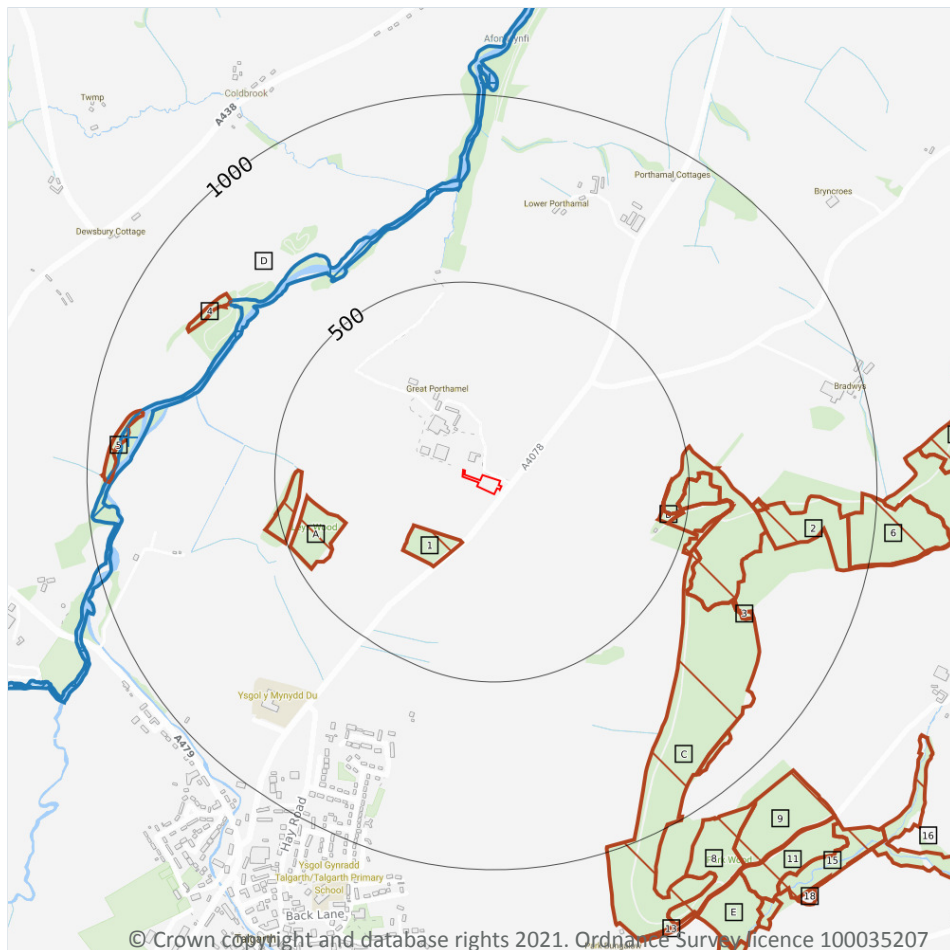
**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 47**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- Designated Ancient Woodland

### 10.1 Sites of Special Scientific Interest (SSSI)

#### Records within 2000m

2

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 48**

ID	Location	Name	Data source
D	607m NW	Afon Llynfi	Natural Resources Wales



ID	Location	Name	Data source
-	1899m S	Pwll-Y-Wrach	Natural Resources Wales

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.2 Conserved wetland sites (Ramsar sites)

<b>Records within 2000m</b>	<b>0</b>
-----------------------------	----------

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.3 Special Areas of Conservation (SAC)

<b>Records within 2000m</b>	<b>1</b>
-----------------------------	----------

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 48**

ID	Location	Name	Features of interest	Habitat description	Data source
D	607m NW	River Wye / Afon Gwy (Wales)	Estuaries; Intertidal mudflats and sandflats; Atlantic salt meadows; Rivers with floating vegetation often dominated by water-crowfoot; Dry heaths; Very wet mires often identified by an unstable `quaking` surface; Caves not open to the public; Mixed woodland on base-rich soils associated with rocky slopes; Western acidic oak woodland; Bog woodland; Alder woodland on floodplains; Sea lamprey; Brook lamprey; River lamprey; Allis shad; Twait shad; Atlantic salmon; Bullhead; Freshwater pearl mussel; White-clawed (or Atlantic stream) crayfish; Lesser horseshoe bat; Greater horseshoe bat; Otter.	Improved grassland; Salt marshes, Salt pastures, Salt steppes; Heath, Scrub, Maquis and Garrigue, Phygrana; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Dry grassland, Steppes; Inland rocks, Screes, Sands, Permanent Snow and ice; Humid grassland, Mesophile grassland; Inland water bodies (Standing water, Running water); Broad-leaved deciduous woodland; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Bogs, Marshes, Water fringed vegetation, Fens	Natural Resources Wales



*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.7 Designated Ancient Woodland

Records within 2000m

56

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 48**

ID	Location	Name	Woodland Type
1	149m SW	Unknown	Ancient Semi Natural Woodland
A	334m W	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
B	427m E	Unknown	Ancient Semi Natural Woodland
A	428m W	Unknown	Ancient Semi Natural Woodland
B	434m E	Unknown	Ancient Semi Natural Woodland
B	455m E	Unknown	Plantation on Ancient Woodland Site
B	472m E	Unknown	Plantation on Ancient Woodland Site
B	514m E	Unknown	Ancient Semi Natural Woodland
C	533m E	Unknown	Restored Ancient Woodland Site
B	583m E	Unknown	Ancient Semi Natural Woodland
B	593m E	Unknown	Plantation on Ancient Woodland Site
B	605m E	Unknown	Plantation on Ancient Woodland Site
B	613m E	Unknown	Ancient Semi Natural Woodland
B	669m E	Unknown	Restored Ancient Woodland Site
2	683m E	Unknown	Ancient Woodland Site of Unknown Category
3	691m SE	Unknown	Plantation on Ancient Woodland Site
4	765m NW	Unknown	Ancient Semi Natural Woodland
5	865m W	Unknown	Ancient Semi Natural Woodland
C	885m SE	Unknown	Ancient Semi Natural Woodland
6	926m E	Unknown	Ancient Woodland Site of Unknown Category
7	1018m E	Unknown	Restored Ancient Woodland Site
8	1031m SE	Unknown	Ancient Semi Natural Woodland
9	1072m SE	Unknown	Restored Ancient Woodland Site
10	1116m E	Unknown	Plantation on Ancient Woodland Site
11	1197m SE	Unknown	Plantation on Ancient Woodland Site
E	1200m SE	Unknown	Plantation on Ancient Woodland Site
12	1208m E	Unknown	Ancient Semi Natural Woodland
13	1233m SE	Unknown	Restored Ancient Woodland Site
14	1241m E	Unknown	Restored Ancient Woodland Site
15	1260m SE	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
E	1292m SE	Unknown	Ancient Semi Natural Woodland
16	1299m SE	Unknown	Restored Ancient Woodland Site
17	1320m SE	Unknown	Ancient Semi Natural Woodland
-	1342m E	Unknown	Plantation on Ancient Woodland Site
-	1343m E	Unknown	Plantation on Ancient Woodland Site
18	1345m SE	Unknown	Restored Ancient Woodland Site
E	1348m SE	Unknown	Ancient Semi Natural Woodland
-	1376m SE	Unknown	Ancient Semi Natural Woodland
-	1386m S	Unknown	Ancient Semi Natural Woodland
-	1450m NW	Unknown	Ancient Semi Natural Woodland
-	1599m SE	Unknown	Plantation on Ancient Woodland Site
-	1639m SE	Unknown	Ancient Semi Natural Woodland
-	1644m NW	Unknown	Ancient Semi Natural Woodland
-	1650m NW	Unknown	Ancient Semi Natural Woodland
-	1669m SE	Unknown	Plantation on Ancient Woodland Site
-	1742m S	Unknown	Ancient Semi Natural Woodland
-	1754m N	Unknown	Ancient Semi Natural Woodland
-	1809m NW	Unknown	Ancient Semi Natural Woodland
-	1815m E	Unknown	Restored Ancient Woodland Site
-	1827m SE	Unknown	Plantation on Ancient Woodland Site
-	1905m NE	Unknown	Restored Ancient Woodland Site
-	1918m S	Unknown	Restored Ancient Woodland Site
-	1947m E	Unknown	Plantation on Ancient Woodland Site
-	1952m W	Unknown	Restored Ancient Woodland Site
-	1959m E	Unknown	Ancient Semi Natural Woodland
-	1966m SE	Unknown	Ancient Semi Natural Woodland

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*



## 10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*



### 10.13 Possible Special Areas of Conservation (pSAC)

**Records within 2000m****0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

*This data is sourced from Natural England and Natural Resources Wales.*

### 10.14 Potential Special Protection Areas (pSPA)

**Records within 2000m****0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

### 10.15 Nitrate Sensitive Areas

**Records within 2000m****0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

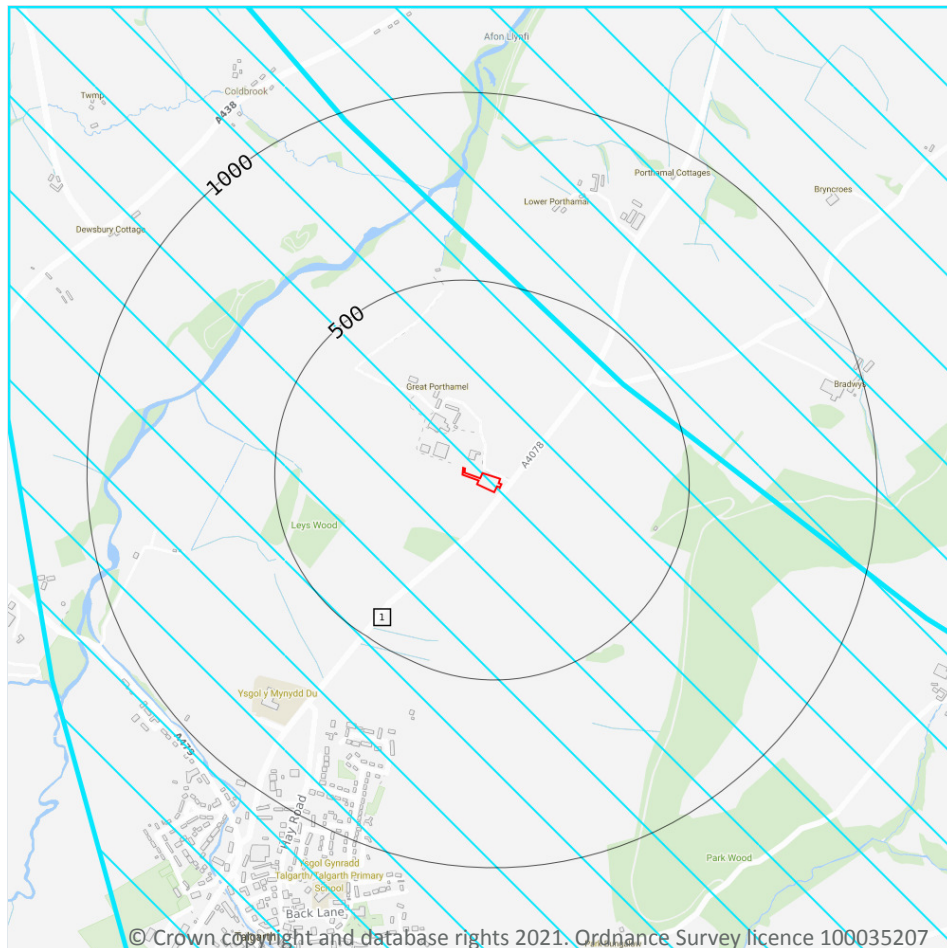
### 10.16 Nitrate Vulnerable Zones

**Records within 2000m****0**

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

*This data is sourced from Natural England and Natural Resources Wales.*

## SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

### 10.17 SSSI Impact Risk Zones

#### Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 55**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals.

*This data is sourced from Natural England.*



## 10.18 SSSI Units

Records within 2000m

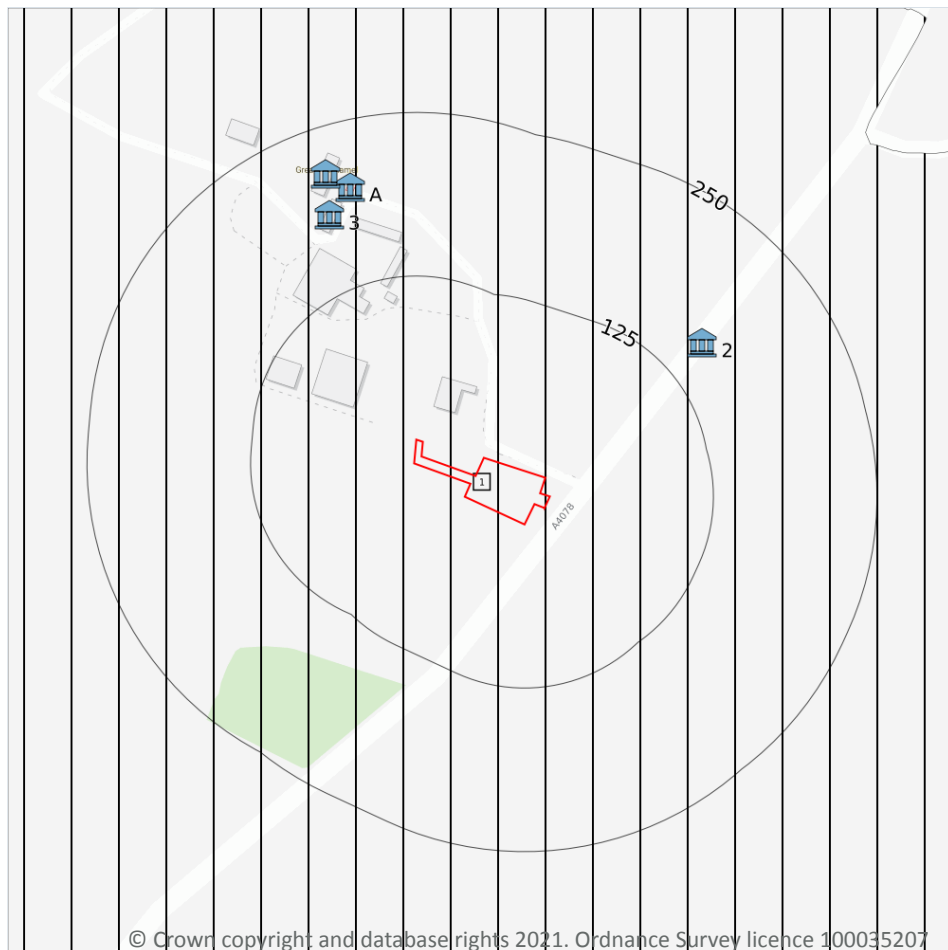
0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

*This data is sourced from Natural England and Natural Resources Wales.*



## 11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

### 11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*



## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 11.3 National Parks

Records within 250m

1

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

Features are displayed on the Visual and cultural designations map on **page 57**

ID	Location	Name	Data Source
1	On site	Brecon Beacons	Natural Resources Wales

*This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.*

## 11.4 Listed Buildings

Records within 250m

4

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 57**

ID	Location	Name	Grade	Reference Number	Listed date
2	158m NE	Milestone, Located On The Verge Of The Main Road From Talgarth To Hay-On-Wye, Near The Turning To Great Porth-Aml	II	16302	14/08/1995



ID	Location	Name	Grade	Reference Number	Listed date
3	185m N	Farm-Building At Porthamel Farm, Located W Of The Gatehouse And SW Of The Farmhouse, Forming The N Side Of The Early Farmyard At Porthamel	II	16303	14/08/1995
A	200m N	Gatehouse To Great Porthamel, Located Axially On The Approach To Great Porthamel Farmhouse, Below The NW Side Of The Main Road From Talgarth To Hay	I	6641	28/09/1961
A	215m N	Great Porthamel Farmhouse, Located Below The Scarp Edge Of The Valley, Facing S On The Access Of Its Medieval Gatehouse	II*	6652	28/02/1952

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

### Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.6 Scheduled Ancient Monuments

### Records within 250m

1

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

Features are displayed on the Visual and cultural designations map on **page 57**

ID	Location	Ancient monument name	Reference number
A	195m N	Porthamel Tower	1715

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*



## 11.7 Registered Parks and Gardens

Records within 250m

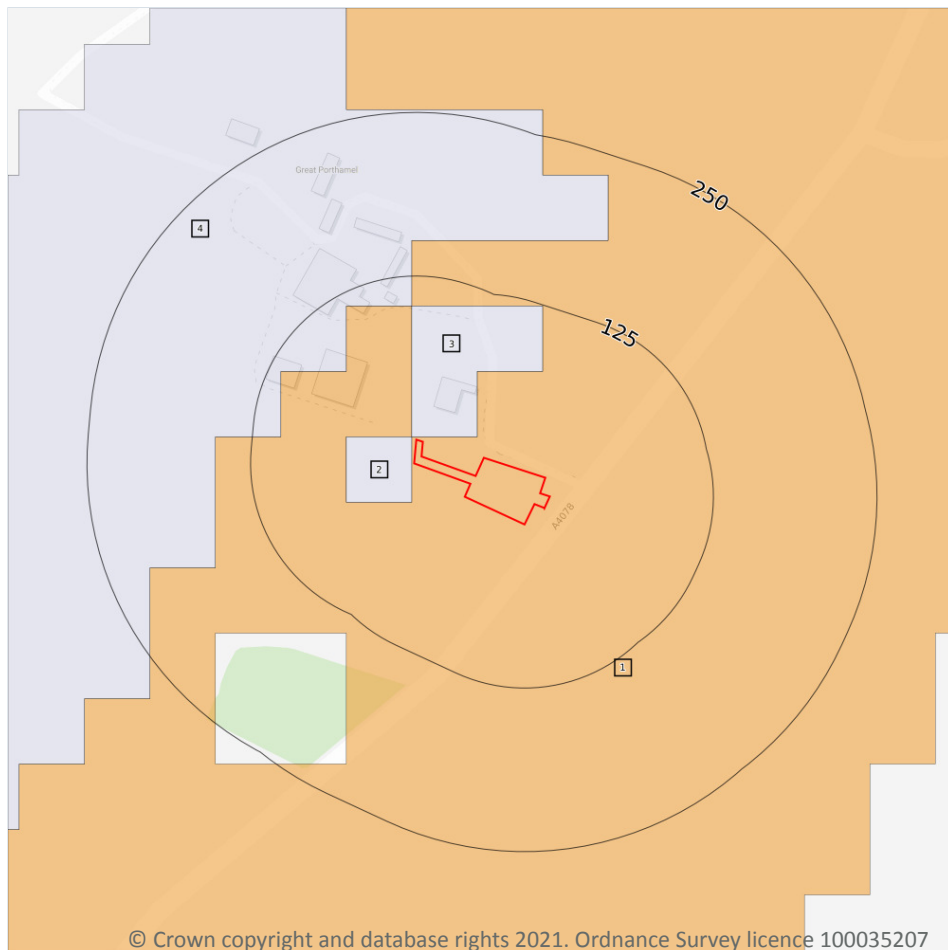
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*



## 12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

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### 12.1 Agricultural Land Classification

Records within 250m

4

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 61**

ID	Location	Classification	Description
1	On site	Grade 2	Good quality agricultural land
2	2m W	Grade 3b	Moderate quality agricultural land
3	2m N	Grade 3b	Moderate quality agricultural land



ID	Location	Classification	Description
4	75m NW	Grade 3b	Moderate quality agricultural land

*This data is sourced from Natural Resources Wales.*

## 12.2 Open Access Land

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

*This data is sourced from Natural England and Natural Resources Wales.*

## 12.3 Tree Felling Licences

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

*This data is sourced from Natural England.*

## 13 Habitat designations

### 13.1 Priority Habitat Inventory

**Records within 250m****0**

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

*This data is sourced from Natural England.*

### 13.2 Habitat Networks

**Records within 250m****0**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

*This data is sourced from Natural England.*

### 13.3 Open Mosaic Habitat

**Records within 250m****0**

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

**Records within 250m****0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



- Site Outline**
- Search buffers in metres (m)
- Full coverage
  - Partial coverage
  - No coverage

### 14.1 10k Availability

#### Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme. Features are displayed on the Geology 1:10,000 scale - Availability map on **page 64**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Artificial and made ground

### 14.2 Artificial and made ground (10k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial

### 14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

*This data is sourced from the British Geological Survey.*

### 14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock

### 14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

*This data is sourced from the British Geological Survey.*

### 14.6 Bedrock faults and other linear features (10k)

Records within 500m

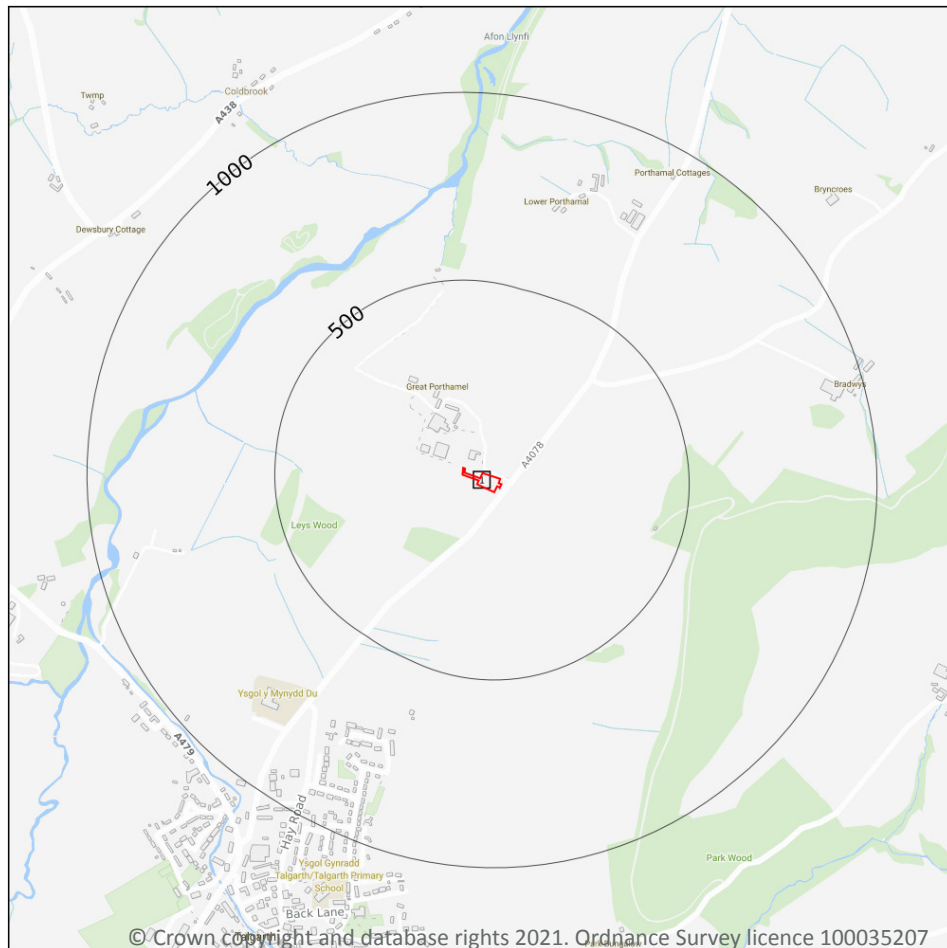
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

#### Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 68**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW214_talgarth_v4

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Artificial and made ground

### 15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

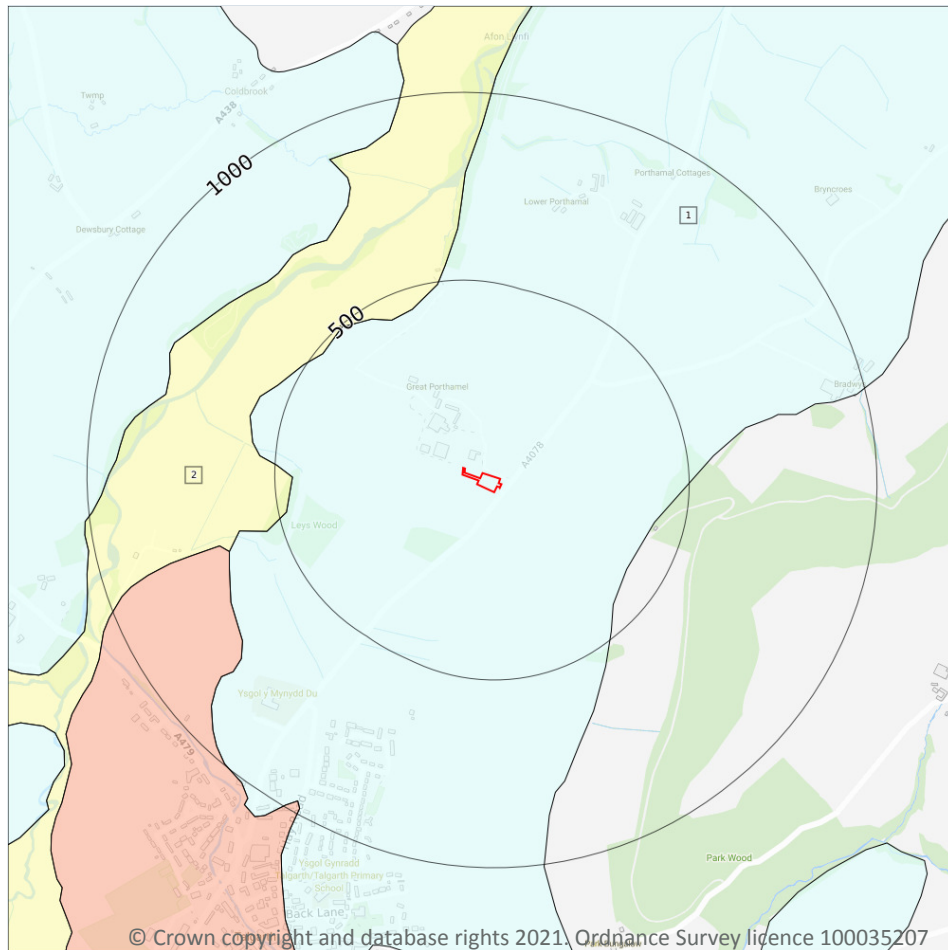
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



**Site Outline**

Search buffers in metres (m)

**Landslip (50k)**

**Superficial geology (50k)**  
Please see table for more details.

### 15.4 Superficial geology (50k)

#### Records within 500m

2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 70**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	437m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

*This data is sourced from the British Geological Survey.*



## 15.5 Superficial permeability (50k)

Records within 50m

2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Mixed</b>	<b>High</b>	<b>Low</b>
2m NE	Mixed	High	Low

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

Records within 50m

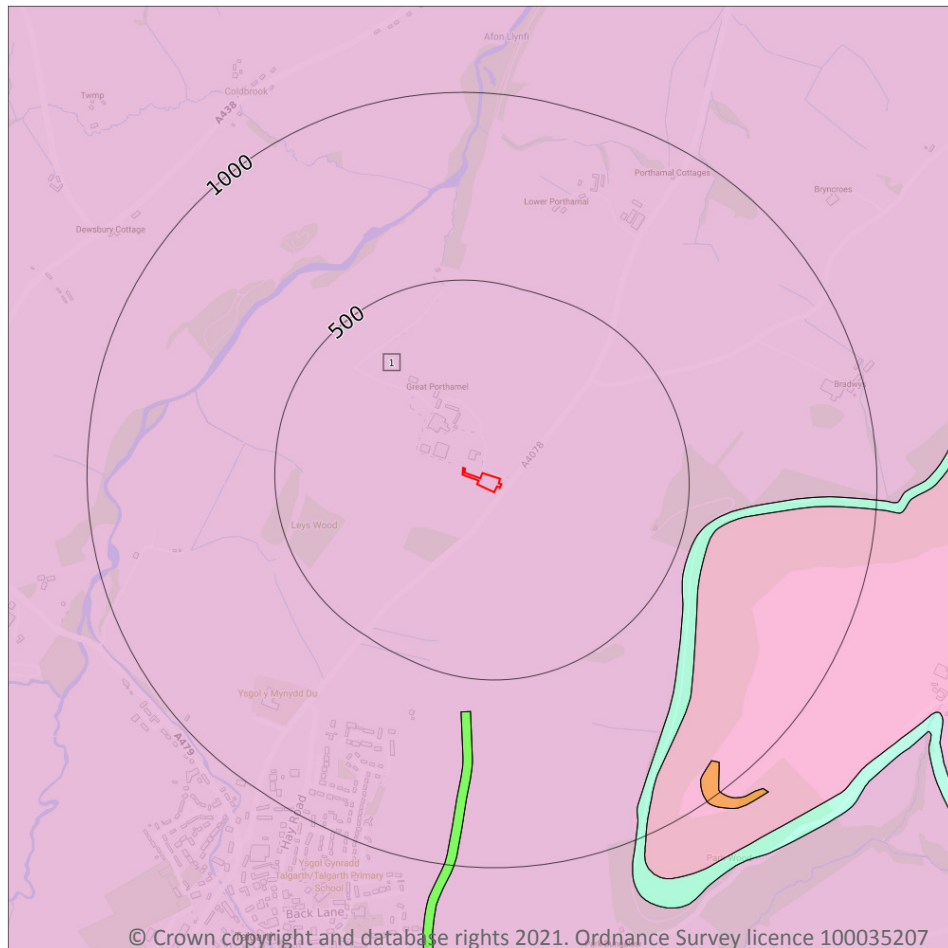
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



**— Site Outline**

Search buffers in metres (m)

**.... Bedrock faults and other linear features (50k)**

**Bedrock geology (50k)**  
Please see table for more details.

### 15.8 Bedrock geology (50k)

#### Records within 500m

1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 72**

ID	Location	LEX Code	Description	Rock age
1	On site	RG-SIMD	RAGLAN MUDSTONE FORMATION - SILTSTONE AND MUDSTONE, INTERBEDDED	-

*This data is sourced from the British Geological Survey.*



## 15.9 Bedrock permeability (50k)

### Records within 50m

**2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Fracture</b>	<b>Moderate</b>	<b>Low</b>
2m NE	Fracture	Moderate	Low

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

### Records within 500m

**0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 16 Boreholes

### 16.1 BGS Boreholes

Records within 250m

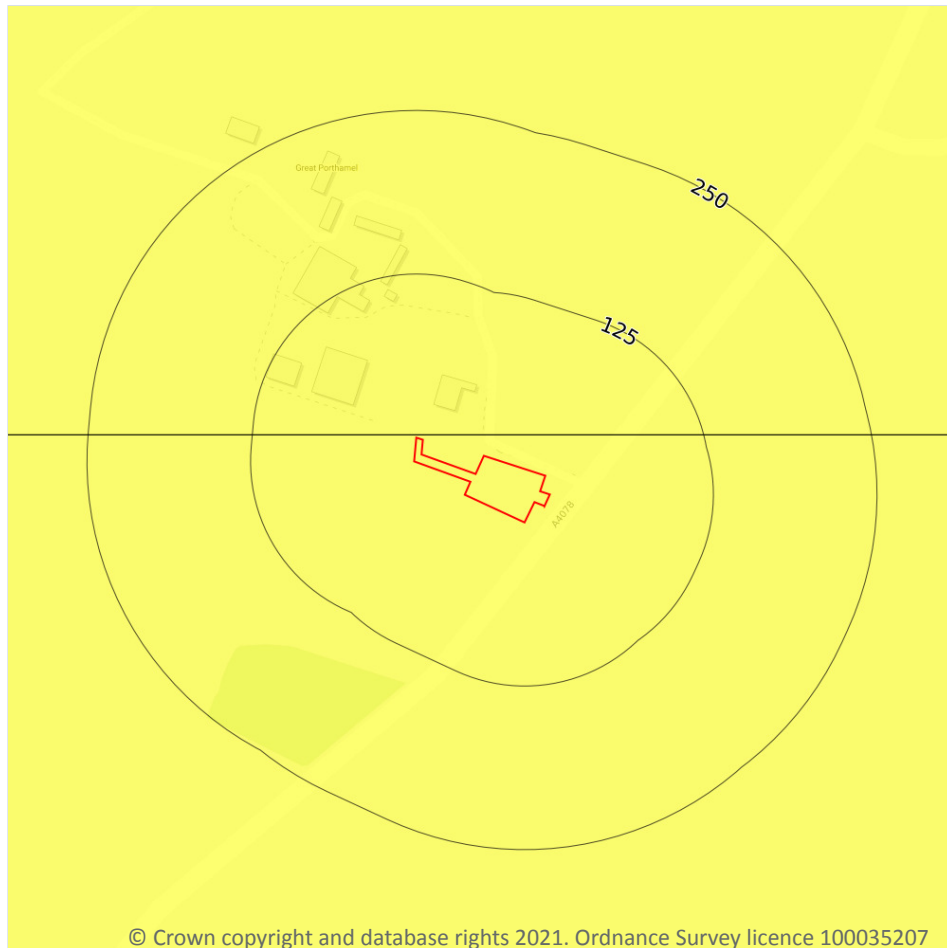
0

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



— Site Outline  
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

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### 17.1 Shrink swell clays

#### Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

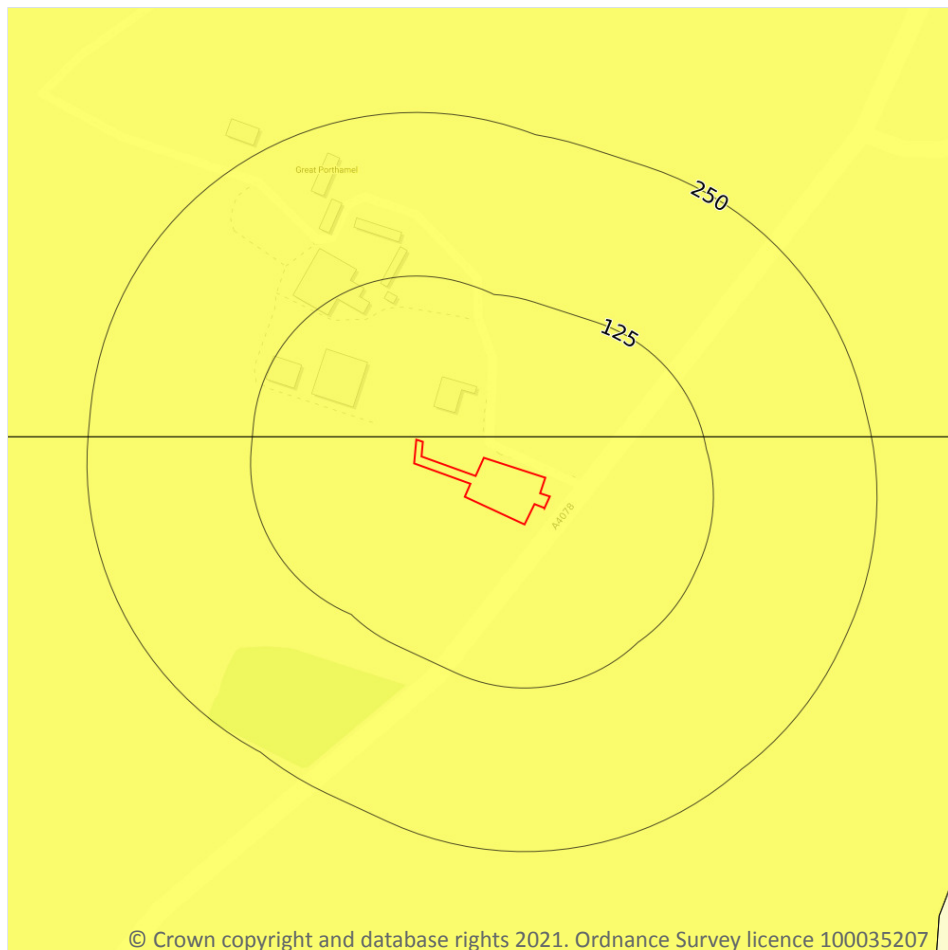
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 75**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
2m N	Very low	Ground conditions predominantly low plasticity.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.2 Running sands

#### Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 76**

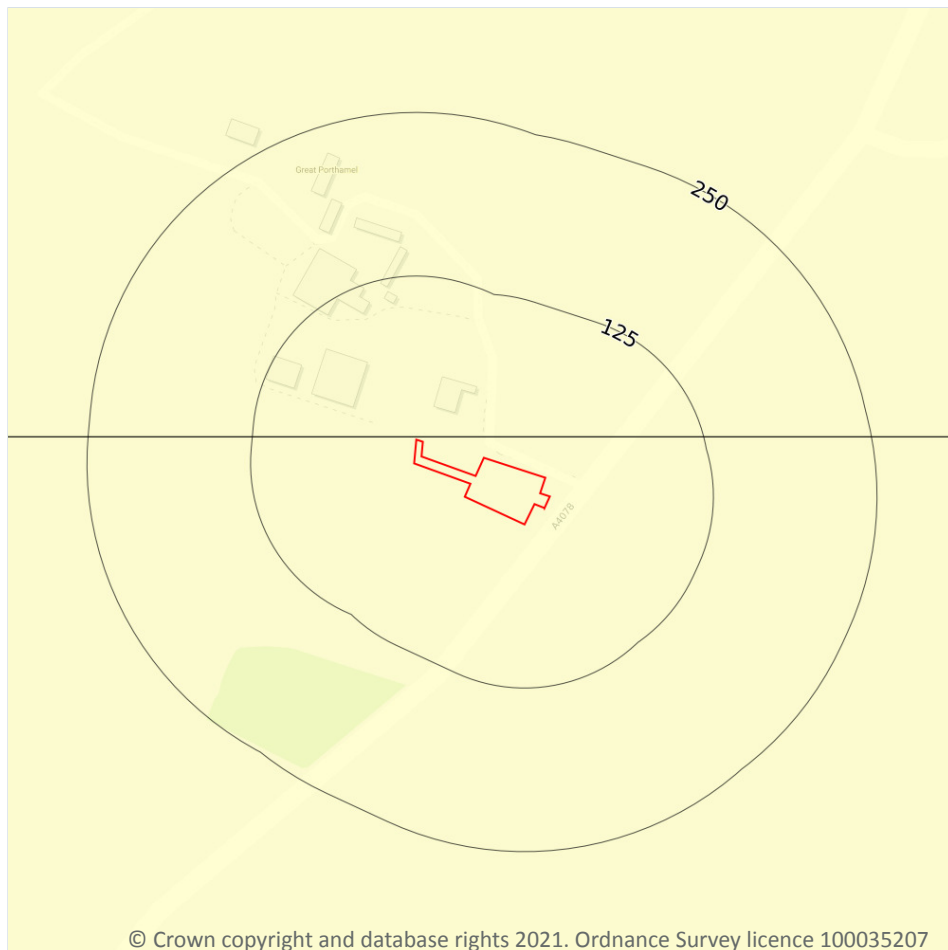
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
2m N	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

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### 17.3 Compressible deposits

#### Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

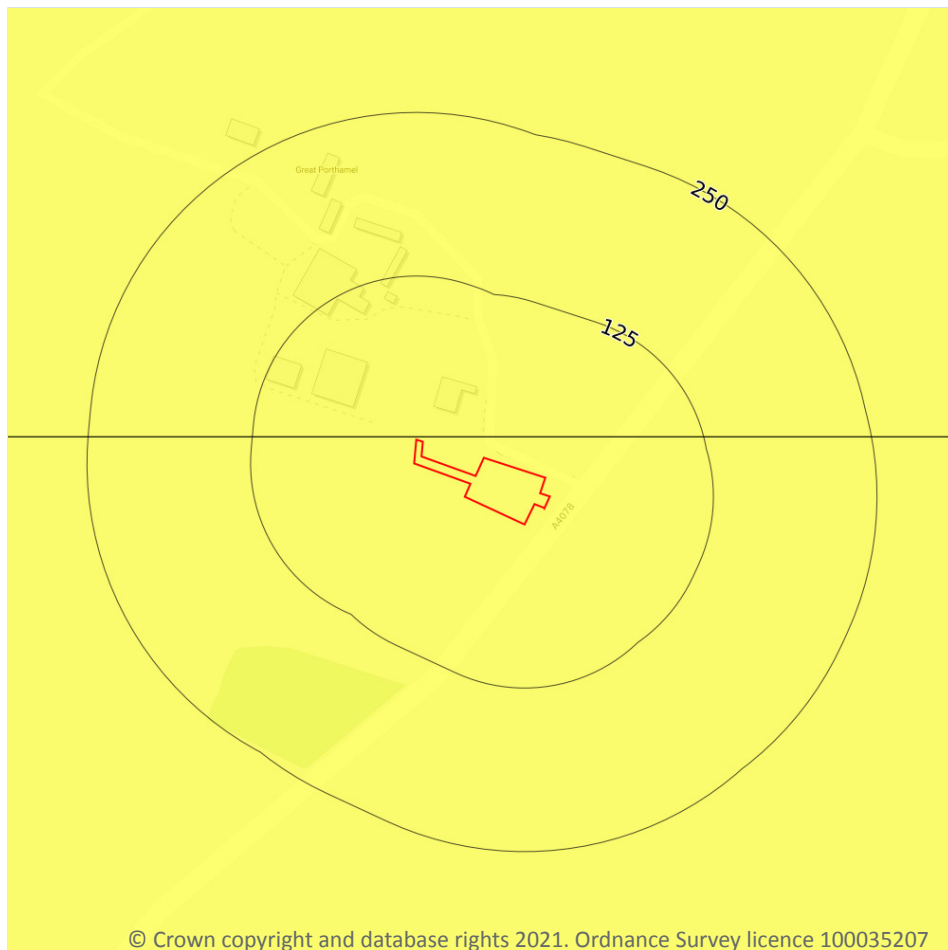
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 78**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
2m N	Negligible	Compressible strata are not thought to occur.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.4 Collapsible deposits

#### Records within 50m

2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

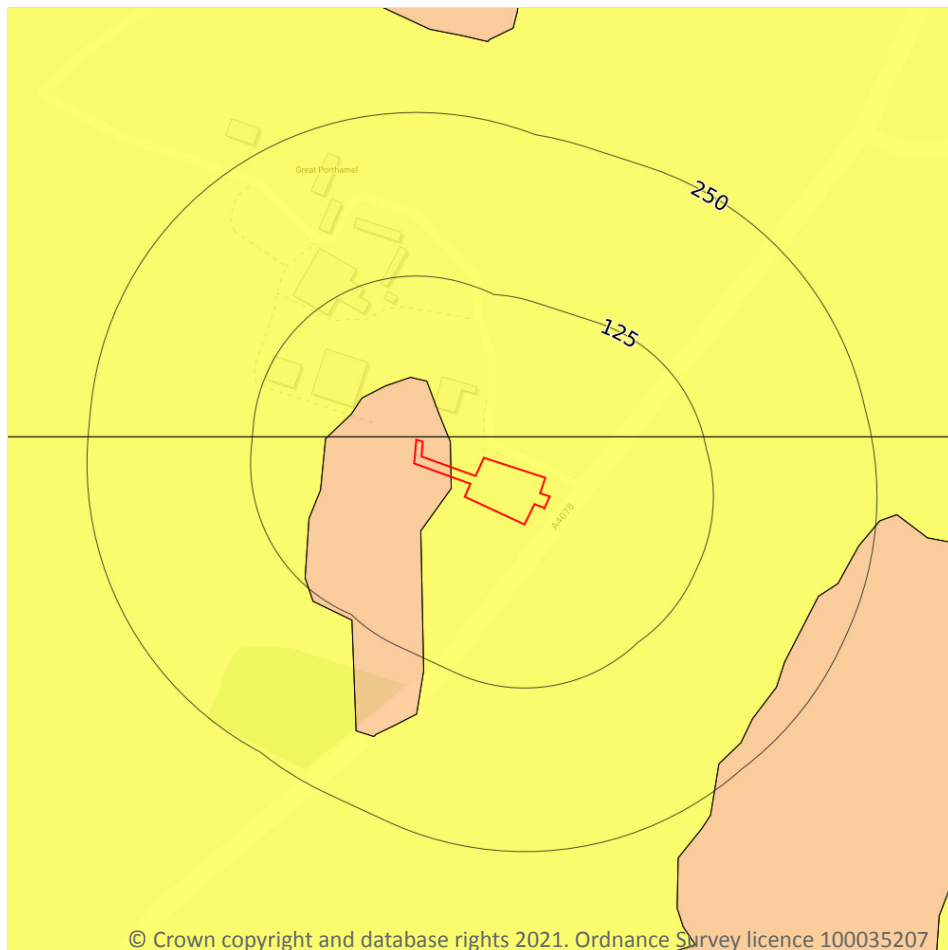
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 79**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
2m N	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

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### 17.5 Landslides

#### Records within 50m

4

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 80**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

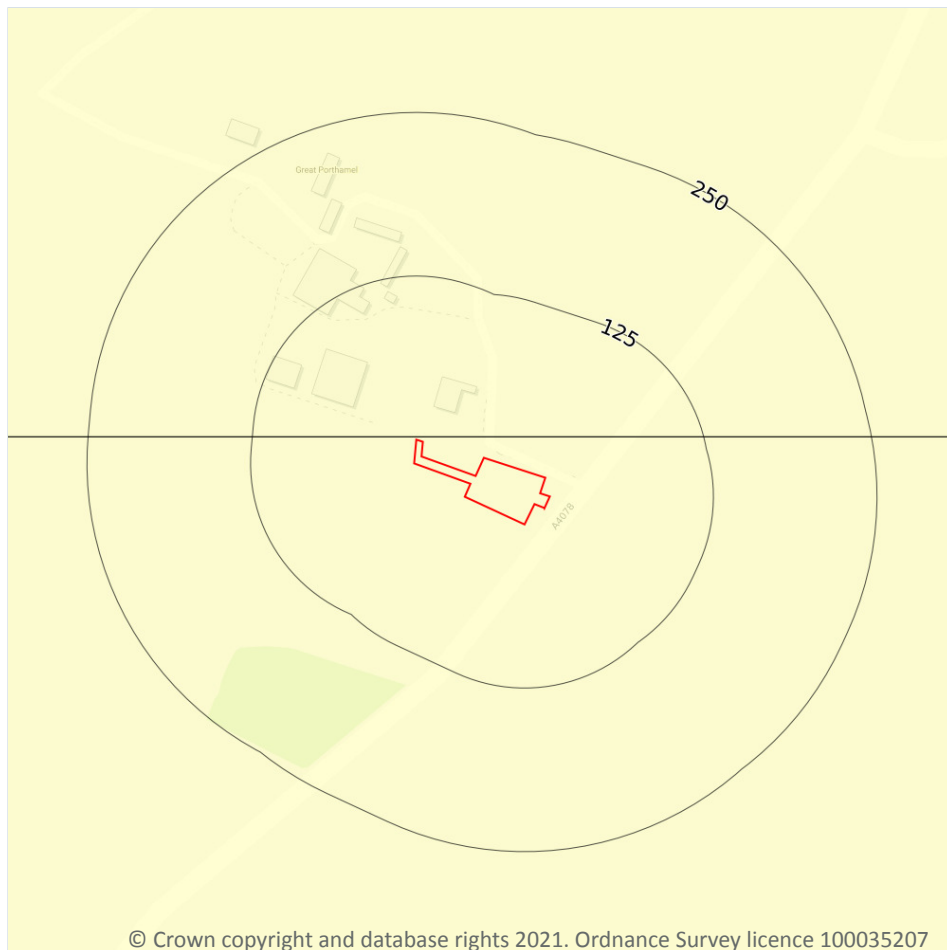


Location	Hazard rating	Details
On site	Low	<b>Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.</b>
2m N	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
16m N	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

2

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 82**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

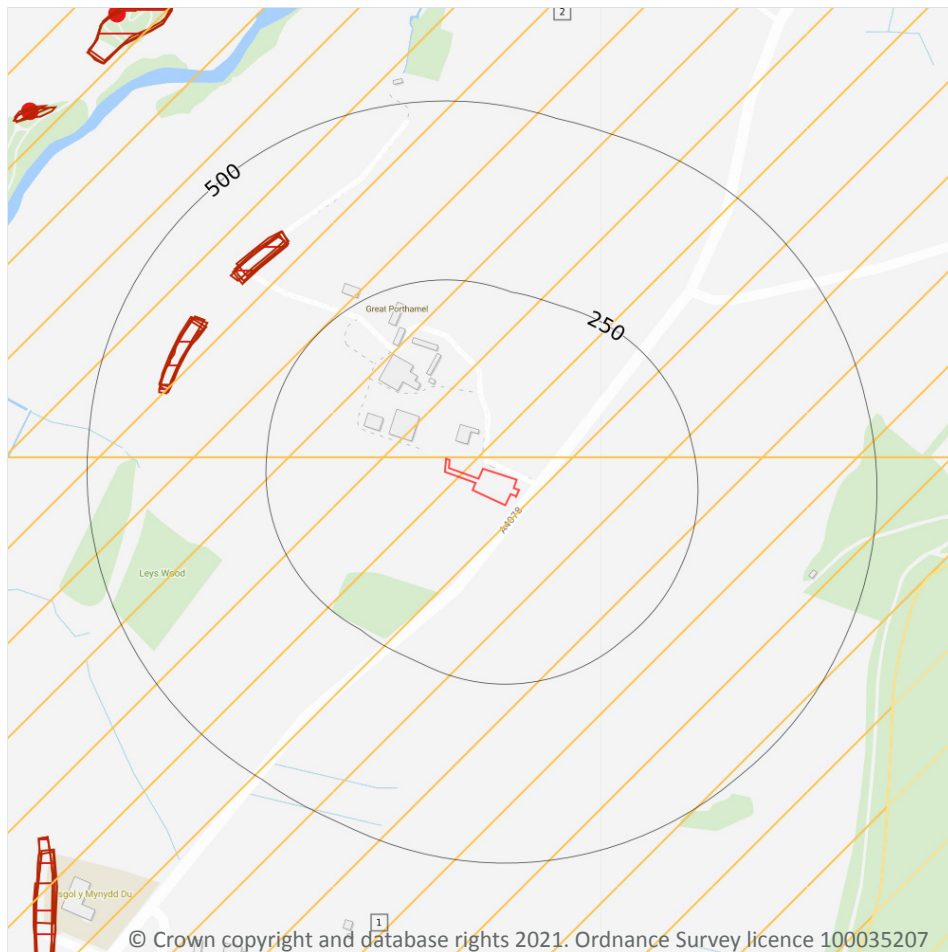


Location	Hazard rating	Details
2m N	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

### 18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

**Records within 500m****0**

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

**Records within 250m****0**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

**Records within 1000m****0**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

**Records within 500m****0**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

**Records within 1000m****3**

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 84**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Berwyn Hills	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	2m N	Berwyn Hills	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
3	573m E	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

**Records within 1000m**

**0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

**Records on site**

**0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

**Records on site**

**0**

Areas which could be affected by past, current or future coal mining.

*This data is sourced from the Coal Authority.*



## 18.10 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

*This data is sourced from the Cheshire Brine Subsidence Compensation Board.*

## 18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

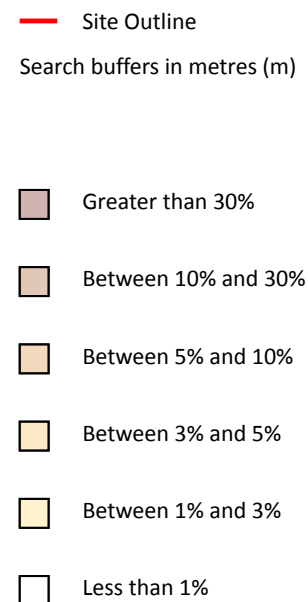
## 18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

*This data is sourced from the Kaolin and Ball Clay Association (UK).*

## 19 Radon



### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 88**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None

*This data is sourced from the British Geological Survey and Public Health England.*



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

6

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
<b>On site</b>	<b>15 mg/kg</b>	<b>No data</b>	<b>100 mg/kg</b>	<b>60 mg/kg</b>	<b>1.8 mg/kg</b>	<b>60 - 90 mg/kg</b>	<b>15 - 30 mg/kg</b>
2m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
2m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
2m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*



## 20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects

### 21.1 Underground railways (London)

Records within 250m	0
---------------------	---

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m	0
---------------------	---

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

*This data is sourced from publicly available information by Groundsure.*

### 21.3 Railway tunnels

Records within 250m	0
---------------------	---

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

Records within 250m	0
---------------------	---

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

*This data is sourced from Ordnance Survey/Groundsure.*

### 21.5 Royal Mail tunnels

Records within 250m	0
---------------------	---

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m**

**0**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

**Records within 250m**

**0**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

**Records within 500m**

**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

**Records within 500m**

**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

**Records within 500m**

**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.



*This data is sourced from HS2 Ltd.*



## Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



## Annex D: Soil Reference Data Sheet 2011



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The Avenue  
Delta lakes  
Llanelli  
Carmarthenshire  
SA15 2DS  
tel: +44 (0)1554 749720 / 757734  
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e-mail: info@geolab.org.uk

## Certificate of Analysis

Date: 05/04/2011

Client: Terra Firma

Our Reference: 12180-150311

Client Reference: 11338

Contract Title: Great Porthamel, Talgarth

Description: (Total Samples) 6

Date Received: 15/03/2011

Date Started: 28/03/2011

Date Completed: 29/03/2011

Test Procedures: (B.S. 1377 : PART 3 : 1990 AND BRE CP2/79)

Notes:

Solid samples will be disposed 1 month and liquids 2 weeks  
after the date of issue of this test certificate

Approved By:

Authorised Signatories:

Vaughan Edwards  
Managing Director

Wayne Honey  
Laboratory Technician

Alun Walters  
Technical Manager

**Contract No:** 12180-150311  
**Client Ref:** 11338  
**Location:** Great Porthamel, Talgarth  
**Date:** 05/04/2011



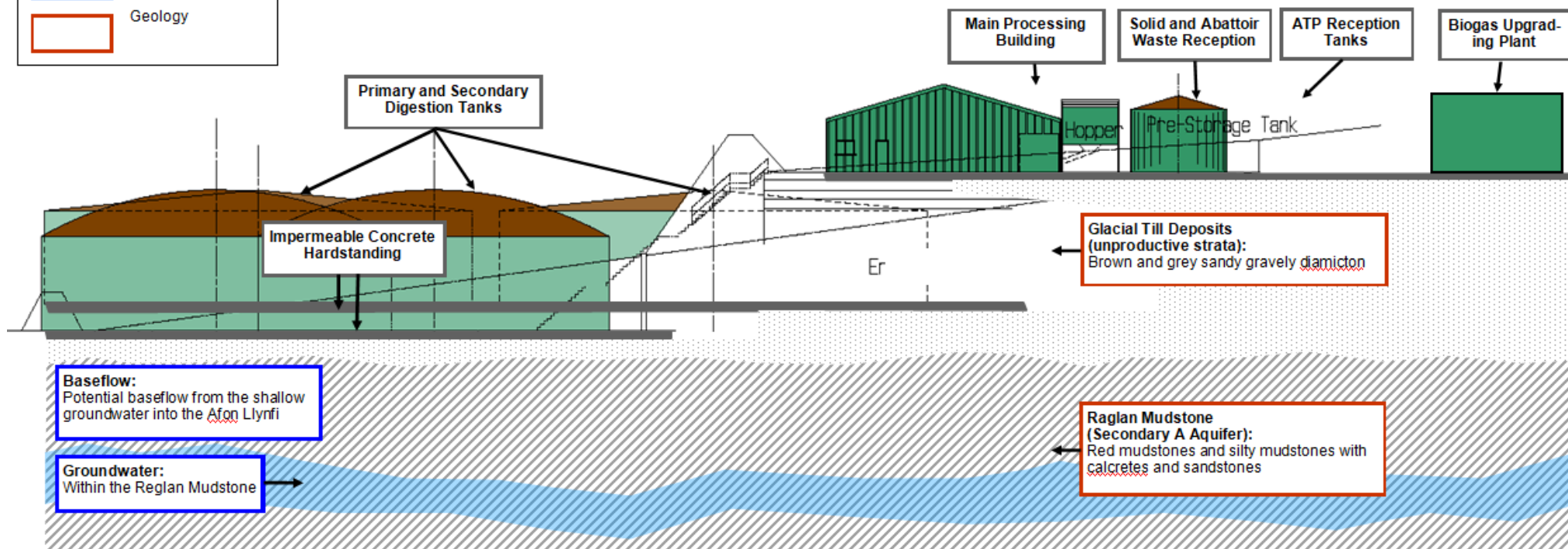
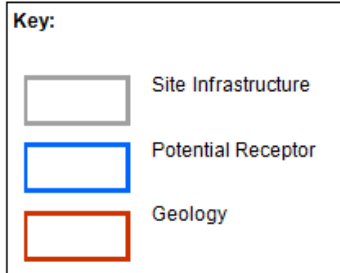
## SUMMARY OF CHEMICAL ANALYSES

**(B.S. 1377 : PART 3 : 1990 AND BRE CP2/79)**

[illegible]

NCP - No Chloride present

## Annex E: Conceptual Model



1. Do not scale off this drawing
2. All dimensions to be confirmed on site
3. This drawing is copyright of Sol Environment Ltd
4. This drawing is to be read in conjunction with relevant consultant drawings and specifications

Rev: 1  
Date: JAN 22  
Desc: Update 22

Client: GP Biotech Ltd  
Project: Great Porthamel AD Plant  
Drawing Title: Conceptual Model

Job No: SOL-21\_P001\_GPB  
Date: JAN 22  
Drawn By: STEVE BUTLER / CLAIRE GODDARD

Drawing No: GP01  
Revision: 1  
Scale: NTS



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