



Request for EIA Screening Advice

Hydrogen Production Facility:
Abernant Colliery

17 June 2026

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Hydrogen Production Facility: Abernant Colliery



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1. INTRODUCTION

Sol Environment Ltd (Sol), on the behalf of our client Dynevor Limited (hereby referenced as '*the applicant*'), have undertaken a formal screening exercise to establish whether their proposed development of a hydrogen production facility would constitute an 'EIA' development.

This document therefore comprises a formal request for Neath Port Talbot Council (as Planning Authority, 'LPA') to provide a screening opinion under Regulation 6 of the Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations').

The applicant intends to construct and operate a small-scale biomass gasification CHP plant for hydrogen production, on land at Abernant Colliery, Pontardawe, SA8 4SX. The gasification plant is highly specialist in its nature and uses the principles of advanced thermal conversion to chemically recover the energy from biomass and waste feedstocks and produce a clean syngas & hydrogen. The plant is principally designed to operate using non-hazardous low-grade waste wood or readily available waste streams such as pelletised Solid Recovered Fuel (SRF).

Under Regulation 6(1) of the EIA Regulations a person who is minded to carry out development may request the relevant planning authority to adopt a screening opinion.

Such a request must be accompanied by:

- a) a plan sufficient to identify the land;
- b) a description of the development, including in particular –
 - (i) a description of the physical characteristics of the development and, where relevant, of demolition works;
 - (ii) a description of the location of the development, with particular regard to the environmental sensitivity of geographical areas likely to be affected;
- c) a description of the aspects of the environment likely to be significantly affected by the development;
- d) to the extent the information is available, a description of any likely significant effects of the proposed development on the environment resulting from –
 - (i) the expected residues and emissions and the production of waste, where relevant; and
 - (ii) the use of natural resources, in particular soil, land, water and biodiversity.
- e) such other information or representations as the person making the request may wish to provide or make, including any features of the proposed development or any measures envisaged to avoid or prevent what might otherwise have been significant adverse effects on the environment.

The remainder of this note sets out information on the project and our professional evaluation of the likely significant effects that may arise, having regard to the provisions of the EIA Regulations and associated guidance contained within the web-based Planning Practice Guidance (PPG).

- Annex 1 provides site plans and location plans.
- Annex 2 provides a third party environmental report for the site.

2. SITE DESCRIPTION AND SETTING

Introduction

The application site is located approximately 3 miles northwest of Pontardawe centre and directly connects to the A474. The site is centred on National Grid Reference: SN 70131 08296.

The application site occupies an area of approximately 2.5ha and the site comprises semi-improved neutral and marshy grassland mosaic habitat which has established over the former colliery site. Other habitats onsite include dense and scattered scrub, scattered trees, streams, ditches and ponds.

The site encompasses a former colliery, lying directly adjacent to a number of commercial uses and surrounded by a number of agricultural uses. In terms of public transport provision, the nearest bus stop is located directly adjacent to the site – situated along the A474. The bus stops here are served by the X26 and 905 bus services, which provide services between Brynamman and Swansea, and Neath and Ystradgynlais respectively.

In addition, the site's proximity to the A474 provides convenient access to nearby settlements and to larger attractors such as the principal cities of Cardiff and Swansea through the A4067 and M4.



Figure 2.1 Aerial photographs of the site

Environmental Setting

British Geological Survey (BGS) sheet 230 (1:50,000 scale) shows the site to be mantled by Superficial Deposits of Glacial Till Deposits. The lithological description can be summarised predominantly as a gravelly clay/ clayey gravel with varying silt, sand and cobble content. The thickness of this overlying superficial deposit is typically 8-10m based on archival borehole information obtained via the BGS GeoIndex online source data. The Solid Geology of the area is represented by the Rhondda Member in the south. The lithological description can be summarised as green-grey, lithic arenites 'Pennant Sandstones' with thin mudstone/siltstone and seat earth and mainly thin coals. The Solid Geology of the north is represented by the Llynfi Member. The lithological description can be summarised as green-grey and blue-grey, feldspathic, micaceous lithic arenites ('Pennant sandstones') with thin mudstone/siltstone and seatearth interbeds and mainly thin coals.

The aquifer designation of the superficial deposits mapped on the site study area in the north, east and south is 'Secondary Undifferentiated', described as 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. Whereas it is mapped in the south-west of the site study area as 'Secondary A', described as 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.

Bedrock on-site has also been identified as a 'Secondary A' aquifer.

There are no portable water abstraction licences or source protection zones within 2000m of the site.

There are no records of surface water abstraction within 2000m of the site study area.

The site is not within a flood zone., and does not have any nearby designated sites.

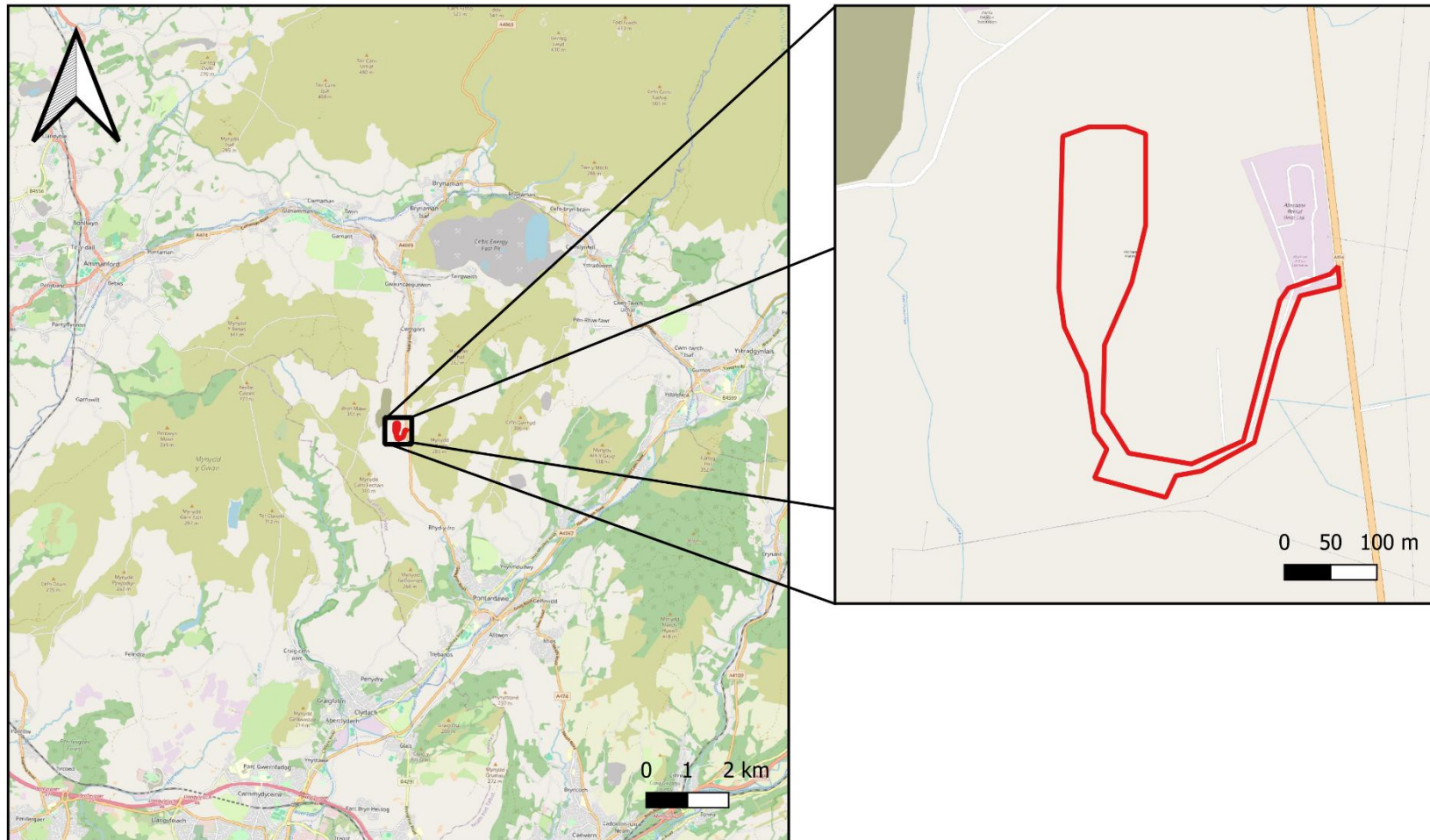


Figure 2.2 Site Location



Figure 2.3 Site Location (Aerial)

Site History

The Site

The site study area under investigation in the earliest available mapping (1877 – 1897) indicates the site is part of a larger field, with a narrow unpaved trackway extending from west to east (typical farm access track). The western boundary of the site is defined by a mature hedgerow and the remaining boundaries extending out into the open field. The map shows a footbridge located south-west on the site along the hedgerow. The nearest river is located immediately west of the site noted as the Upper Clydach River.

Mapping from 1900 indicates the site remains predominantly fields, although the mapping shows the development of a Smithy along the north-east boundary of the site. As well as the development of a Road 'Vantary Gaseg' extending from east to west in the north of the site.

The mapping shows the development of the site from fields into a Colliery from 1962, where Cwm Gors mineral Railway runs through the west of the site extending from the south of the site to the north in excess of 750m. The mapping shows the development of 2 drains adjacent to the Cwm Gors mineral railway approximately 20- 30m west. The previous noted railway has now been mapped as a Dismantled Railway Drain mapped immediately south of the site, shown in mapping from 1962.

In 1990 the mapping shows the development of tanks in the north-east and south on the site, as well as the site now noted as Abernant Colliery.

By 2024 the site study area becomes a disused colliery and is now noted as Cwm Gors.

The Surrounds

Historic mapping shows that the 1897 mapping shows a Quarry located 500m south-east of the site, with a neighbouring Old Coal Level approximately 10-20m west of the Quarry.

Between 1900 – 1905, the mapping notes the development of small residential dwellings approximately 350-400m east of the site. As well as a series of Quarries approximately 500m south-west of the site, with a spring approximately 50m east of the Quarries.

The mapping from 1913 shows the development of Quarries approximately 450m west of the site, old coal levels approximately 400-450m west of the site, as well as the development of Pwllau Works approximately 450m north-west of the site. The mapping also shows the addition of three rises approximately 700m west of the site. As well as a series of rises approximately 550-750m south of the site. The 1913 mapping also notes the addition of two Old Coal Levels approximately 350-500m southeast of the site.

The 1921 mapping shows the addition of a Quarry approximately 300m northeast of the site. As well as the development of residential dwellings approximately 700m northwest of the site.

The mapping from 1990 shows workings immediately south of the site extending in excess of 750m south of the site, with 2 drains located within the workings.

All works are ceased in the most modern mapping available.

3. PROCESS DESCRIPTION

Introduction

The proposed development comprises the development of a waste-to-hydrogen generation facility utilising state-of the-art technology to produce 175 kg of hydrogen per hour from 50,000 tonnes of waste per year. The proposal seeks to support the reduction of waste going to landfill across Neath Port Talbot, Carmarthenshire, Swansea, Powys, and Pembrokeshire. As such, the proposal will seek to reduce the amount of household waste in these Authorities going to landfill.

The proposed development comprises the following;

- Hydrogen plant;
- Recycling and segregation building;
- 6no. hydrogen storage tanks;
- Workshop;
- Office;
- Weighbridge; and
- 60 no. staff / visitor parking spaces.

Compact Syngas Solutions ((CSS) the scheme's partner) have developed a modular gasification technology (Micro-Hub) for the production of syngas, power, heat, cooling, hydrogen and biochar. Their latest product, MicroH2-Hub, has a small footprint (50m x 40m for a gasifier 1000 solution) that will produce 175kg of hydrogen/hr from syngas produced, plus 600kW of power from 50,000 tonnes of Solid-Recovered-Fuel (SRF) or Waste Wood/Biomass (feedstock) per annum. CSS brings together an integrated solution, from the production of syngas, power and hydrogen, to a storage and dispensing facility.

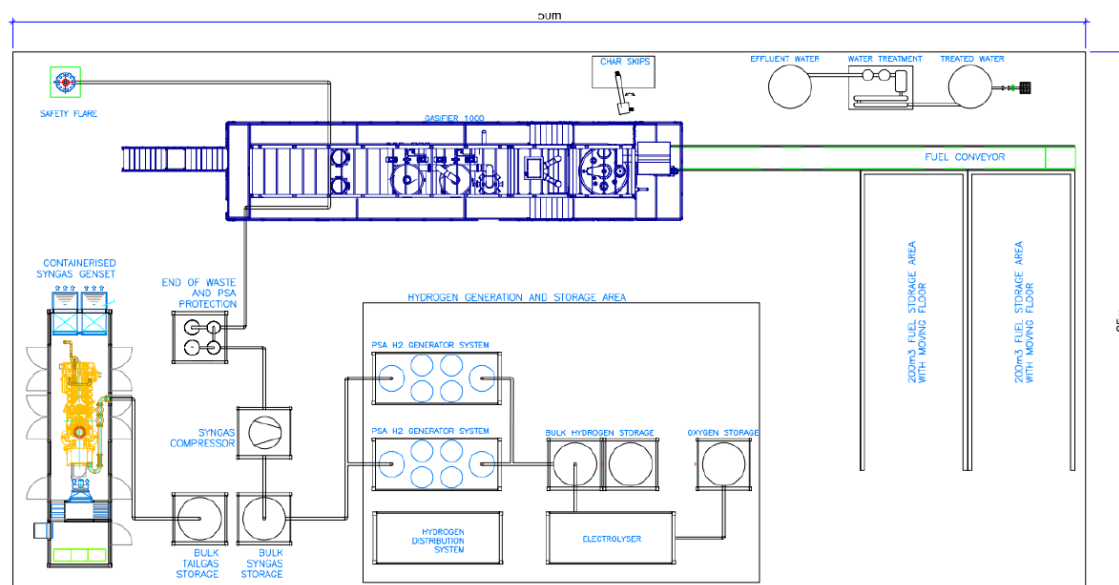
The feedstock will be separated via a screening plant undergo pre-gasification stages to remove metals/plastics and be further refined into a solid fuel.

The power generated through a gas reciprocating engine is utilised firstly to support the parasitic site load and secondly through an electrolyser to increase the volume of hydrogen production. Heat recovered via the CHP system will be converted to cooling through an absorption chiller which then reduces the parasitic load of the plant and maximises the H₂ production via the power available for electrolysis.

The MicroH2-Hub uses downdraft gasification technology, which is one of the cleanest and most efficient methods of converting biomass and waste into valuable synthesis gas (syngas), capable of directly fuelling gas reciprocating engines to generate power. An additional output from the MicroH2-Hub is Biochar which can contribute to environmental restoration, carbon removal, soil regeneration, and the circularity of industrial and agricultural systems. Volumes of Biochar equate to approximately 5 to 10 % of feedstock

volume dependent on the ash content of feedstock. The by-product (i.e. Biochar) will be used within the tarmac production, cement production and rubber production if the carbon content does not reach the requirements for use as a soil improver.

The MicroH2-Hub solution utilises a range of feedstocks and supports sustainability, decarbonisation and net zero goals for environmentally conscious organisations. Once the hydrogen has been produced, it will be stored in the 6no. storage tanks located north of the plant building. The product will then be collected and transported off-site to available storage centres across the forementioned regions to allow for the product to be used for electricity generation. The following series of plans depict a preliminary concept of the waste-to-hydrogen generator and its associated gasifier:



Proposed waste to H2 system plan

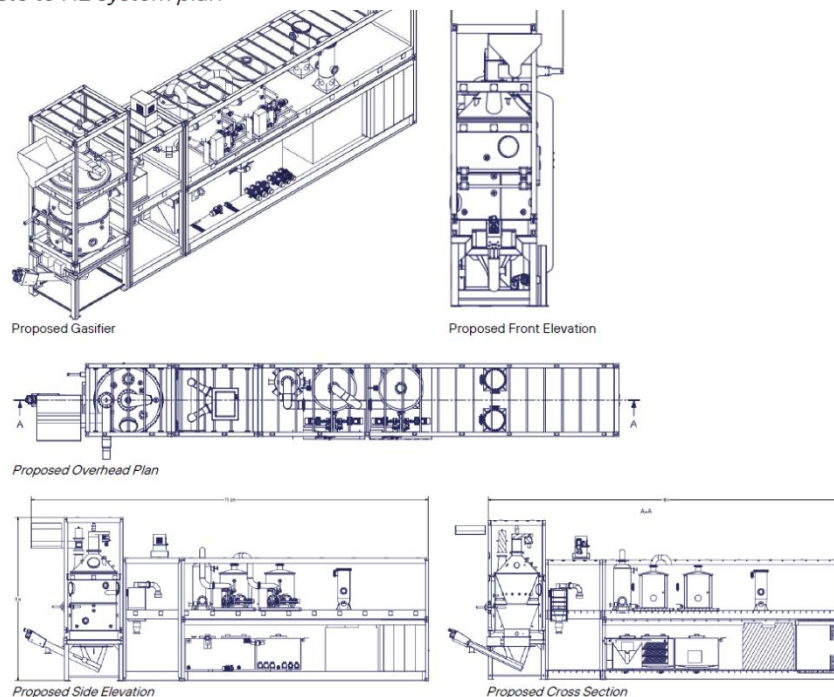


Figure 3.1 Proposed plant drawings

4. STATUTORY BASIS OF EIA

Legislative Basis

The EIA Regulations (Wales) provide the basis for determining whether a development would constitute an EIA development.

The EIA Regulations specify the types of development for which an EIA is mandatory (Schedule 1 Projects) and those categories of development where an EIA may be required (Schedule 2 Projects).

The proposed application is for the construction and operation of a specialist hydrogen production facility utilising non-hazardous waste feedstocks.

The proposed activity is not considered to constitute a waste disposal incinerator with a capacity exceeding 100 tonnes per day, hazardous waste incineration, or an integrated chemical installation as defined under Schedule 1 of the EIA Regulations.

Given consideration to Schedule 2 of the EIA Regulations Paragraph 6 and Paragraph 11 include both Chemical and Waste Processing Activities which may be relevant and states:

Schedule 2, Paragraph 6:

- (a) Treatment of intermediate products and production of chemicals; or
- ~~(b) Production of pesticides and pharmaceutical products, paint and varnishes, elastomers and peroxides; where the area of new floorspace exceeds 1,000 square metres.¹~~
- ~~(c) Storage facilities for petroleum, petrochemical and chemical products where 2
 - ~~(i) The area of any new building or structure exceeds 0.05 hectare; or~~
 - ~~(ii) more than 200 tonnes of petroleum, petrochemical or chemical products is to be stored at any one time.~~~~

Schedule 2 Paragraph 11

For installations for the disposal of waste the criteria for “Schedule 2 development” is noted as being cases where:

- (i) the disposal is by incineration; or
- (ii) the area of the development exceeds 0.5 hectare; or
- (ii) the installation is to be sited within 100 metres of any controlled waters.

¹ No pesticides, pharmaceuticals or paints etc are proposed to be produced at site.

² There is no storage facilities in excess of 0.05 hectares or 200 tonnes proposed

Although the proposed gasification facility is not a disposal operation (as it recovers value from the waste feedstocks), it should be noted that the descriptions of the types of development need to be interpreted widely³ and this category is often used for recycling and recovery facilities. On this basis we need to assume that the gasification process can be described as being a waste Disposal Activity, however as the area of the site is less than 0.5ha and not within 100m of controlled waters the Proposed Development does not screen positively for Schedule 2 EIA development under Paragraph 11.

The proposal is critically not incineration, as no combustion occurs within the gasification plant as it resides in an anoxic environment making combustion impossible.

The production of clean syngas has been considered further and using a precautionary approach the remainder of this Screening Assessment assesses the potential impacts of the facility as a Schedule 2, Paragraph 6 (Chemical Production) development.

When screening Schedule 2 projects the LPA must, in accordance with Regulation 5(4), take account of the selection criteria in Schedule 3 of the EIA Regulations. Not all of the criteria will be relevant in every case. Each case should be considered on its own merits in a balanced way.

The proposed site is not located within a 'sensitive area' as defined by the EIA Regulations (such as Sites of Special Scientific Interest – SSSI) and does not have any sensitive residential or commercial receptors in the near vicinity.

The government advises that only a very small proportion of Schedule 2 development will require an assessment. It further advises that, while it is not possible to formulate criteria or thresholds which will provide a universal test of whether or not an assessment is required, it is possible to offer a broad indication of the type or scale of development which is likely to require an assessment. It is also possible to provide an indication of the sort of development for which an assessment is unlikely to be necessary.

The guidance also clearly states:

"it should not be presumed that developments above the indicative thresholds should always be subject to assessment, or those falling below these thresholds could never give rise to significant effects, especially where the development is in an environmentally sensitive location. Each development will need to be considered on its merits."

Guidance adds that, in general, the more environmentally sensitive the location, the lower the threshold will be at which significant effects are likely, and an assessment is more likely to be required if the project affects the features for which the sensitive area was designated.

³ C-72/95 Kraaijeveld and others v Gedeputeerde staten van zuid-Holland ([1997] All ER (EC) 134) (colloquially known as the "Dutch Dykes" case)

However, it does not follow that every Schedule 2 development in close proximity to such sensitive areas (such as Natura 2000 sites) will automatically require an assessment.

The EIA guidance goes on to advise that: *‘It will be necessary to judge whether the likely effects on the environment of that particular development will be significant in that particular location’.*

The following sections explain the setting of the site and its relationship with the sensitive areas and considers the likely effects of the proposed development in the context of the nature of the development and the planning controls (which could be imposed on the grant of planning permission).

Planning and Pollution Control

Government advice on waste planning makes it clear that it is important to avoid unnecessary or confusing duplication.

It is key to note that the proposed energy recovery and chemical recycling process falls under the regulatory control requirements of the Environmental Permitting Regulations 2016 (EPR). Under these regulations, all aspects of the process and associated emissions (to land, air and water, noise and amenity impact) will be regulated by either the Local Authority or Natural Resources Wales under defined conditions and controls.

In accordance with the EPR, an environmental permit can only be granted by the competent authority where they are satisfied that a regulated activity is not likely to have a significant adverse effect on the environment.

Given that all of the emissions from the plant will be regulated and by definition none of these impacts can be significant, then it can be assured that all impacts will be acceptable in terms of environmental impact.

Consideration under Schedule 3

Characteristics of the Development

Size and Design of Development

The proposed development is relatively small in scale: the land take of the new process is around only 2.5ha, which is significantly below the 5ha threshold in the EIA Regulations. The design of the site will incorporate a new floor slab structure associated with the modular plant and utilise the road and infrastructure associated with the wider waste recycling facility.

The plant design includes the installation of a number of above ground modular gasification and gas CHP engines that also includes a number of other items of ancillary plant (such as the thermal oxidiser, gas scrubber and conditioning towers etc which form part of the gasifier). The storage of hazardous gases and liquids does not take place in significant quantities and therefore do not trigger either the upper or lower tier thresholds for COMAH and do not have the potential for significant on-site or off-site accidents or hazards.

The proposed site has no nearby sensitive neighbours that are anticipated to be adversely impacted by the proposals. Further to this the proposed site is located on a former colliery, and therefore the development will make effective use of this land.

As such, the proposed development by the applicant is both contextually appropriate and will provide a modern recycling facility on a suitable site.

Cumulation with Other Existing Development and/or Approved Development

There would be little, if any cumulative impacts in relation to other development surrounding the site, as the proposed development site does not have any industrial neighbours.

The installation of the modular gasification units at site in the chosen location affords sufficient separation distance to the nearest sensitive receptors and as such that it is considered that there would not be a likelihood of significant effect, either individually or cumulatively.

Furthermore, and most significantly, the nature of the proposed development, like many industrial and waste management developments, would require an Environmental Permit in addition to planning permission. As part of the permit process consideration would be given to emissions and the potential effects upon the environment.

Use of Natural Resources, in particular land, soil, water and biodiversity

The proposals would not use a substantial amount of, or significantly affect, natural resources. The proposals involve the development of a disused former colliery which has had its use exhausted. The development plot is currently an underutilised and undeveloped plot of land. The ecologists will fully assess the value of the proposed plot and provide a scheme in line with Net Benefit for Biodiversity principles.

Suitable mitigation measures would be designed into the scheme to protect water resources from any pollution as required by the Environmental Permitting Regulations.

The former colliery has been confirmed to be fully exhausted and therefore the value of it is depleted. Information pertaining to this will be provided alongside the full planning application.

Production of Waste

The proposed development is aimed at chemically recycling solid recovered fuels to clean syngas for the purposes of displacing fossil fuel usage at site. With the exception of vitrified ash products that can be used as a construction aggregate, very little if any wastes are produced by the facility.

Pollution and Nuisance

The process will be subject to the pollution prevention controls stipulated by the Environmental Permitting Regulations.

The principal emissions relating to the process are as follows:

- **Emissions to Air:** Abated emissions arising from the combustion of the syngas within the gas engines. These emissions are by their nature low in pollutant concentrations and not significant. The gasification plant will be installed with 'pre' combustion syngas clean up to ensure that all emissions are free from particulate, acids gases, halides, volatile organic compounds and dioxin / furan.
- **Dust:** Dust emissions from the storage and processing of the incoming pelletised waste feedstock will all be subject to extraction and filtration to ensure that there are no adverse emissions of dust.
- **Odours:** There are no odours relating to the process. It is a stipulation that all emissions to air are cleaned to meet the indicative BAT requirements of the Environmental Permitting Regulations and are demonstrated to have an acceptable (i.e., non-adverse) impact on the environment.
- **Emissions to Water:** With the exception of small volumes of wastewater emissions from the scrubbing and condensing systems, there are no effluent releases from the process. All process effluents will be cleaned to the extent that they can be discharged to the sewer under an Effluent Discharge Consent to the local sewerage undertaker. Under the requirements of the Environmental Permitting Regulations, all storage and processing areas will be required to be equipped with pollution prevention measures (bund compounds, controlled storage etc) to ensure that there is no potential for surface water runoff to be contaminated. The surface water drainage system will be equipped with a three stage (Class 1) interceptor to enable the removal of solid and trace oil contamination prior to release to controlled waters. As a requirement of the EPR, the site surface water drainage systems will be required to be isolated in the event of a fire so as to avoid the potential release of contaminated firewater's entering controlled waters. Therefore, both under normal and emergency operations, there will be no potentially polluting releases to controlled waters.
- **Emissions to Land:** There are no releases to land from the process. The site will be constructed with robust protection measures, including primary, secondary and tertiary containment structures that fully protect the underlying geology and groundwater. Under the requirements of the EPR, the site is required to both establish a baseline prior to the commencement of operations and carry out ongoing infrastructure and groundwater monitoring throughout the lifetime of the permit to ensure and demonstrate that all protection measures are adequate in preventing any releases to the subsurface environment.
- **Emissions of Noise:** All noise emissions from the plant are controlled to ensure that they will not create noise nuisance or disturbance. The plant will incorporate a number of noise control measures, such as noise enclosures, stack exhaust attenuators and screens to ensure that all impacts are mitigated. The site will not generate significant traffic volumes and will only accept

deliveries during daytime only. Furthermore, the location of the site is not sensitive in terms of noise nuisance and will therefore not be an issue.

In summary, the controlled nature of the process, the controls required by the Environmental Permitting Regulations and the relatively low sensitivity of the site will ensure that all potential impacts associated with the facility will not have an adverse impact on the environment.

Risk of Major Accidents and/or Disasters Relevant to the Development (including those caused by climate change)

The development does not fall within the scope of COMAH and is therefore not considered to have the potential to create a major accident or incident.

All climate change impacts relating to increased flood levels and flood risk will be addressed through the design of the facility and will ensure compliance with national planning requirements.

In securing the Environmental Permit for the site, it is necessary to provide a suite of accident management and fire prevention plans to adequately demonstrate that the site is able to manage all likely incidents or accidents to the satisfaction of the competent authorities. Environmental Permits will only be granted for the facility on the basis that the risks are considered to be low.

Risks to Human Health (e.g., due to water contamination or air pollution)

Potential risks to human health through ground and surface water pathways or air pollution would be fully assessed through the Environmental Permit application. Again, suitable assessments would be undertaken to demonstrate that applicable limits can be met, and mitigation designed into the scheme. For example, in relation to surface water, suitable mitigation in the form of a drainage scheme would be provided, including carrying out of operations within buildings; tanks being within bunded enclosures and sited on impervious hardstanding etc.

Characteristics of the Location

This requires consideration of the environmental sensitivity of geographical areas likely to be affected by development.

Existing and Approved Land Use

All land directly affected by the proposed development has historically been utilised as a colliery, and since the 1980's has been left derelict. Therefore the proposals would develop this site for a functional employment and hydrogen production site.

Relative Abundance, Availability, Quality and Regenerative Capacity of Natural Resources in the Area

The planning application will demonstrate that the colliery has been exhausted of usable minerals, and therefore no impact will be created to natural resources.

Absorption Capacity of the Natural Environment

The proposals would not adversely affect any wetlands; coastal zones; mountains or forests; nature reserves and parks; statutorily protected cultural, ecological or landscape sites, being specifically referred to in Schedule 3.

The site is separated from residential areas and due to the nature and relatively small scale of the proposed development it is considered that the local environment could readily absorb the scheme.

All buildings in the immediate vicinity of the proposed development are used for industrial uses, many of which comprise substantial industrial buildings.

Due to the limited scale of the development, coupled with its location being separated from residential dwellings, it is concluded that the local environment could readily absorb the proposed development.

Types and Characteristics of the Potential Impacts

This requires the likely significant effects of the development on the environment to be considered.

In the light of the above consideration of both the characteristics of the effects and the sensitivity of the location, it may be concluded that the potential impacts on the environment are not significant in respect of their extent, magnitude, complexity or duration.

These points will be supported by the information set out in a supporting statement accompanying the planning application.

Consideration of Potential Environmental Effects

In relation to the criteria contained in Schedule 3 EIA Regulations, the following points have been highlighted:

Air Quality

The nearest residential receptors to the proposed development site are approximately 150m to the east, directly abutting the A474.

The separation distance between the development site and the receptors identified above is such that effects from dust (during construction) should be minimal.

There are no Air Quality Management Areas within 2 miles of the site.

In terms of operational effects, the enclosed nature of the gasification process and the types of materials processed minimises any effects of odour. With the exception of a small number of emergency vents and flues, no new significant emissions release points will be created on site.

All aspects of the permitted activities would be supported by atmospheric dispersion modelling, and this would be undertaken irrespective of whether the development is considered to be EIA Development or not.

The scope of the air quality assessment would comprise the following:

- Baseline evaluation – review of existing air quality in the local area;

- Construction phase assessment – assessment of potential air quality impacts associated with the construction phase of the proposed scheme (construction dust and vehicle emissions);
- Traffic emissions screening assessment – screening of potential air quality impacts associated with the operational phase vehicle movements;
- ATR / Gasification Plant flue gas / thermal oxidiser emissions assessment – modelling of potential impacts on air quality against standards for the protection of health and ecosystems; and
- Fugitive emissions assessment – assessment of potential odour emissions during the operational phase.

In this context it is important to note Government's guidance that regulatory regimes should not duplicate each other.

Ecology

The development will result in the loss of habitats on site, namely identified to be marshy grassland mosaic. Biodiversity enhancements will be included where possible on site. Through the AQ assessment noted above, consideration would be given to aerial dispersion within designated areas. As part of the planning application an ecological assessment and arboriculture assessment will be provided.

Landscape and Visual

The site is located within a sensitive area with regard to landscape however is not overlooked or viewed by residential properties. Further to this it is adjacent to an existing set of industrial buildings.

The proposed development would introduce new buildings and structures with buildings up to 12m in height and a small flue stack that will be less than 25m in height.

Overall, the immediate surrounding area is a mix of industrial and undeveloped in nature, as such no significant landscape effects are predicted.

Noise

As for air quality considered above, the nearest receptors are approaching 150m for the proposed development sites entrance, and 270m from the operational site area. The new plant will be fully enclosed and acoustically treated, thus reducing the potential for noise disturbance than the current operations.

To demonstrate that the proposed development would not have an adverse effect on local amenity a noise assessment would be undertaken to support the planning application. This would use background noise levels measured at nearby receptors as part of a noise survey and then compare the predicted noise levels against the background levels, following the guidance in BS 4142. This type of assessment is typically required for a range of industrial developments irrespective of whether the development is falls within the scope of Schedule 2 of the EIA Regulations. Based on the assessment, planning conditions can be imposed to limit noise emissions at nearby receptors, ensuring that local amenity is not adversely affected.

As such the proposals would not give rise to a significant effect on the noise environment that could not be mitigated.

Traffic and Transport

The Proposed Development is anticipated to require approximately 10 HGV movements per day, in order for the plant to consume up to 50,000tpa of feedstock. As the proposals are located directly off of the A474 utilising an existing access road, the proposals are not thought to create adverse highway impacts.

Hydrogeology and Hydrology

In terms of potential risk to the water environment, suitable mitigation would be designed into the proposed development. This would include carrying out of operations within buildings; storage tanks being within bunded enclosures and sited on impervious hardstanding; use of hardstanding to site other plant on; areas trafficked by vehicles would be surfaced, and a one-way circulation system operated for movement of HGVs around the site. This would significantly limit the potential for any significant effect to occur.

In the context of off-site flood risk, the site would be designed to limit this, with a suitable surface water management scheme designed to attenuate surface water. Due to the small scale of the development, there are no mandatory planning requirements to provide a Flood Risk Assessment.

As such no significant effect is anticipated as a result of the proposals.

Archaeology and Cultural Heritage

The site has little or no identified cultural heritage value. There are no Scheduled Monuments nearby that could be affected by the proposed development.

Conclusion

The proposed development has been screened against Schedule 1 and Schedule 2 of the EIA Regulations with the following conclusions made:

- The Proposed Development does not meet the description of a Schedule 1 Activity;
- The Proposed Development does not meet the description of a Schedule 2, Paragraph 11 Activity;
- When considering the application of Schedule 2, Paragraph 6 and whether or not the Proposed Development has the potential for significance under Schedule 3 of the EIA regulations, it is concluded that the process is neither of sufficient size or scale to have any significant impacts, nor located within a highly sensitive area that has the potential to be adversely impacted by the process.

It is therefore concluded that the Proposed Development will not give rise to any potentially significant effects in relation to the characteristics of development, location of development, or types and

characteristics of potential impact, and that the proposed development does not meet the criteria for development requiring EIA.

5. CONCLUSIONS AND SUMMARY

The applicant proposes to develop a small-scale biomass gasification Combined Heat and Power (CHP) facility for hydrogen production on land at the former Abernant Colliery, Pontardawe. The development will utilise advanced thermal conversion technology to recover energy from non-hazardous residual waste, producing clean syngas and hydrogen for beneficial use. The site comprises previously developed brownfield land associated with the former colliery and is located adjacent to existing industrial uses.

Once operational, the facility will represent a specialist energy recovery and hydrogen production process, incorporating modular gasification units, gas cleaning systems, CHP engines and associated ancillary infrastructure. The process has been specifically designed to operate within a controlled environment, with emissions, noise, drainage and waste management measures integrated into the development from the outset. Residual materials arising from the process will be minimised, with vitrified ash products capable of beneficial reuse, while wastewater and surface water will be managed through appropriately designed treatment and drainage systems.

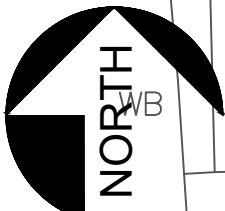
The development will be designed and operated in accordance with Best Available Techniques (BAT) and will be regulated through the Environmental Permitting Regulations. All emissions to air, water and land will be subject to stringent environmental controls, whilst the storage and handling of materials will be undertaken in accordance with applicable environmental and health and safety legislation. The permitting process will ensure that the facility operates without giving rise to significant adverse effects on the environment or human health.

A screening assessment of the proposed development against the Town and Country Planning (Environmental Impact Assessment) Regulations indicates that the scheme does not constitute Schedule 1 development and does not meet the criteria for Schedule 2 development under Paragraph 11. Whilst the proposal has been assessed on a precautionary basis against Schedule 2, Paragraph 6 (Chemical Industry), it is concluded that the development is of a limited scale, located on previously developed land, and would not result in significant environmental effects having regard to the Schedule 3 selection criteria. Potential impacts relating to air quality, noise, traffic, ecology, landscape, hydrology and human health can be appropriately controlled through the design of the development, the planning process and the Environmental Permitting regime.

It is therefore considered that the proposed development would not give rise to significant effects on the environment and does not constitute EIA development. Notwithstanding this conclusion, the applicant respectfully requests that the Local Planning Authority adopt a formal Screening Opinion under Regulation 6 of the EIA Regulations to confirm whether an Environmental Statement is required to accompany any future planning application.

ANNEX 1: DRAWINGS

EXISTING SITE & ROOF PLAN



THIS SCHEME IS SUBJECT TO LOCAL PLANNING AND ALL OTHER NECESSARY CONSENTS, ALL DIMENSIONS, SITE LEVELS AND AREAS WHERE GIVEN ARE APPROXIMATE AND SUBJECT TO SURVEY UNLESS STATED OTHERWISE. ALL DIMENSIONS MUST BE CHECKED ON SITE. DO NOT SCALE OFF THIS DRAWING. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONSULTANT'S AND/OR SPECIALIST'S DRAWINGS. THE CLIENT AND/OR ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS OR DISCREPANCIES BEFORE THE AFFECTED WORK COMMENCES. ALL QUERIES RELATING TO DESIGN OF FOUNDATIONS, FLOOR SLABS AND ANY OTHER STRUCTURAL ELEMENTS ARE TO BE REFERRED TO THE STRUCTURAL ENGINEER FOR CLARIFICATION.



Existing Site/Roof Plan
1:1000

Purpose of Issue PreApp	Client Carnation Holdings Ltd	Drawing Title Existing Site/Roof Plan		Scale 1:1000	Rev.	Description	By	Date	Note:	 SAURO ARCHITECTURAL DESIGN SAURO ARCHITECTURAL DESIGN LTD 9 ELLISTON TERRACE, CARMARTHEN, SA31 1HA Tel: (01267) 233 684 Email: design@sauro.co.uk © Drawing Copyright Sauro Architectural Design Ltd
	Project Title Proposed Development of Green Hydrogen Plant Abernant Colliery, Pantardawe SA8 4SX			Sheet Size A1						
	Date 25/10/2024	Drawn by 003	Checked by 001							
	Job No. 1349	Drawing No. P.01	Revision -							

PRELIMINARY

KEYS

- Hard surface area
- Car park space (2.6 x 4.8m)
- 2.4m Security fencing
- Proposed tree
- Proposed screening planting area

BUILDING PARAMETERS

Building Type	W X D	Eaves Height
Office	10-15m x 8-12m	5 - 7m
Workshop	10-15m x 8-12m	5 - 7m
Recycle & Segregation	150-170m x 25-35m	10-12m
Hydrogen Plant	9-10m x 11-12m	10-12m
Hydrogen Storage	9-10m x 11-12m	10-12m

Purpose of Issue

PreApp

Client Carnation Holdings Ltd	Drawing Title Proposed Site/ Roof Plan		Scale 1:1000	Rev.	Description	By	Date	Note:	 SAURO ARCHITECTURAL DESIGN SAURO ARCHITECTURAL DESIGN LTD 9 ELLISTON TERRACE, CARMARTHEN, SA31 1HA Tel: (01267) 233 684 Email: design@sauro.co.uk © Drawing Copyright Sauro Architectural Design Ltd
Project Title Proposed Development of Green Hydrogen Plant Abernant Colliery, Pantardawe SA8 4SX			Sheet Size A1						
Date 26/11/2024	Drawn by 003	Checked by 001							
Job No. 1349	Drawing No. P.02	Revision -							

ANNEX 2: PHASE 1 GROUND INVESTIGATION REPORT

ABERNANT COLLIERY, PONTARDAWE ROAD, NEATH PORT TALBOT, SA8 4SX

Tier 1: Preliminary Risk Assessment & Coal Mining Risk Assessment

Report No. Q1655/PRA-CMRA

March 2025

DOCUMENT CONTROL

Contract Name: Former Abernant Colliery, Pontardawe Road, Pontardawe

Contract Reference: Q1655

Report Type: Preliminary & Coal Mining Risk Assessment (Desk Study Report)

Report Reference: Q1655/PRA-CMRA

Date of Report Production: March 2025

Client: Woodgate House Limited, 36b St. Johns Rd, Bathwick, Bath.

Version:	Date:	Prepared by:	Checked by:	Approved by:
1 st Issue	23/03/25	L. Draper	P. Darby	R. McDermott
				
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<i>Disclaimer: Spencer Quantum Limited has prepared this report in accordance with the instructions of the above-named Client for their sole and specific use. Any third parties who may use the information contained herein do so at their own risk.</i> Spencer Quantum Ltd, Parcau Farm, Penrhiwllan, Llandysul SA44 5NW T: 01559 371534 E: enquiries@spencerquantum.co.uk				

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FOREWORD

The following Conditions and Notes on Site Investigation Procedures should be read in conjunction with this report.

The recommendations made and opinions expressed in the report are based upon the study of historical Ordnance Survey maps of the area, GroundSure® reports, and geological maps where available.

Where other plan sources, and published data are considered, these are specifically referred to in the text.

We regret that no responsibility can be held for conditions, which have not been revealed by the plan sources referred to. Whilst the report may suggest the likely configuration of strata below the site, this is only indicative, and no liability can be accepted for its accuracy.

1.0 INTRODUCTION

1.1 General

Upon the instructions of the Client, Woodgate House Limited, Spencer Quantum Ltd (SQL) has been commissioned to undertake a Tier 1 Preliminary Risk Assessment/ Desk Study for the Former Abernant Colliery, Pontardawe Road, Neath Port Talbot, SA8 4RX. A combined location plan is presented within Appendix I.

This report presents an assessment of both geotechnical and environmental ground conditions to provide information on any potential risks or hazards, including from former mining, that may affect the development of the site.

General notes on the techniques employed by Spencer Quantum Ltd are described in the Foreword together with the limitations inherent in this type of work.

1.2 Purpose

The purpose of the desk study is to provide a preliminary assessment of the land quality and assess the suitability for development in terms of its geotechnical and geo-environmental setting. This report aims to achieve this by providing the following:

- An early indication of possible land quality issues that could impact on the proposals.
- A conceptual model of the site detailing potential contamination source pathways and receptors.
- A geotechnical and geo-environmental appraisal of any issue highlighted and its significance.
- The coal mining legacy risks to the site.
- The relevant information to allow the design of an appropriate intrusive (Phase II) ground investigation (if deemed necessary)

1.3 Scope

In order to achieve its objectives, this study compiles a range of information pertinent to the development site. This typically targets its locality and includes archival and current data from the following sources.

- Site specific database searches provided by Groundsure: *Enviro+Geo Insight*
- Historical and recent ordnance survey maps, geological maps and environmental information
- Published Geological Map for the area:
 - Sheet 230 Ammanford 1:50,000
 - SN-70-NW 1:10,560
- British Geological Survey Website & GeoIndex
- Natural Resources Wales
- Site Specific database search by Coal Authority Consultants Mining Report

2.0 SITE DETAIL

2.1 Site Description

of approximately 47.4 acres, irregular in shape, within which the former Abernant Colliery Reside. The area under review is immediately adjacent and north-west of a Recycling Business along Pontardawe Road. The surrounding area adjacent to the study area is occupied mainly by various industries, such as a factory to the west, and recycling business and weighbridge to the east of the site. The approximate National Grid Reference of the site is SN 270093 208327 with a nearby postcode of SA8 4RX.

An Ordnance Survey extract of the site from current on-line mapping is presented below.

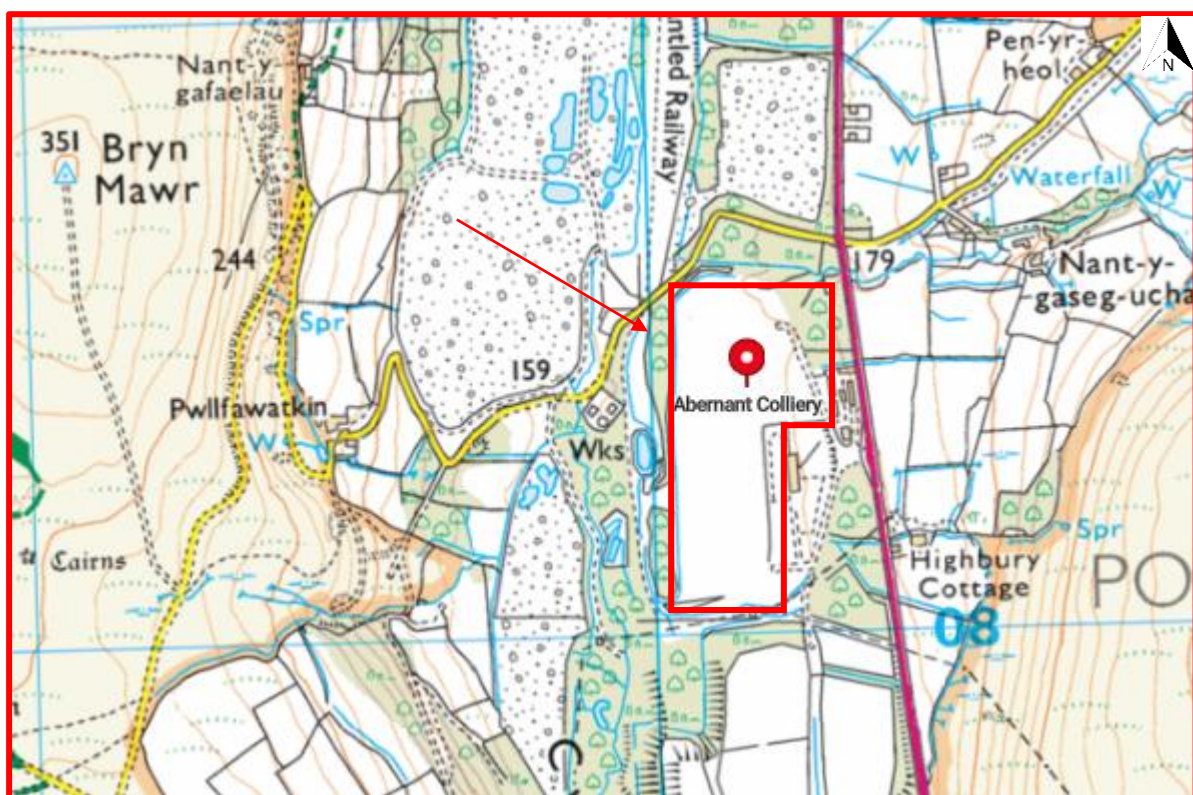


Figure 1: Proposed site boundary ©Ordnance Survey

2.2 Topography & Elevation

The site is relatively level and covers an area approximately 191800 metres squared. Aerial photographs of the site are included in the Groundsure report presented in Appendix II. The site resides approximately 80m above Ordnance Datum.

2.3 Statutory Service Information

No statutory service information has been obtained as part of this investigation however, during any excavation works on-site, safe digging practices in accordance with HS(G)47 must be employed.

3.0 GEOLOGY, SITE HISTORY AND COAL MINING

3.1 Published Geology

British Geological Survey (BGS) sheet 230 (1:50,000 scale) shows the site to be mantled by Superficial Deposits of Glacial Till Deposits. The lithological description can be summarised predominantly as a gravelly clay/ clayey gravel with varying silt, sand and cobble content. The thickness of this overlying superficial deposits is typically 8-10m based on archival borehole information obtained via the BGS GeoIndex online source data.

The Solid Geology of the area is represented by the Rhondda Member in the south. The lithological description can be summarised as green-seatearth and mainly thin coals. The Solid Geology of the north is represented by the Llynfi Member. The lithological description can be summarised as Green-grey and blue-grey, feldspathic, micaceous lithic arenites ('Pennant sandstones') with thin mudstone/siltstone and seatearth interbeds and mainly thin coals.

The Lower Boundary is described as the base of the member is placed at the base of No.2 Rhondda Coal in the type of area of the Rhondda Valleys; the seam is named the Llwydcoed Seam in the Ammanford District and the Wernddu in the Swansea District. The Coal rests conformably on sandstones and thin mudstones/siltstones of the underlying Llynfi Member.

The Upper Boundary is described as the top is placed at the base of the Brithdir Coal, where the coal overlies thin mudstone/seatearth at the top of the Member and is overlain siltstone/mudstone of the Brithdir Member.

The thickness of this Member is described as up to 320m in the Swansea/Port Talbot District.

Extract of sheet 230 (1:50,000) is presented over page as Figure 2.

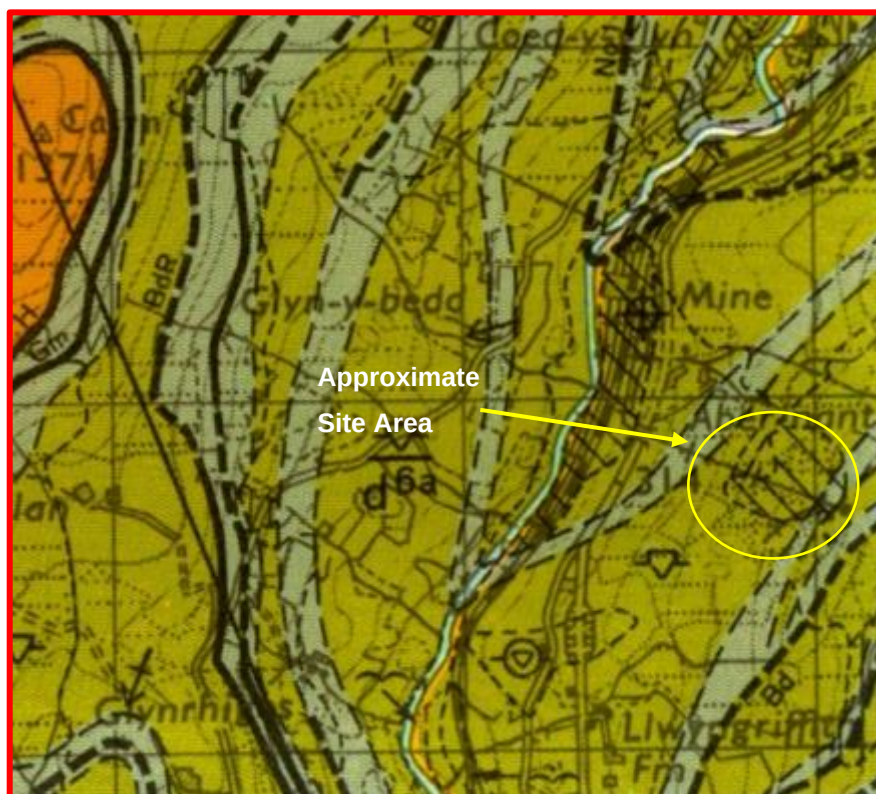


Figure 2: Extract of Geological Sheet 230-solid edition 1:50,000 scale ©British Geological Survey

The general dip of the bedrock in the area is unclear with little detail provided on Sheet 230. An extract of Ordnance Survey Geological Plan SN-61-SW, at a scale of 1:10,560 (1 inch to 1 mile), is shown over page and shows the structural geology in more detail. There are no details of bedrock dip within the immediate area with the nearest detail indicated a south-westerly to south gentle dip direction of 7 to 15 degrees.

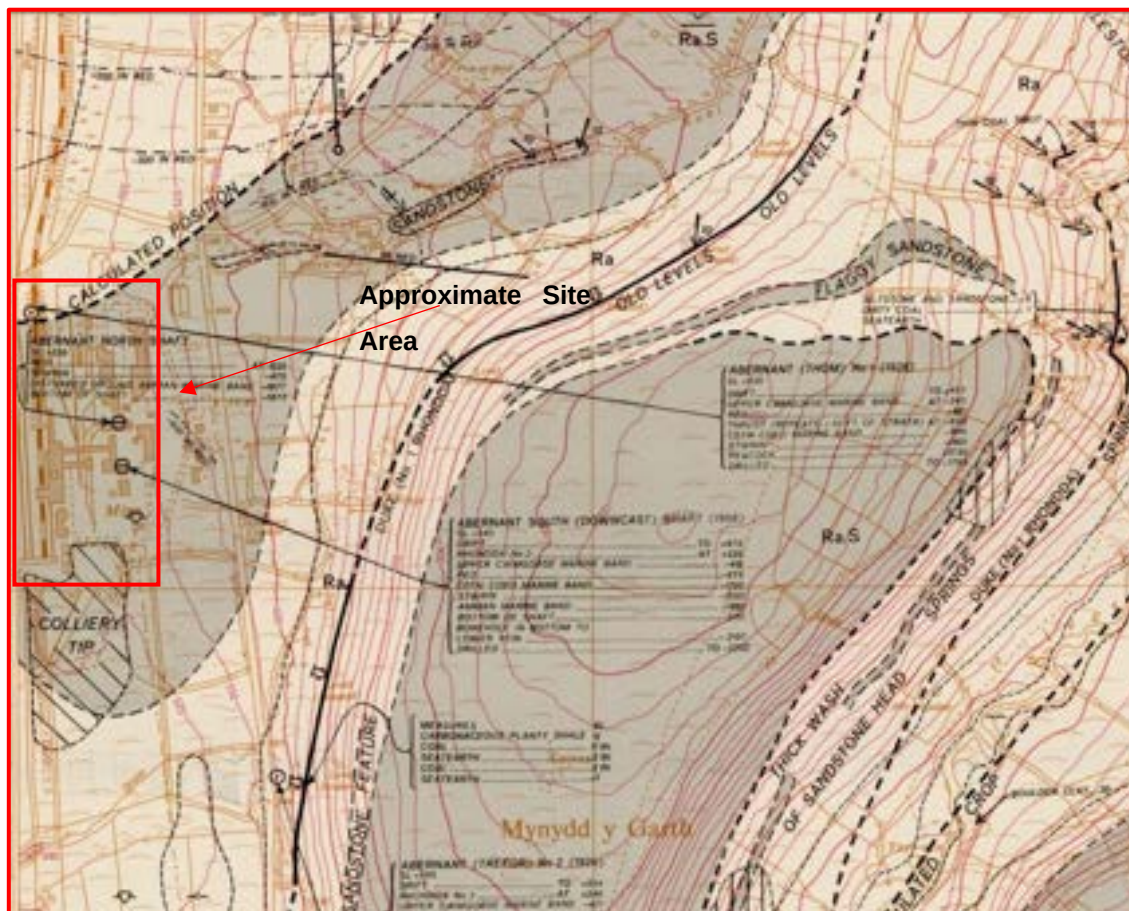


Figure 3: Extract of Ordnance Survey Geological Plan SN-70-NW, 1:10,560 scale ©Ordnance Survey

3.1.1 British Geological Survey; GeoIndex Records

The British Geological Survey of this archive has further information pertaining to the site.

The BGS holds records from previous ground investigations undertaken on-site. One record located on-site relates to the South Shaft, logged during 1954, Reference: SN70NW/11, Grid Reference SN 7018 0821, shown in Table 1 over page.

Table 1: Summary of Abernant South Shaft

Depth m.bgl	Strata Observed
0 – 0.28	Peat
0.28 – 19.52	Glacial Till
19.52 – 45.72	Rhondda Member – Siltstone/mudstone/sandstone
45.72 – 47.19	COAL – No.2 RHONDDA
47.19 – 79.19	Rhondda Member – Siltstone/Mudstone/Sandstone
79.19 – 80.39	COAL
80.39 – 92.74	Rhondda Member – Siltstone/Mudstone/Sandstone
92.74 – 94.34	COAL
94.34 – 113.85	Rhondda Member – Siltstone/Mudstone/Sandstone
113.85 – 114.03	Disturbed Coal
114.03 – 134.53	Rhondda Member – Siltstone/Mudstone/Sandstone
134.53 – 135.57	COAL
135.57 – 150.66	Rhondda Member – Siltstone/Mudstone/Sandstone
150.66 – 151.70	COAL
151.70 – 161.28	Rhondda Member – Siltstone/Mudstone/Sandstone
161.28 – 161.39	COAL
161.39 – 161.67	Shale
161.67 – 161.87	COAL
161.87 – 221.31	Rhondda Member – Siltstone/Mudstone/Sandstone
221.31 – 221.44	COAL
221.44 – 239.12	Rhondda Member – Siltstone/Mudstone/Sandstone
239.12 – 239.22	COAL
239.22 – 246.22	Rhondda Member – Siltstone/Mudstone/Sandstone
246.22 – 246.63	COAL
246.63 – 253.95	Rhondda Member – Siltstone/Mudstone/Sandstone
253.95 – 254.27	COAL
254.27 – 275.30	Rhondda Member – Siltstone/Mudstone/Sandstone
275.30 – 276.52	Upper Cwmgors Marine Band
276.52 – 307.50	Rhondda Member – Siltstone/Mudstone/Sandstone
307.50 – 308.80	COAL – WELSH VEIN
308.80 – 319.77	Rhondda Member – Siltstone/Mudstone/Sandstone
319.77 – 332.04	Lower Cwmgorse Marine Band
332.04 – 332.14	COAL
332.14 – 333.08	Rhondda Member- Siltstone/Mudstone/Sandstone
333.08 – 333.35	COAL
333.35 – 344.93	Rhondda Member – Siltstone/Mudstone/Sandstone
344.93 – 346.36	COAL – RED VEIN
346.36 – 361.44	Rhondda Member – Siltstone/Mudstone/Sandstone
361.44 – 361.67	COAL
361.67 – 372.03	Rhondda Member – Siltstone/Mudstone/Sandstone
372.03 – 375.69	Foraminifera Band
375.69 – 375.87	COAL
375.87 – 415.09	Rhondda Member – Siltstone/Mudstone/Sandstone
415.09 – 415.24	COAL
415.24 – 415.29	Shale

Depth m.bgl	Strata Observed
415.29 – 415.52	COAL
415.52 – 415.74	Rhondda Member – Siltstone/Mudstone/Sandstone
415.74 – 416.17	COAL
416.17 – 439.26	Rhondda Member – Siltstone/Mudstone/Sandstone
439.26 – 439.51	COAL
439.51 – 458.81	Rhondda Member – Siltstone/Mudstone/Sandstone
458.81 – 459.09	COAL
459.09 – 484.99	Rhondda Member – Siltstone/Mudstone/Sandstone
484.99 – 486.82	Cefn Coed Marine Band
486.82 – 486.89	COAL
486.89 – 510.66	Rhondda Member – Siltstone/Mudstone/Sandstone
510.66 – 512.49	Trimsaran Marine Band
512.49 – 514.93	Rhondda Member – Siltstone/Mudstone/Sandstone
514.93 – 514.94	CANNEL COAL
514.94 – 514.95	INFERIOR COAL
514.95 – 544.21	Rhondda Member – Siltstone/Mudstone/Sandstone
544.21 – 544.44	COAL
544.44 – 570.80	Rhondda Member – Siltstone/Mudstone/Sandstone
570.8 – 571.10	COAL
571.10 – 585.85	Rhondda Member – Siltstone/Mudstone/Sandstone
585.85 – 586.32	COAL
586.32 – 600.98	Rhondda Member – Siltstone/Mudstone/Sandstone
600.98 – 601.36	COAL
601.36 – 604.10	Rhondda Member – Siltstone/Mudstone/Sandstone
604.10 – 605.62	COAL – STWRIN
605.62 – 617.05	Rhondda Member – Siltstone/Mudstone/Sandstone
617.05 – 617.20	COAL – LENTICLE
617.20 – 625.92	Rhondda Member – Siltstone/Mudstone/Sandstone
625.92 – 627.14	COAL – WHITE 4FT
627.14 – 632.93	Rhondda Member – Siltstone/Mudstone/Sandstone
632.93 – 633.13	COAL
633.13 – 643.53	Rhondda Member – Siltstone/Mudstone/Sandstone
643.53 – 644.16	COAL – UPPER BLACK
644.16 – 671.79	Rhondda Member – Siltstone/Mudstone/Sandstone
671.79 – 672.60	COAL – 4FT
672.60 – 688.97	Rhondda Member – Siltstone/Mudstone/Sandstone
688.97 – 689.58	COAL – HARNIO
689.58 – 704.52	Rhondda Member – Siltstone/Mudstone/Sandstone
704.52 – 705.58	COAL – LOWER BLACK
705.58 – 713.81	Rhondda Member – Siltstone/Mudstone/Sandstone
713.81 – 714.87	COAL – PEACOCK
714.87 – 719.14	Rhondda Member – Siltstone/Mudstone/Sandstone
719.14 – 721.37	Amman Marine Band
721.37 – 721.47	COAL
721.47 – 737.57	Rhondda Member – Siltstone/Mudstone/Sandstone
737.57 – 738.12	COAL – BRYNLLLOI

Depth m.bgl	Strata Observed
738.12 – 750.43	Rhondda Member – Siltstone/Mudstone/Sandstone
750.43 – 751.03	COAL
751.03 – 762.39	Rhondda Member – Siltstone/Mudstone/Sandstone
762.39 – 763.0	COAL
763.0 – 774.89	Rhondda Member – Siltstone/Mudstone/Sandstone
774.89 – 775.19	COAL
775.19 – 781.30	Rhondda Member – Siltstone/Mudstone/Sandstone
781.30 – 781.062	COAL
781.62 – 782.99	Rhondda Member – Siltstone/Mudstone/Sandstone
782.99 – 783.16	COAL
783.16 – 791.65	Rhondda Member – Siltstone/Mudstone/Sandstone
791.65 – 789.17	COAL – LITTLE BRASS
789.17 – 820.22	Rhondda Member – Siltstone/Mudstone/Sandstone
End of Shaft	

3.2 Mining and Extraction Processes

The site is underlain by the South Wales Upper Coal Measures Formation, i.e. coal bearing strata, and lies within a Coal Authority defined Coal Mining reporting area. The Coal Authority on-line interactive mapping resource <https://datamine-cauk.hub.arcgis.com/> shows the site to

Using the GeoIndex records of the south shaft and the extract of SN-70-NW, the nearest seam to the surface of the site is believed to be the *No.2 Rhondda* coal seam, which is estimated to be at approximately 80mbgl at the southern extremity of the site. However, it cannot be calculated to the depth in the north, as the GeoIndex record of the north shaft indicates the seam has been eroded by the drift. Whereas the seam appears at approximately 45mbgl in the south shaft, and due to its calculated position in extract SN-70-NW, it is likely to be shallower at a distance between the two shafts, if it has not been eroded.

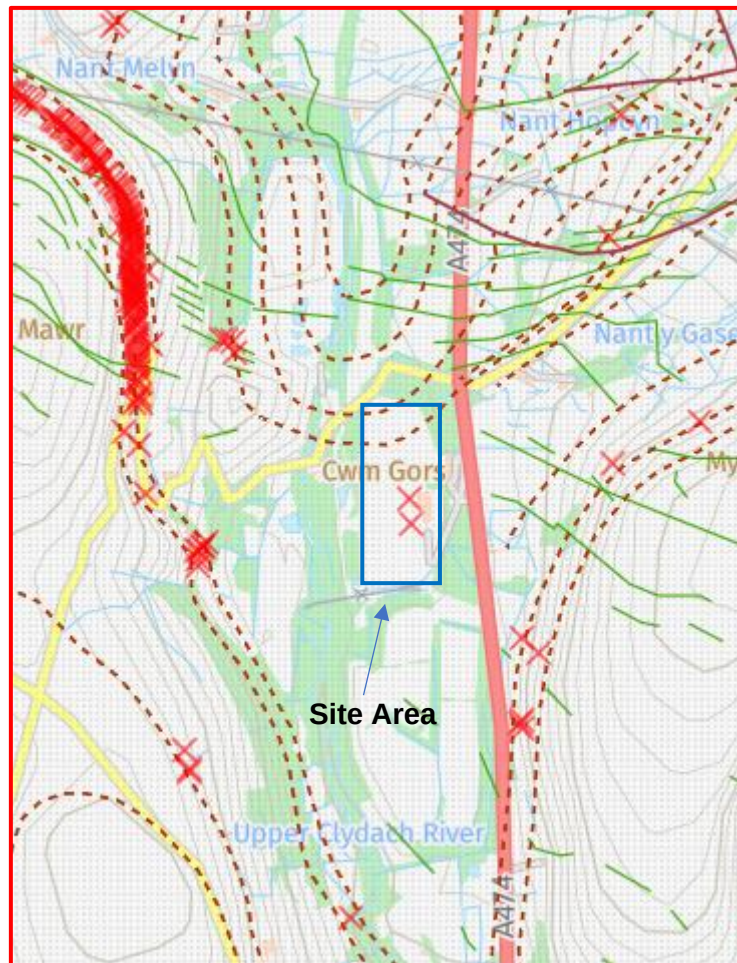


Figure 4: Extract of the Coal Authority Interactive Viewer @CA (Not to Scale)

There are many indications on the geological plans of legacy mining activity within the site area. The closest colliery is located on-site, named the Abernant Colliery. There are 2 mapped shafts on-site mapped in the northeast, mapped approximately 10-20m apart, as shown on figure 4.

There are two mapped coal seams on-site, as recorded by the Coal Authority, shown in Figure 4. Both seams are mapped in the north of the site, approximately 10-20m apart.

As part of this desk study a Coal Authority Consultants Coal Mining Report was commissioned, referenced; 51003458289001, dated 22nd October 2024. A full copy of this report is presented within Appendix II. A summary of findings is presented below:

- Past underground mining – The report lists two entries for three coal seams related to the Abernant Colliery, these are the Upper Abergorchi coal seam at 305-356m depth worked east too southeast of site dipping between 5.8 – 8.9 degrees to the southwest, with the three seams last year mined was 1964, 1965 and 1966.
- The report states there are no probable unrecorded shallow workings or spine roadways beneath the site.
- 2 mine entries in the form of shafts are located on-site. Shaft Reference: 270208-011, was treated between 14th June – 14th July 1988, the fill comprised of over 18000tonnes of Hardcore and over 49000 tonnes of shale. Shaft Reference: 270208-012, was treated between 13th June and 13th July 1988, the fill comprised of over 18000 tonnes of hardcore, and over 52000 tonnes of shale.

- An outcrop of the No.2 Rhondda coal seam is listed within the site with a dip angle between 52 to 282 degrees, this would place the seam at a depth of some 10-20m below rockhead and overlying superficial Glacial Till cover, which is anticipated to be some 45m below the site, as shown in Table 1.
- There are records regarding this seam having been worked beneath the site.
- There is no recorded past gas emissions recorded onsite or within the surrounding area. However, due to a potential gas risk from recorded underground coal workings at the site, the Coal Authority recommends that a detailed gas risk assessment is undertaken.

3.3 Site History

A review of the site history has been undertaken based on archive and recent maps provided by GroundSure and presented in Appendix III. A summary of the details contained within the Ordnance Survey maps reviewed is provided as follows.

1877 to 1897 County Series at 1:2,500 and 1:10,560 scales

The site study area under investigation in the earliest mapping indicates the site is part of a larger field, with a narrow unpaved trackway extending from west to east (typical farm access track). The western boundary of the site is defined by a mature hedgerow and the remaining boundaries extending out into the open field. The map shows a footbridge located south-west on the site along the hedgerow. The nearest river is located immediately west of the site noted as the Upper Clydach River.

The surrounding area remains a series of fields, with a road extending north-south approximately 5-10m east of the site at its nearest point.

The 1897 mapping shows a Quarry located 500m south-east of the site, with a neighbouring Old Coal Level approximately 10-20m west of the Quarry.

1900 to 1905 County Series at 1:2,500 and 1:10,560 scales

The mapping indicates the site remains predominantly fields, although the mapping shows the development of a Smithy along the north-east boundary of the site. As well as the development of a Road extending from east to west in the north of the site.

The mapping also notes the development of small residential dwellings approximately 350-400m east of the site. As well as a series of Quarries approximately 500m south-west of the site, with a spring approximately 50m east of the Quarries.

The 1905 mapping shows an Old Coal Level notes approximately 700m east of the site, and another Old Coal Level approximately 700m north-east of the site.

1913 to 1921 County 1:10,560 scales

The mapping shows the previous hedgerows along the perimeter of the site has now developed into pathways. The 1921 mapping shows the development of building notes Nant-y-gaseg-isaf in the north of the site approximately 5-15m south of the smithy.

The mapping shows the development of Quarries approximately 450m west of the site, old coal levels approximately 400-450m west of the site, as well as the development of Pwllau Works approximately 450m north-west of the site. The mapping also shows the addition of three rises approximately 700m west of the site. As well as a series of rises approximately 550-750m south of the site. The 1913 mapping also notes the addition of two Old Coal Levels approximately 350-500m southeast of the site.

The 1921 mapping shows the addition of a Quarry approximately 300m northeast of the site. As well as the development of residential dwellings approximately 700m northwest of the site.

1948 National Grid 1:2,500 and 1:10,000 scale

The mapping shows the development of a train track extending north to south through the west of the site.

The mapping shows no notable changes within the surrounding area.

1962 to 1965 National Grid 1:2,500 and 1:10,000 scale

The mapping shows the development of the site from fields into a Colliery, where Cwm Gors mineral Railway runs through the west of the site extending from the south of the site to the north in excess of 750m.

The mapping shows the development of 2 drains adjacent to the Cwm Gors mineral railway approximately 20-30m west. The previous noted railway has now been mapped as a Dismantled Railway Drain mapped immediately south of the site.

1990 Landline and National Grid 1:2,500 and 1:10,000 scale

The mapping shows the development of tanks in the north-east and south on the site, as well as the site now noted as Abernant Colliery.

The mapping shows workings immediately south of the site extending in excess of 750m south of the site, with 2 drains located within the workings.

2001 to 2024 National Grid 1:10,000

By 2024 the site study area becomes a disused colliery and is now noted as Cwm Gors.

Summary

The parcel of land that defines the site had developed as the Former Abernant Colliery by 1965 and had become disused by 2001.

4.0 GROUNDSURE ENVIRO+GEO INSIGHT DATA REVIEW

4.1 General

As part of the desk study, combined environmental and geological/ ground stability datasets have been obtained from GroundSure® which compile the results of on-line database searches using a range of national resources.

The combined *Enviro+Geo Insight*® report provides details on the geology of the site as well as information relating to ground workings in the area of the site, mining, extraction, natural cavities and natural ground subsidence. It also details site specific environmental issues including pollution incidents, discharge consents, flooding issues and any areas of significant contamination potential as well the risk to any existing or planned properties from the underlying ground conditions.

A summary and review of the data collected from within these reports are detailed in the following sections. Full copies of the document provided by GroundSure® (Reference: HMD-213-7NQ-VDK-DC3-GAC) are included in Appendix IV.

4.2 Geology and Ground Stability

4.2.1 Artificial Ground

The geology section of the combined geological/ground stability GeolInsight® report has identified artificial or made ground to underlie the south of the site.

4.2.2 Superficial Ground/ Drift Geology & Landslips

Superficial geology of Glacial Till comprising clay, silt, sand and gravel are recorded below the site. As well as Alluvium located on the south-west of the site, comprising clay, silt, sand and gravel.

There are 2no. records of any landslip features within 500m of the site study area, closest record located 168m west of the site described as landslide deposits.

4.2.3 Bedrock, Solid Geology & Faults

The report identifies the site to be underlain by the Llynfi Member- comprising of mudstone, siltstone and sandstone. As well as the Rhondda Member to the north – comprising of sandstone.

Structurally there are two coal seams inferred located on-site.

4.2.4 Radon Data

The report states that the property is in an area where between 5% and 10% in the southwest and less than 1% north and east of properties are affected by Radon. The report suggests that basic radon protection measures are required in the south-west and no radon protection measures are required in the north and east.

4.2.5 Ground Workings

There are seven records of surface ground workings within 250m of the site, with 2 of the records on-site relating to a refuse heap and colliery mapped in 1965 and 1990. There are also eight BritPits within 500m of the site study area, the nearest being 19m east of the site, refers to underground workings associated with the Abernant Mine, accessed by a shaft or drift, with a status where the entry has ceased to extract minerals.

4.2.6 Mining & Natural Cavities

The report states fifty-two records of underground workings associated with the on-site unspecified mine and colliery.

There are no records relating to non-coal mining affected areas. The report does not contain any records of natural cavities, mining cavities or records of Johnson Poole and Bloomer records within 500m of the site.

4.2.7 Natural Ground Subsidence

The Geo+Insight® report
hazard

2.

Table 2: Natural Ground Hazard Summary

Hazard	Hazard Rating	Details
Shrink - Swell Clays	Very Low (On-Site)	Ground conditions predominantly low plasticity
Landslides	Very Low (On-Site)	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
	Low (On-Site)	Slope instability problems may be present or anticipated. Site investigation should consider specifically, the slope stability of the site.
Soluble Rocks	Negligible (On-Site)	Soluble rocks either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.
Collapsible ground	Negligible (On-site)	Deposits with potential to collapse when loaded and saturated are believed not to be present.
	Very Low (On-Site)	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
Compressible deposits	Negligible (On-Site)	Compressible strata are not thought to occur.
	Moderate (On-site)	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
Running Sands	Very Low (On-Site)	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
	Low (On-site)	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

4.2.8 Estimated Background Soil Chemistry

The report identifies three records of the estimated background soil chemistry either on site or within 250m of the site boundary. A summary of these records is presented in Table 3 below.

Table 3: Estimated Geometric Mean Soil Concentrations (all figures in mg/kg)

Location	Arsenic (As)	Bio accessible Arsenic	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)	Bio accessible Lead
On site	15-25	No Data	1.8	60-90	15 - 30	100	60
On site	25 – 35	No Data	3.0 - 6.0	60 – 90	15 – 30	100	60

4.2.9 Railways and Tunnels

There are nine records of historical railway and tunnel features within 250m of the study area. The nearest being 4 on-site records of 2 railway sidings and 2 mineral railway sidings.

4.3 Site Environmental Appraisal

4.3.1 Historical Industrial Sites

The Enviro Insight report identifies 67 records of historical industrial land uses within 500m of the site. There are 15 records on-site relating to railway sidings, colliery, unspecified mine, unspecified tanks, unspecified works. The remaining entries are in excess of 3m off-site.

12 records of historical tanks within 500m of the site study area are noted. 10 entries are recorded on-site relating to unspecified tanks. The remaining records are in excess of 5m relating to unspecified tanks.

The report records 1 historical energy feature within 500m of the site, located on-site as an electricity substation present in 1986.

The GroundSure report does not list any entries for historical garages, historical petrol stations or historical military sites within 500m of the site study boundary.

There are 4 records of active/ recent, historical (BGS), EA/ NRW, historical (LS/ mapping) landfills within 500m of the site. 2 records are on-site associated with household, commercial & industrial waste and Co-disposal landfill site both relating to Rhyd Y Fro, Pontardawe, NPT, SA84RX. The remaining entries are in excess of 6m off the site.

4.3.2 Environmental Permits, Incidents and Registers

There are 9 records of waste exemptions within 500m of the site boundary. The nearest being 216m north-east of the site, associated with treating and storing waste exemption on a farm at Birch Farm Plastic Collection Ltd. Pontardawe. The remaining records are in excess of 360m of the site.

There are 31 records of Substantiated Pollution Incidents (EA/NRW) within 500m of the site. The nearest being on-site relating to the inert materials and wastes of construction and demolition materials and waste dated to 09/12/2015, where the water impact has not been recorded, the land impact is described as a Category 4 (no impact) and air impact (minor).

There are 39 records of Licensed Waste Sites within 500m of the site. The nearest entry being 10m north-west of the site, associated with Pwllfawatkin household waste recycling centre, Rhyd Y Fro, SA8 4RX, where all 3 records are active. All remaining entries are in excess of 16m off-site.

There are 187 records of Licenced Industrial Activities (Part A(1)) within 500m of the site. The nearest being 401m west of the site relating to the disposal of waste in a landfill, where the status is superseded.

There are no entries listed for within 500m of the site study area relating to:

- Integrated Pollution Control (IPC)
- Pollutant Release (Part A(2)/B)
- Pollutant Release to Surface Waters (Red List) under the environmental protection regulations 1991
- Pollutant Release to public sewer
- List 1 or List 2 Dangerous Substances in Compliance with European Directive E 2006/11/EC and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015
- Pollution Inventory Waste Transfers/ Radioactive Waste data sets
- Control of Major Accident Hazards (COMAH). This includes upper and lower tier sites and includes a

historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS).

There are 27 records of Licenced Discharges to Controlled Waters within 500m of the site study area, where 5 of the records are located on-site associated with sewage and trade waters, where the license has expired or been revoked.

4.3.3 Current Land Use

There are no records of potentially contaminative current industrial sites within 250m of the site study area.

There are no records of current or recent petrol stations, National Grid High Voltage Underground Electricity Transmission Cables or High-Pressure Gas Transmission Pipelines within 500m of the site.

4.3.4 Hydrogeology and Hydrology

The aquifer designation of the superficial deposits mapped on the site study area in the north, east and south is Undifferentiated described as 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. Whereas it is mapped in the south-west 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.

Bedrock on-site has A described as 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.

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.

Table 4 characterises the on-site vulnerability of groundwater to a pollutant discharge.

Table 4: On-Site Vulnerability of Groundwater

Location	Summary	Soil/ Surface	Superficial Geology	Bedrock Geology
On-Site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
On-Site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

There are 7 records groundwater abstraction licences commissioned within 2000m of the site study area. The

nearest being 535m north-east of the site, with a historical status relating to general farming and domestic from the EAW groundwater direct source. The remaining records are in excess of 543m of the site boundary.

There are no portable water abstraction licences or source protection zones within 2000m of the site.

There are no records of surface water abstraction within 2000m of the site study area.

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. The site study area is part of the Gwili (headwaters to tidal limit) river WB catchment. The management catchment is Carmarthen Bay and the Gower.

Table 5 presents the WFD Groundwater Body scores for the on-site hydrology.

Table 5: WFD Groundwater Bodies Scores

Location	Name	Water Body ID	Overall Rating	Chemical Rating	Quantitative	Year
On-Site	Swansea Carboniferous Coal Measures	GB41002G201000	Poor	Poor	Good	2017

4.3.5 Flooding

There are 220 entries of Risk of Flooding from Rivers and Sea (RoFRaS) within 50m of the site. The nearest record being on site, categorised as High.

There are no records of historical flood events, flood defences or areas benefitting from flood defences within 250m of the site study area. No records indicate flood storage areas within 250m of the site.

The site is at negligible risk of flooding from surface water bodies and low risk from groundwater flooding. The highest risk of flooding on the site study area for floods 1 in 30 year, greater than 1.00m is negligible.

4.3.6 Designated Environmentally Sensitive Sites

According to the GroundSure report there is one record of Sites of Special Scientific Interest (SSSI) within 2000m. The closest relating to the Hafod Wennol Grasslands, 1991m north-west of the site.

The report states a total of 27 areas of Ancient Woodland within 2000m of the site study area. The closest is 257 (SW) of the study area relating to restored ancient woodland.

There are no other recorded environmental designations within 2000m of the site.

4.4 Data Review Summary

Upon review of the geotechnical and geo-environmental data collected from all sources (including geology, site history and GroundSure report), there are no historical or current land uses either on or within 250m of the site study area that are considered a significant hazard or risk specifically to the proposed development.

A summary of these features and potential contaminants associated with each are as follows:

- Historical mapping shows that the site has developed from a series of fields to Abernant Colliery, with tanks, shafts, and mineral railways on-site. The mapping shows legacy mining in the area, as the mapping shows several quarries within 750m of the site, with a series of levels and rises, as well as workings immediately south of the site extending to over 750m. A tip is located on or adjacent to the southern part of the site. However, all potential historic/ current contaminative land

uses are considered pose a risk specifically to the proposed development.

- The presence of buried foundations and/or structures are not known from desk study searches
- Shrink Swell Clays -Very Low
- Running Sands – Very Low and Low
- Compressible Deposits – Negligible and Moderate
- Collapsible Deposits – Negligible and Very Low
- Landslides – Very Low and Low
- Ground Dissolution of Soluble Rocks – Negligible
- The superficial deposits are classed as a Secondary Undifferentiated Aquifer and Secondary A and bedrock below the site is classified as a Secondary A Aquifer.

5.0 CONCEPTUAL SITE MODEL

5.1 Legal Framework for Contaminated Land

Part 2A of the Environmental Protection Act 1990 created a regime for the identification and remediation of contaminated land. Contaminated land is defined by the potential to cause significant harm to human health and/or the environment. It establishes that responsibility for deciding when land is contaminated lies solely with local authorities.

Part 2A of the Environmental Protection Act 1990, Section 78A (

“any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that -

(a) significant harm is being caused or there is a significant possibility of such harm being caused; or

(b) pollution of controlled waters is being, or is likely to be, caused.”

The definition is subject to statutory guidance issued by the Secretary of State which defines significant harm and a significant possibility of such harm with respect to the definition of contaminated land. The statutory guidance sets the definition of contaminated land within the context of Government policy including the

Regulations 2006. This is further supplemented by the Welsh Local Government Association & Environment Agency Wales (*now Natural Resource Wales (NRW)*

Under the planning regime, land contamination is also a material consideration. A local authority has the duty to consider potential implications of contamination when it is considering applications for planning permission. A planning authority may require investigations to be undertaken where there is potential contamination or contamination is known to exist at a site before granting planning permission. Alternatively, planning permission may be conditional requiring appropriate investigation and, if necessary, remediation.

5.2 Conceptual Site Model

The Conceptual Site Model (CSM) is a representation of the current understanding of the site and its surrounding environment with regards to geology, groundwater, surface waters, and potential contamination on-site and adjacent off-site and any migration pathways.

The potential risks to the proposed development and adjacent land have been assessed by consideration of the potential pollution linkages. For a risk to exist there must be a source of contamination, a receptor that may be harmed, and a pathway by which the receptor could be exposed to the contaminant. Only when all three factors are present (i.e., source, pathway, and receptor) can a pollution linkage, and consequently an unacceptable risk, exist. The CSM considers all three elements and the potential for pollution linkages that may exist. If no linkage is identified, then there is no or negligible risk.

Several potential sources of contamination have been identified during this study. The site has been a former colliery, which poses contamination risk from mine gases, Made Ground, Unspecified on-site Tanks, on-site Railway, as well as off-site Quarries.

Whilst the site has a history of underground coal mining records indicate that three coal seams have been worked beneath the site but in excess of 45m depth. Within the site is a two mine shafts feature noted on-site, in the north and centre.

It is noted in Section 3.2 of this report that a coal seam outcrop, the No.2 Rhondda coal seam, is noted in the Coal Authority Consultants Report, located on-site with a dip angle of 5.8 - 8.9 degrees which would therefore place this seam at a depth of some 10-20m below rockhead with overlying (low permeable) superficial Glacial Till cover, which is anticipated to be between 15-20m equating to the coal seam depth of some 45m below the site. The Coal Authority Report does not state that this seam has been worked. It also states that there are no probable unrecorded shallow workings beneath the site. It is considered likely that it would not have been worked being so close to the line of crop due to practical and mine roof stability/ safety reasons.

The CSM has been developed for the proposed end use and each factor has been assessed in terms of its relative position (on-site/off-site). A visual representation of the model is presented in Figure 5.

➤ Sources

Several potential on-site sources of contamination were identified by the historical mapping and data review

The review has highlighted a risk for contamination predominantly associated with historic land-use, particularly the use as a former colliery, as well as railway land, unspecified tanks, as well as Made Ground in the south on the site.

Off-site sources identified as a potential risk are the Quarries and off-site levels.

In addition to the above, there is a perceived geotechnical risk from the potential Made Ground present, particularly in the southern area of the site.

➤ Receptors

Considering the future proposed site end use, several possible receptors have been identified at risk during and subsequent to the proposed development (on-site and off-site). These are summarised as follows:

On-site	Off-site
• Future site users – construction workers (during development), Visitors (post-construction) • Controlled waters – groundwater – Secondary A superficial deposits aquifer, Secondary A bedrock aquifer • Possible services	• Neighbouring site users • Controlled waters – groundwater – Secondary A superficial deposits aquifer, Secondary A bedrock aquifer • Controlled waters – surface water – Upper Clydach River

➤ Pathways

Completing the pollutant linkage between source and receptor are pathways – the way in which they are connected. The type of sources identified have a range of ways of contaminating the receptors, and typically fall into the following categories:

- Direct contact – including dermal contact and ingestion
- Dust or mine-gas migration through air (above or below ground level) and subsequent inhalation

- Leaching of contaminants into groundwater and aqueous phase migration into areas of direct contact

Considering sources and receptors both on-site and off-site, pathways usually exist in three forms: on-site to on-site, on-site to off-site, and off-site to on-site. A visual representation of the complete model and each pollutant linkage is provided as Figure 5.

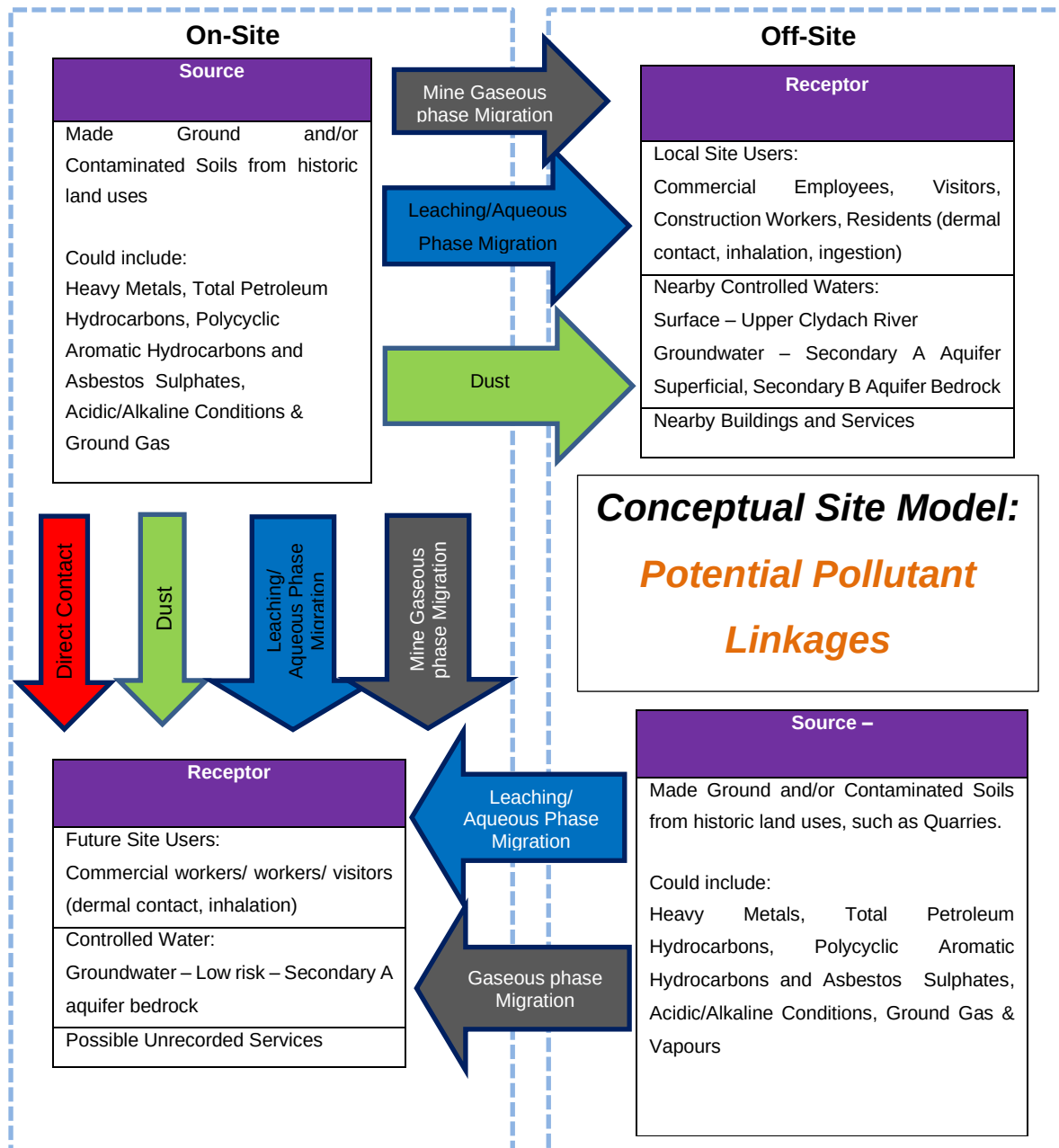


Figure 5A: Conceptual Site Model: Pollutant Linkages

Conceptual Site Model

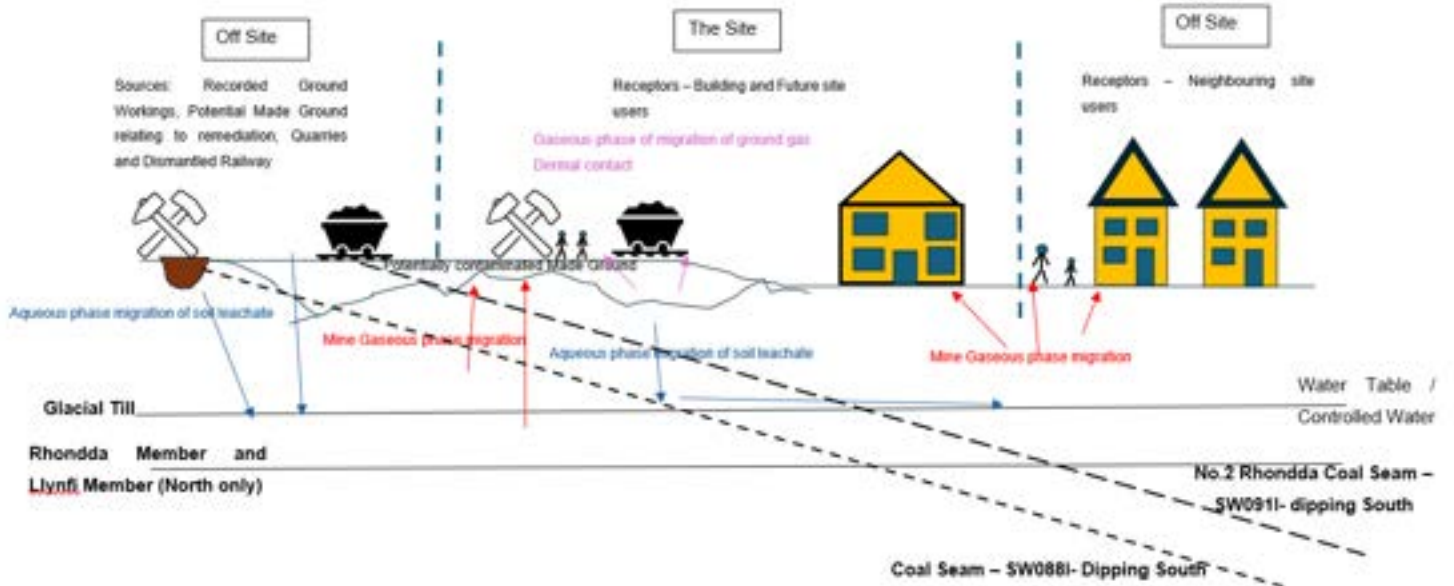


Figure 5B: Visual Conceptual Site Model

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Overview

Following the Tier 1 Preliminary Risk Assessment/Coal Mining Risk Assessment the following is summarised below.

Geotechnical Matters:

- British Geological Survey sheets 230 (1:50,000 scale) shows the site to be mantled by Superficial Deposits of Glacial Till Deposits. The lithological description can be summarised predominantly as clay, silt, and sand, but with pebbles, cobbles, and boulders. The Solid Geology of the area is represented by the Llynfi Member in the north. The lithological description can be summarised as Green-grey and blue-grey, feldspathic, micaceous lithic arenites ('Pennant sandstones') with thin mudstone/siltstone and seatearth interbeds and mainly thin coals. The remaining site area Solid Geology of the area is represented by the Rhondda Member. The general dip of the bedrock in the area trends to the south/south-west at an angle between 5-18 degrees.
- Ordnance Survey Geological Sheet SN-70-NW and Coal Authority Consultants Mining Report for the site indicate recorded coal mining at significant depths so as to not pose a risk to the development. The closest recorded worked seam beneath the site, is the *Abergorchi* seam approximately 255mbgl.
- Two mine entries in the form of Shafts features are noted on-site, recorded as the north and south shaft. Although both shafts have been treated by filling with hardcore and shale, any detail of capping is not provided. An exclusion zone around these shafts will be required during development.
- The outcrop of a coal seam is indicated by the Coal Authority on-site, it is determined that this is at a depth of approximately 45m and may pose a risk to the proposed development geotechnically or from a risk of mine gas.
- A coal tip (workings) is noted to lie within or close to the site southern boundary.
- Shrink Swell Clays -Very Low
- Running Sands – Very Low and Low
- Compressible Deposits – Negligible and Moderate
- Collapsible Deposits – Negligible and Very Low
- Landslides – Very Low and Low
- Ground Dissolution of Soluble Rocks – Negligible

Environmental Matters:

- Historical mapping shows that the site has developed from a series of fields to Abernant Colliery, with tanks, shafts, and mineral railways on-site. The mapping shows legacy mining in the area, as the mapping shows several quarries within 750m of the site, with a series of levels and rises, as well as workings immediately south of the site extending to over 750m. However, all potential historic/ current contaminative land uses are considered pose a risk specifically to the proposed development.
- The GroundSure® report states that basic radon protective measures are required.
- Llynfi Member bedrock is mapped below the site and A in the north.
- aquifer
- The Groundsure® report indicates the High risk of flooding on-site.

6.2 Evaluation and Recommendations

This Preliminary Risk Assessment study has concluded based on reviewed published information and gathered datasets, as well as taking into consideration the very nature of the proposed development structure and setting, that the site and its future end users (i.e. residents) are considered at an unquantified risk from contaminated land issues which include any potential land gas (mine gas) risks.

In terms of mine entries, given the closest records are located on-site, and these have been treated, the risk to the proposed development from mapped/recorded mine entries is still high. Therefore, the shafts must be located so that an exclusion zone can be determined for building stability.

We would recommend that any investigation is designed to address the current conditions of the surface soil conditions, to determine the depth of the previously recorded peat, and the extent of disturbed geology beneath the site, to determine the bearing and potential settlement from the new development in the south of the site.

This should take the form of rotary boreholes at a depth to prove the depth of the nearest coal seam between the two shafts, at the depth of approximately 40mbgl, to assess any risk associated with unrecorded mine workings below the site. A mine gas risk assessment should also be carried out in conjunction with any coal mining intrusive investigation.

The extent and stability of the coal tip on the site will need assessing.

The investigation should extend to an assessment of the risk to the development from potential contamination and shallow ground gases.

The need for remedial measures and the appropriate foundation solution for the proposed development can be defined following the intrusive investigation to determine any risk from mine gas exists and if gas protection measures are required.

7.0 REFERENCES

British Geological Survey:

- British Geological Survey (BGS) Sheet 230 Ammanford 1:50,000.
- BGS Sheet SN-70-NW 1:10,560
- BGS Lexicon of Named Rock Units (www.bgs.ac.uk/lexicon)
- BGS Geology of Britain Viewer (www.bgs.ac.uk)

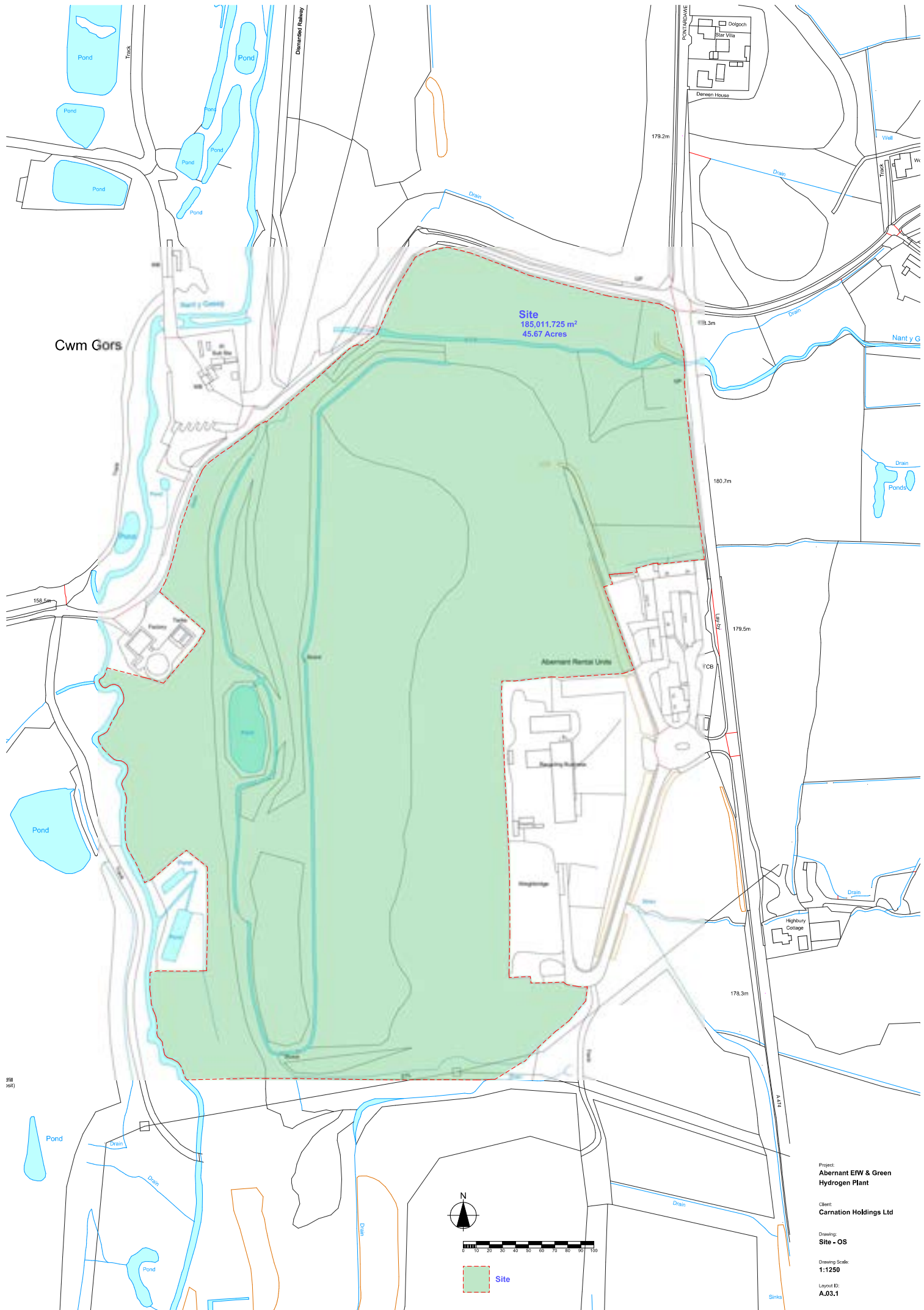
Environmental and Ground Stability:

- GroundSure® Enviro + Geo Insight Report: HMD-213-7VX-OXF-WTL-1SK
- GroundSure® Historical Map Dataset: HMD-213-P71-ZH5-Z3Q-4BR_large scale maps
- GroundSure® Historical Map Dataset: HMD-213-P71-ZH5-Z3Q-4BR_small scale maps
- Coal Authority Consultants Coal Mining Report, Ref.51003458289001

Guidance & Legislation:

- Environmental Protection Act 1990
-
- The Contaminated Land (Wales) Regulations 2006. T
- Welsh Local Government Association & Environment Agency Wales (*now Natural Resource Wales (NRW)*)

APPENDIX I – SITE PLANS



Project:
**Abernant EFW & Green
Hydrogen Plant**

Client:
Carnation Holdings Ltd

Drawing:
Site - OS

Drawing Scale:
1:1250

Layout ID:
A.03.1

1:2500 @A3

APPENDIX II – COAL AUTHORITY CONSULTANTS MINING REPORT



The Coal
Authority

Consultants Coal Mining Report

Former Abernant Colliery,
Pontardawe Road, Pontardawe,
Neath Port Talbot, Sa8 4sx
Neath Port Talbot

Date of enquiry:	22 October 2024
Date enquiry received:	22 October 2024
Issue date:	22 October 2024

Our reference:	51003458289001
Your reference:	HMD-213-S8U-432-6KB-YKI

Consultants

Coal Mining Report

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

Client name

GROUNDSURE LIMITED

Enquiry address

Former Abernant Colliery, Pontardawe Road,
Pontardawe, Neath Port Talbot, Sa8 4sx
Neath Port Talbot

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 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	ABERGORC HI	Coal	4GCA	255	North-West	9.3	South	164	1925
unnamed	ABERGORC HI	Coal	4HM7	269	North	16.4	South	130	1945
ABERNANT	ABERGORC HI	Coal	4HM9	305	East	8.9	South-West	130	1965
unnamed	ABERGORC HI	Coal	4HM8	309	East	6.4	South-West	120	1937
ABERNANT	ABERGORC HI	Coal	486K	360	South-East	5.8	South-West	127	1964
ABERNANT	ABERGORC HI	Coal	4HMA	364	East	7.8	South-West	132	1966
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4GCD	632	North-West	11.9	South	100	1963
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4HM6	678	East	13.8	South-West	120	1963
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4GCE	691	North-West	18.9	South	100	1963
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4HM5	698	East	8.0	South-West	115	1961

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	270208-011	270175 208290	Shaft filled between 14th June and 14th July 1988. The fill comprised a total of 18,427 tonnes of Hardcore and 49,644 tonnes of Shale	Coal	
Shaft	270208-012	270179 208217	Shaft filled between 13th June and 13th July 1988. The fill comprised a total of 18,166 tonnes of Hardcore and 52,122 tonnes of Shale	Coal	

Abandoned mine plan catalogue numbers

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

SWT3859	SWR2010	SWT3460
16341	SWA3432	SWR699
SWA3266	SWT3861	SWA3268

Our records show we have more plans than those shown above which could affect the enquiry boundary.

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
NO.2 RHONDDA	Coal	Yes	Within	N/A	52
NO.2 RHONDDA	Coal	Yes	Within	N/A	282
UNNAMED	Coal	Yes	Within	N/A	38
UNNAMED	Coal	No	Within	N/A	270

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1984.

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

Payments to owners of former copyhold land

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

Section 4 – Further information

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

Future development

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

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

Development advice

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

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

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

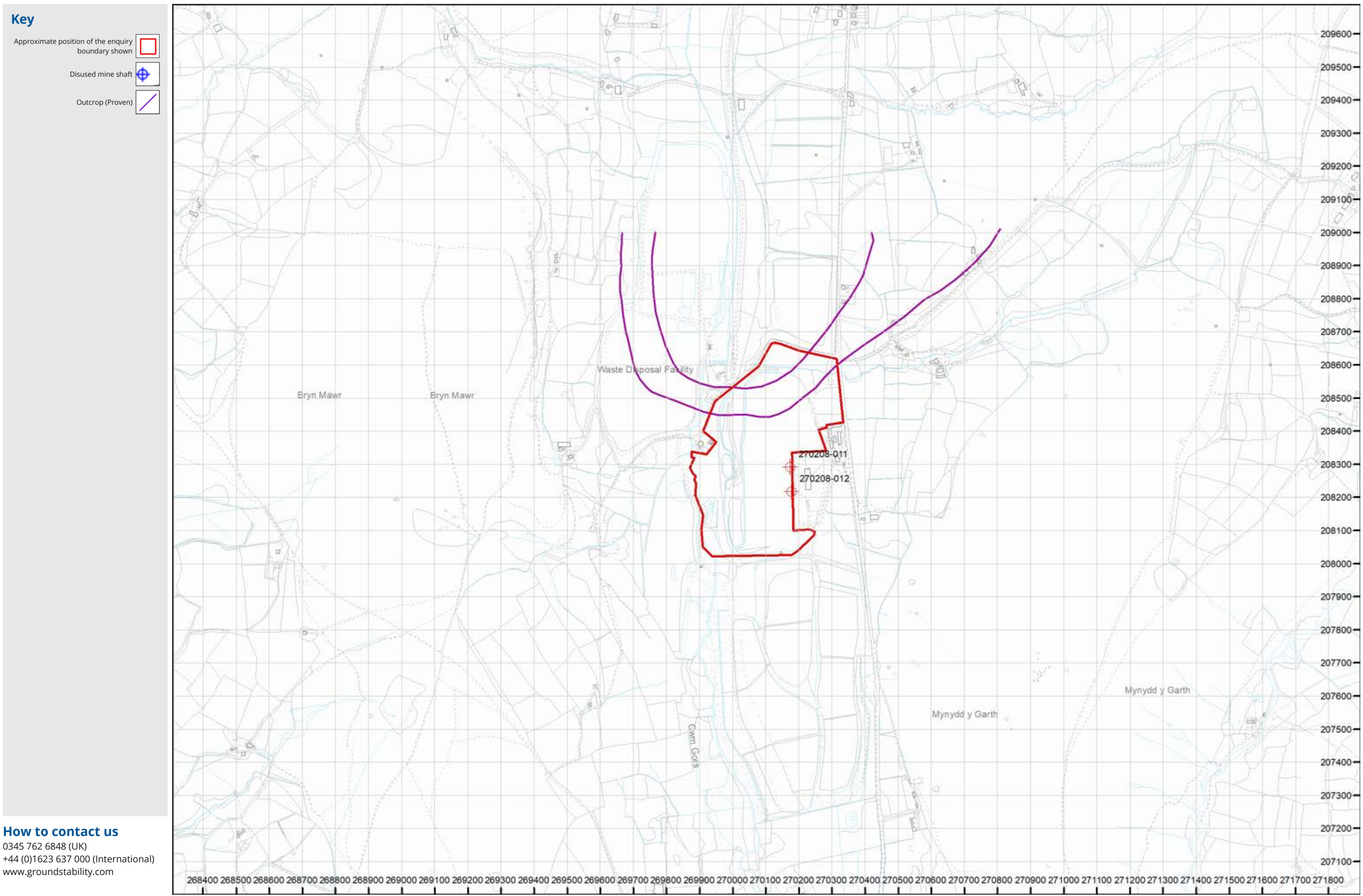
Withdrawal of support notices

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

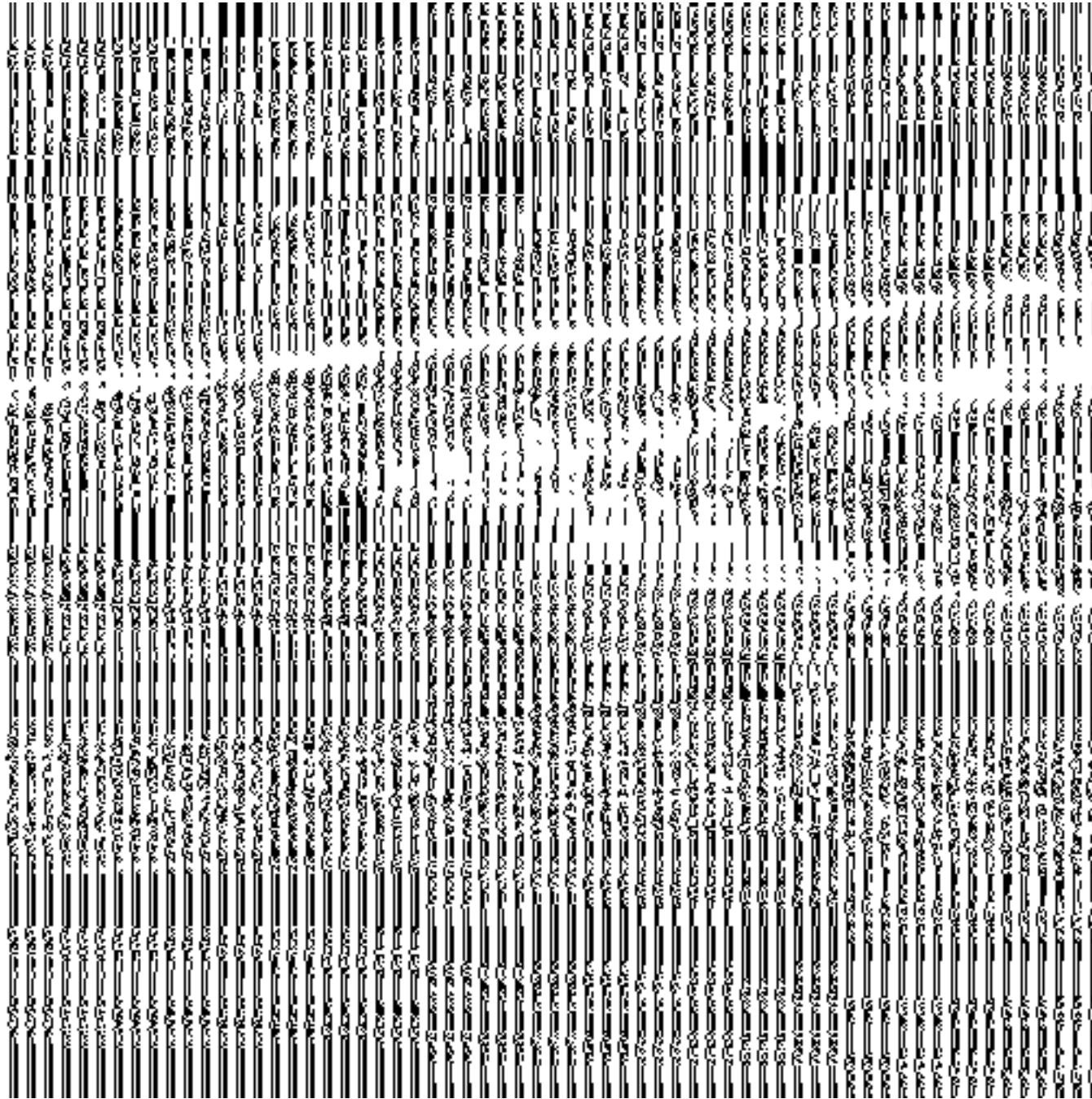
Payment to owners of former copyhold land

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

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



APPENDIX III – HISTORICAL ORDNANCE SURVEY MAPS



1:2,500 Scale Grid Index



Site Details:

FORMER ABERNANT COLLIERY,
PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_1
Grid Ref: 270416, 208034

Map Name: County Series

Map date: 1877

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

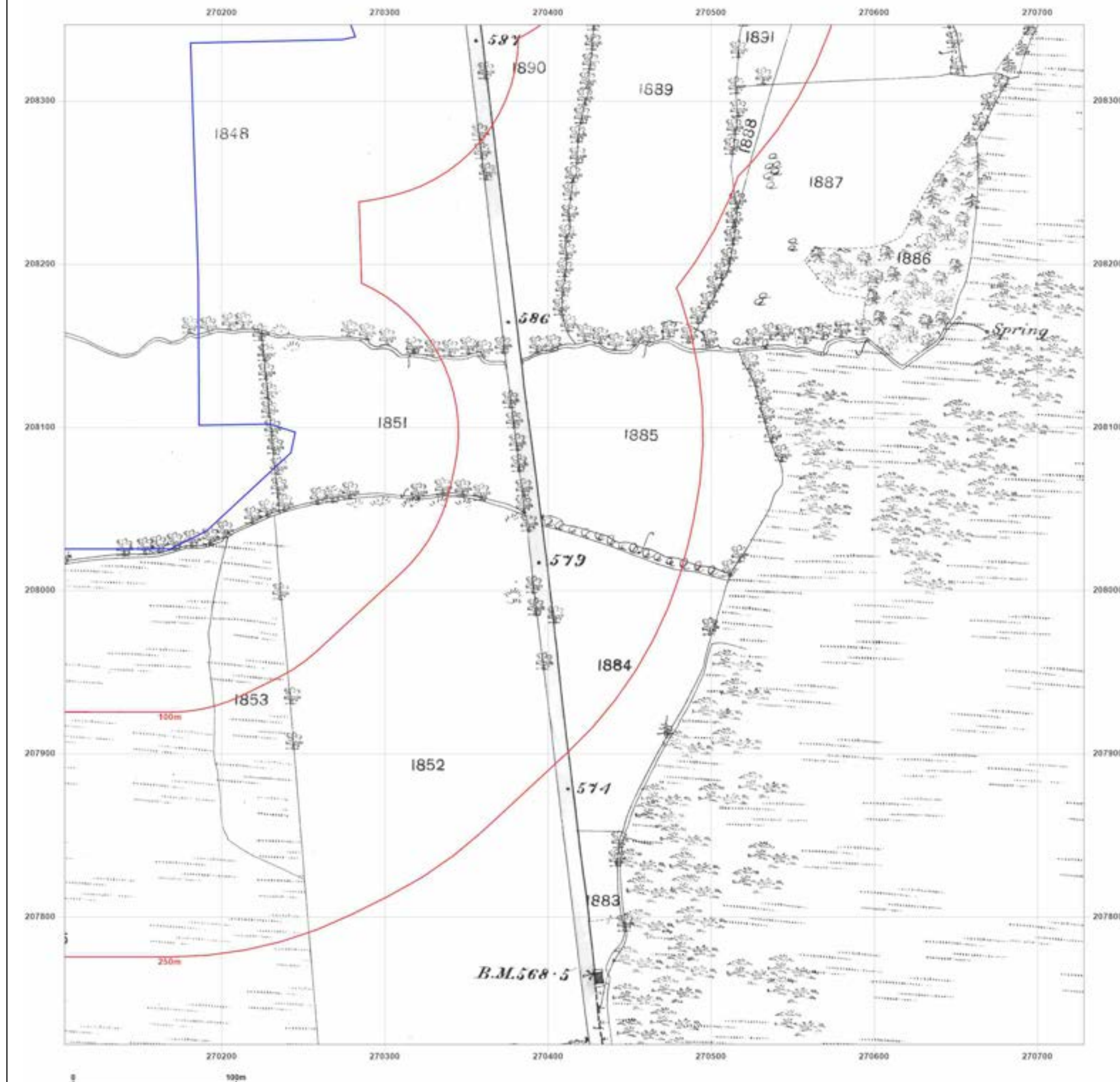


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Site Details:

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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_1
Grid Ref: 270416, 208034

Map Name: County Series

Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1898
Revised 1898
Edition N/A
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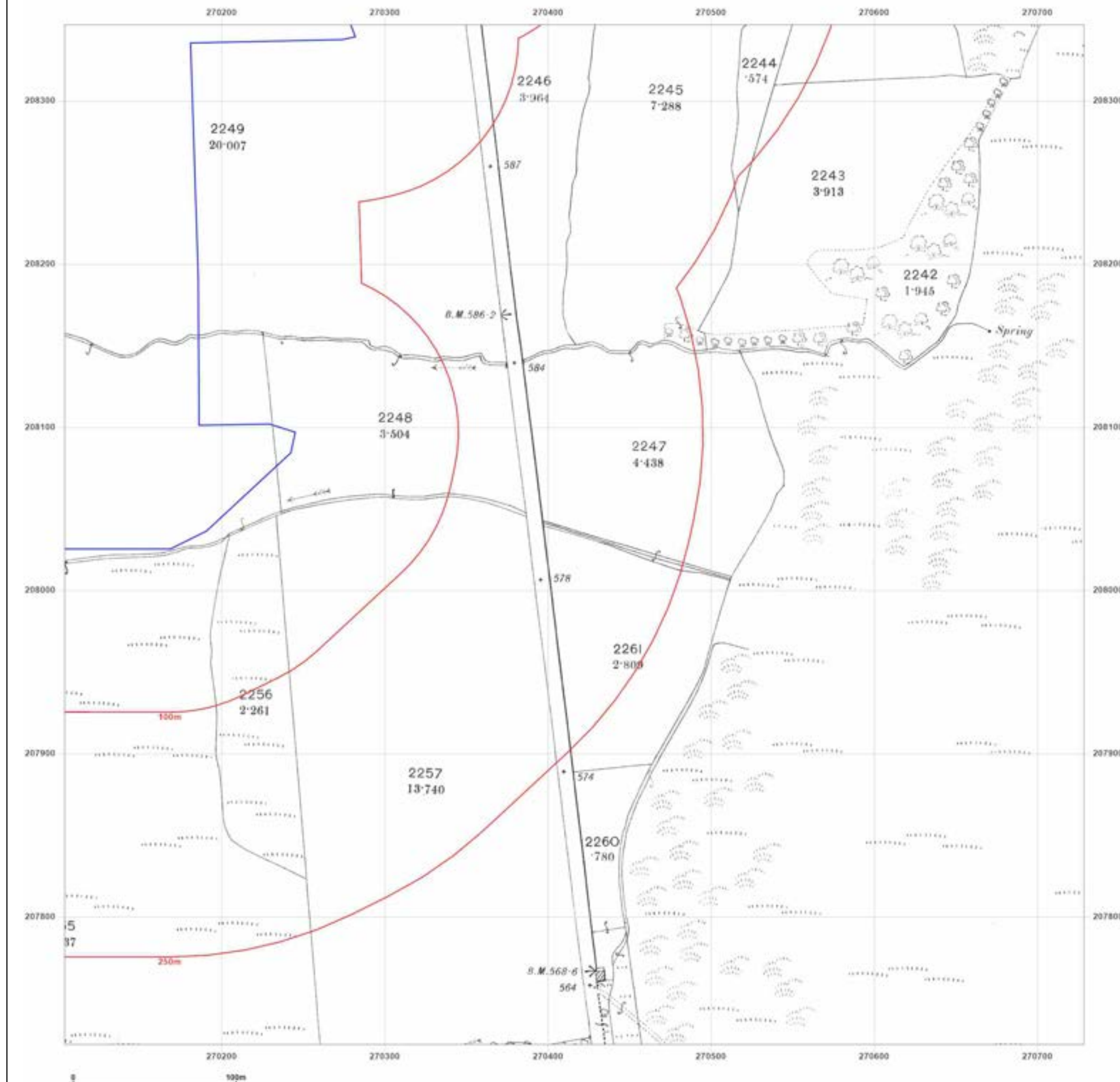


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_2_1
Grid Ref: 270416, 208034

Map Name: County Series

Map date: 1918

Scale: 1:2,500

Printed at: 1:2,500



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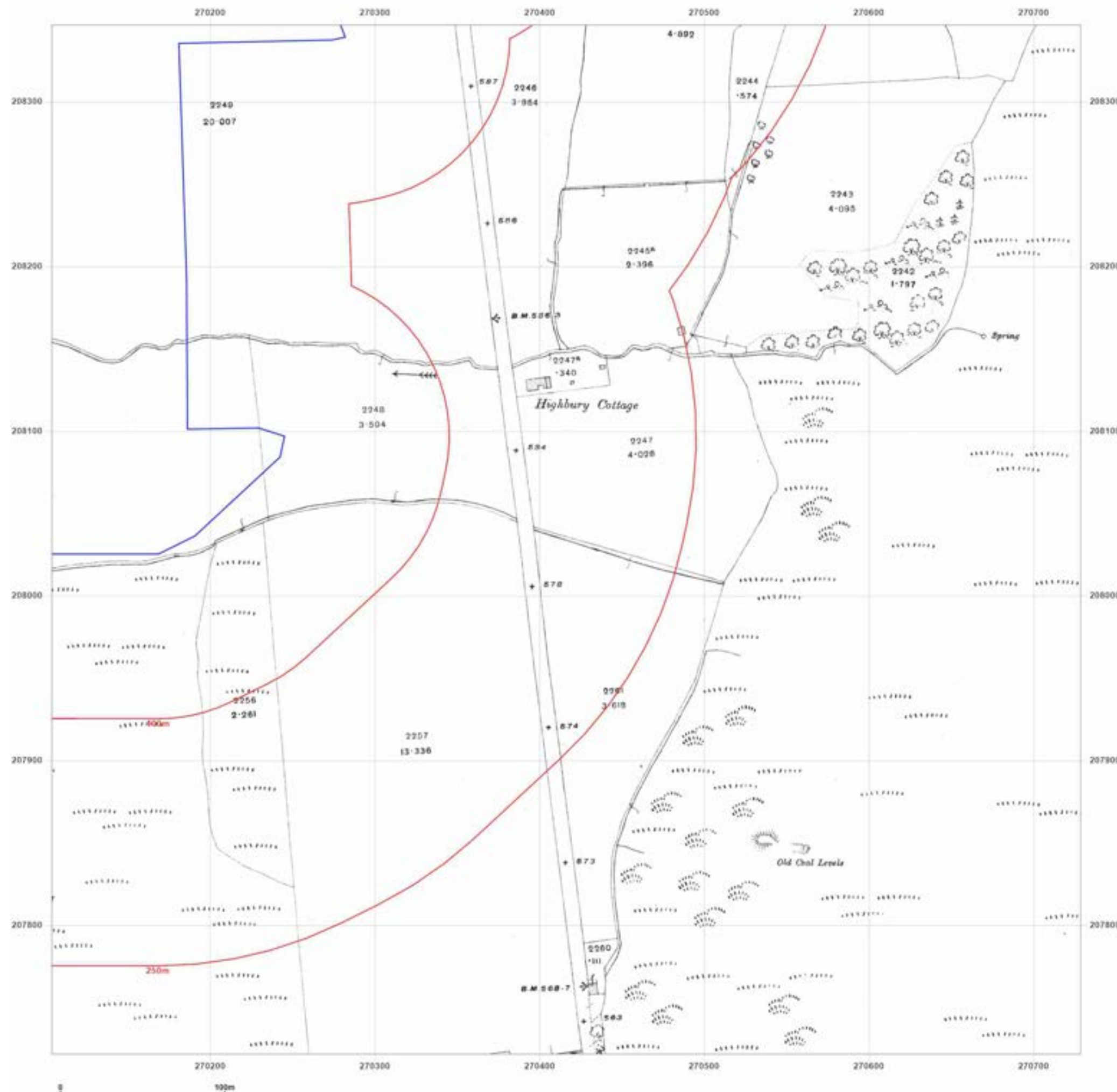


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_2_1
Grid Ref: 270416, 208034

Map Name: National Grid

Map date: 1961-1962

Scale: 1:2,500

Printed at: 1:2,500



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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_2_1
Grid Ref: 270416, 208034

Map Name: National Grid

Map date: 1961-1962

Scale: 1:2,500

Printed at: 1:2,500



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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_1
Grid Ref: 270416, 208034

Map Name: National Grid

Map date: 1976

Scale: 1:2,500

Printed at: 1:2,500



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

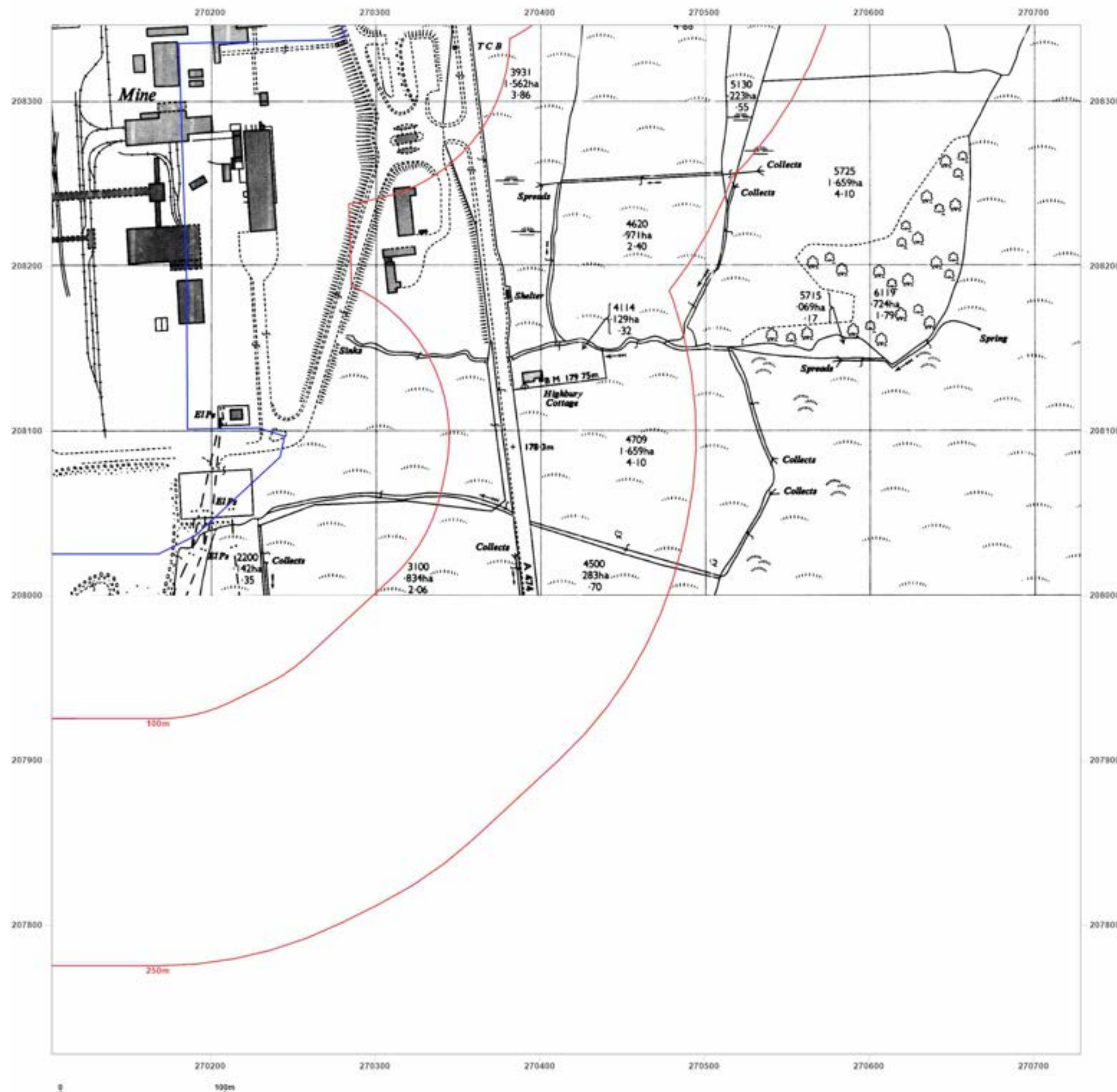


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_2_1
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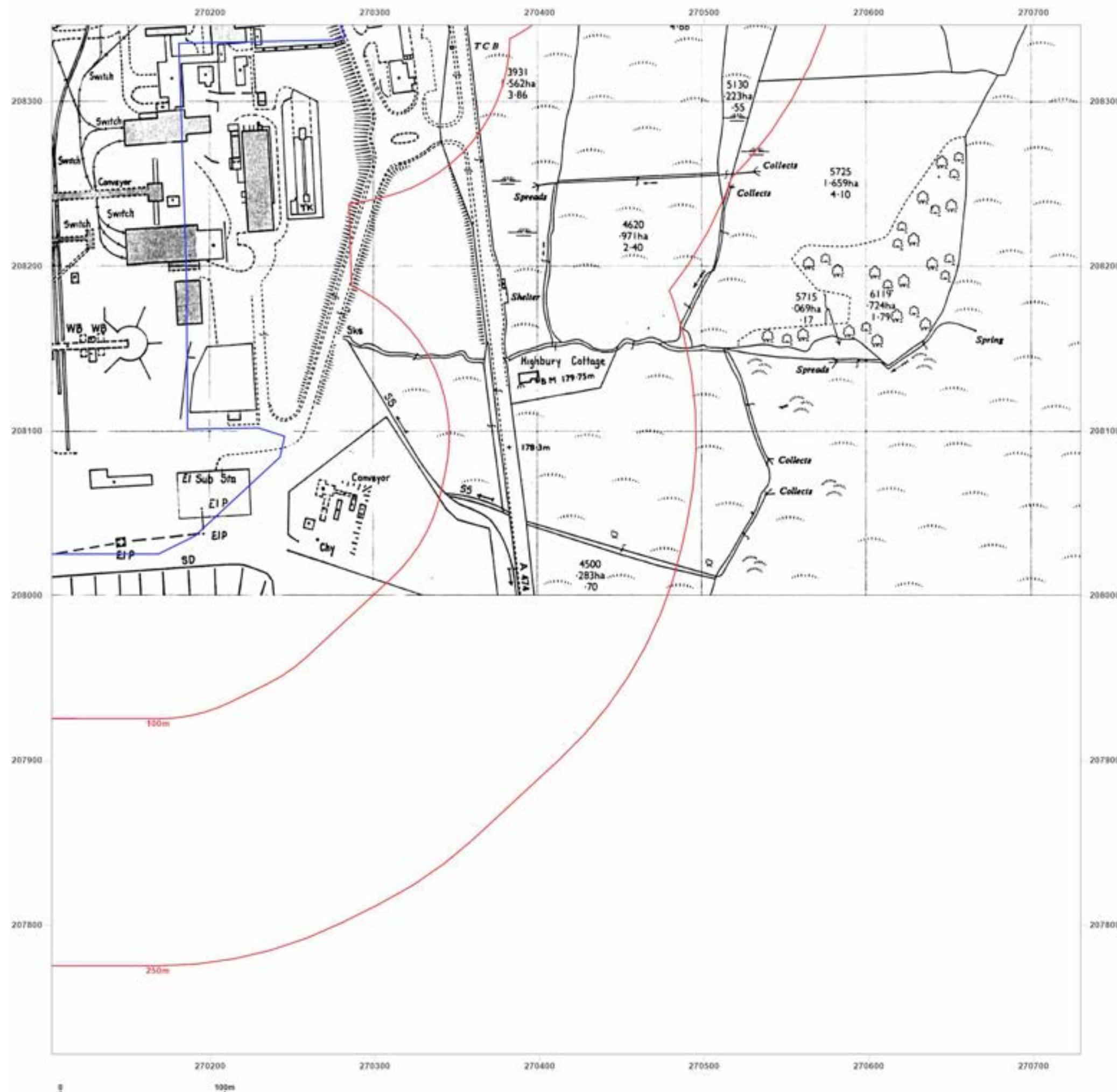


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_2_1
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Map Name: National Grid

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Grid Ref: 270416, 208034

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
Grid Ref: 270416, 208659

Map Name: County Series

Map date: 1877

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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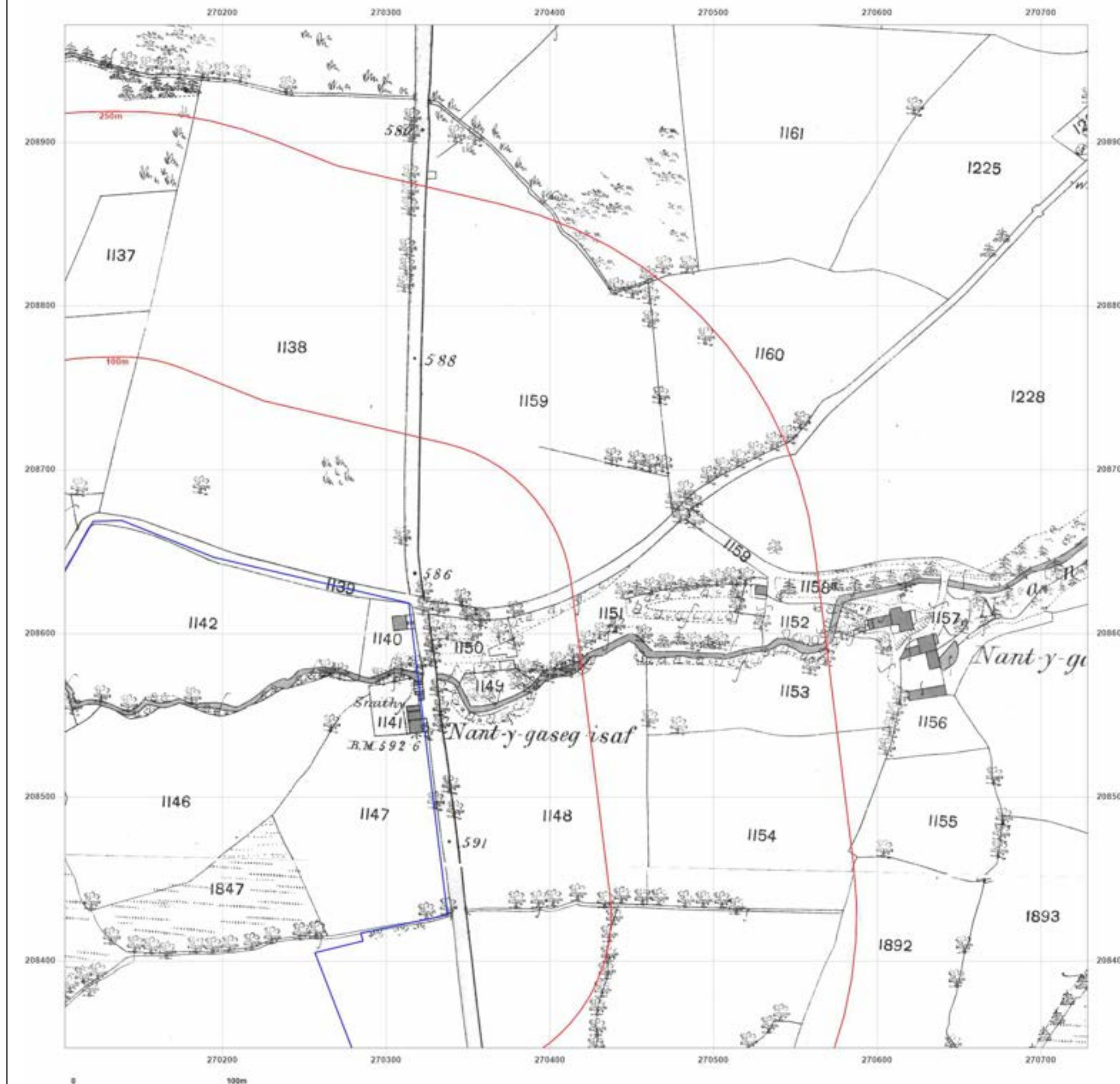


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Client Ref: Q1655
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Map Name: County Series

Map date: 1898

Scale: 1:2,500

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Revised 1898
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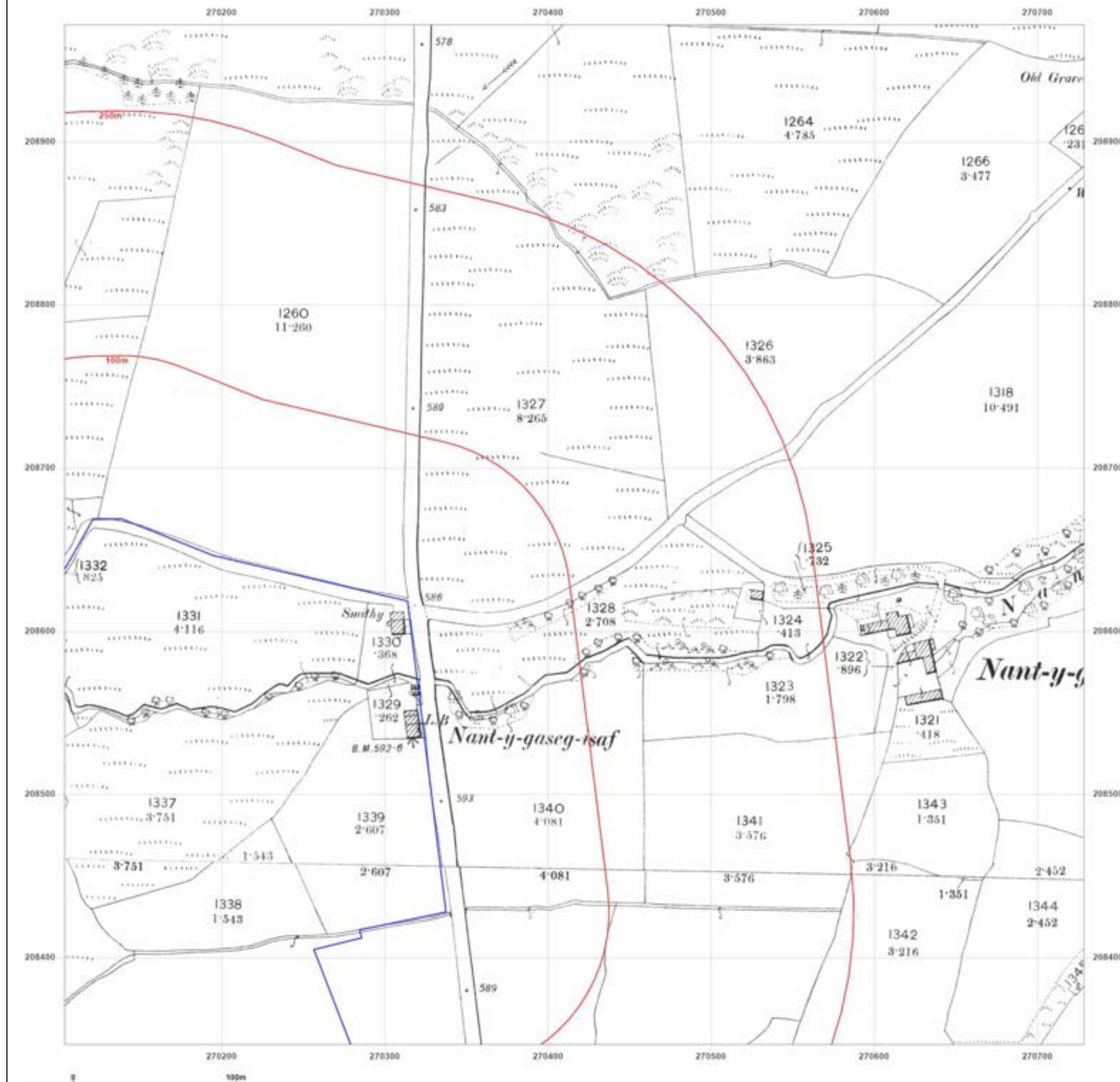


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_2_2
Grid Ref: 270416, 208659

Map Name: County Series

Map date: 1918

Scale: 1:2,500

Printed at: 1:2,500



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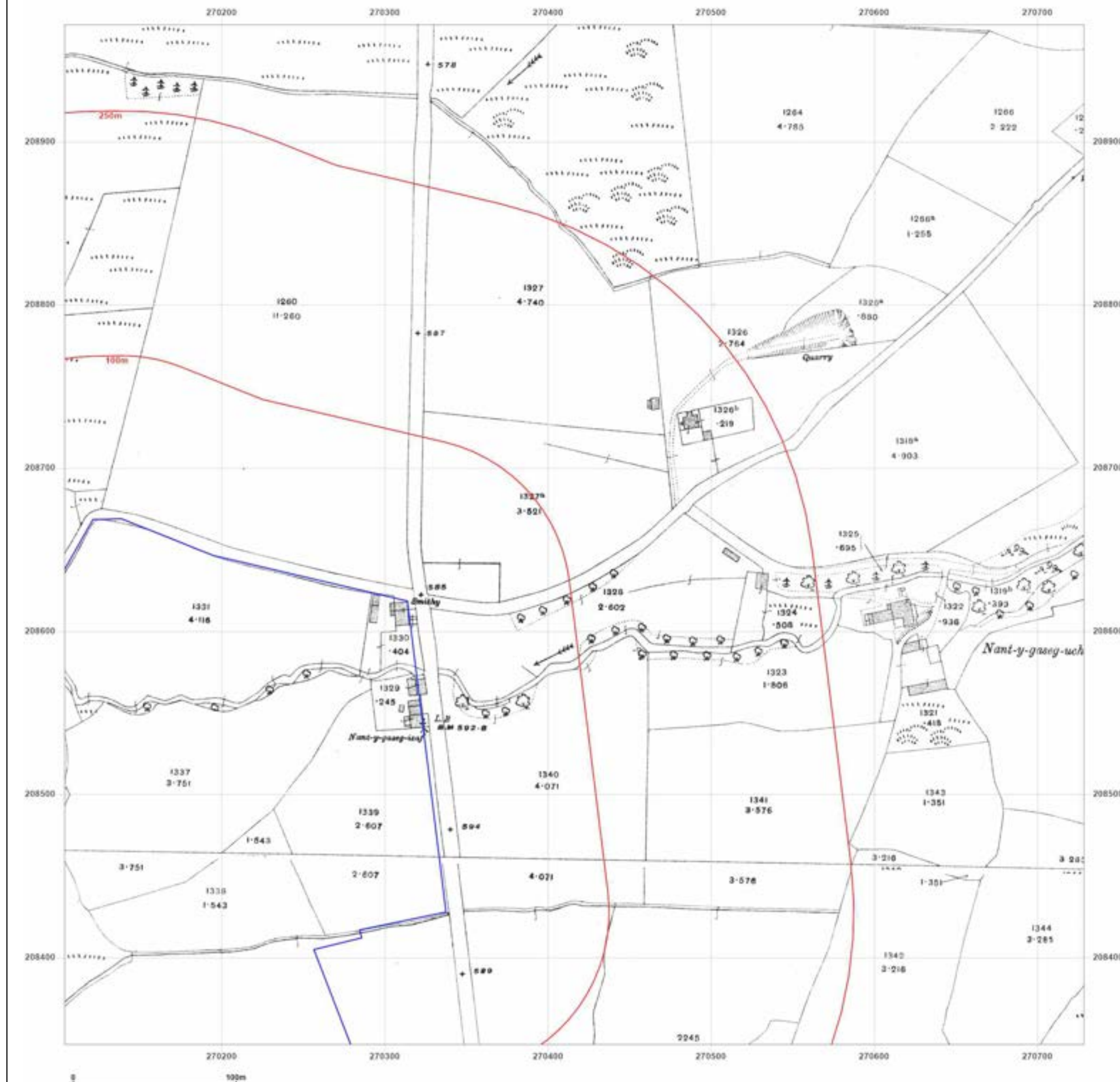


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
Grid Ref: 270416, 208659

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Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
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Edition N/A
Copyright 1962
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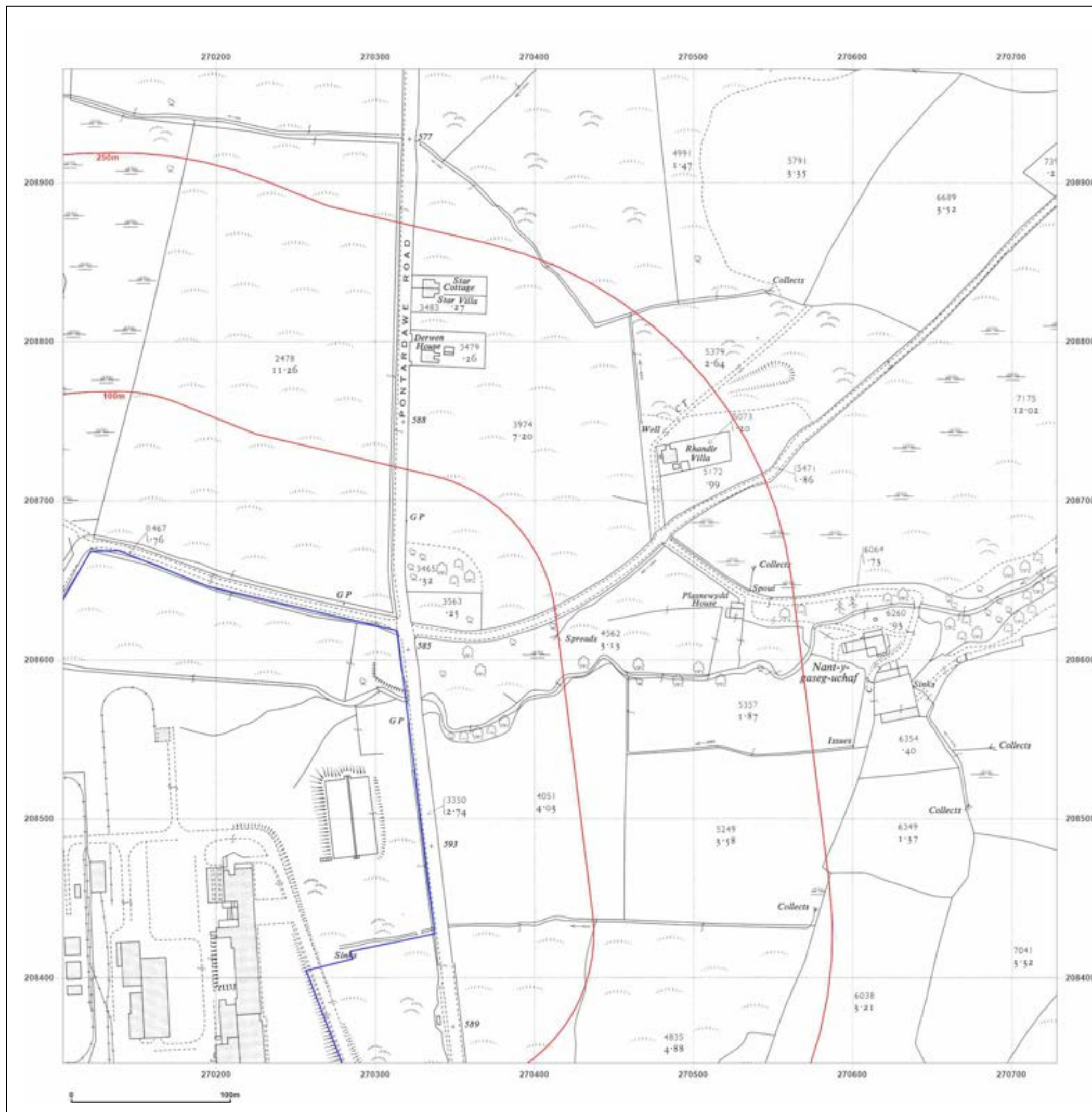


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
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Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

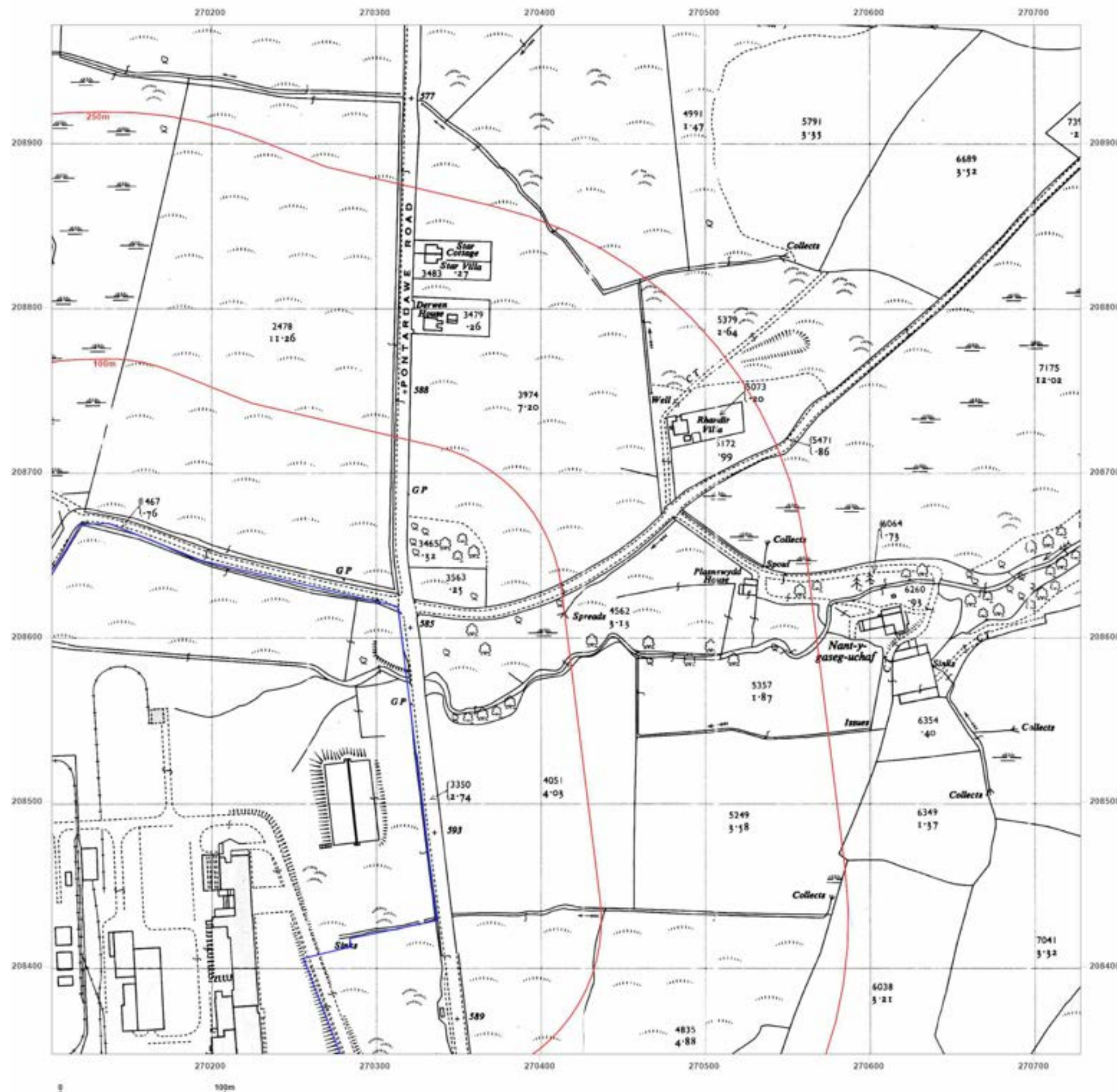


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PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
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Map Name: National Grid

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

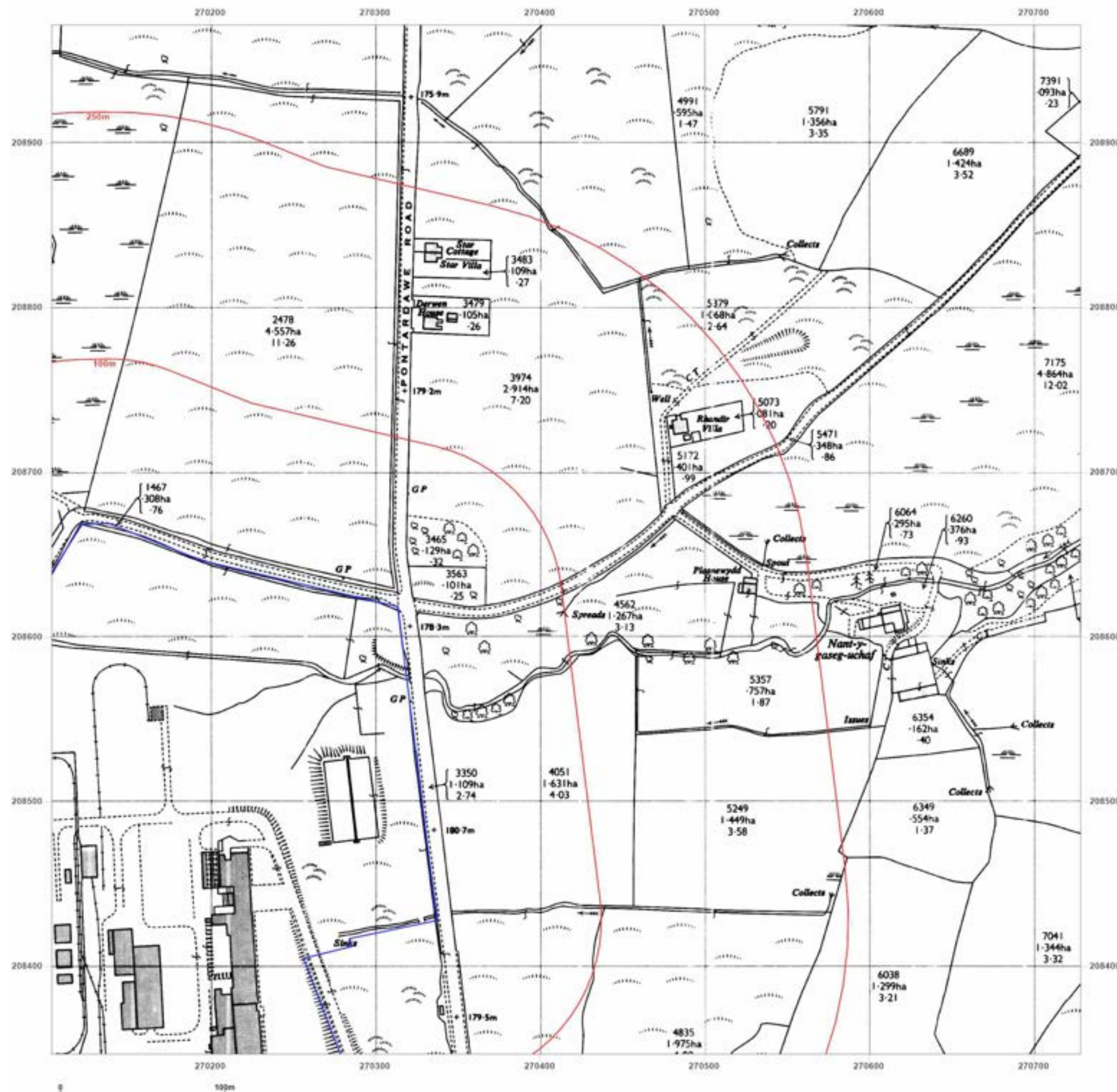


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Site Details:

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PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
Grid Ref: 270416, 208659

Map Name: National Grid

Map date: 1986

Scale: 1:2,500

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Revised 1986
Edition N/A
Copyright 1986
Levelled 1956

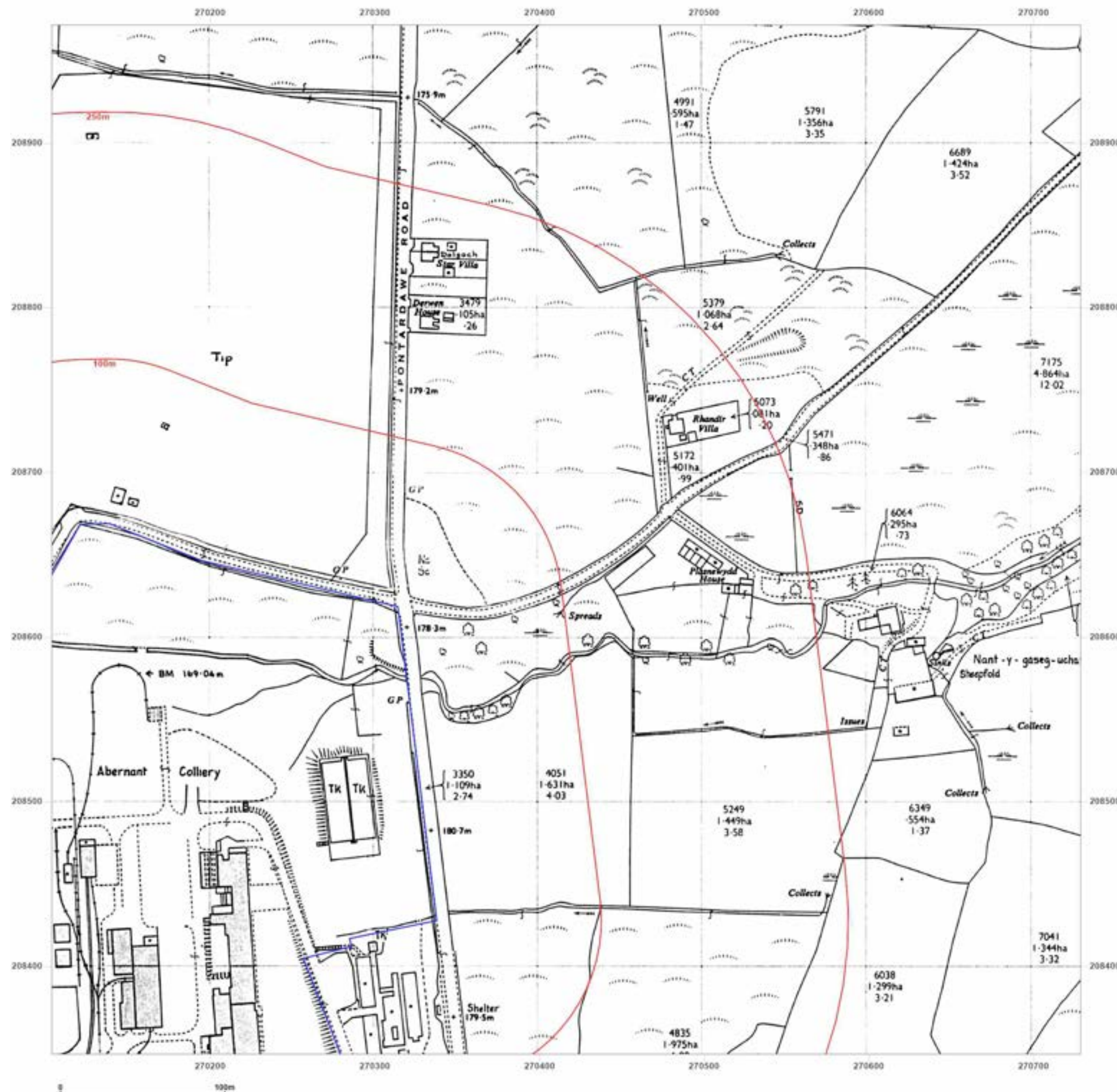


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PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
Grid Ref: 270416, 208659

Map Name: National Grid

Map date: 1986

Scale: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1986
Levelled 1956

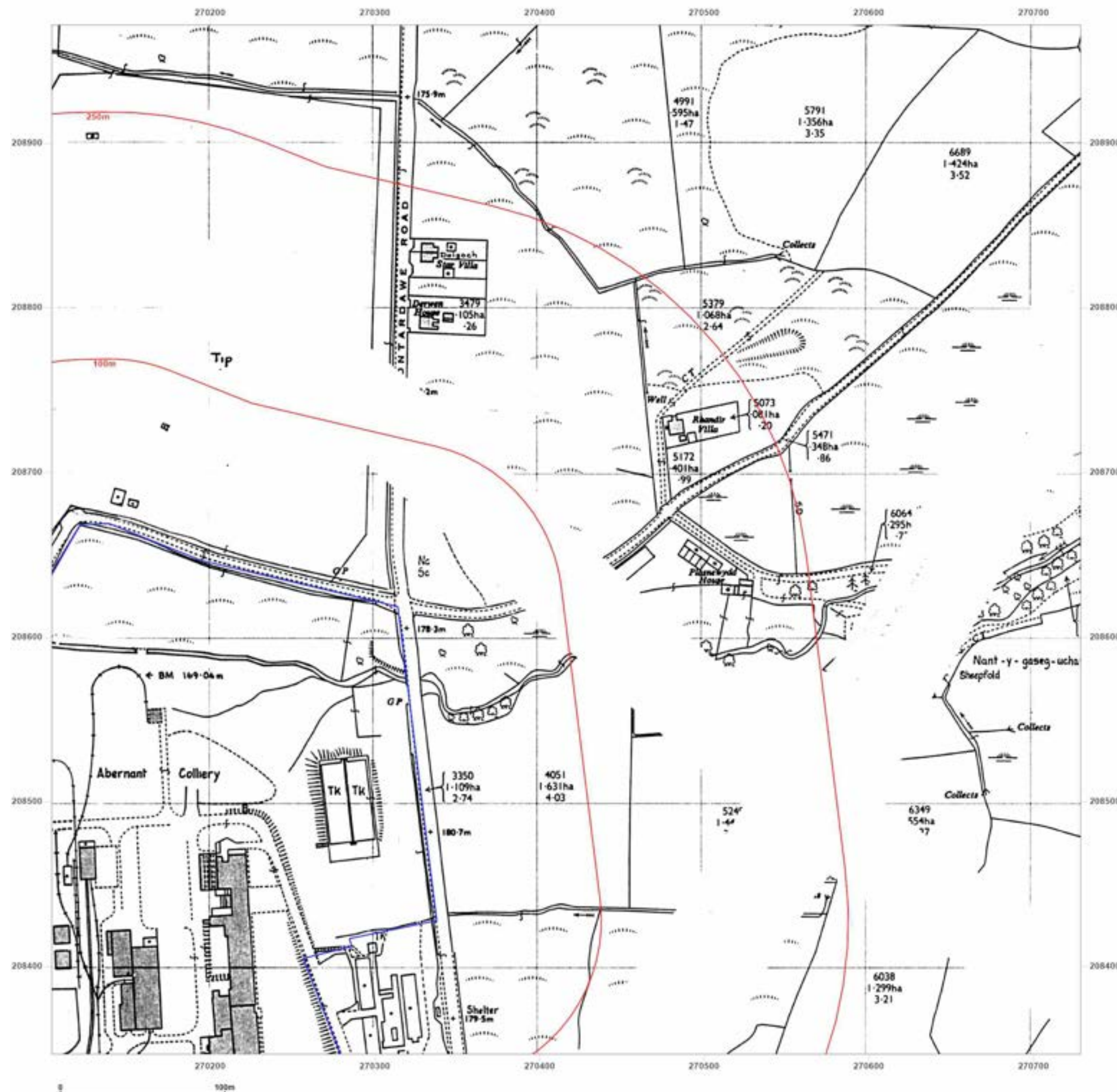


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_2_2
Grid Ref: 270416, 208659

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

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

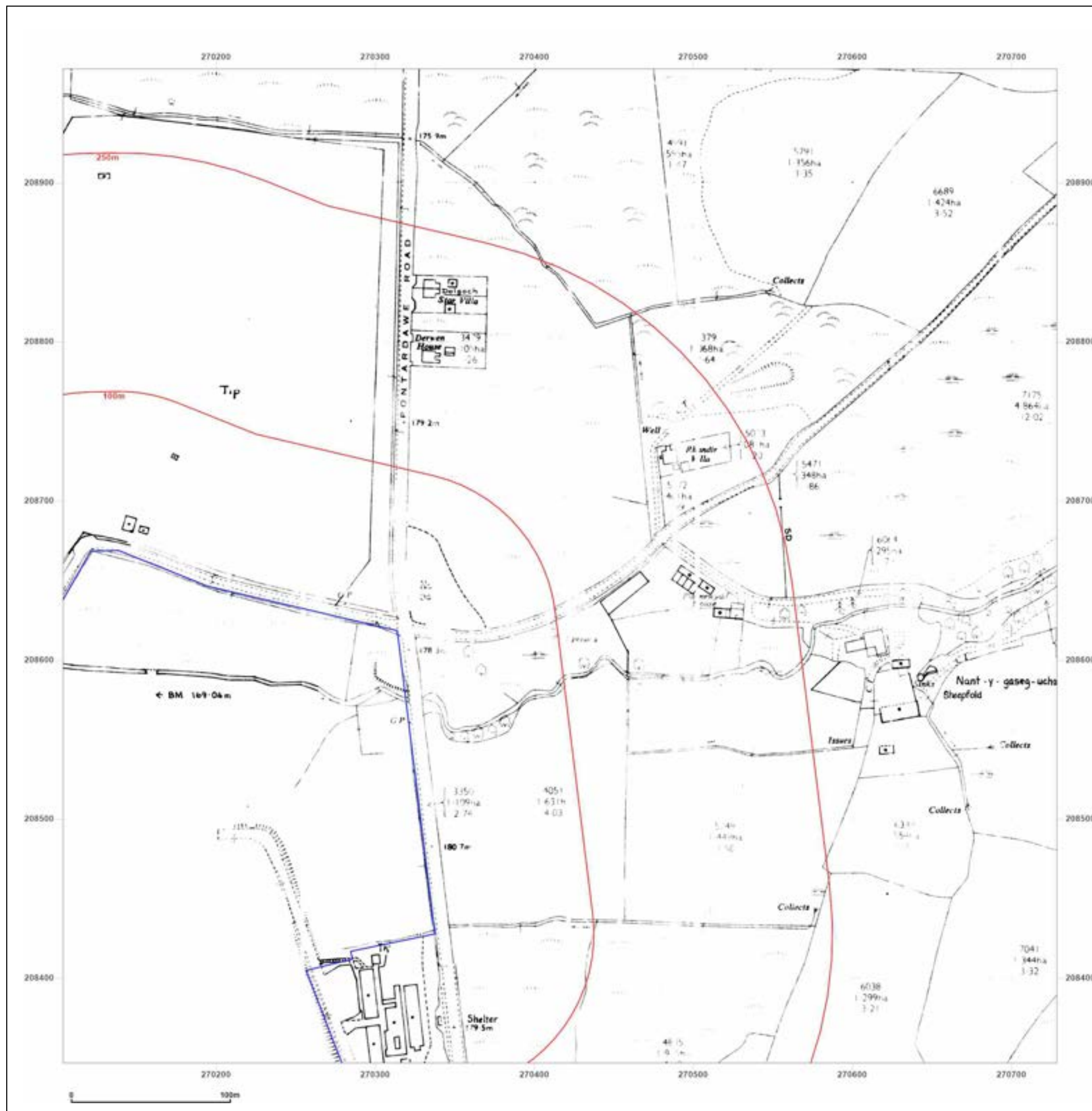


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Site Details:

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PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: County Series

Map date: 1876-1877

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1876
Revised 1876
Edition N/A
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Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A

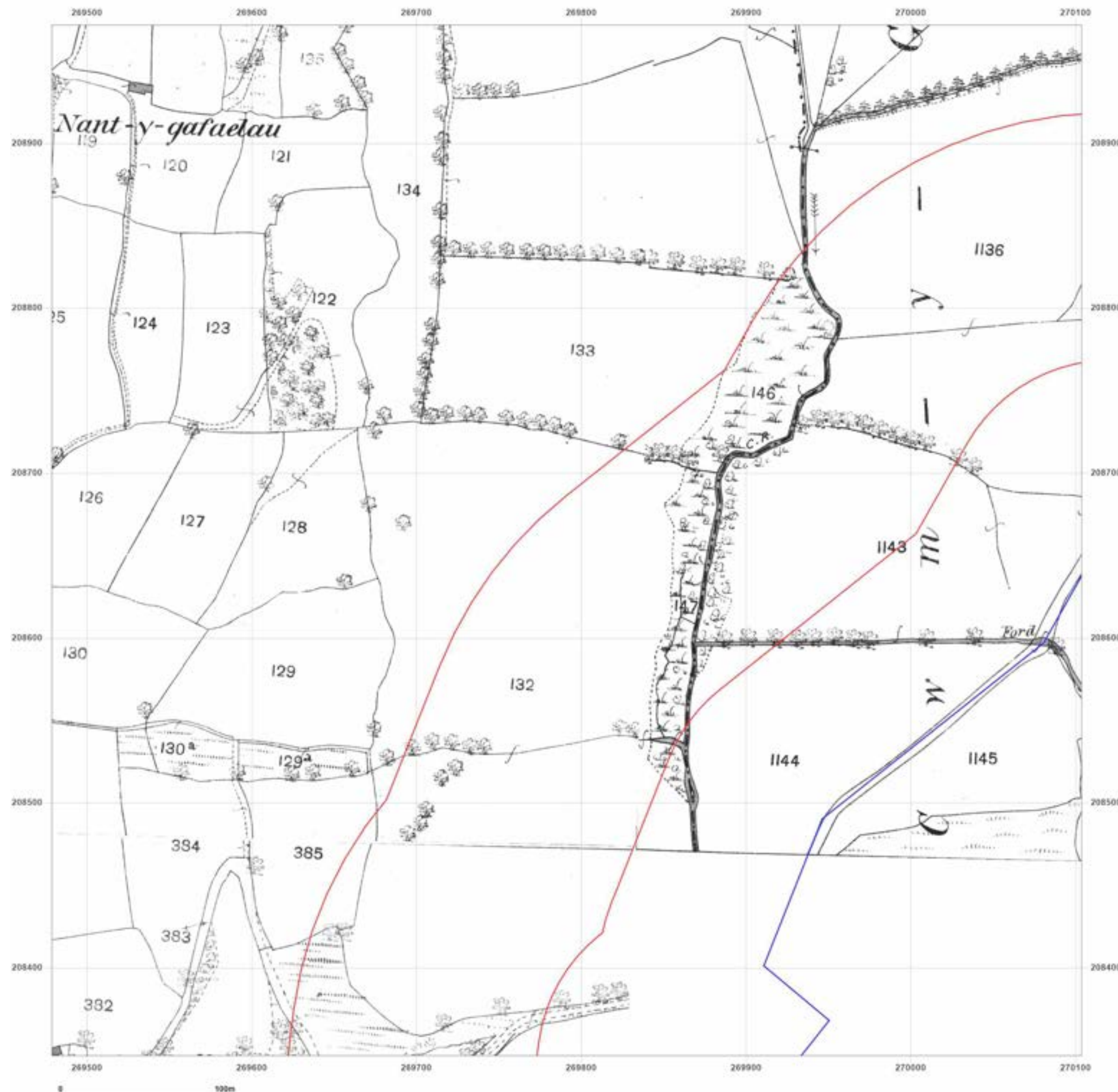


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: County Series

Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
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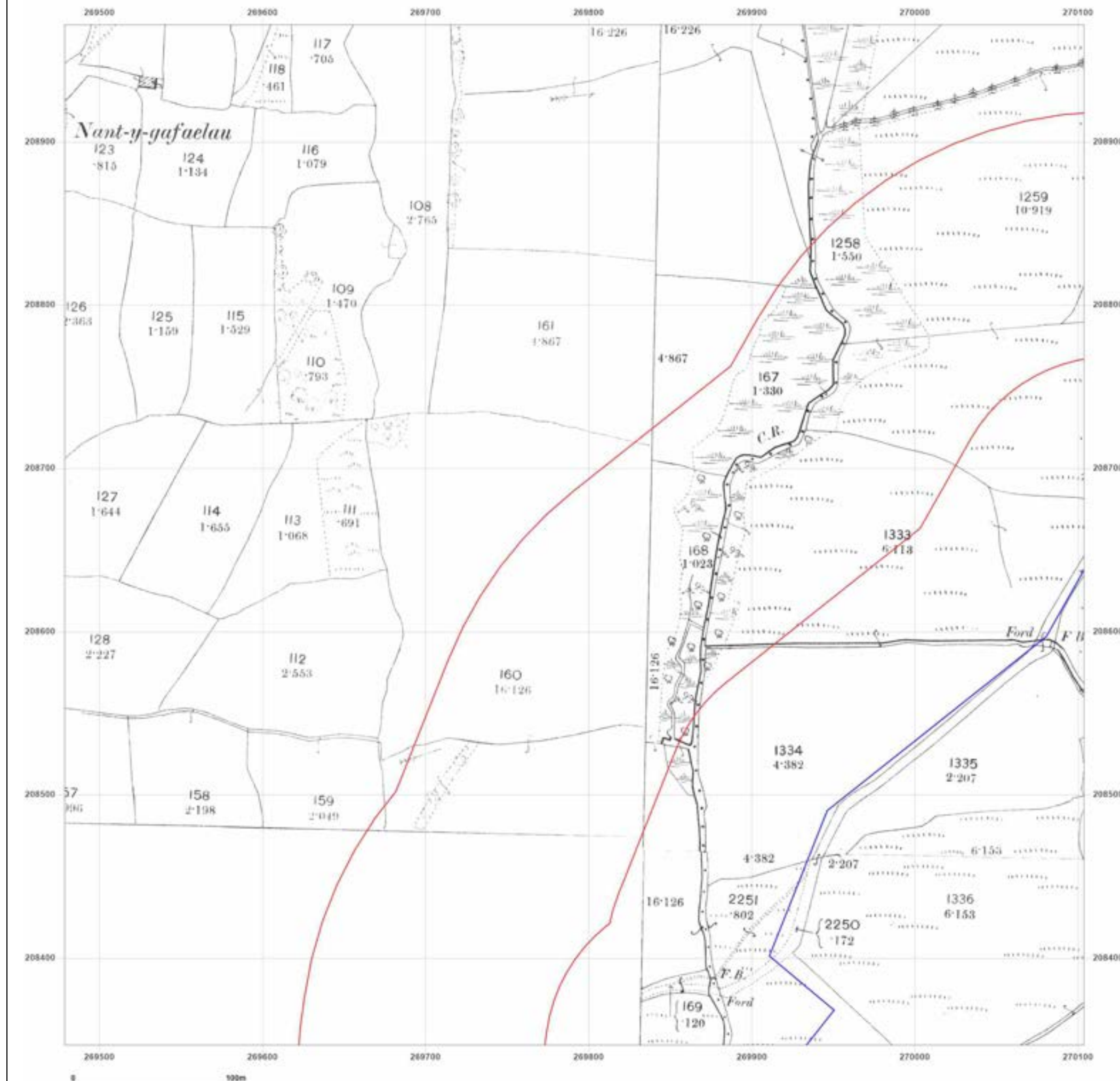


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: County Series

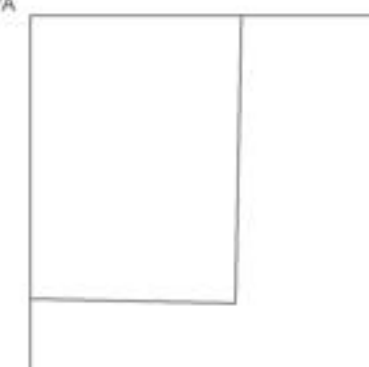
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Printed at: 1:2,500



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

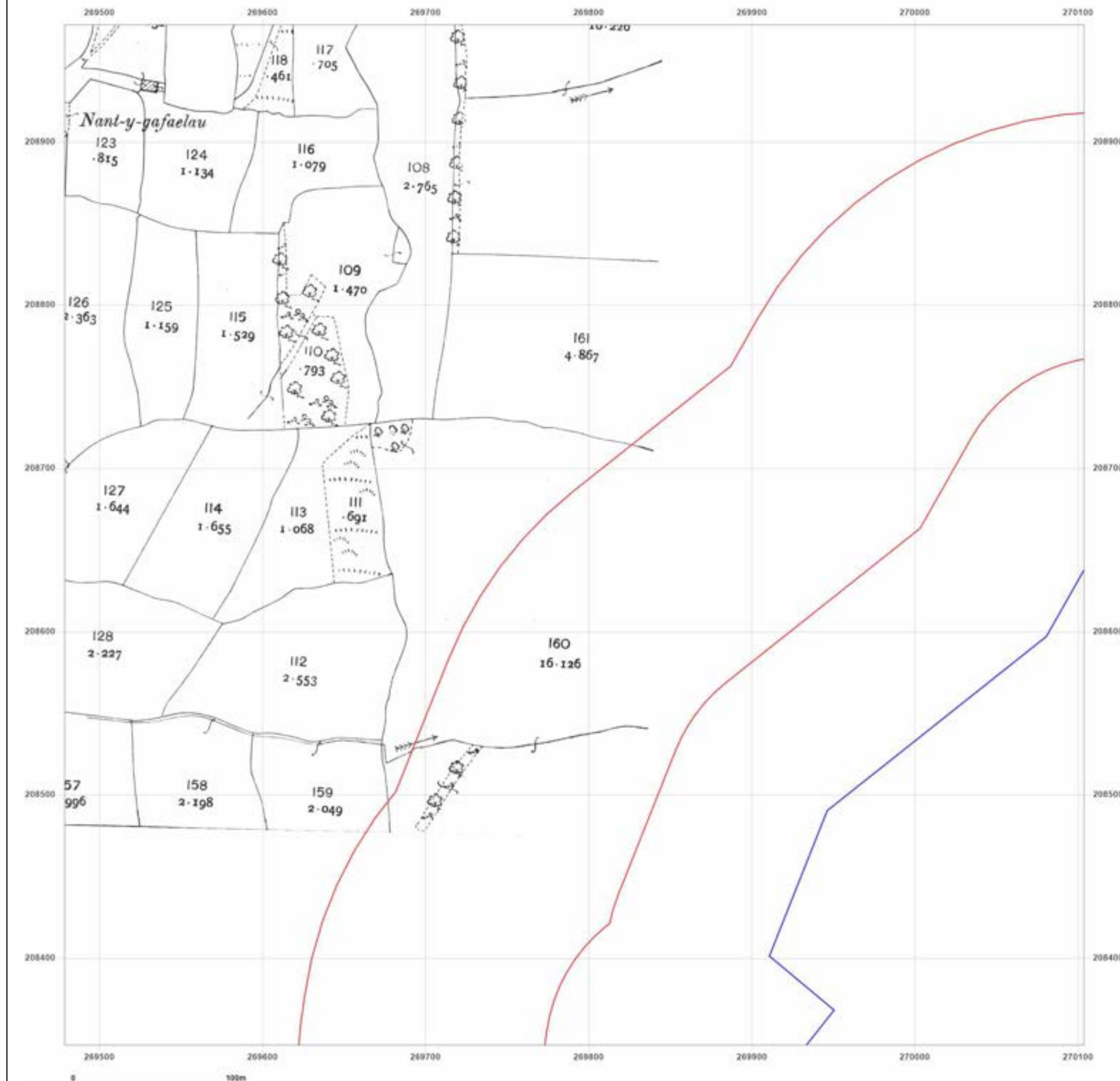


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: County Series

Map date: 1916-1918

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1918
Revised 1918
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Levelled N/A



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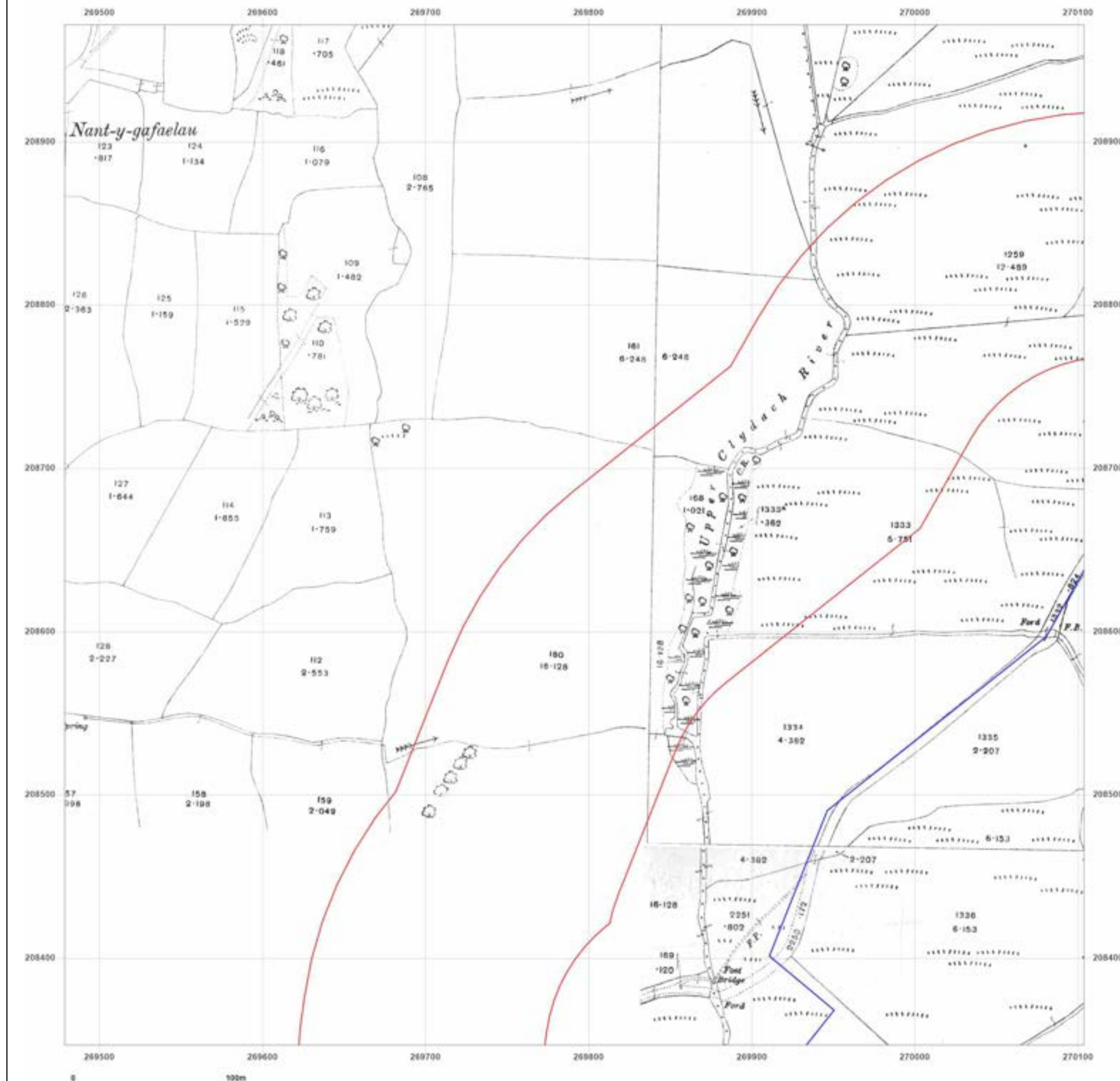


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: National Grid

Map date: 1961-1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959
Revised 1959
Edition N/A
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Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1961
Levelled 1958

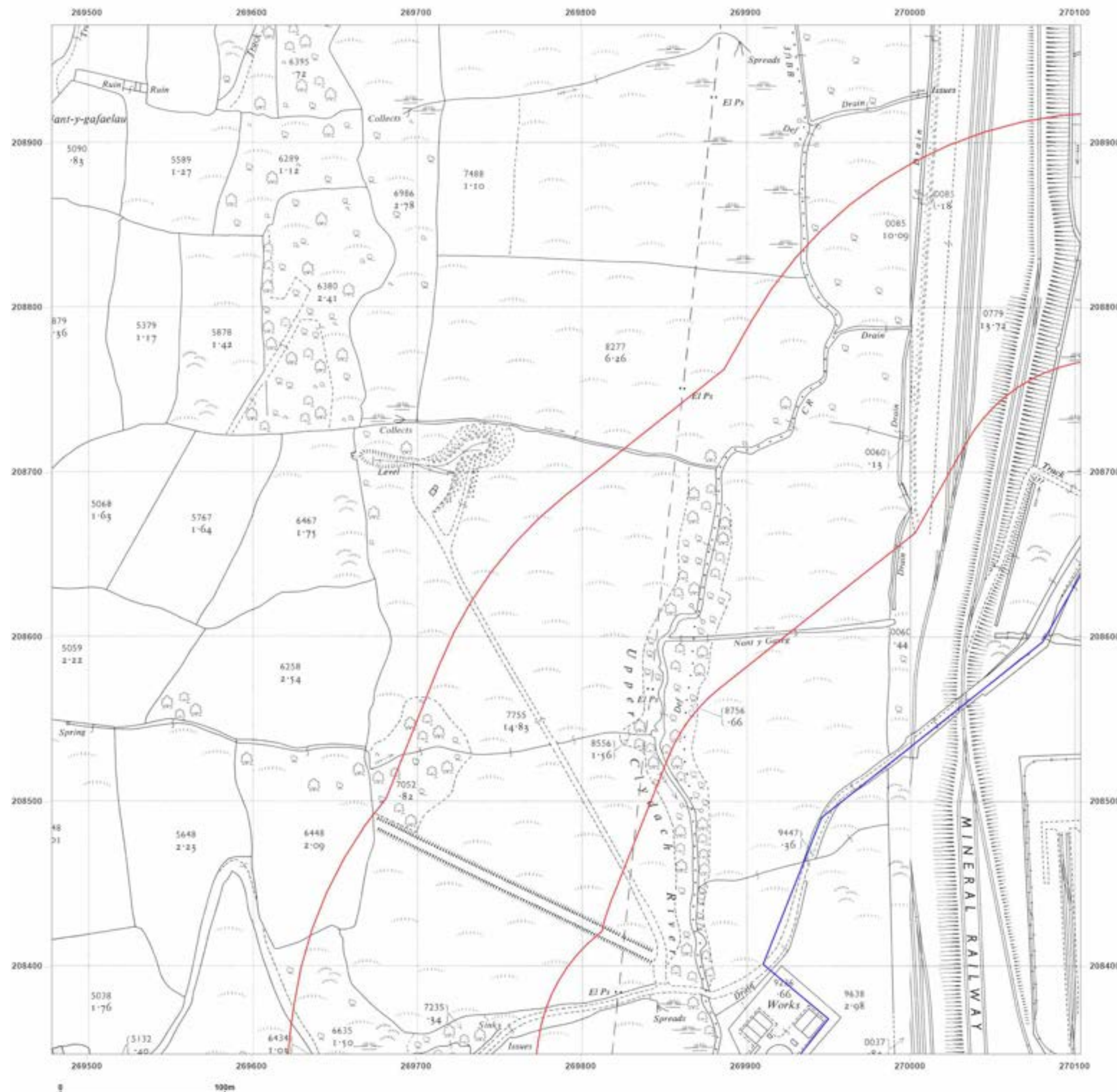


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: National Grid

Map date: 1961-1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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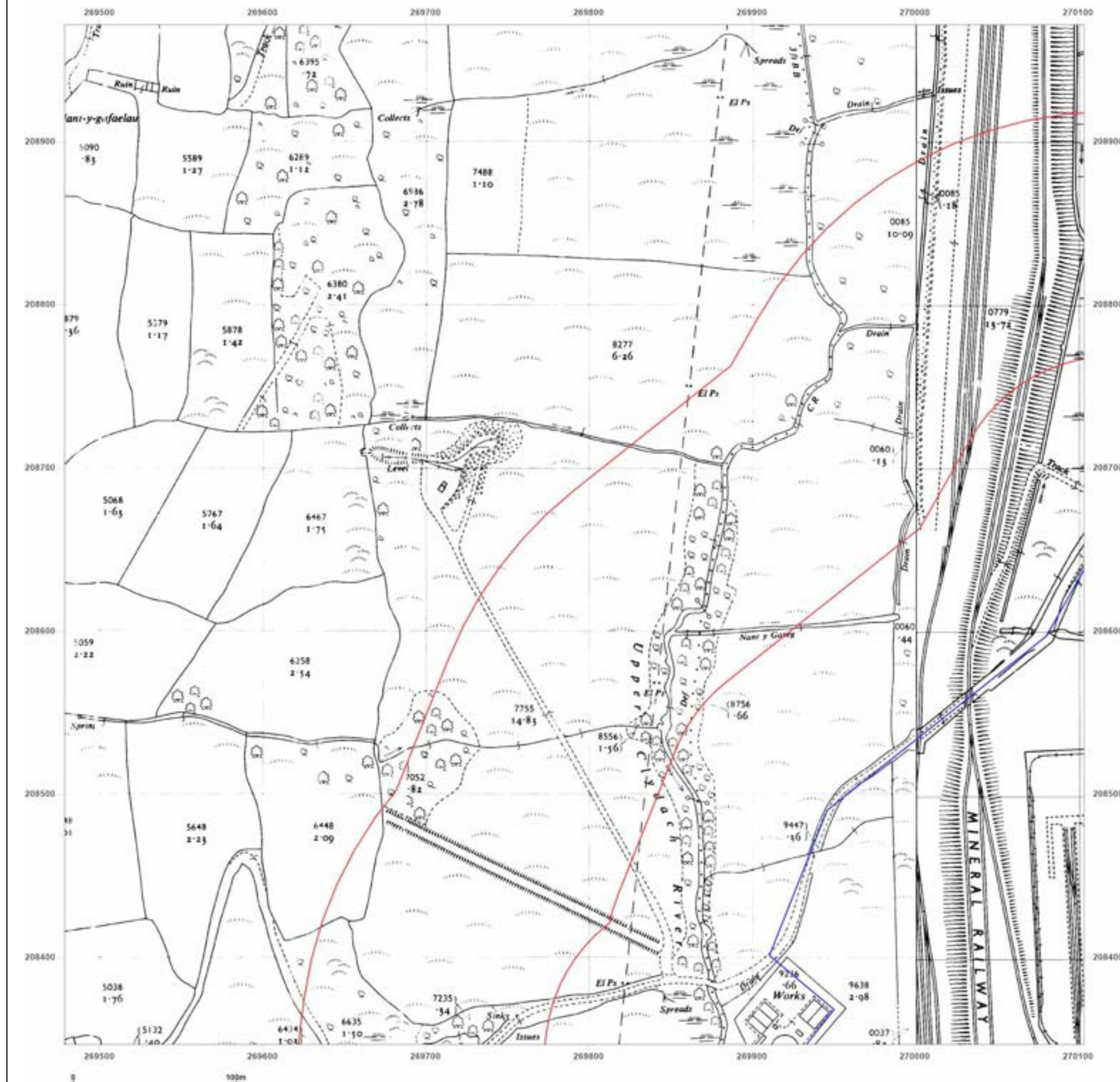


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_2
Grid Ref: 269791, 208659

Map Name: National Grid

Map date: 1992-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

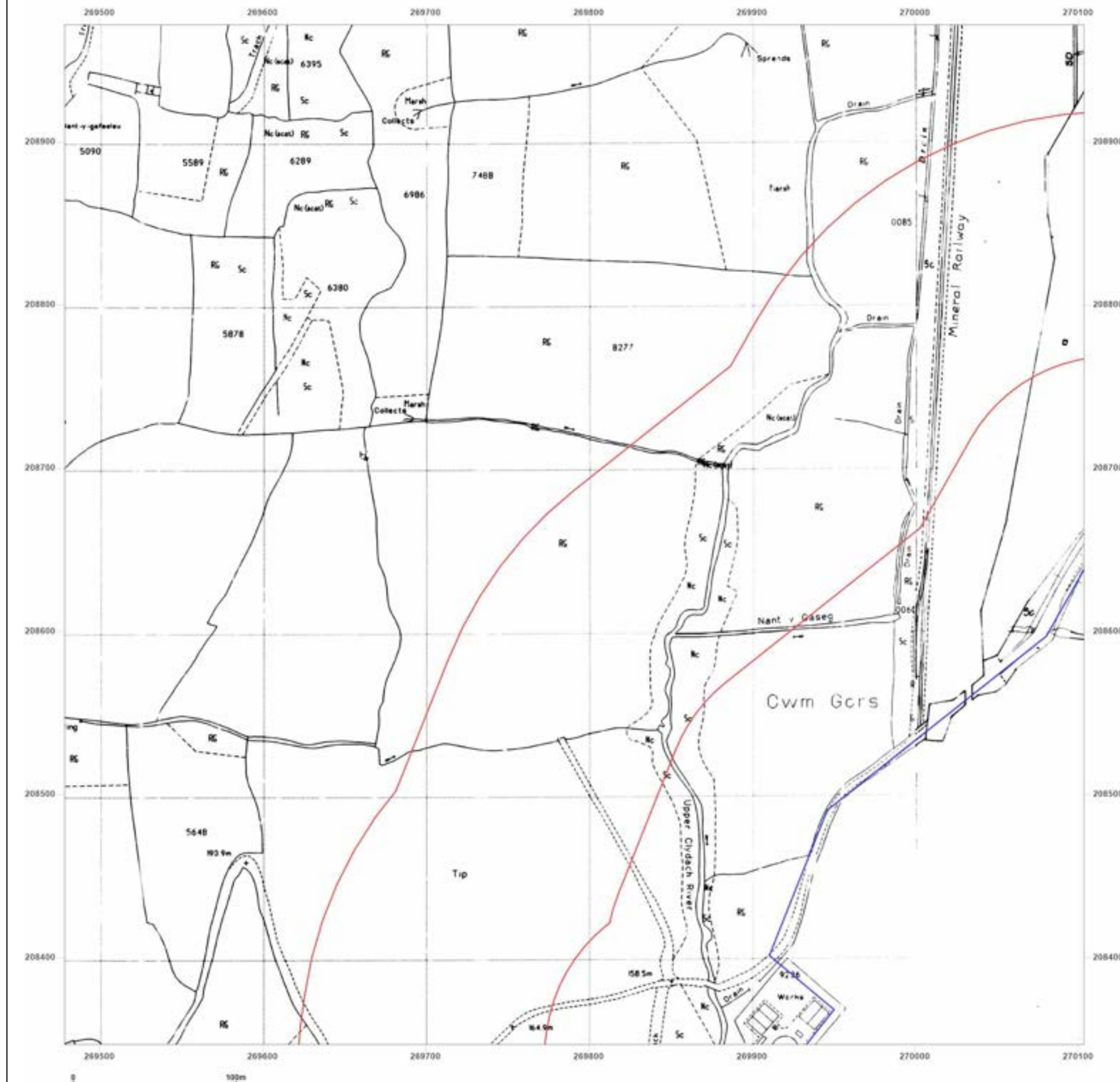


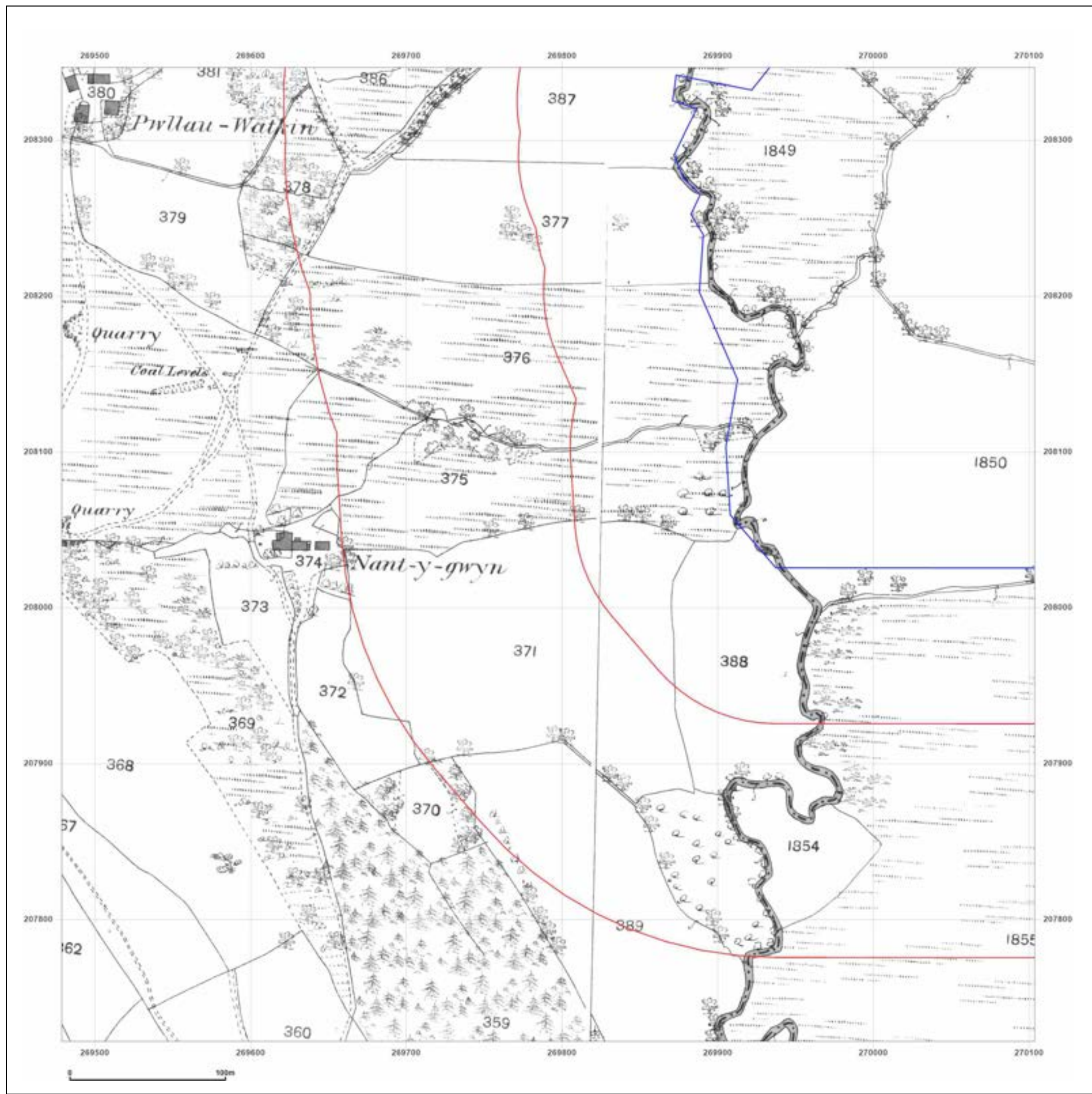
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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_1_1
Grid Ref: 269791, 208034

Map Name: County Series

Map date: 1876-1877

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1877
Revised 1877
Edition N/A
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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_1
Grid Ref: 269791, 208034

Map Name: County Series

Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1898
Revised 1898
Edition N/A
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Surveyed 1898
Revised 1898
Edition N/A
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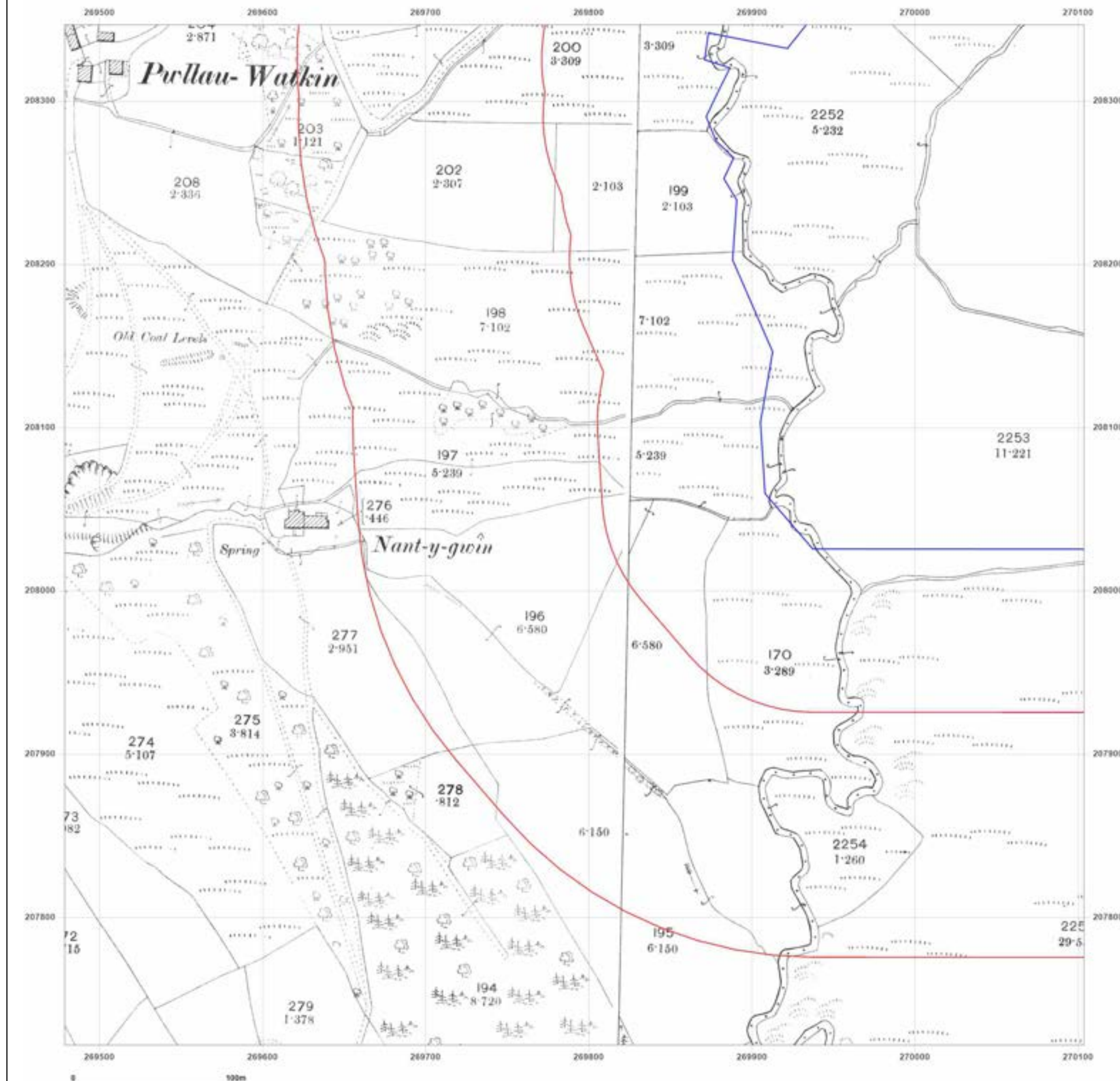


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Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_1
Grid Ref: 269791, 208034

Map Name: County Series

Map date: 1918

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1918
Revised 1918
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1918
Revised 1918
Edition N/A
Copyright N/A
Levelled N/A

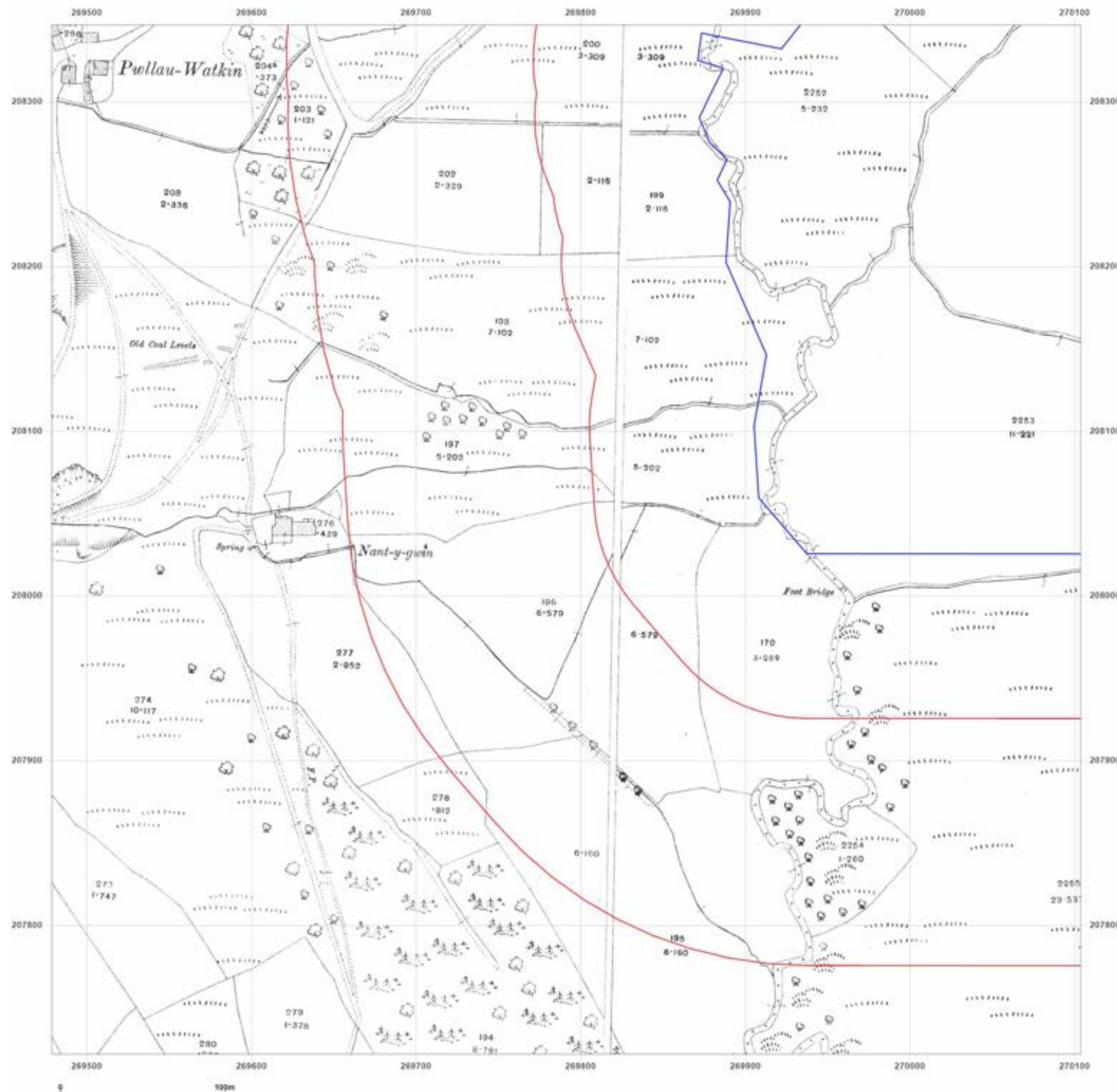


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_1_1
Grid Ref: 269791, 208034

Map Name: National Grid

Map date: 1960-1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959
Revised 1959
Edition N/A
Copyright 1961
Levelled 1956

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1956

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

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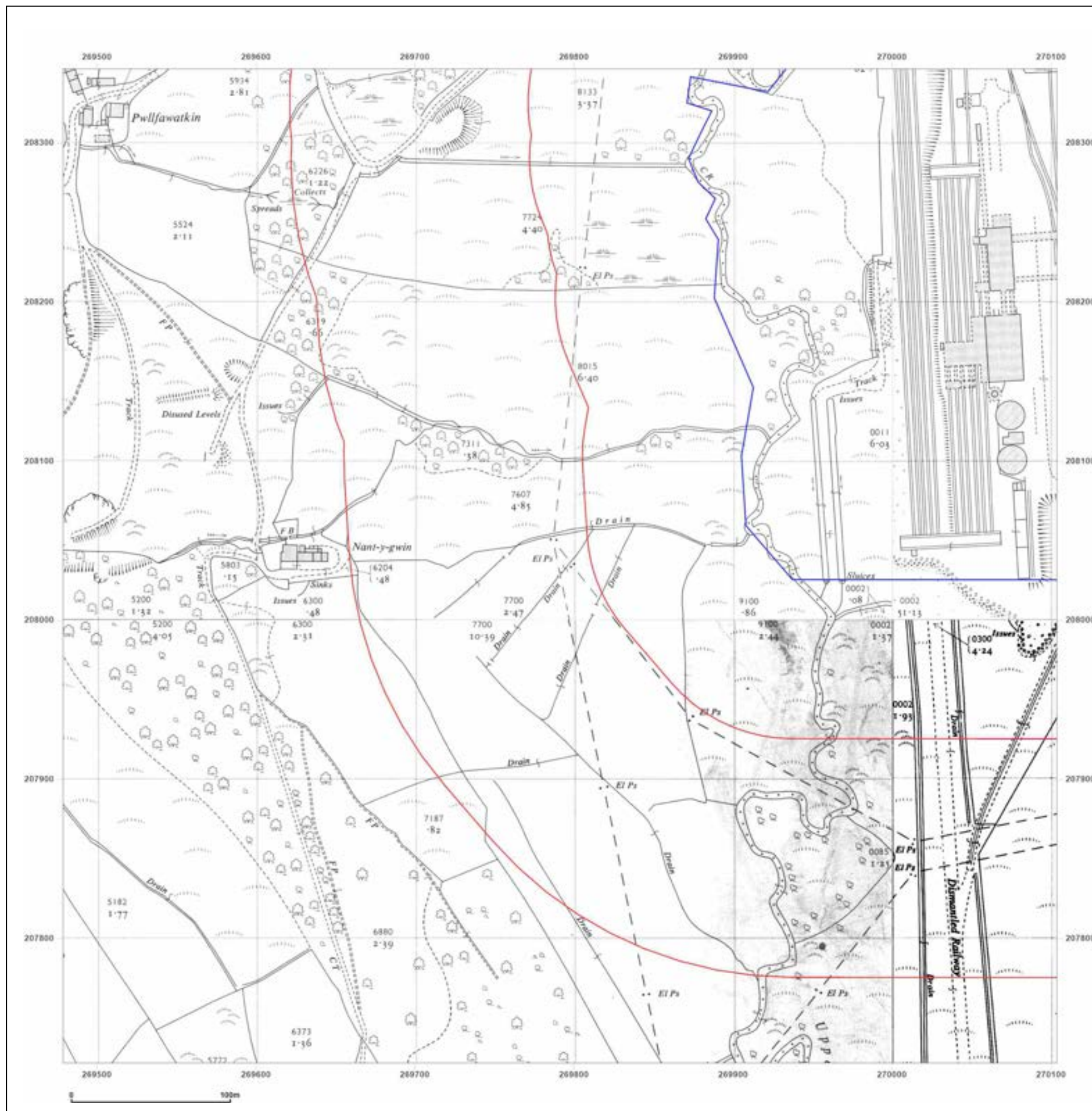


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940_LS_1_1
Grid Ref: 269791, 208034

Map Name: National Grid

Map date: 1960-1962

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 N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1960 Revised 1960 Edition N/A Copyright 1961 Levelled 1956

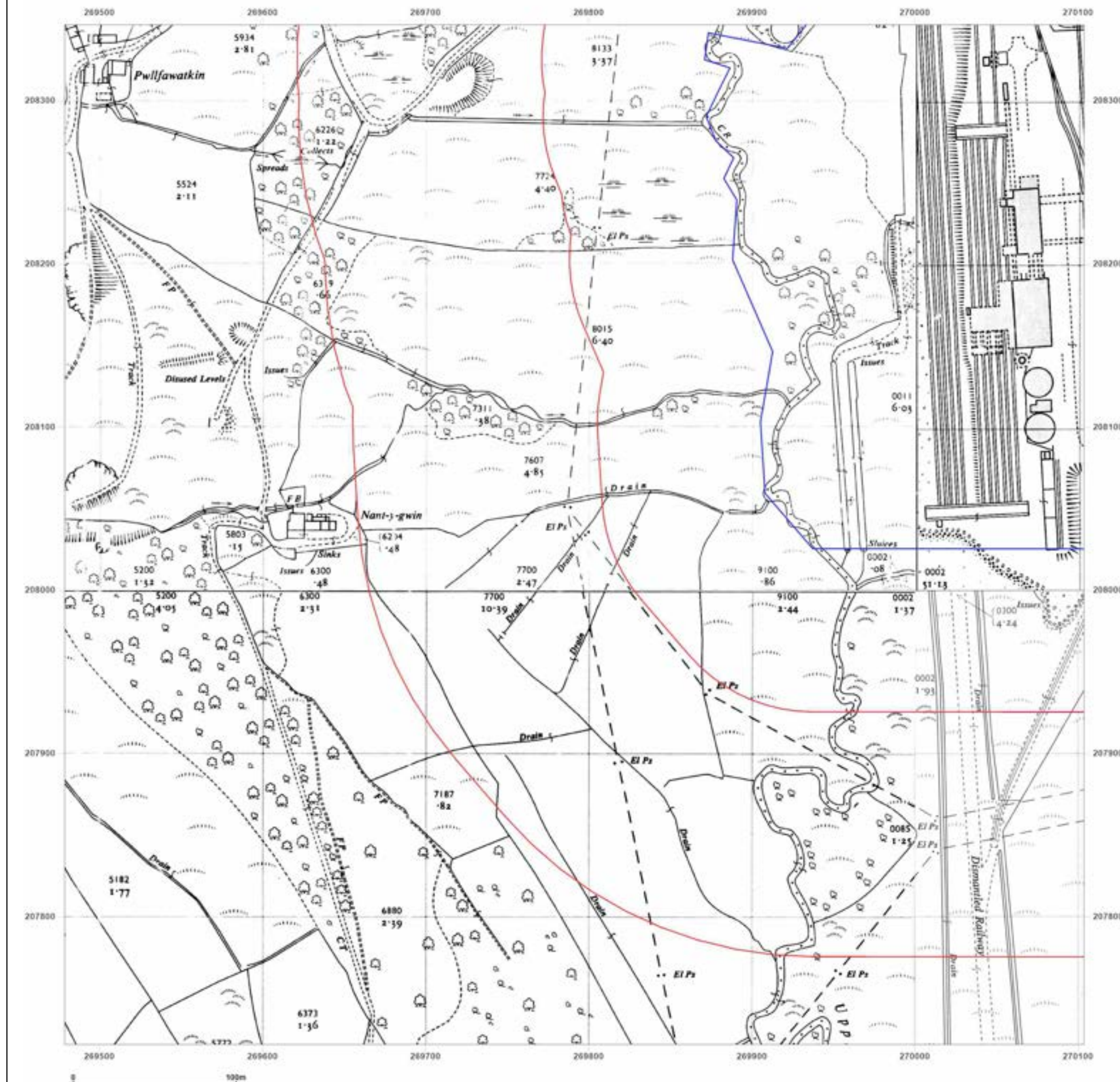


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-94O_LS_1_1
Grid Ref: 269791, 208034

Map Name: National Grid

Map date: 1992-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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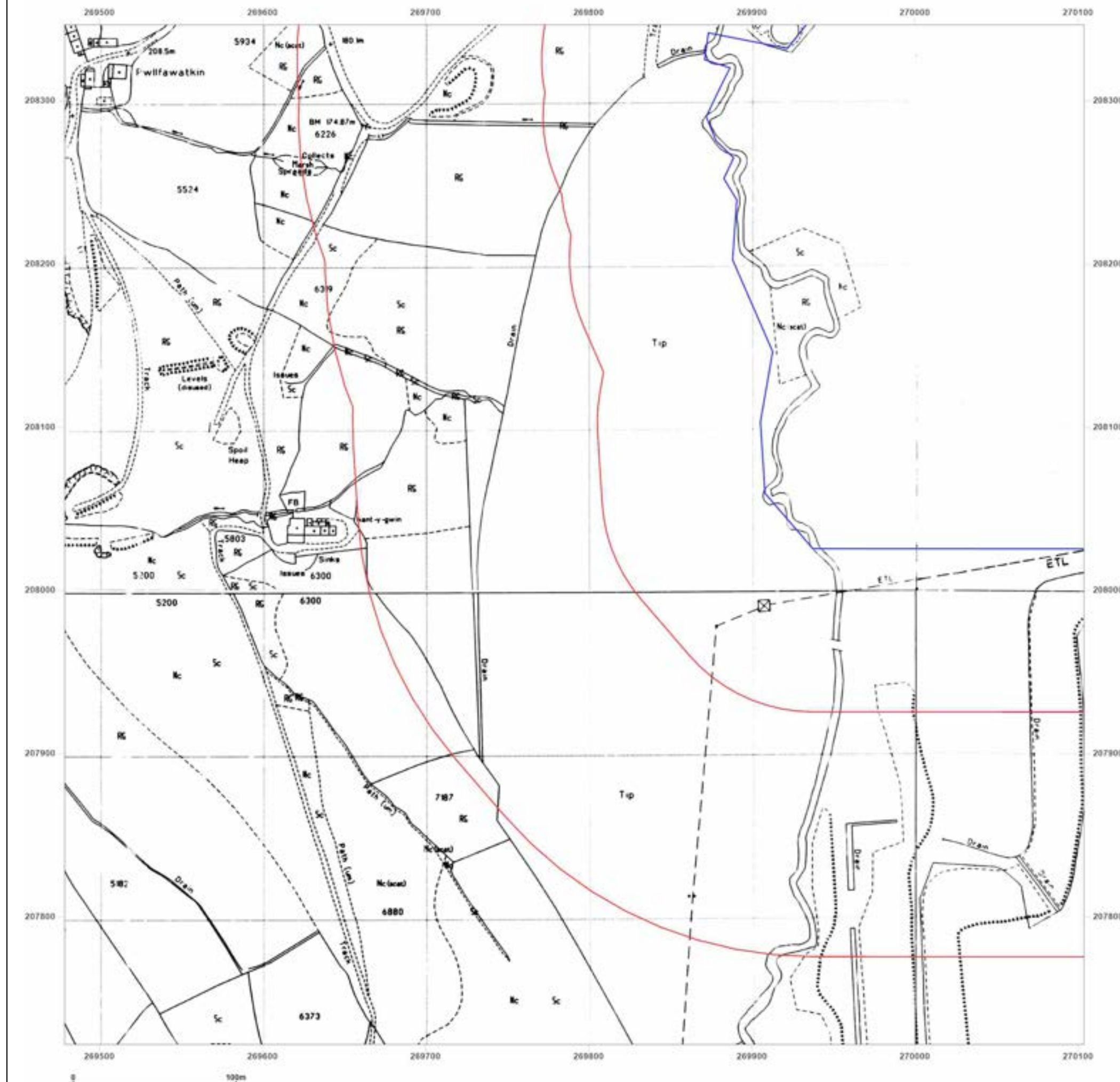


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

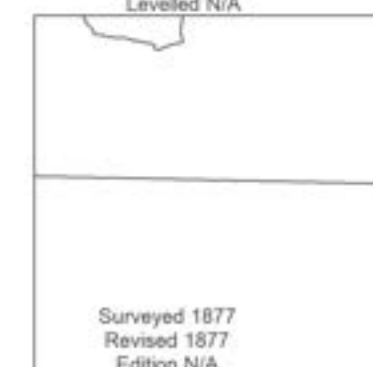
Map date: 1877

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
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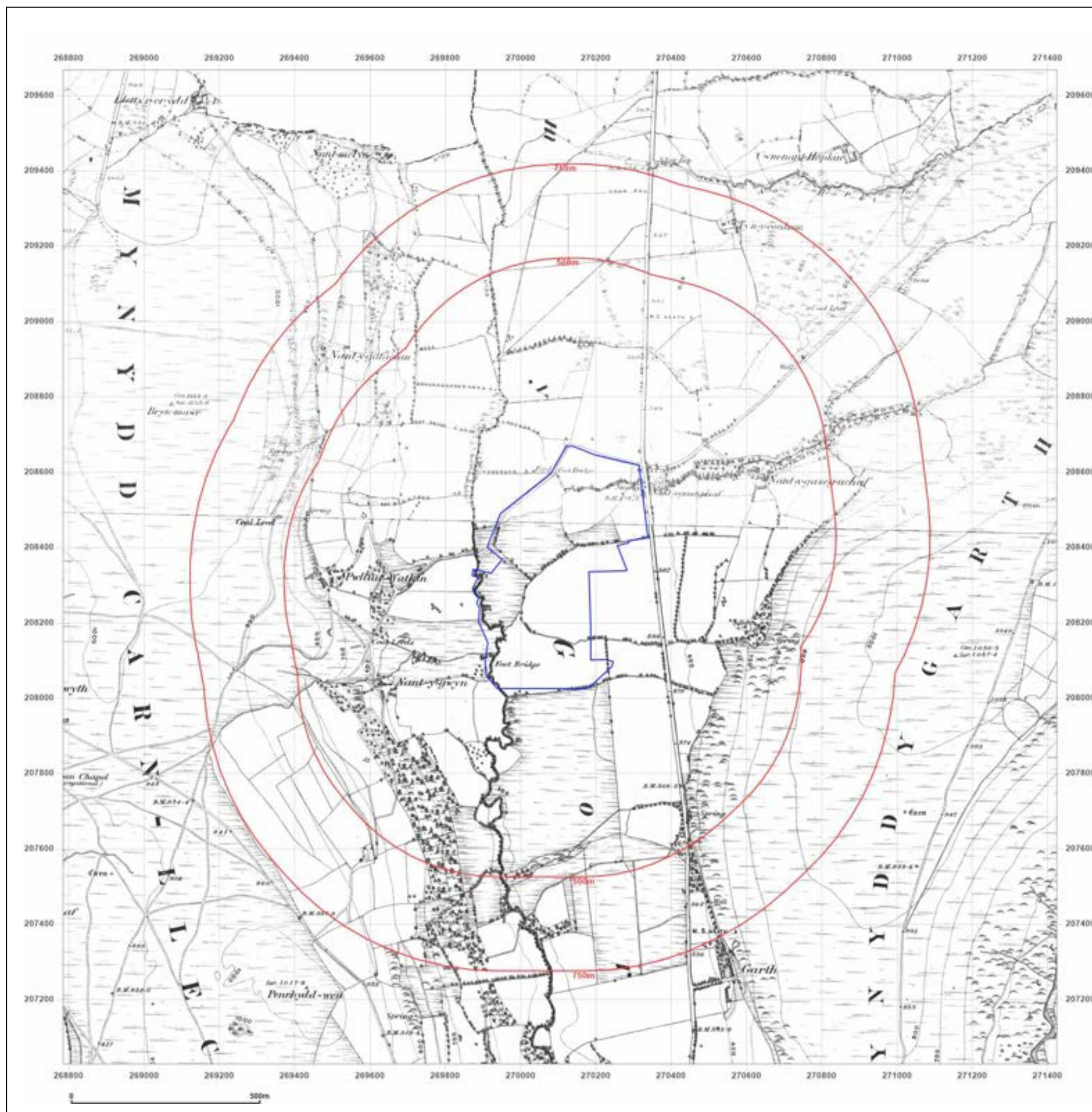


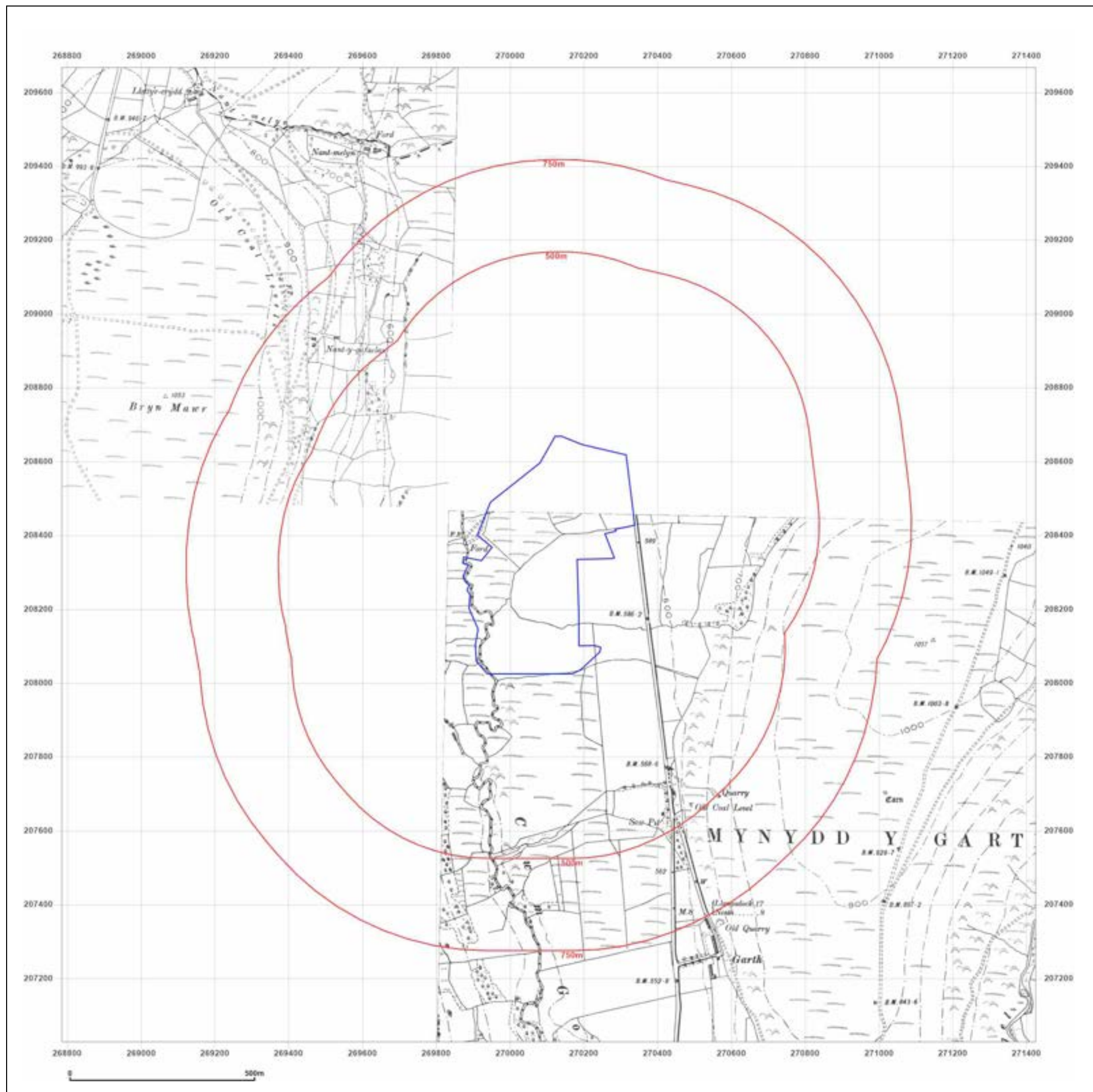
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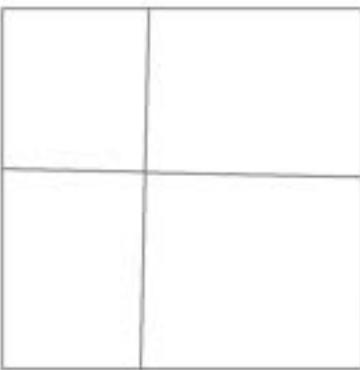
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PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series
Map date: 1896-1897
Scale: 1:10,560
Printed at: 1:10,560



Surveyed 1876
Revised 1896
Edition N/A
Copyright N/A
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Surveyed 1877
Revised 1897
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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

Map date: 1897-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

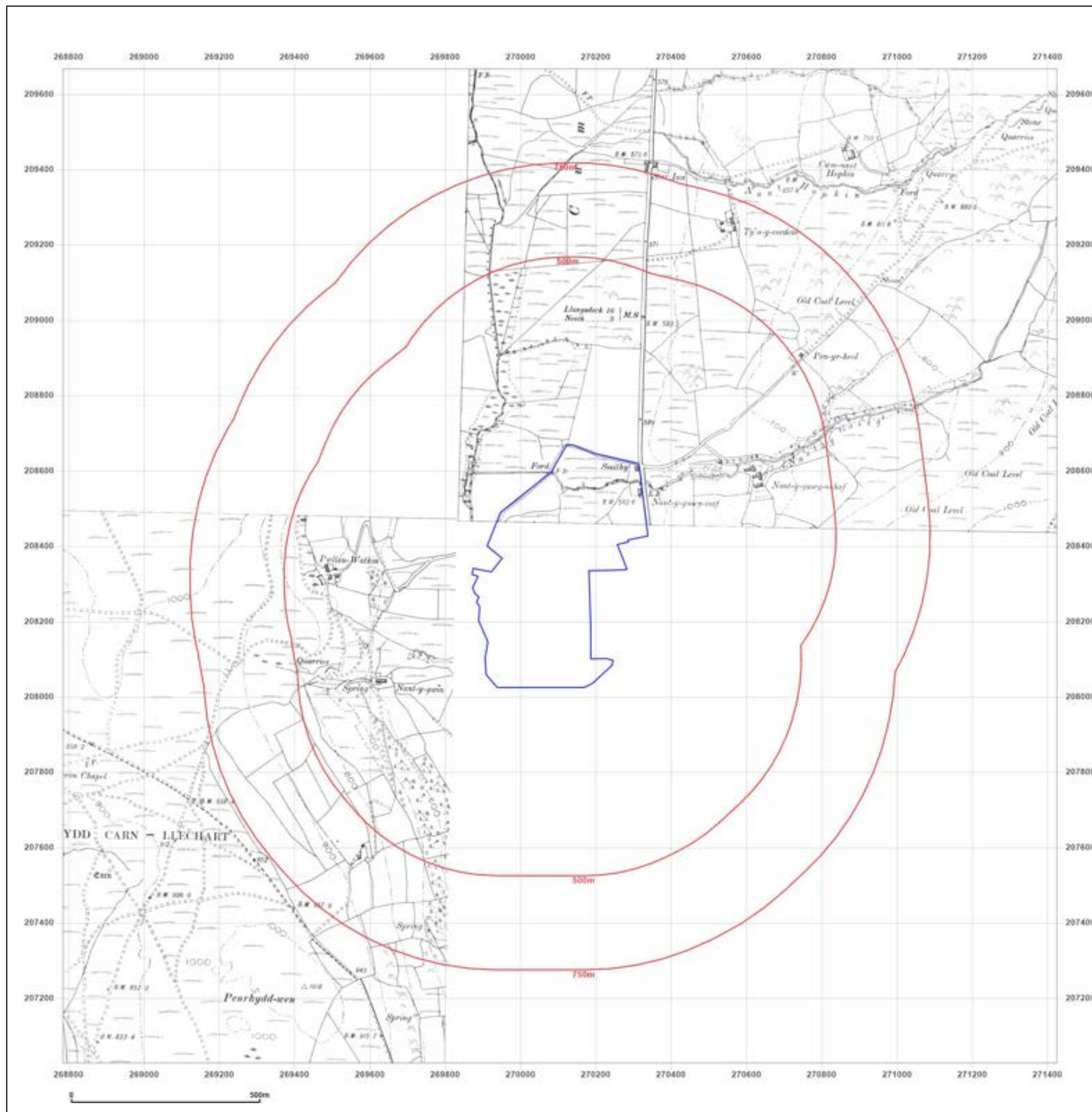


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

Map date: 1913

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1913
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1913
Edition N/A
Copyright N/A
Levelled N/A

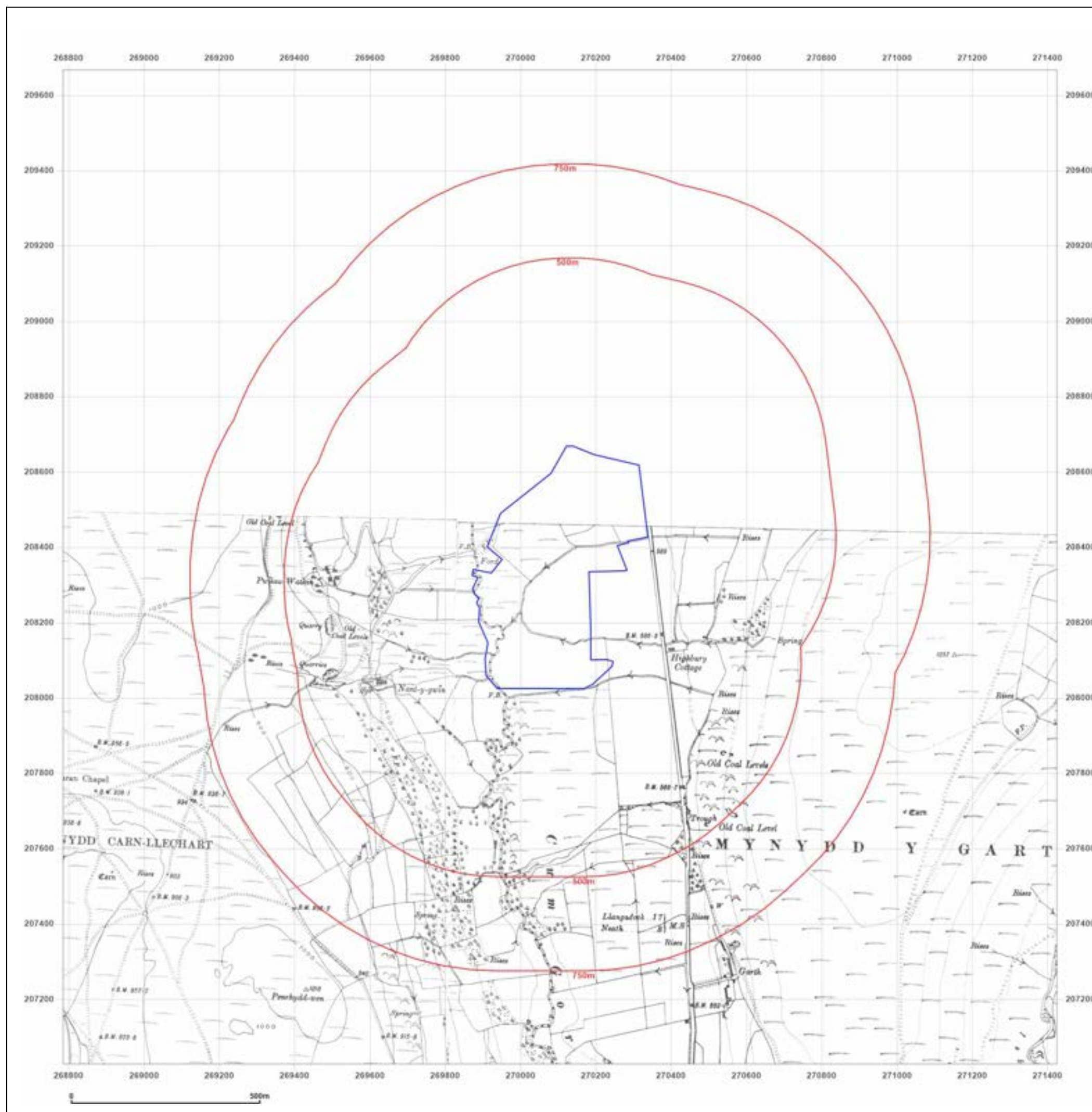


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PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

Map date: 1921

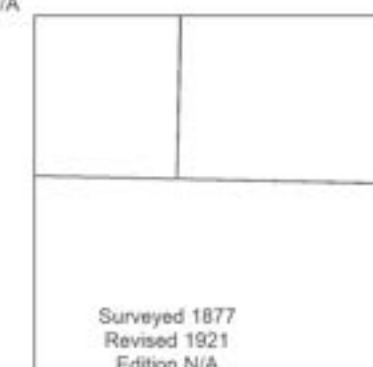
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Printed at: 1:10,560



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

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



Surveyed 1877
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A

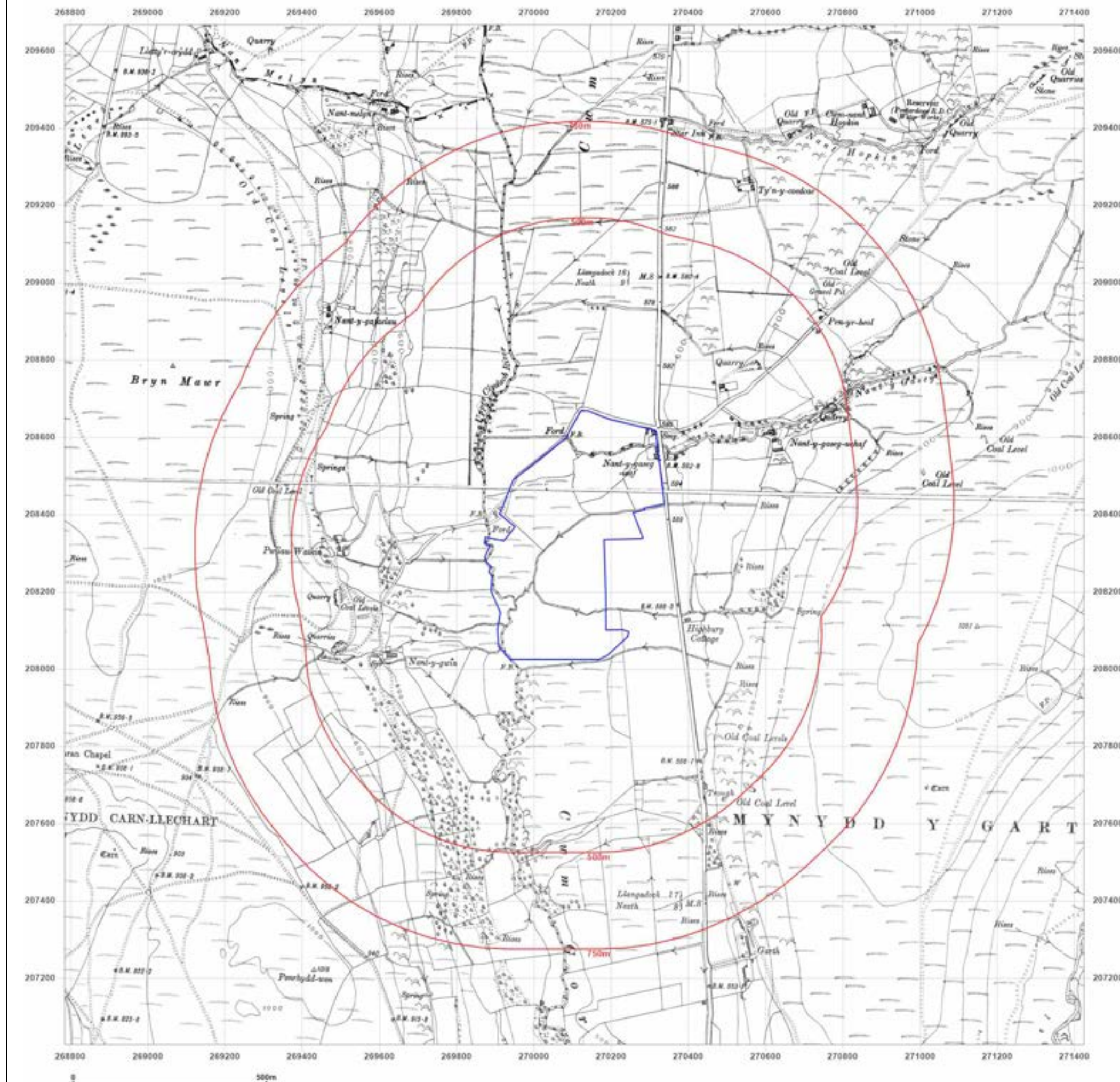


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

Map date: 1921

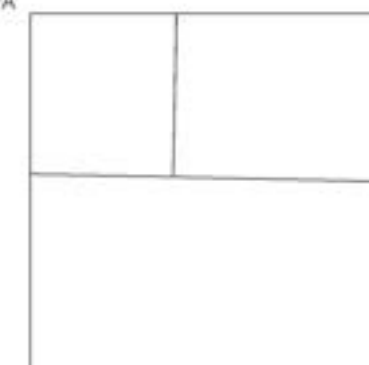
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Printed at: 1:10,560



Surveyed 1876
Revised 1921
Edition 1921
Copyright N/A
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Surveyed 1876
Revised 1921
Edition 1921
Copyright N/A
Levelled N/A

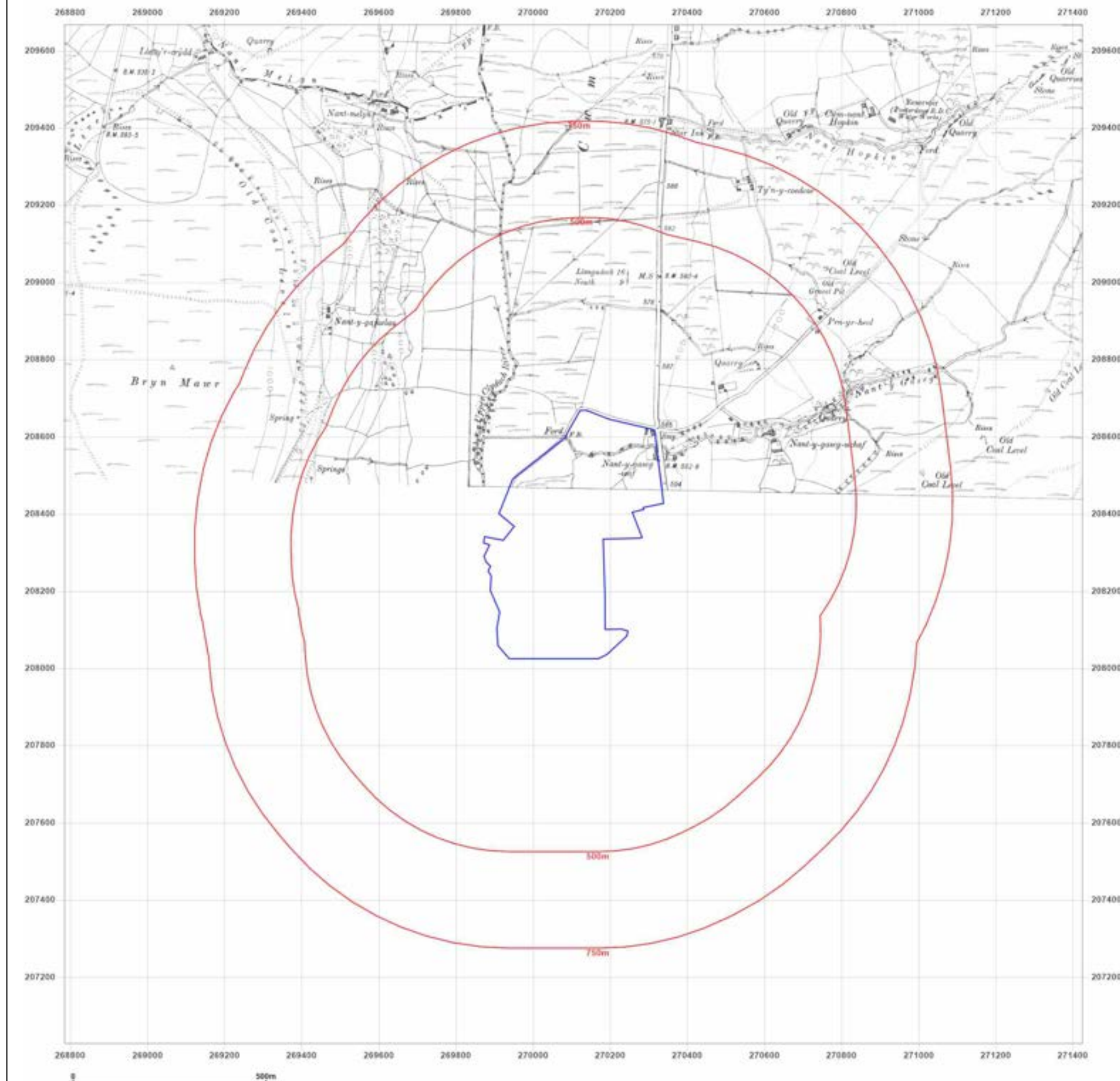


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

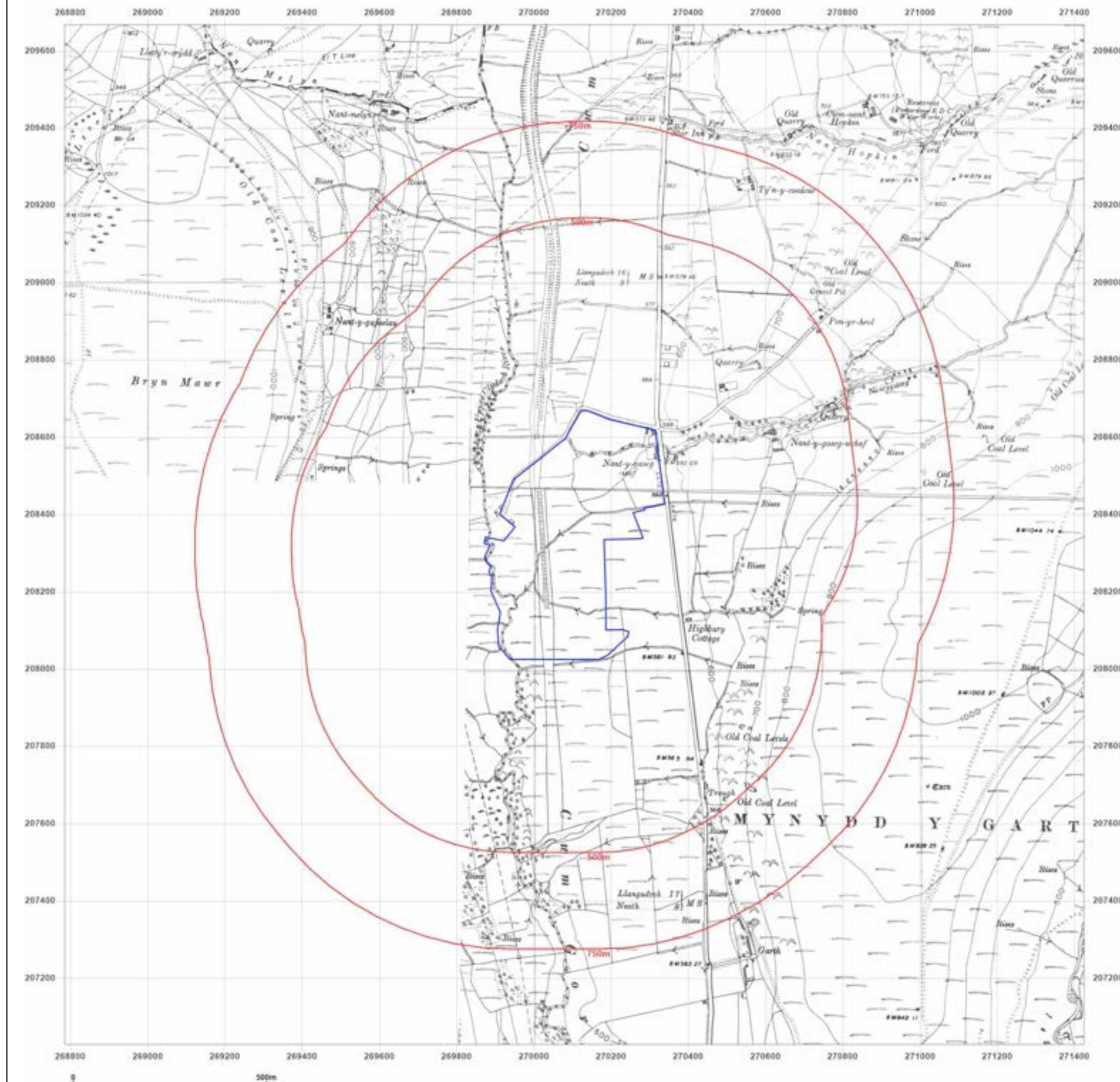


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TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

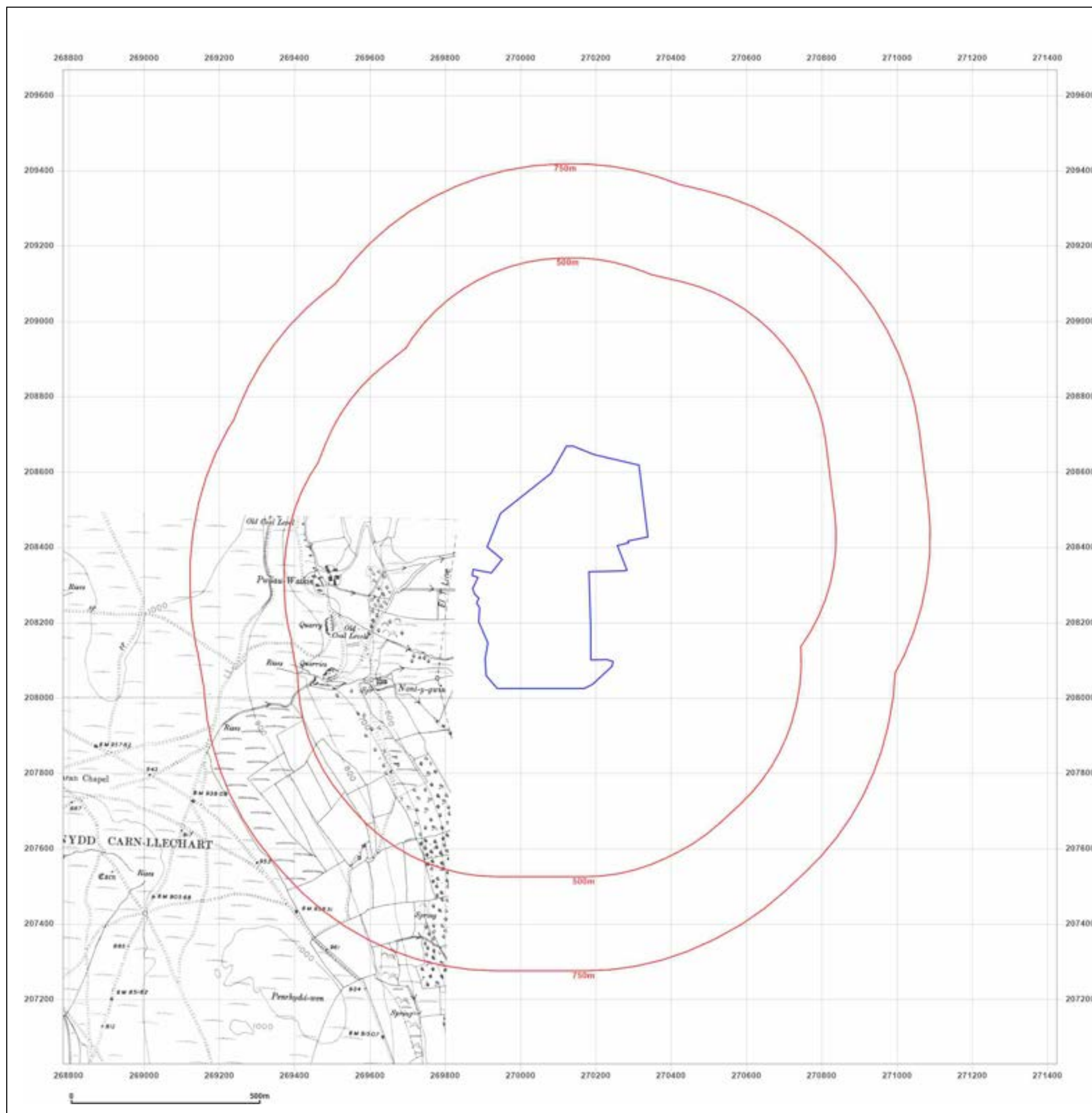


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Site Details:

FORMER ABERNANT COLLIERY,
PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: National Grid

Map date: 1962

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1960
Revised 1962
Edition N/A
Copyright N/A
Levelled N/A

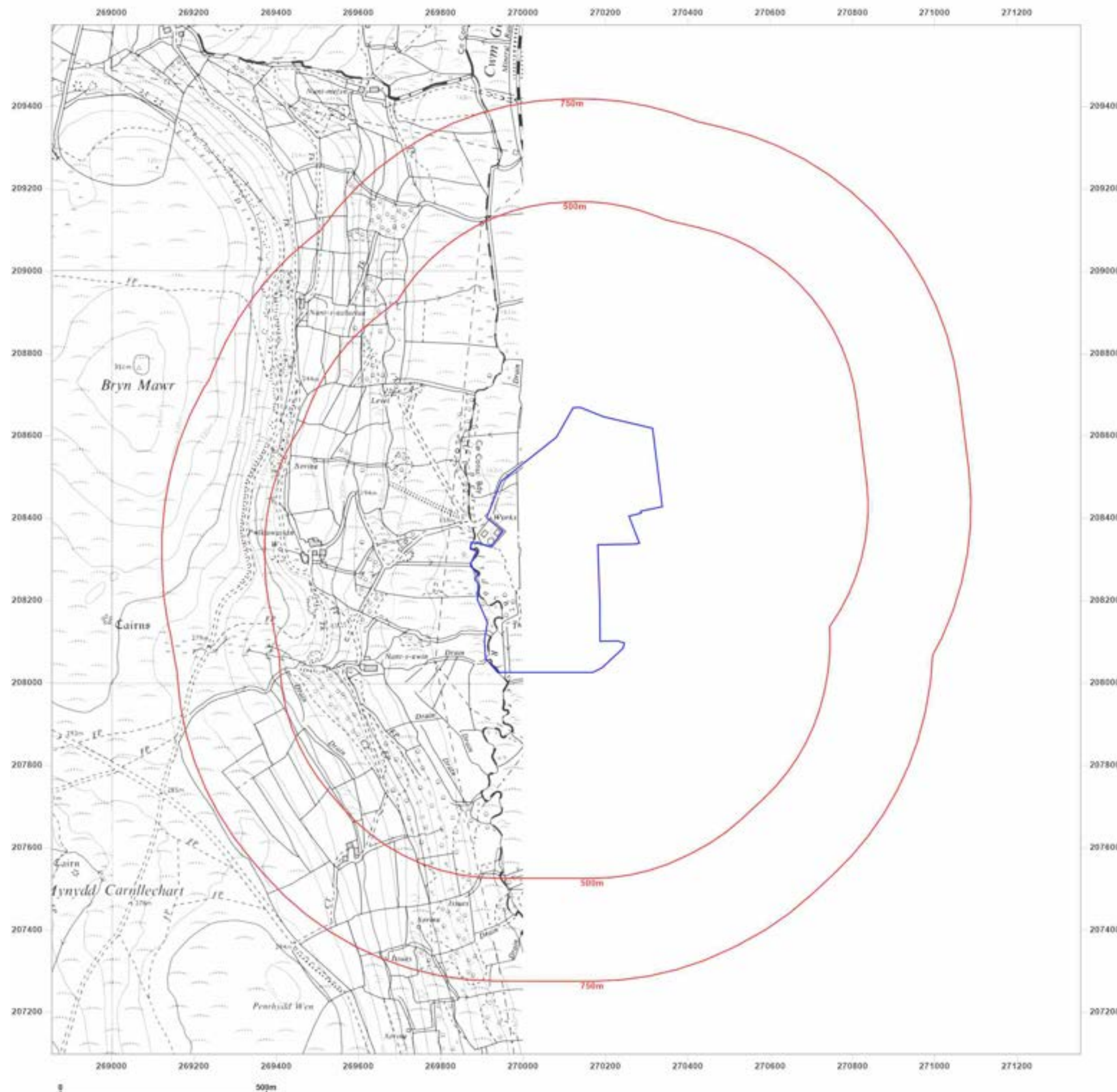


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Site Details:

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PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: Provisional

Map date: 1964-1965

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1963
Revised 1964
Edition N/A
Copyright 1965
Levelled N/A

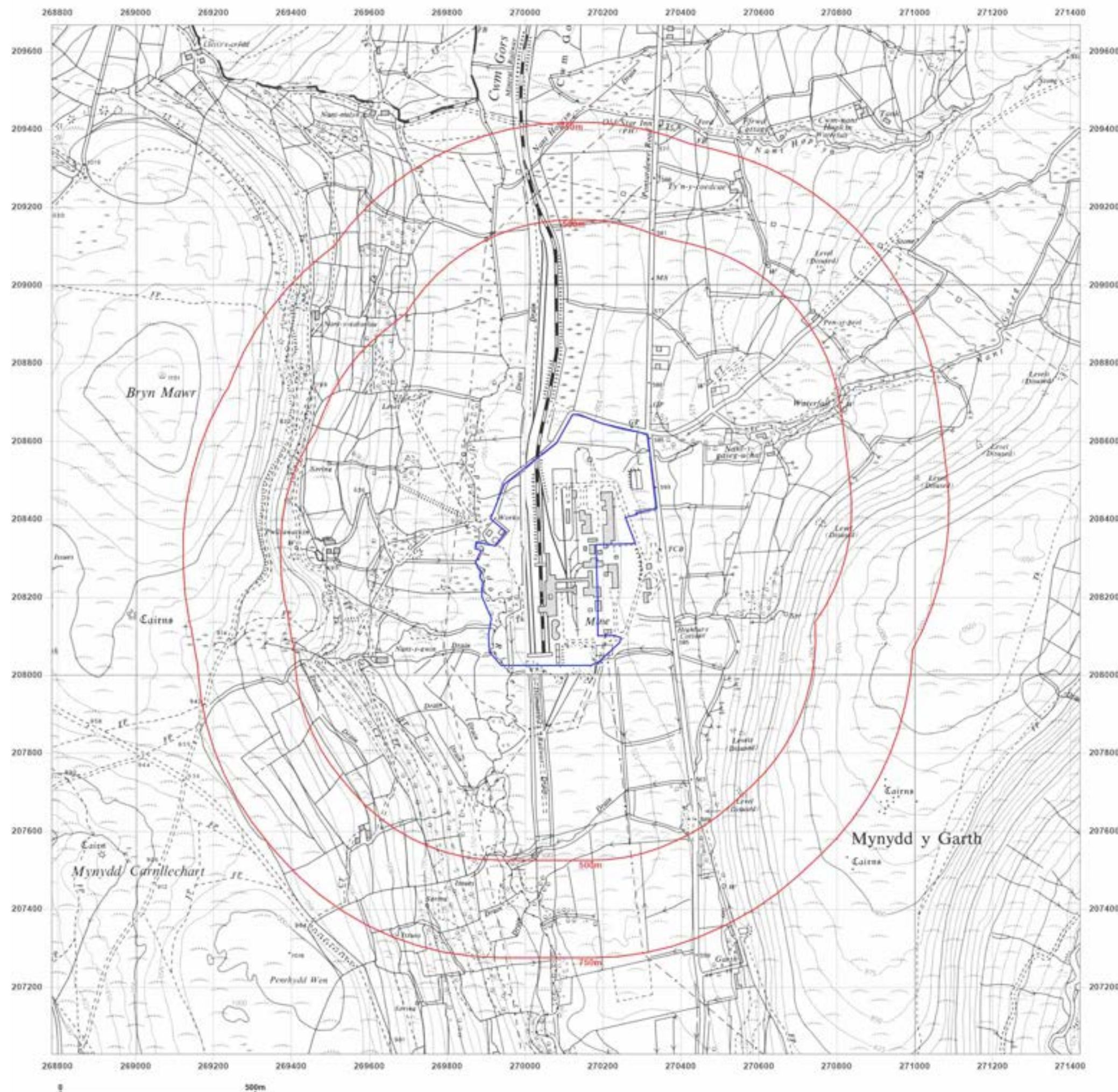


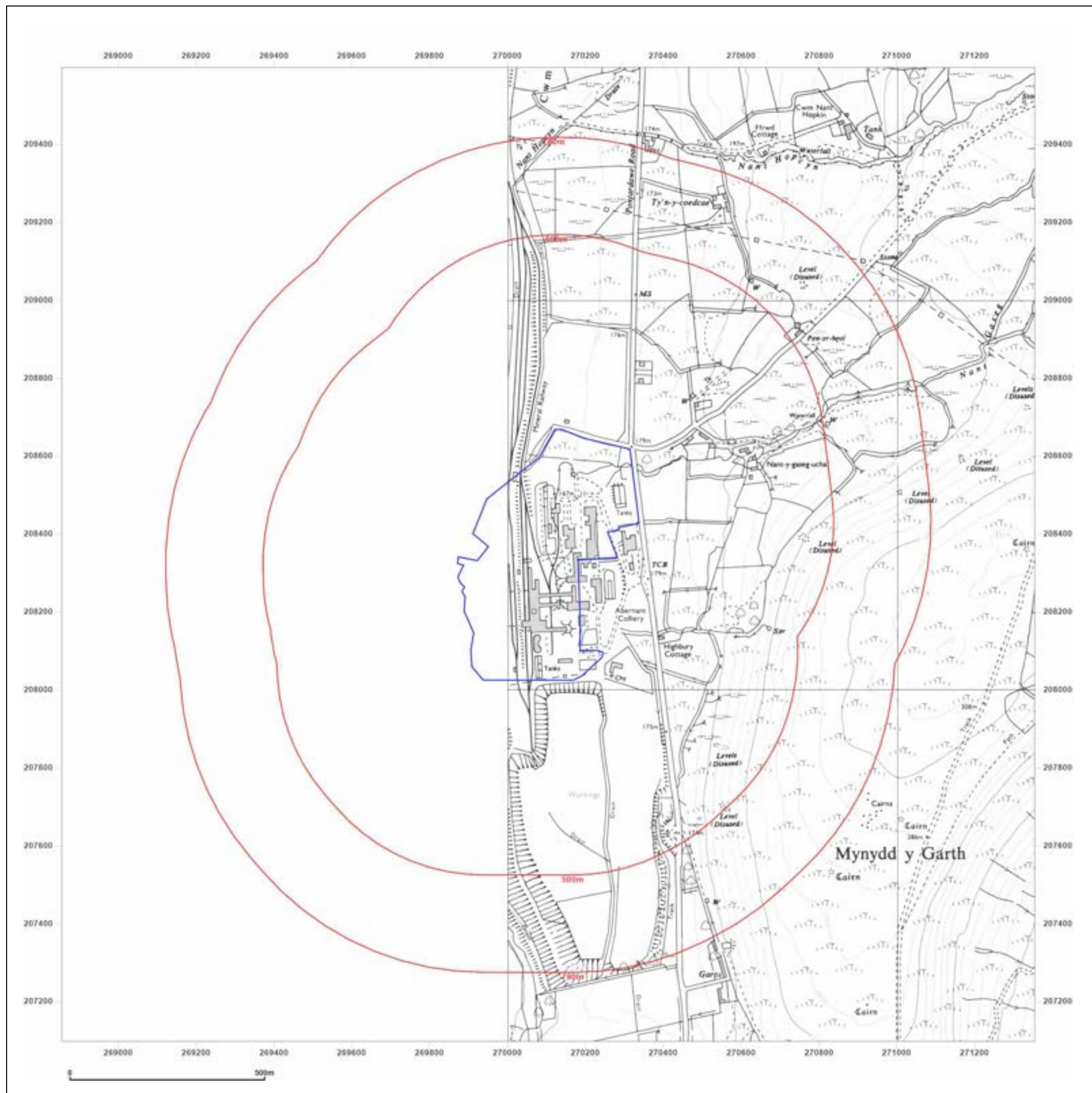
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Site Details:

FORMER ABERNANT COLLIERY,
PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

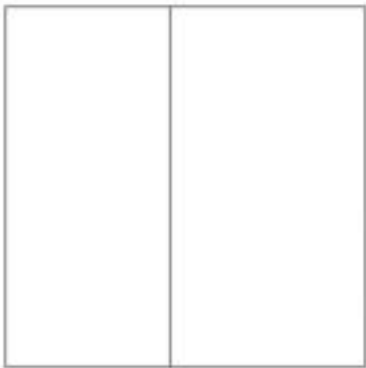
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Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: National Grid

Map date: 1990

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1963
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

FORMER ABERNANT COLLIERY,
PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

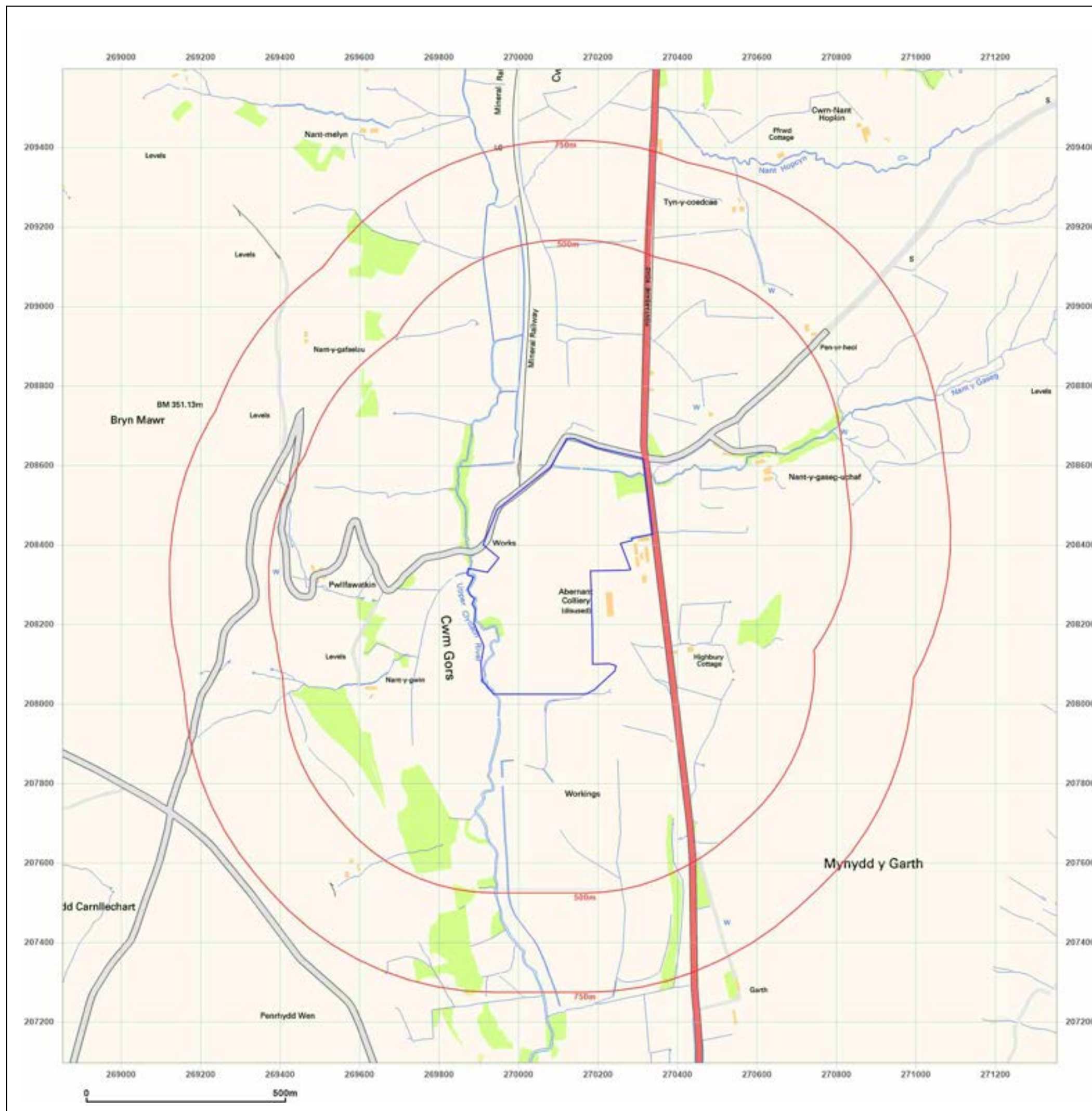


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Site Details:

FORMER ABERNANT COLLIERY,
PONTARDAWE ROAD,
PONTARDAWE, NEATH PORT
TALBOT, SA8 4SX

Client Ref: Q1655
Report Ref: HMD-213-SXN-XND-CYE-940
Grid Ref: 270104, 208347

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000

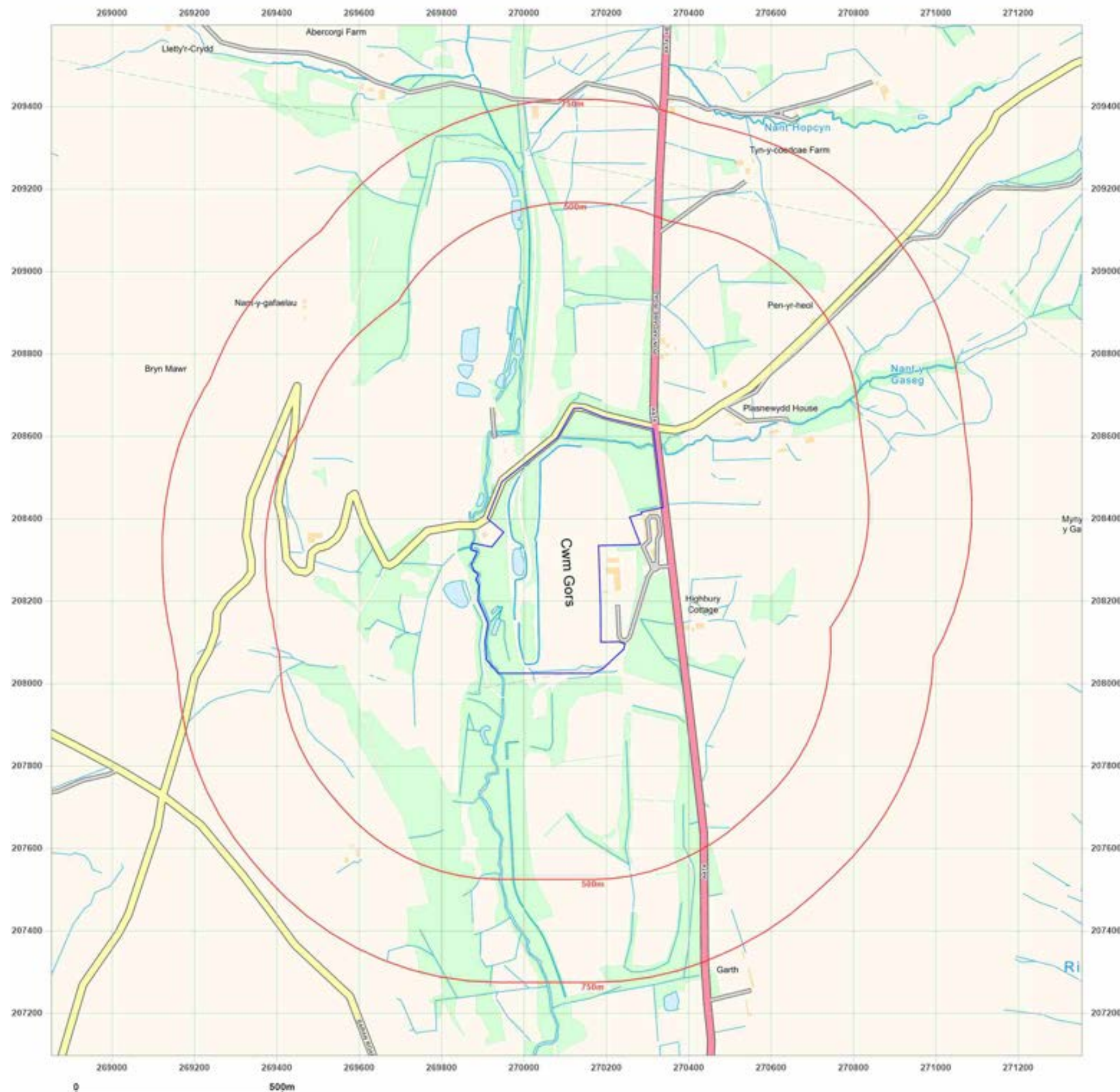


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APPENDIX IV – GROUNDSURE ENVIRO + GEO INSIGHT REPORT

FORMER ABERNANT COLLIERY, PONTARDAWE ROAD, PONTARDAWE, NEATH PORT TALBOT, SA8 4SX

Order Details

Date: 22/10/2024
Your ref: Q1655
Our Ref: HMD-213-7NQ-VDK-DC3-GAC

Site Details

Location: 270094 208336
Area: 19.18 ha
Authority: [Castell-nedd Port Talbot - Neath Port Talbot County Borough](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

N/A: >10ha

[Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	15	5	3	44	-
17 >	1.2 >	Historical tanks >	10	1	1	0	-
18 >	1.3 >	Historical energy features >	1	0	0	0	-
18	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	0	-
19	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
20 >	2.1 >	Historical industrial land uses >	17	5	5	64	-
24 >	2.2 >	Historical tanks >	18	2	2	0	-
25 >	2.3 >	Historical energy features >	2	0	0	0	-
25	2.4	Historical petrol stations	0	0	0	0	-
26	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
27 >	3.1 >	Active or recent landfill >	2	2	0	0	-
28	3.2	Historical landfill (BGS records)	0	0	0	0	-
28	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
29 >	3.4 >	Historical landfill (EA/NRW records) >	0	1	0	0	-
29 >	3.5 >	Historical waste sites >	0	1	0	0	-
30 >	3.6 >	Licensed waste sites >	0	31	1	7	-
40 >	3.7 >	Waste exemptions >	0	0	4	5	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
42 >	4.1 >	Recent industrial land uses >	1	6	5	-	-
43	4.2	Current or recent petrol stations	0	0	0	0	-
43	4.3	Electricity cables	0	0	0	0	-
44	4.4	Gas pipelines	0	0	0	0	-
44	4.5	Sites determined as Contaminated Land	0	0	0	0	-



44	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
44	4.7	Regulated explosive sites	0	0	0	0	-
44	4.8	Hazardous substance storage/usage	0	0	0	0	-
45	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
45 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	17	-
48	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
48	4.12	Radioactive Substance Authorisations	0	0	0	0	-
48 >	4.13 >	Licensed Discharges to controlled waters >	5	9	9	4	-
52	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
52	4.15	Pollutant release to public sewer	0	0	0	0	-
52	4.16	List 1 Dangerous Substances	0	0	0	0	-
52	4.17	List 2 Dangerous Substances	0	0	0	0	-
53 >	4.18 >	Pollution Incidents (EA/NRW) >	1	4	17	9	-
56	4.19	Pollution inventory substances	0	0	0	0	-
56	4.20	Pollution inventory waste transfers	0	0	0	0	-
57	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
58 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
60 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
62 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
64	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
64	5.5	Groundwater vulnerability- local information	None (within 0m)				
65 >	5.6 >	Groundwater abstractions >	0	0	0	0	7
67	5.7	Surface water abstractions	0	0	0	0	0
67	5.8	Potable abstractions	0	0	0	0	0
68	5.9	Source Protection Zones	0	0	0	0	-
68	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	6.1 >	Water Network (OS MasterMap) >	27	24	91	-	-



81 >	6.2 >	Surface water features >	1	12	56	-	-
81 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
81 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
82 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
83 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
84	7.2	Historical Flood Events	0	0	0	-	-
84	7.3	Flood Defences	0	0	0	-	-
84	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
84	7.5	Flood Storage Areas	0	0	0	-	-
85 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
86 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
87 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
89 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
90 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
91	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
91	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
91	10.4	Special Protection Areas (SPA)	0	0	0	0	0
91	10.5	National Nature Reserves (NNR)	0	0	0	0	0
92	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
92 >	10.7 >	Designated Ancient Woodland >	0	0	0	3	24
93	10.8	Biosphere Reserves	0	0	0	0	0
93	10.9	Forest Parks	0	0	0	0	0
94	10.10	Marine Conservation Zones	0	0	0	0	0
94	10.11	Green Belt	0	0	0	0	0
94	10.12	Proposed Ramsar sites	0	0	0	0	0



94	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
94	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
95	10.15	Nitrate Sensitive Areas	0	0	0	0	0
95	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
96	10.17	SSSI Impact Risk Zones	0	-	-	-	-
96	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
97	11.1	World Heritage Sites	0	0	0	-	-
97	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
97	11.3	National Parks	0	0	0	-	-
97	11.4	Listed Buildings	0	0	0	-	-
98	11.5	Conservation Areas	0	0	0	-	-
98	11.6	Scheduled Ancient Monuments	0	0	0	-	-
98	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
100 >	12.2 >	Open Access Land >	0	0	2	-	-
100	12.3	Tree Felling Licences	0	0	0	-	-
101	12.4	Environmental Stewardship Schemes	0	0	0	-	-
101	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
102	13.1	Priority Habitat Inventory	0	0	0	-	-
102	13.2	Habitat Networks	0	0	0	-	-
102	13.3	Open Mosaic Habitat	0	0	0	-	-
102	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
103 >	14.1 >	10k Availability >	Identified (within 500m)				
104 >	14.2 >	Artificial and made ground (10k) >	1	0	0	0	-
105 >	14.3 >	Superficial geology (10k) >	3	1	3	3	-

106 >	14.4 >	Landslip (10k) >	0	0	1	1	-
107 >	14.5 >	Bedrock geology (10k) >	4	1	1	4	-
108 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	0	6	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
109 >	15.1 >	50k Availability >	Identified (within 500m)				
110	15.2	Artificial and made ground (50k)	0	0	0	0	-
110	15.3	Artificial ground permeability (50k)	0	0	-	-	-
111 >	15.4 >	Superficial geology (50k) >	2	0	1	2	-
112 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
112 >	15.6 >	Landslip (50k) >	0	0	1	0	-
113	15.7	Landslip permeability (50k)	None (within 50m)				
114 >	15.8 >	Bedrock geology (50k) >	2	0	1	1	-
115 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
115 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	1	6	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
117 >	16.1 >	BGS Boreholes >	6	2	6	-	-
Page	Section	Natural ground subsidence >					
119 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
120 >	17.2 >	Running sands >	Low (within 50m)				
122 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
124 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
125 >	17.5 >	Landslides >	Moderate (within 50m)				
127 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
129 >	18.1 >	BritPits >	0	1	0	7	-
131 >	18.2 >	Surface ground workings >	2	1	4	-	-
132 >	18.3 >	Underground workings >	2	1	0	22	27
134	18.4	Underground mining extents	0	0	0	0	-
134	18.5	Historical Mineral Planning Areas	0	0	0	0	-



134	18.6	Non-coal mining	0	0	0	0	0
135	18.7	JPB mining areas	None (within 0m)				
135	18.8	The Coal Authority non-coal mining	0	0	0	0	-
135	18.9	Researched mining	0	0	0	0	-
135	18.10	Mining record office plans	0	0	0	0	-
136	18.11	BGS mine plans	0	0	0	0	-
136 >	18.12 >	Coal mining >	Identified (within 0m)				
136	18.13	Brine areas	None (within 0m)				
136	18.14	Gypsum areas	None (within 0m)				
136	18.15	Tin mining	None (within 0m)				
137	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
138	19.1	Natural cavities	0	0	0	0	-
138	19.2	Mining cavities	0	0	0	0	0
138	19.3	Reported recent incidents	0	0	0	0	-
138	19.4	Historical incidents	0	0	0	0	-
139	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
140 >	20.1 >	Radon >	Between 5% and 10% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
142 >	21.1 >	BGS Estimated Background Soil Chemistry >	8	8	-	-	-
143	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
143	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
144	22.1	Underground railways (London)	0	0	0	-	-
144	22.2	Underground railways (Non-London)	0	0	0	-	-
145	22.3	Railway tunnels	0	0	0	-	-
145 >	22.4 >	Historical railway and tunnel features >	4	3	2	-	-
145	22.5	Royal Mail tunnels	0	0	0	-	-

146 >	22.6 >	Historical railways >	0	0	1	-	-
146	22.7	Railways	0	0	0	-	-
146	22.8	Crossrail 1	0	0	0	0	-
146	22.9	Crossrail 2	0	0	0	0	-
146	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 08/04/2023

Site Area: 19.18ha



Recent site history - 2020 aerial photograph



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Capture Date: 14/04/2020

Site Area: 19.18ha



Recent site history - 2014 aerial photograph



Capture Date: 23/07/2014

Site Area: 19.18ha



Recent site history - 2009 aerial photograph



Capture Date: 13/09/2009

Site Area: 19.18ha



Recent site history - 2000 aerial photograph



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Capture Date: 24/08/2000

Site Area: 19.18ha



1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

67

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 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Railway Sidings	1965	268104



ID	Location	Land use	Dates present	Group ID
2	On site	Railway Sidings	1965	268229
A	On site	Colliery	1990	262166
A	On site	Unspecified Mine	1965	275920
B	On site	Refuse Heap	1965	269144
B	On site	Unspecified Tanks	1990	270990
B	On site	Unspecified Tanks	1990	270991
B	On site	Unspecified Tanks	1990	270992
C	On site	Unspecified Tanks	1990	270995
D	On site	Smithy	1921	287277
D	On site	Smithy	1900	290384
D	On site	Smithy	1877	301943
D	On site	Smithy	1905	314313
E	On site	Unspecified Tank	1962 - 1964	289876
E	On site	Unspecified Works	1962 - 1964	319889
D	3m NE	Smithy	1877	321332
5	7m S	Unspecified Workings	1990	272543
6	27m N	Railway Sidings	1948	283954
7	28m N	Mineral Railway Sidings	1990	264680
8	47m SE	Chimney	1990	279899
10	66m N	Railway Sidings	1965	316055
11	67m W	Unspecified Heap	1962 - 1964	326681
12	135m W	Unspecified Heap	1962 - 1964	282638
F	260m NE	Unspecified Quarry	1921 - 1948	318667
F	263m NE	Unspecified Pit	1965 - 1990	318211
G	283m NW	Refuse Heap	1962 - 1964	308658
H	287m W	Coal Levels	1877	264235
G	293m NW	Railway Sidings	1962 - 1964	300524
H	299m W	Unspecified Pit	1962 - 1964	313639



ID	Location	Land use	Dates present	Group ID
H	311m W	Coal Levels	1877	264257
H	320m W	Unspecified Pit	1897	277925
H	321m W	Old Coal Levels	1913 - 1948	323419
H	325m W	Unspecified Heap	1962 - 1964	323774
G	328m NW	Unspecified Level	1962 - 1964	312640
I	358m SE	Unspecified Disused Levels	1965 - 1990	287997
I	365m SE	Old Coal Levels	1913 - 1921	295932
I	366m SE	Old Coal Levels	1948	310898
J	370m SW	Unspecified Quarries	1897 - 1913	304740
J	373m SW	Unspecified Ground Workings	1921	261474
J	376m SW	Unspecified Quarries	1948	290815
K	387m W	Unspecified Quarry	1948	297622
K	387m W	Unspecified Quarry	1913	301472
K	388m W	Unspecified Quarry	1921	304685
K	388m W	Unspecified Quarry	1877	326064
J	391m SW	Unspecified Quarries	1948	292125
J	391m SW	Unspecified Quarries	1913	328690
J	392m SW	Unspecified Quarries	1921	327975
J	395m SW	Unspecified Quarries	1897	305438
13	405m E	Unspecified Disused Level	1965 - 1990	293897
14	431m NE	Unspecified Quarry	1921 - 1948	290937
L	437m SE	Refuse Heap	1965	269318
L	445m SE	Saw Pit	1897	272147
J	448m SW	Unspecified Quarries	1921	292322
15	451m W	Unspecified Pit	1962 - 1964	317411
M	463m SE	Old Coal Level	1897 - 1913	302069
M	467m SE	Unspecified Disused Level	1965	268599
M	468m SE	Unspecified Heap	1990	274001



ID	Location	Land use	Dates present	Group ID
M	472m SE	Old Coal Level	1948	285915
M	472m SE	Old Coal Level	1921	327047
N	475m SE	Unspecified Quarry	1897 - 1913	313559
N	478m SE	Unspecified Disused Level	1965 - 1990	307285
N	479m SE	Old Coal Level	1921	261947
N	482m SE	Unspecified Heap	1948	274000
16	485m W	Unspecified Pit	1962 - 1964	285387
O	491m W	Old Coal Levels	1948	297942
O	491m W	Old Coal Levels	1905	304291
17	493m W	Refuse Heap	1962 - 1964	283605

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	12
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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 ungrouped 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 14 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1962	35179
B	On site	Unspecified Tank	1986	36291
B	On site	Unspecified Tank	1986	36748
B	On site	Unspecified Tank	1986	36884
B	On site	Unspecified Tank	1986	37012
B	On site	Unspecified Tank	1962	37344
B	On site	Unspecified Tank	1962	37543
B	On site	Unspecified Tank	1986	37590

ID	Location	Land use	Dates present	Group ID
C	On site	Unspecified Tank	1986	37551
E	On site	Unspecified Tank	1961	35161
4	5m E	Unspecified Tank	1986	36300
9	53m E	Unspecified Tank	1986	36598

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	1
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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 ungrouped 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 14 >](#)

ID	Location	Land use	Dates present	Group ID
3	On site	Electricity Substation	1986	20132

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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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 ungrouped 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 ungrouped 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
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

91

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 20](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Railway Sidings	1965	268229
2	On site	Railway Sidings	1965	268104
A	On site	Smithy	1900	290384



ID	Location	Land Use	Date	Group ID
A	On site	Smithy	1905	314313
A	On site	Smithy	1877	301943
A	On site	Smithy	1921	287277
B	On site	Unspecified Mine	1965	275920
B	On site	Colliery	1990	262166
C	On site	Refuse Heap	1965	269144
C	On site	Unspecified Tanks	1990	270990
C	On site	Unspecified Tanks	1990	270992
C	On site	Unspecified Tanks	1990	270991
D	On site	Unspecified Works	1964	319889
D	On site	Unspecified Tank	1964	289876
D	On site	Unspecified Works	1962	319889
D	On site	Unspecified Tank	1962	289876
E	On site	Unspecified Tanks	1990	270995
A	3m NE	Smithy	1877	321332
3	7m S	Unspecified Workings	1990	272543
4	27m N	Railway Sidings	1948	283954
5	28m N	Mineral Railway Sidings	1990	264680
6	47m SE	Chimney	1990	279899
7	66m N	Railway Sidings	1965	316055
I	67m W	Unspecified Heap	1964	326681
I	67m W	Unspecified Heap	1962	326681
J	135m W	Unspecified Heap	1964	282638
J	135m W	Unspecified Heap	1962	282638
K	260m NE	Unspecified Quarry	1948	318667
K	260m NE	Unspecified Quarry	1921	318667
K	263m NE	Unspecified Pit	1990	318211
K	264m NE	Unspecified Pit	1965	318211



ID	Location	Land Use	Date	Group ID
L	283m NW	Refuse Heap	1964	308658
L	283m NW	Refuse Heap	1962	308658
M	287m W	Coal Levels	1877	264235
L	293m NW	Railway Sidings	1964	300524
L	293m NW	Railway Sidings	1962	300524
M	299m W	Unspecified Pit	1964	313639
M	299m W	Unspecified Pit	1962	313639
M	311m W	Coal Levels	1877	264257
M	320m W	Unspecified Pit	1897	277925
M	321m W	Old Coal Levels	1948	323419
M	321m W	Old Coal Levels	1913	323419
M	321m W	Old Coal Levels	1921	323419
M	325m W	Unspecified Heap	1964	323774
M	325m W	Unspecified Heap	1962	323774
L	328m NW	Unspecified Level	1964	312640
L	328m NW	Unspecified Level	1962	312640
N	358m SE	Unspecified Disused Levels	1965	287997
N	359m SE	Unspecified Disused Levels	1990	287997
N	365m SE	Old Coal Levels	1921	295932
N	365m SE	Old Coal Levels	1913	295932
N	366m SE	Old Coal Levels	1948	310898
O	370m SW	Unspecified Quarries	1913	304740
O	373m SW	Unspecified Ground Workings	1921	261474
O	376m SW	Unspecified Quarries	1948	290815
O	386m SW	Unspecified Quarries	1897	304740
P	387m W	Unspecified Quarry	1948	297622
P	387m W	Unspecified Quarry	1913	301472
P	388m W	Unspecified Quarry	1921	304685

ID	Location	Land Use	Date	Group ID
P	388m W	Unspecified Quarry	1877	326064
O	391m SW	Unspecified Quarries	1948	292125
O	391m SW	Unspecified Quarries	1913	328690
O	392m SW	Unspecified Quarries	1921	327975
O	395m SW	Unspecified Quarries	1897	305438
Q	405m E	Unspecified Disused Level	1990	293897
Q	405m E	Unspecified Disused Level	1965	293897
R	431m NE	Unspecified Quarry	1948	290937
R	436m NE	Unspecified Quarry	1921	290937
S	437m SE	Refuse Heap	1965	269318
S	445m SE	Saw Pit	1897	272147
O	448m SW	Unspecified Quarries	1921	292322
T	451m W	Unspecified Pit	1964	317411
T	451m W	Unspecified Pit	1962	317411
U	463m SE	Old Coal Level	1913	302069
U	463m SE	Old Coal Level	1897	302069
U	467m SE	Unspecified Disused Level	1965	268599
U	468m SE	Unspecified Heap	1990	274001
U	472m SE	Old Coal Level	1948	285915
U	472m SE	Old Coal Level	1921	327047
V	475m SE	Unspecified Quarry	1913	313559
V	475m SE	Unspecified Quarry	1897	313559
V	478m SE	Unspecified Disused Level	1990	307285
V	479m SE	Old Coal Level	1921	261947
V	480m SE	Unspecified Disused Level	1965	307285
V	482m SE	Unspecified Heap	1948	274000
W	485m W	Unspecified Pit	1964	285387
W	485m W	Unspecified Pit	1962	285387



ID	Location	Land Use	Date	Group ID
X	491m W	Old Coal Levels	1948	297942
X	491m W	Old Coal Levels	1905	304291
Y	493m W	Refuse Heap	1964	283605
Y	493m W	Refuse Heap	1962	283605

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	22
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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'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
C	On site	Unspecified Tank	1962	37344
C	On site	Unspecified Tank	1962	37543
C	On site	Unspecified Tank	1962	35179
C	On site	Unspecified Tank	1986	36884
C	On site	Unspecified Tank	1986	37012
C	On site	Unspecified Tank	1986	36748
C	On site	Unspecified Tank	1986	36291
C	On site	Unspecified Tank	1986	37590
C	On site	Unspecified Tank	1986	36748
C	On site	Unspecified Tank	1986	37012
C	On site	Unspecified Tank	1986	36884
C	On site	Unspecified Tank	1986	36291
C	On site	Unspecified Tank	1986	37590
D	On site	Unspecified Tank	1961	35161
E	On site	Unspecified Tank	1986	37551
E	On site	Unspecified Tank	1986	37551



ID	Location	Land Use	Date	Group ID
E	On site	Unspecified Tank	1986	37551
E	On site	Unspecified Tank	1986	37551
G	5m E	Unspecified Tank	1986	36300
G	5m E	Unspecified Tank	1986	36300
H	53m E	Unspecified Tank	1986	36598
H	53m E	Unspecified Tank	1986	36598

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

2

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'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
F	On site	Electricity Substation	1986	20132
F	On site	Electricity Substation	1986	20132

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

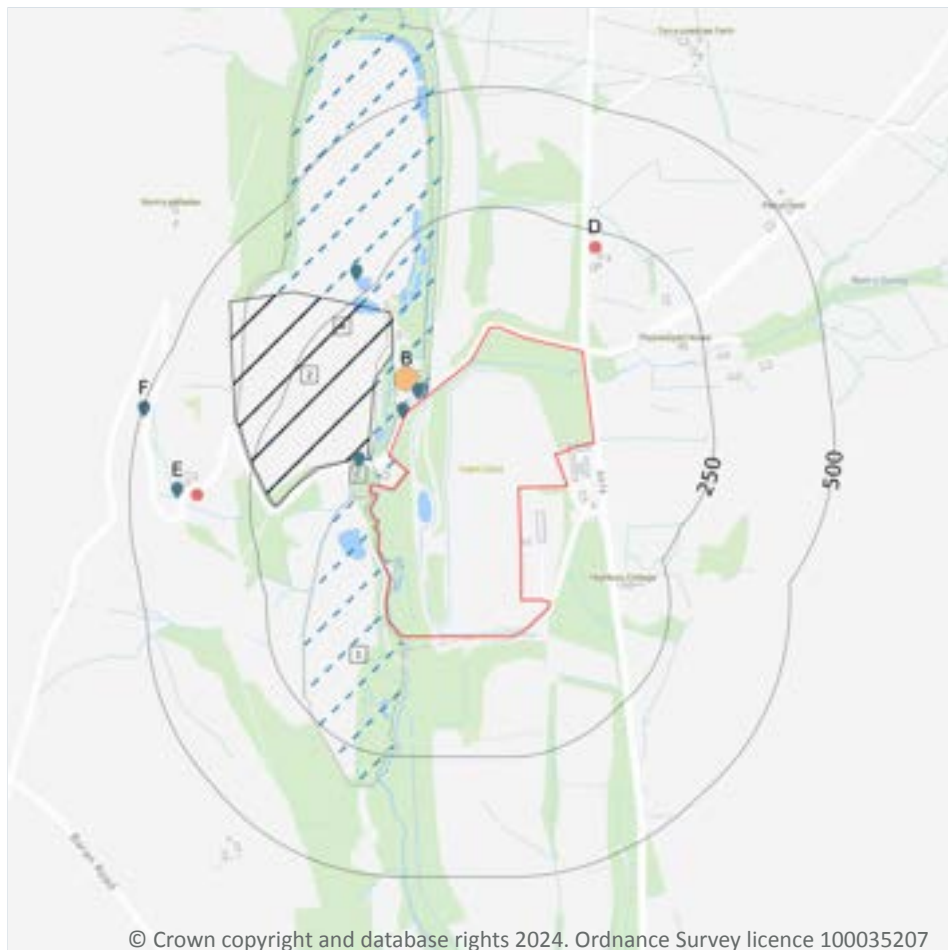
0

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)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

4

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on [page 27](#) >

ID	Location	Details	
1	On site	Operator: W R G Waste Services Ltd Site Address: Rhyd Y Fro, Pontardawe, N P T, SA8 4RX	WML Number: 34279 EPR Reference: WRG001 Landfill type: A4 : Household, Commercial & Industrial Waste Landfill Status: Issued IPPC Reference: - EPR Number: EAEPR\EA/EPR/JP3098FD/A001



ID	Location	Details	
A	On site	Operator: W R G Waste Services Ltd Site Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX	WML Number: 34149 EPR Reference: SHA002 Landfill type: A1 : Co-Disposal Landfill Site Status: To PPC IPPC Reference: - EPR Number: EAEPR\EA/EPR/HP3698FX/A001
A	6m NW	Operator: W R G Waste Services Ltd Site Address: Rhyd Y Fro, Pontardawe, N P T, SA8 4RX	WML Number: 34279 EPR Reference: WRG001 Landfill type: A4 : Household, Commercial & Industrial Waste Landfill Status: Issued IPPC Reference: - EPR Number: EAEPR\EA/EPR/JP3098FD/A001
C	33m W	Operator: W R G Waste Services Ltd Site Address: Rhyd Y Fro, Pontardawe, N P T, SA8 4RX	WML Number: 34279 EPR Reference: WRG001 Landfill type: A4 : Household, Commercial & Industrial Waste Landfill Status: Issued IPPC Reference: - EPR Number: EAEPR\EA/EPR/JP3098FD/A001

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

3.2 Historical landfill (BGS records)

Records within 500m	0
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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
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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	1
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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.

Features are displayed on the Waste and landfill map on [page 27 >](#)

ID	Location	Details		
2	39m W	Site Address: Pwllfawatkin, Pontardawe No 1 Licence Holder Address: -	Waste Licence: Yes Site Reference: SWW-111-L, 6930/0017 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Shanks Waste Services Licence Holder: Valley Borough Council First Recorded 31/12/1972 Last Recorded: 31/08/1997

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

3.5 Historical waste sites

Records within 500m	1
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Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 27 >](#)

ID	Location	Address	Further Details	Date
B	30m NW	Site Address: Former Abernant Colliery, Rhydyfro, Pontardawe, SWANSEA, West Glamorgan, SA8	Type of Site: Waste Transfer Building Planning application reference: P2008/0310 Description: Scheme comprises change of use of land to waste management, including the construction of building (50m x 30m) and concrete waste drying bays. An application (ref: P2008/0310) for detailed planning permission was submitted to Neath & Port Talbot B.C. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	39
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 27 >](#)

ID	Location	Details		
B	10m NW	Site Name: Pwllfawatkin Household Waste Recycling Centre Site Address: Pwllfawatkin Household Waste Recycling Centre, Rhy Dy Fro, Pontardawe, Swansea, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: HP3198FD/V005 Operator: F C C Waste Services (U K) Limited Waste Management licence No: 34150 Annual Tonnage: 9999	Issue Date: 07/05/1992 Effective Date: - Modified: 04/01/2013 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
B	10m NW	Site Name: Pwllfawatkin Household Waste Recycling Centre Site Address: Pwllfawatkin Household Waste Recycling Centre, Rhy Dy Fro, Pontardawe, Swansea, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: EA/EPR/HP3198FD/V005 Operator: F C C Waste Services (U K) Limited Waste Management licence No: 34150 Annual Tonnage: 9999	Issue Date: 07/05/1992 Effective Date: - Modified: 04/01/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	10m NW	Site Name: Pwllfawatkin Household Waste Recycling Centre Site Address: F C C Waste Services (U K) Limited, Pwllfawatkin Household Waste Recycling Centre, Pontardawe, Swansea, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3198FD EPR reference: - Operator: F C C Waste Services (U K) Limited Waste Management licence No: 34150 Annual Tonnage: 10000	Issue Date: 14/12/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
B	10m NW	Site Name: Pwllfawatkin Civic Amenity Site Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: EA/EPR/HP3198FD/A001 Operator: W R G Waste Services Ltd Waste Management licence No: 34150 Annual Tonnage: 4999	Issue Date: 07/05/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	10m NW	Site Name: - Site Address: Pwllfawatkin Household Waste Recycling Centre, Pontardawe, Swansea, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3198FD EPR reference: - Operator: - Waste Management licence No: 34150 Annual Tonnage: 10000	Issue Date: 14/12/1994 Effective Date: 14/12/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	10m NW	Site Name: - Site Address: Pwllfawatkin Household Waste Recycling Centre, Pontardawe, Swansea, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3198FD EPR reference: - Operator: F C C Waste Services (U K) Limited Waste Management licence No: - Annual Tonnage: 10000	Issue Date: 14/12/1994 Effective Date: 14/12/1994 Modified: - Surrendered Date: 05/12/2019 Expiry Date: - Cancelled Date: - Status: Surrender
B	10m NW	Site Name: - Site Address: Pwllfawatkin Household Waste Recycling Centre, Pontardawe, Swansea, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3198FD EPR reference: - Operator: F C C Waste Services (U K) Limited Waste Management licence No: - Annual Tonnage: 10000	Issue Date: 14/12/1994 Effective Date: 14/12/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	10m NW	Site Name: - Site Address: Pwllfawatkin Household Waste Recycling Centre, Pontardawe, Swansea, Neath Port Talbot, SA8 4RX Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3198FD EPR reference: - Operator: F C C Waste Services (U K) Limited Waste Management licence No: 0 Annual Tonnage: 10000	Issue Date: 14/12/1994 Effective Date: 14/12/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	10m NW	Site Name: - Site Address: Pwllfawatkin Household Waste Recycling Centre, Pontardawe, N P T, Swansea, Neath Port Talbot, SA8 4RX Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3198FD EPR reference: - Operator: F C C Waste Services (U K) Limited Waste Management licence No: 34150 Annual Tonnage: 10000	Issue Date: 14/12/1994 Effective Date: 14/12/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, N P T, Pontardawe, Neath Port Talbot, SA8 4RX Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JP3098FD EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 14/03/2017 Cancelled Date: - Status: Expired
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Neath Pt Talbot, Briton Ferry, Neath Port Talbot, SA11 2HZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3333MK EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 95000	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 09/11/2005 Cancelled Date: - Status: Expired



ID	Location	Details		
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Briton Ferry, Neath Port Talbot, SA11 2HZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3333MK EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 0 Annual Tonnage: 95000	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Pontardawe, Neath Port Talbot, SA8 4RX Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JP3098FD EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: - Environmental Permitting Regulations (Waste) Licence Number: JP3098FD EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: - Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 14/03/2017 Cancelled Date: - Status: Expired
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Briton Ferry, Neath Pt Talbot, SA11 2HZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3333MK EPR reference: - Operator: - Waste Management licence No: 34279 Annual Tonnage: 95000	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 09/11/2005 Cancelled Date: - Status: Expired



ID	Location	Details		
B	16m NW	Site Name: Pwllfawatkin Landfill Site Address: Rhyd Y Fro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG001 EPR reference: EA/EPR/JP3098FD/A001 Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 250000	Issue Date: 09/11/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JP3098FD EPR reference: - Operator: - Waste Management licence No: 34279 Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 14/03/2017 Cancelled Date: - Status: Expired
B	16m NW	Site Name: Pwllfawatkin Non- hazardous (ppc) Landfill Site Address: Pwllfawatkin Landfill, Rhyd Y Fro, Pontardawe, Swansea, SA8 4RX Correspondence Address: Pwllfawatkin Landfill, Rhyd Y Fro, Pontardawe, Swansea, SA8 4RX	Type of Site: Household, Commercial & Industrial Waste Landfill Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG100 EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
B	16m NW	Site Name: Pwllfawatkin Non-hazardous (ppc) Landfill Site Address: Pwllfawatkin Landfill, Rhyd Y Fro, Pontardawe, Swansea, SA8 4RX Correspondence Address: Pwllfawatkin Landfill, Rhyd Y Fro, Pontardawe, Swansea, SA8 4RX	Type of Site: Household, Commercial & Industrial Waste Landfill Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG100 EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	16m NW	Site Name: Pwllfawatkin Landfill Site Address: - Correspondence Address: Pwllfawatkin Landfill, Rhyd Y Fro, Pontardawe, SA8 4RX	Type of Site: Household, Commercial & Industrial Waste Landfill Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG001 EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 250000	Issue Date: 09/11/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: - Environmental Permitting Regulations (Waste) Licence Number: JP3098FD EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: - Annual Tonnage: 0	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 14/03/2017 Cancelled Date: - Status: Expired



ID	Location	Details		
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Briton Ferry, Neath Pt Talbot, SA11 2HZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: - Environmental Permitting Regulations (Waste) Licence Number: YP3333MK EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: - Annual Tonnage: 95000	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 09/11/2005 Cancelled Date: - Status: Expired
B	16m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Briton Ferry, Neath Pt Talbot, SA11 2HZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: - Environmental Permitting Regulations (Waste) Licence Number: YP3333MK EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: - Annual Tonnage: 95000	Issue Date: 09/11/2005 Effective Date: 09/11/2005 Modified: - Surrendered Date: - Expiry Date: 09/11/2005 Cancelled Date: - Status: Expired
B	16m NW	Site Name: Pwllfawatkin Landfill Site Address: Rhyd Y Fro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG001 EPR reference: JP3098FD/A001 Operator: W R G Waste Services Ltd Waste Management licence No: 34279 Annual Tonnage: 250000	Issue Date: 09/11/2005 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
B	21m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Rhydyfro, Pontardawe, Neath Port Talbot, SA8 4RX Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3698FX EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 0 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: 30/04/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired



ID	Location	Details		
B	21m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Rhydyfro, N P T, Pontardawe, Neath Port Talbot, SA8 4RX Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3698FX EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: 34149 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: 30/04/1994 Modified: - Surrendered Date: - Expiry Date: 11/11/2005 Cancelled Date: - Status: Expired
B	21m NW	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA002 EPR reference: EA/EPR/HP3698FX/A001 Operator: W R G Waste Services Ltd Waste Management licence No: 34149 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
B	21m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3698FX EPR reference: - Operator: - Waste Management licence No: 34149 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: 30/04/1994 Modified: - Surrendered Date: - Expiry Date: 11/11/2005 Cancelled Date: - Status: Expired
B	21m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3698FX EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: - Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: 30/04/1994 Modified: - Surrendered Date: - Expiry Date: 11/11/2005 Cancelled Date: - Status: Expired



ID	Location	Details		
B	21m NW	Site Name: - Site Address: Pwllfawatkin Landfill, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3698FX EPR reference: - Operator: W R G Waste Services Ltd Waste Management licence No: - Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: 30/04/1994 Modified: - Surrendered Date: - Expiry Date: 11/11/2005 Cancelled Date: - Status: Expired
B	21m NW	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA002 EPR reference: HP3698FX/A001 Operator: W R G Waste Services Ltd Waste Management licence No: 34149 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: To PPC
C	56m W	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX	Type of Site: Co-Disposal Landfill Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA002 EPR reference: - Operator: WRG Waste Services Ltd Waste Management licence No: 34149 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
A	294m NW	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill, Rhy Dy Fro, Pontardawe, Swansea, SA8 4RX Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG031 EPR reference: EA/EPR/BU8819IV/V010 Operator: F C C Waste Services (U K) Limited Waste Management licence No: 104310 Annual Tonnage: 20000	Issue Date: 19/11/2012 Effective Date: - Modified: 12/06/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
A	294m NW	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill, Rhy Dy Fro, Pontardawe, Swansea, SA8 4RX Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG031 EPR reference: EA/EPR/BU8819IV/V010 Operator: F C C Waste Services (U K) Limited Waste Management licence No: 104310 Annual Tonnage: 20000	Issue Date: 19/11/2012 Effective Date: - Modified: 12/06/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	294m NW	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill, Rhy Dy Fro, Pontardawe, Swansea, SA8 4RX Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WRG031 EPR reference: BU8819IV/V010 Operator: F C C Waste Services (U K) Limited Waste Management licence No: 104310 Annual Tonnage: 0	Issue Date: 19/11/2012 Effective Date: - Modified: 12/06/2013 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
E	401m W	Site Name: Pwllfawatkin Landfill Site EPR/BU8819IV Site Address: FCC Waste Services (UK) Limited, Pwllfawatkin Landfill Site EPR/BU8819IV, Pwllfawatkin Landfill Site, SWANSEA, West Glamorgan, SA8 4RX Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BU8819IV EPR reference: - Operator: FCC Waste Services (UK) Limited Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 06/06/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
F	499m W	Site Name: Pwllfawatkin Civic Amenity Site Address: Rhydyfro, Pontardawe, Swansea, SA8 4RX Correspondence Address: Dunedin House, Auckland Park, Mount Farm, Bletchley, Milton Keynes, MK1 1BU	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: - Operator: Shanks Waste Services Ltd Waste Management licence No: 34150 Annual Tonnage: 4999	Issue Date: 07/05/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
F	499m W	Site Name: Pwllfawatkin Landfill Site Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX Correspondence Address: Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, N P T, SA8 4RX	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA002 EPR reference: - Operator: WRG Waste Services Ltd Waste Management licence No: 34149 Annual Tonnage: 149999	Issue Date: 30/04/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
F	499m W	Site Name: Pwllfawatkin Landfill Site Address: Rhydyfro, Pontardawe, Swansea, SA8 4RX Correspondence Address: Shanks Waste Services Ltd, Pwllfawatkin Landfill Site, Rhydyfro, Pontardawe, Swansea, SA8 4RX	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA002 EPR reference: - Operator: Shanks Waste Services Ltd Waste Management licence No: 34149 Annual Tonnage: 75000	Issue Date: 30/04/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	9
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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.

Features are displayed on the Waste and landfill map on [page 27 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
D	216m NE	Birch Farm Plastic Collection Ltd, Birch Farm Plastic Collection Ltd, Pontardawe Road, Rhydyfro, Pontardawe, Swansea, Castell-Nedd Port Talbot, Sa84sx	NRW-WME030802	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)

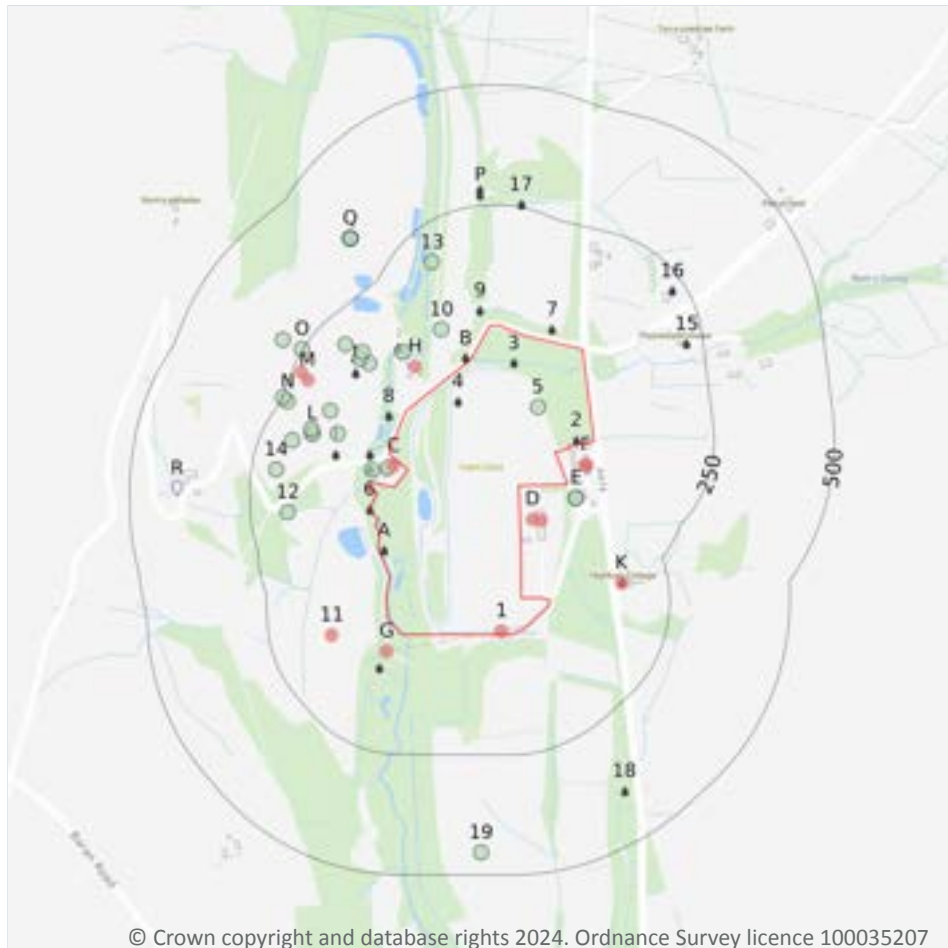


ID	Location	Site	Reference	Category	Sub-Category	Description
D	216m NE	Birch Farm Plastic Collection Ltd, Birch Farm Plastic Collection Ltd, Pontardawe Road, Rhydyfro, Pontardawe, Swansea, Castell-Nedd Port Talbot, Sa84sx	NRW-WME030802	Storing waste exemption	On a farm	Storage of waste in a secure place
D	216m NE	Cwmnant Hopkin Farm, Pontardawe Road, Rhydyfro, Pontardawe, Swansea, Castell-Nedd Port Talbot, Sa84sx	NRW-WME033068	Using waste exemption	On a farm	Use of waste in construction
D	216m NE	Tyn Y Coerce Farm (Land Near Farm Not Actual Farm) Pontardawe Road Rhydyfro Abertawe Sa84sx	NRW-WME007243	Using waste exemption	Not on a farm	Use of waste in construction
E	360m W	Nantgyfeliau Farm, Rhyd-Y-Fro, Sa84rx	NRW-WME013189	Disposing of waste exemption	On a farm	Burning waste in the open
E	360m W	Nantgyfeliau Farm, Rhyd-Y-Fro, Sa84rx	NRW-WME013189	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	360m W	Nantgyfeliau Farm, Rhyd-Y-Fro, Sa84rx	NRW-WME013189	Using waste exemption	On a farm	Use of waste in construction
E	360m W	Nantgyfeliau Farm, Rhyd-Y-Fro, Sa84rx	NRW-WME013189	Using waste exemption	On a farm	Use of waste for a specified purpose
E	360m W	Nantgyfeliau Farm, Rhyd-Y-Fro, Sa84rx	NRW-WME013189	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

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
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

12

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 42](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	West Glamorgan, SA8	Electrical Features	Infrastructure and Facilities
C	13m W	Works	West Glamorgan, SA8	Unspecified Works Or Factories	Industrial Features
D	26m SE	Recycling Business	West Glamorgan, SA8	Recycling Centres	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
F	45m E	Direct G R P Solutions Ltd	Abernant Yard, Pontardawe, Swansea, West Glamorgan, SA8 4SX	Glass Fibre Services	Industrial Products
D	45m SE	Birch Farm Plastics	Pontardawe Road, Pontardawe, West Glamorgan, SA8 4SX	Agricultural Contractors	Contract Services
G	47m SW	Pylon	West Glamorgan, SA8	Electrical Features	Infrastructure and Facilities
F	49m E	Abernant Auto Repairs	Abernant Centre for Enterprise, Pontardawe Road, Pontardawe, West Glamorgan, SA8 4SX	Vehicle Repair, Testing and Servicing	Repair and Servicing
H	61m NW	Electricity Sub Station	West Glamorgan, SA8	Electrical Features	Infrastructure and Facilities
11	121m SW	Landfill	West Glamorgan, SA8	Refuse Disposal Facilities	Infrastructure and Facilities
K	153m SE	C C Hughes	Highbury House, Pontardawe Road, Pontardawe, West Glamorgan, SA8 4SY	Construction and Tool Hire	Hire Services
M	214m NW	Spoil Heap	West Glamorgan, SA8	Waste Storage, Processing and Disposal	Infrastructure and Facilities
M	231m NW	PwllfaWatkin Landfill Gas Site - Landfill Gas (BEIS)	Pontardawe, Swansea, West Glamorgan, SA8 4RX	Energy Production	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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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

17

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 42 >](#)

ID	Location	Details	
R	401m W	Operator: FCC Waste Services (UK) Limited Installation Name: Pwllfawatkin Landfill Site EPR/BU8819IV Process: - Permit Number: BU8819IV Original Permit Number: -	EPR Reference: - Issue Date: 19/12/2023 Effective Date: 19/12/2023 Last date noted as effective: 06/08/2024 Status: Effective
R	401m W	Operator: FCC Waste Services (UK) Limited Installation Name: Pwllfawatkin Landfill Site EPR/BU8819IV Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN ANY DAY, OR WITH A TOTAL CAPACITY OF MORE THAN 25,000 TONNES, BUT EXCLUDING DISPOSALS IN A LANDFILL TAKING ONLY INERT WASTE. Permit Number: BU8819IV Original Permit Number: -	EPR Reference: - Issue Date: 19/12/2023 Effective Date: 19/12/2023 Last date noted as effective: 06/08/2024 Status: Effective
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BU8819IV Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 09/11/2005 Effective Date: 09/11/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: CP3037HG Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 28/03/2011 Effective Date: 29/03/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: LP3135FC Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 24/05/2011 Effective Date: 24/05/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: QP3332UX Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 18/10/2007 Effective Date: 18/10/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: RP3438KF Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 07/09/2009 Effective Date: 07/09/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: SP3531XZ Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 30/05/2008 Effective Date: 30/05/2008 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: TP3035FA Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 01/06/2011 Effective Date: 01/06/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: WRG WASTE SERVICES LTD Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: YP3333MK Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 28/03/2008 Effective Date: 28/03/2008 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE EPR/BU8819IV Process: ASSOCIATED PROCESS Permit Number: RP3436ZJ Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 06/06/2013 Effective Date: 06/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE



ID	Location	Details	
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE EPR/BU8819IV Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: RP3436ZJ Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 06/06/2013 Effective Date: 06/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: UP3032CH Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 20/11/2012 Effective Date: 20/11/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: KP3435ZZ Original Permit Number: BU8819IV	EPR Reference: - Issue Date: 27/11/2012 Effective Date: 27/11/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE EPR/BU8819IV Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN AN... Permit Number: BU8819IV Original Permit Number: RP3436ZJ	EPR Reference: - Issue Date: 06/06/2013 Effective Date: 06/06/2013 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE EPR/BU8819IV Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN AN... Permit Number: BU8819IV Original Permit Number: RP3436ZJ	EPR Reference: - Issue Date: 06/06/2013 Effective Date: 06/06/2013 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
R	401m W	Operator: FCC WASTE SERVICES (UK) LIMITED Installation Name: PWLLFAWATKIN LANDFILL SITE EPR/BU8819IV Process: - Permit Number: BU8819IV Original Permit Number: RP3436ZJ	EPR Reference: - Issue Date: 06/06/2013 Effective Date: 06/06/2013 Last date noted as effective: 01/12/2016 Status: EFFECTIVE

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



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

Records within 500m

0

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

Records within 500m

0

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

27

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

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Address	Details	
2	On site	ABERNANT CENTRE FOR ENTERPRISE, ABERNANT CENTRE FOR ENTERPRISE, RHYDYFRO, NEATH PORT TALBOT, SA8 4SS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BP0223001 Permit Version: 0 Receiving Water: CULVERTED TRIB OF UPPER CLYDAC	Status: Effective Issue date: 09/10/1992 Effective Date: 09/10/1992 Revocation Date: -
3	On site	ABERNANT COLLIERY	Effluent Type: UNSPECIFIED Permit Number: BP0059301 Permit Version: 1 Receiving Water: NANT-Y-GASEG TRIB UPPER CLYDAC	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 01/01/1901 Effective Date: 01/01/1901 Revocation Date: 16/11/1992
4	On site	STOCKING GROUND LAGOON DIS. B (ABAN, STOCKING GROUND LAGOON DIS. B (A, DIS. B (ABANDONED) RHYDYFRO, RHYDYFRO	Effluent Type: UNSPECIFIED Permit Number: BE0023904 Permit Version: 1 Receiving Water: UNNAMED TRIB. OF NANT-Y-GASEG	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/09/1969 Effective Date: 29/09/1969 Revocation Date: 16/03/1994



ID	Location	Address	Details	
A	On site	ABERNANT COLLIERY SITE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BC0011104 Permit Version: 2 Receiving Water: UPPER CLYDACH	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV) Issue date: 23/02/1994 Effective Date: 23/02/1994 Revocation Date: 10/07/2001
A	On site	ABERNANT COLLIERY SITE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BC0011104 Permit Version: 1 Receiving Water: UPPER CLYDACH	Status: REVOKED - UNSPECIFIED Issue date: 09/02/1970 Effective Date: 09/02/1970 Revocation Date: 22/02/1994
6	3m W	TIP 871 PWLLFAWATKIN WASTE FACILITY, TIP 871, PWLLFAWATKIN WASTE FACILITY, RHYD Y FRO, PONTARDAWE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: BP0306601 Permit Version: 0 Receiving Water: UPPER CLYDACH RIVER	Status: Effective Issue date: 28/11/2003 Effective Date: 28/11/2003 Revocation Date: -
B	9m N	ABERNANT COLLIERY SITE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BE0023905 Permit Version: 1 Receiving Water: NANT-Y-GASSEG	Status: REVOKED - UNSPECIFIED Issue date: 27/11/1984 Effective Date: 27/11/1984 Revocation Date: 22/02/1994
B	9m N	ABERNANT COLLIERY SITE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BE0023905 Permit Version: 2 Receiving Water: NANT-Y-GASSEG	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 23/02/1994 Effective Date: 23/02/1994 Revocation Date: 18/05/1998
7	26m NE	ABERNANT COLLIERY O'LETA (EMERGENCY, ABERNANT COLLIERY O'LETA (EMERGE, O'LETA (EMERGENCY DISCHARGE)	Effluent Type: UNSPECIFIED Permit Number: BC0011107 Permit Version: 1 Receiving Water: UNNAMED TRIB. UPPER CLYDACH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/05/1987 Effective Date: 20/05/1987 Revocation Date: 16/03/1994
C	28m W	SEDIMENT POND D PWLLFAWATCYN FARM, SEDIMENTATION POND D, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0258101 Permit Version: 1 Receiving Water: UPPER CLYDACH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/11/1996 Effective Date: 30/11/1996 Revocation Date: -
8	30m NW	SEDIMENT POND D PWLLFAWATCYN FARM, SEDIMENTATION POND D, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0264102 Permit Version: 1 Receiving Water: UPPER CLYDACH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/11/1996 Effective Date: 30/11/1996 Revocation Date: -



ID	Location	Address	Details	
9	38m N	ABERNANT COLLIERY EMERGENCY DISCHAR, ABERNANT COLLIERY EMERGENCY DISC, EMERGENCY DISCHARGE	Effluent Type: UNSPECIFIED Permit Number: BC0011105 Permit Version: 1 Receiving Water: NANT-Y-GASSEG	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 23/10/1978 Effective Date: 23/10/1978 Revocation Date: 16/03/1994
C	41m W	SEDIMENT POND A PWLLFAWATCYN FARM, SEDIMENTATION POND A, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0262802 Permit Version: 1 Receiving Water: UPPER CLYDACH RIVER	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 16/09/1996 Effective Date: 16/09/1996 Revocation Date: 27/07/1998
C	41m W	SEDIMENT POND A PWLLFAWATCYN FARM, SEDIMENTATION POND A, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0263801 Permit Version: 1 Receiving Water: UPPER CLYDACH RIVER	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 21/09/1996 Effective Date: 21/09/1996 Revocation Date: 27/07/1998
G	84m SW	TIP 871 PWLLFAWATKIN WASTE FACILITY, TIP 871, PWLLFAWATKIN WASTE FACILITY, PONTARDAWE, SWANSEA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: BP0306701 Permit Version: 0 Receiving Water: A TRIB OF THE UPPER CLYDACH	Status: Effective Issue date: 28/11/2003 Effective Date: 28/11/2003 Revocation Date: -
I	94m W	ABERNANT COLLIERY PT.2, PT.2	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BC0014901 Permit Version: 1 Receiving Water: UPPER CLYDACH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/02/1970 Effective Date: 09/02/1970 Revocation Date: 16/03/1994
H	111m NW	SEDIMENT POND C PWLLFAWATCYN FARM, SEDIMENTATION POND C, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0258001 Permit Version: 1 Receiving Water: UPPER CLYDACH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/11/1996 Effective Date: 30/11/1996 Revocation Date: -
H	111m NW	SEDIMENT POND C PWLLFAWATCYN FARM, SEDIMENTATION POND C, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0264101 Permit Version: 1 Receiving Water: UPPER CLYDACH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/11/1996 Effective Date: 30/11/1996 Revocation Date: -

ID	Location	Address	Details	
J	133m NW	SEDIMENT POND B PWLLFAWATCYN FARM, SEDIMENTATION POND B, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0262801 Permit Version: 1 Receiving Water: UPPER CLYDACH RIVER	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 16/09/1996 Effective Date: 16/09/1996 Revocation Date: 27/07/1998
J	133m NW	SEDIMENT POND B PWLLFAWATCYN FARM, SEDIMENTATION POND B, PWLLFAWATCYN FARM, RHYD Y FRO PONTARDAWE	Effluent Type: WASTE SITE - UNSPECIFIED Permit Number: BP0263802 Permit Version: 1 Receiving Water: UPPER CLYDACH RIVER	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 21/09/1996 Effective Date: 21/09/1996 Revocation Date: 27/07/1998
K	153m SE	HIGHBURRY COTTAGE RHYDYFRO PONTARD, Highburry Cottage Rhydyfro Pont, Rhydyfro Pontardawe, Pontardawe, Pontardawe, SA8 4ST	Effluent Type: - Permit Number: BC0018001 Permit Version: 0 Receiving Water: L/HND BANK UNNAMED BROOK	Status: Effective Issue date: 18/04/1963 Effective Date: 18/04/1963 Revocation Date: -
15	216m NE	PLAS NEWYDD FARM RHYDYFRO PONTARDA, PLAS NEWYDD FARM RHYDYFRO PONTA, RHYDYFRO PONTARDAWE, PONTARDAWE	Effluent Type: UNSPECIFIED Permit Number: BM0030901 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 26/05/1983 Effective Date: 26/05/1983 Revocation Date: -
16	222m NE	RHANDIR VILLA RHYDYFRO PONTARDAWE, RHANDIR VILLA RHYDYFRO PONTARDAW, RHYDYFRO PONTARDAWE, PONTARDAWE	Effluent Type: UNSPECIFIED Permit Number: BM0023901 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 11/06/1982 Effective Date: 11/06/1982 Revocation Date: 02/07/1994
17	255m N	ABERNANT COLLIERY O'LETB EMERGENCY, ABERNANT COLLIERY O'LETB EMERGE, O'LETB EMERGENCY DISCHARGE	Effluent Type: UNSPECIFIED Permit Number: BC0011106 Permit Version: 1 Receiving Water: UNNAMED TRIBUTARY UPPER CLYDAC	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/05/1987 Effective Date: 20/05/1987 Revocation Date: 16/03/1994
P	272m N	RHYDYFRO STOCKING GROUND LAGOO (ABA, RHYDYFRO STOCKING GROUND LAGOO (, (ABANDONED)	Effluent Type: UNSPECIFIED Permit Number: BE0023902 Permit Version: 1 Receiving Water: UNNAMED TRIB. UPPER CLYDACH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/09/1969 Effective Date: 29/09/1969 Revocation Date: 16/03/1994
P	282m N	RHYDYFRO STOCKING GROUND LAGOO (ABA, RHYDYFRO STOCKING GROUND LAGOO (, (ABANDONED)	Effluent Type: UNSPECIFIED Permit Number: BE0023903 Permit Version: 1 Receiving Water: UNNAMED TRIB OF RIVER CLYDACH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/09/1969 Effective Date: 29/09/1969 Revocation Date: 16/03/1994



ID	Location	Address	Details	
18	396m SE	ABERNANT COLLIERY POINT 11 (ABANDON, ABERNANT COLLIERY POINT 11 (ABAN, POINT 11 (ABANDONED)	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BC0011103 Permit Version: 1 Receiving Water: UNNAMED TRIB OF RIVER CLYDACH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/02/1970 Effective Date: 09/02/1970 Revocation Date: 05/03/1992

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
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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
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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
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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
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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

31

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 42](#) >

ID	Location	Details	
5	On site	Incident Date: 09/12/2015 Incident Identification: 1393534 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	23m W	Incident Date: 20/12/2002 Incident Identification: 127097 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	27m W	Incident Date: 31/05/2007 Incident Identification: 499003 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	35m E	Incident Date: 29/04/2003 Incident Identification: 154906 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
E	35m E	Incident Date: 29/04/2003 Incident Identification: 154906 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
10	84m N	Incident Date: 18/12/2001 Incident Identification: 48754 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	102m NW	Incident Date: 11/02/2014 Incident Identification: 1206032 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	114m W	Incident Date: 22/11/2003 Incident Identification: 202957 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
J	125m NW	Incident Date: 21/12/2001 Incident Identification: 49506 Pollutant: Inert Materials and Wastes Pollutant Description: Mineral Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	146m NW	Incident Date: 12/06/2002 Incident Identification: 84349 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	146m NW	Incident Date: 15/08/2001 Incident Identification: 24349 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Ammonia/Amine Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	153m NW	Incident Date: 09/05/2002 Incident Identification: 77421 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
L	159m W	Incident Date: 11/08/2003 Incident Identification: 181216 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
L	159m W	Incident Date: 11/08/2003 Incident Identification: 181214 Pollutant: Contaminated Water Pollutant Description: Landfill Leachate	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
L	167m W	Incident Date: 17/09/2003 Incident Identification: 190478 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
12	172m W	Incident Date: 27/12/2002 Incident Identification: 127822 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	179m N	Incident Date: 10/05/2001 Incident Identification: 6103 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	186m W	Incident Date: 03/07/2003 Incident Identification: 170716 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
J	188m NW	Incident Date: 26/01/2002 Incident Identification: 54628 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
14	199m W	Incident Date: 16/06/2003 Incident Identification: 166135 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
N	236m NW	Incident Date: 15/08/2002 Incident Identification: 100704 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
N	248m NW	Incident Date: 15/08/2001 Incident Identification: 24407 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
O	252m NW	Incident Date: 12/03/2002 Incident Identification: 63647 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
O	297m NW	Incident Date: 10/05/2001 Incident Identification: 9250 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	343m NW	Incident Date: 03/05/2001 Incident Identification: 4217 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
Q	343m NW	Incident Date: 03/05/2001 Incident Identification: 4217 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
Q	343m NW	Incident Date: 03/05/2001 Incident Identification: 4217 Pollutant: Atmospheric Pollutants and Effects:Atmospheric Pollutants and Effects:Specific Waste Materials Pollutant Description: Dust:Other Atmospheric Pollutant or Effect:Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)



ID	Location	Details	
Q	343m NW	Incident Date: 05/03/2001 Incident Identification: 4217 Pollutant: Atmospheric Pollutants and Effects : Specific Waste Materials Pollutant Description: Dust :Other Atmospheric Pollutant or Effect :Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
Q	343m NW	Incident Date: 03/05/2001 Incident Identification: 4217 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
Q	343m NW	Incident Date: 05/03/2001 Incident Identification: 4217 Pollutant: Atmospheric Pollutants and Effects Specific Waste Materials Pollutant Description: Dust Other Atmospheric Pollutant or Effect Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
19	454m S	Incident Date: 07/07/2003 Incident Identification: 171425 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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

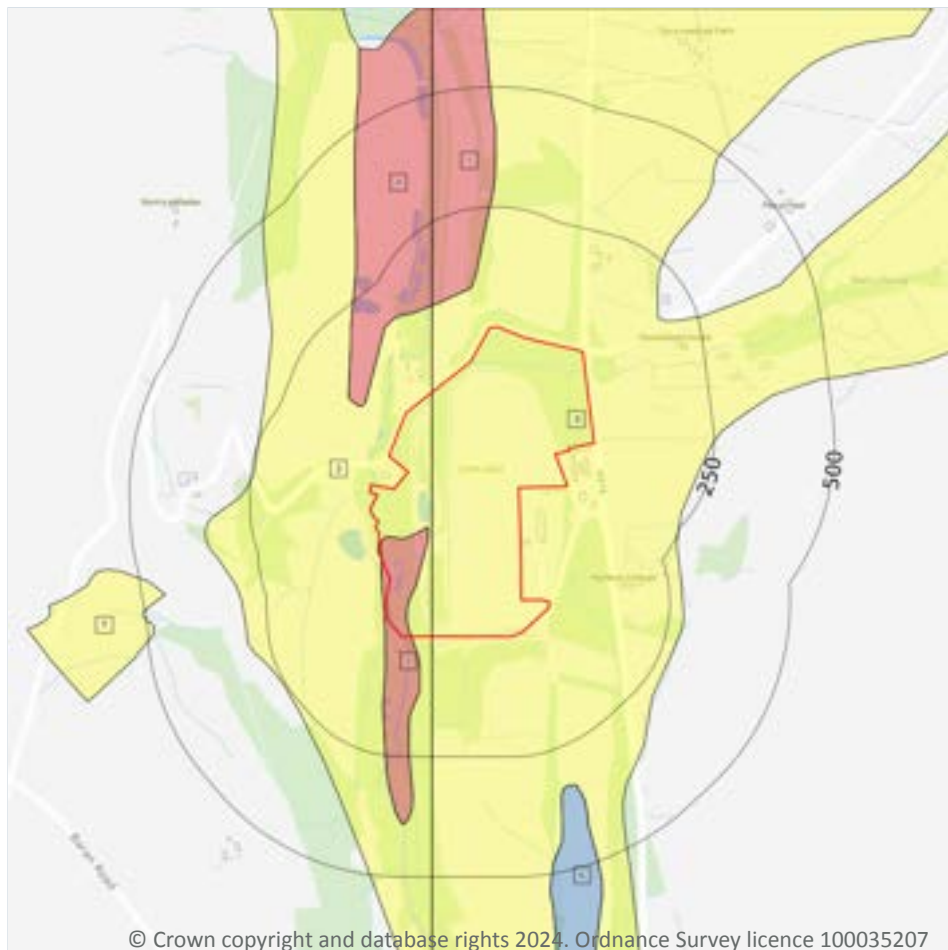
0

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

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 58](#) >

ID	Location	Designation	Description
1	On site	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
2	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

ID	Location	Designation	Description
3	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
4	87m 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
5	91m 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
6	331m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	452m W	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

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

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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 60](#) >

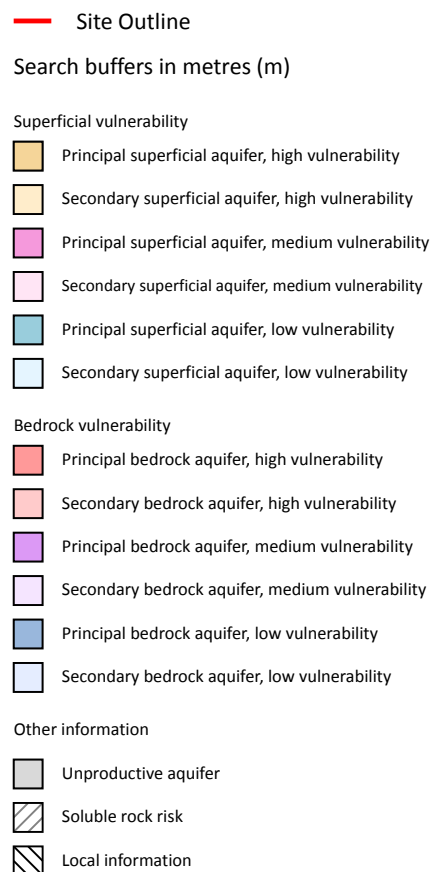
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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

6

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 62](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	26m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
5	26m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
6	26m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low 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

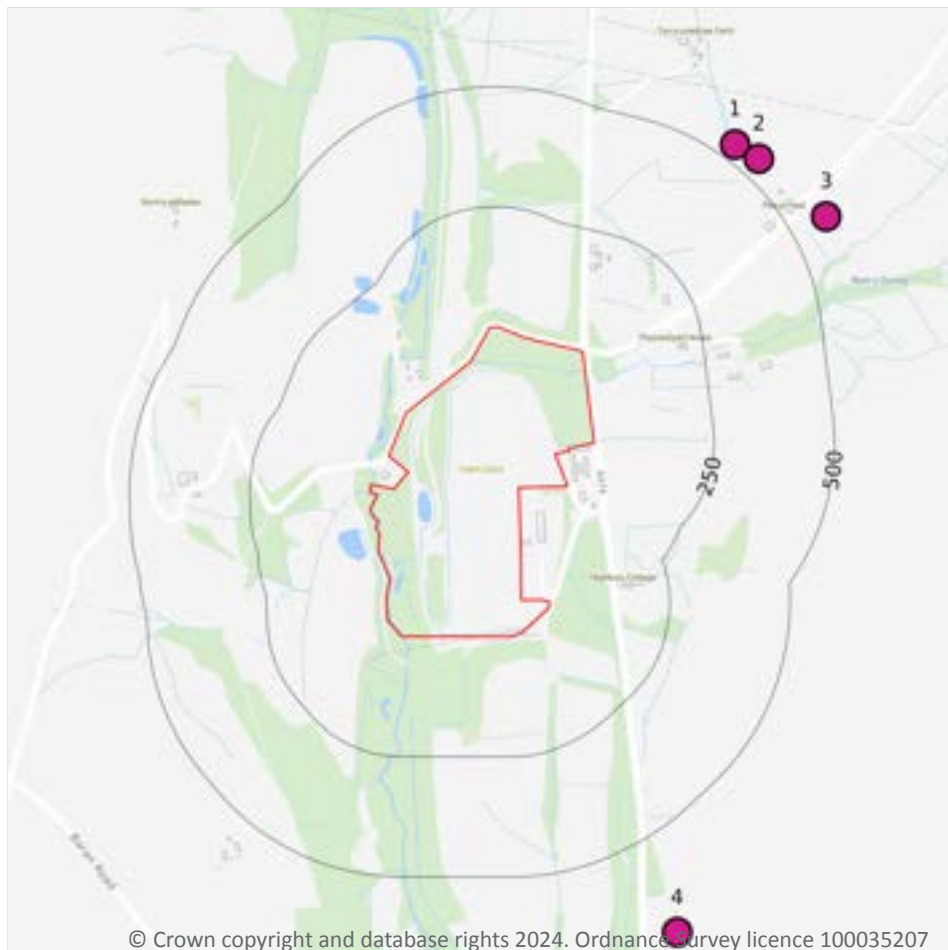
0

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 ↗.

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

7

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 65 >](#)

ID	Location	Details	
1	535m NE	Status: Historical Licence No: 22/59/1/0028 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING IN FIELD TYN Y COEDCAE Data Type: Point Name: White Easting: 270630 Northing: 209050	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 22/06/1992 Version End Date: -
2	543m NE	Status: Historical Licence No: 22/59/1/0028 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING IN FIELD OS NO. 6600 S E OF TYN Y COEDCAE Data Type: Point Name: Godwin Easting: 270680 Northing: 209020	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 23/05/2003 Version End Date: -
3	579m NE	Status: Historical Licence No: 22/59/1/0031 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING IN ENC. 1268 AT NANT Y GASSEG Data Type: Point Name: Kempster Easting: 270820 Northing: 208900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
4	703m SE	Status: Historical Licence No: 22/59/1/0023 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING IN FIELD NO. 2262 AT GARTH Data Type: Point Name: Morris Easting: 270510 Northing: 207410	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/02/1993 Version End Date: -
-	1716m W	Status: Historical Licence No: 22/59/1/0026 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING IN ENC. 151 AT TRESCYRCH FARM Data Type: Point Name: Jones Easting: 268240 Northing: 208870	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/03/1966 Version End Date: -



ID	Location	Details	
-	1783m S	Status: Historical Licence No: 22/59/1/0011 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: UNDERGROUND SOURCE IN FIELD NO. 668 AT GELLILUOG Data Type: Point Name: Rees Easting: 270330 Northing: 206250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 Version End Date: -
-	1793m SE	Status: Historical Licence No: 22/59/1/0002 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING AT PENYGARN FARM Data Type: Point Name: Thomas Easting: 271950 Northing: 207540	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
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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.

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

5.8 Potable abstractions

Records within 2000m	0
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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.

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



5.9 Source Protection Zones

Records within 500m**0**

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)

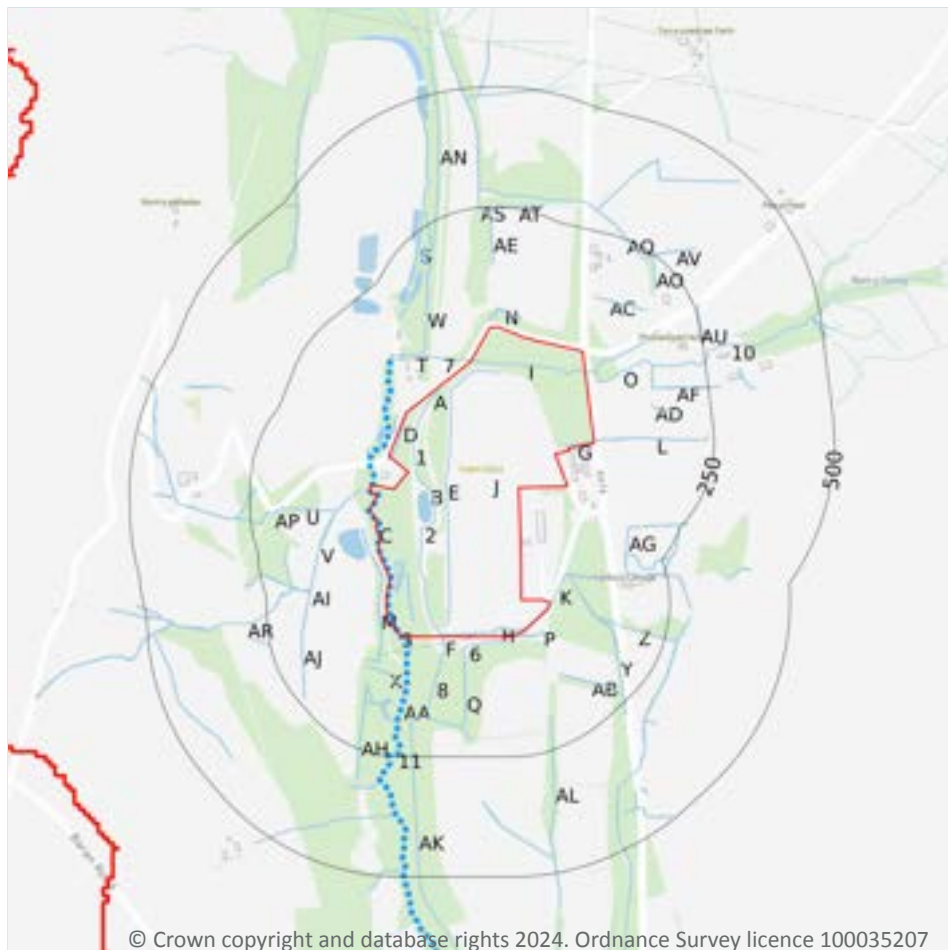
Records within 500m**0**

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

142

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

Features are displayed on the Hydrology map on [page 69](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg



ID	Location	Type of water feature	Ground level	Permanence	Name
K	1m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	3m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	7m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	12m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	14m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	15m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	16m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	16m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
D	17m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	18m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	18m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg
O	18m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	19m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
7	21m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg
8	23m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
P	27m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	28m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	33m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	37m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
D	40m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
D	40m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	42m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	49m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	63m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	67m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg



ID	Location	Type of water feature	Ground level	Permanence	Name
U	70m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	70m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	71m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	71m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	76m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	82m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	92m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg
T	92m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	96m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg
T	100m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	102m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	102m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	103m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg



ID	Location	Type of water feature	Ground level	Permanence	Name
T	103m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	108m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
AA	108m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River
AB	115m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	116m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	122m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	127m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	127m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	128m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AE	133m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	133m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	134m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	138m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
10	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Gaseg
AD	143m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	144m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	148m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	148m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	148m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	151m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	153m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AG	154m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	155m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	158m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	158m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	158m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AI	159m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	159m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	167m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AK	167m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	170m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	172m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	173m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	174m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	174m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	175m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	177m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Clydach River



ID	Location	Type of water feature	Ground level	Permanence	Name
AA	178m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	179m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	182m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	182m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	182m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	186m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	187m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	187m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	188m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	188m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	191m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	194m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	199m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AN	199m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	201m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	201m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AP	204m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	209m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	210m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AP	213m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	214m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	216m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	228m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AQ	230m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	231m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	233m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AP	234m W	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	235m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	235m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	235m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AS	240m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AT	240m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	242m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AU	244m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	245m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AV	247m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	248m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

69

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.

Features are displayed on the Hydrology map on [page 69 >](#)

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 69 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
J	On site	River WB catchment	Upper Clydach - headwaters to confluence with Tawe	GB110059032190	Tawe	Tawe to Cadoxton

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 69 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	On site	River	Upper Clydach - headwaters to confluence with Tawe	GB110059032190	Good	Good	Good	2016

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

6.5 WFD Groundwater bodies

Records on site	1
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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 69 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
J	On site	Swansea Carboniferous Coal Measures	GB41002G201000	Poor	Poor	Good	2017

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

220

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).

Features are displayed on the River and coastal flooding map on [page 83](#) >

Distance	Flood risk category
On site	High
0 - 50m	High

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

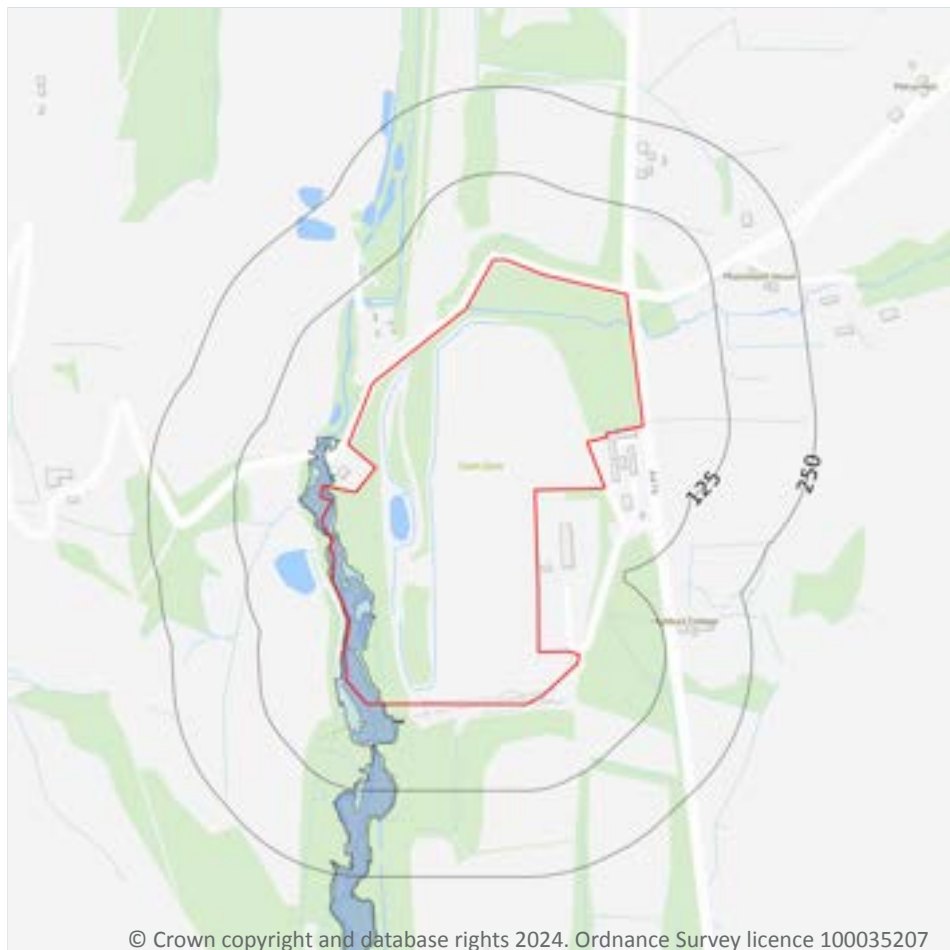
Records within 250m	0
----------------------------	----------

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



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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.

Features are displayed on the River and coastal flooding map on [page 83](#) >

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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.

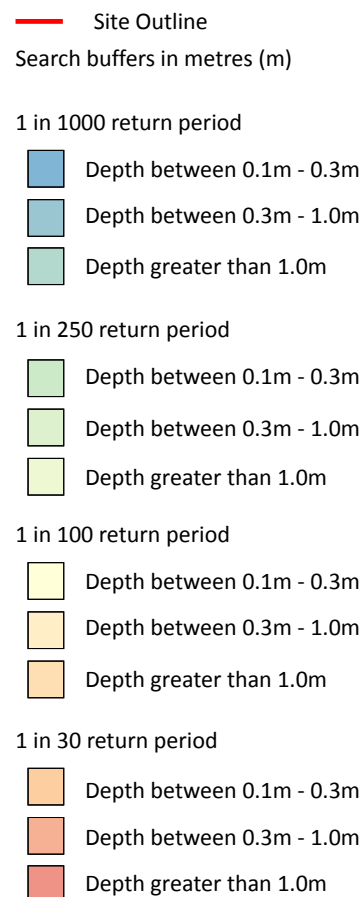
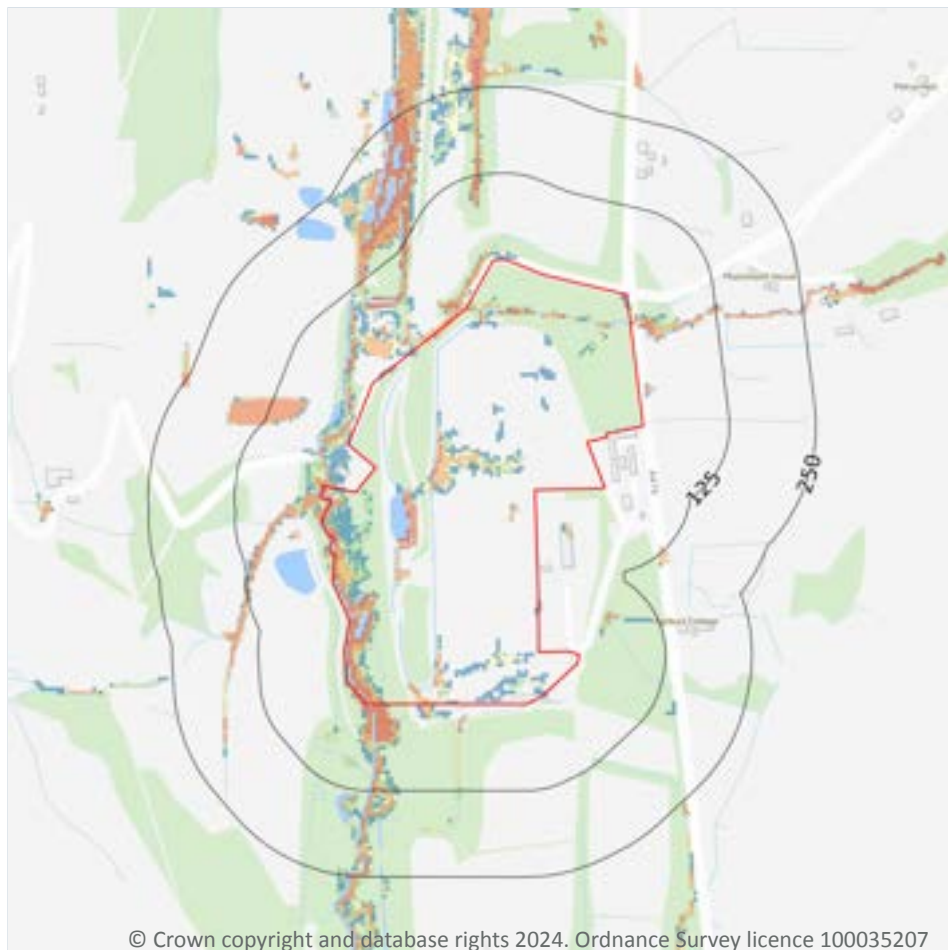
Features are displayed on the River and coastal flooding map on [page 83](#) >

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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.

Features are displayed on the Surface water flooding map on [page 87](#) >

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.

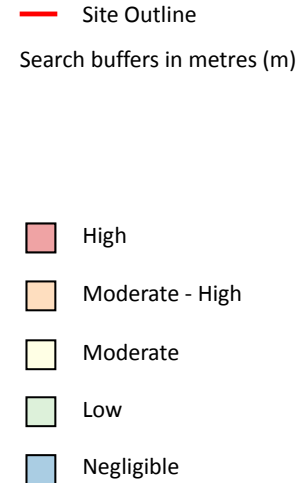
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



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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 89](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

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 90](#) >

ID	Location	Name	Data source
-	1991m NW	Hafod Wennol Grasslands	Natural Resources Wales

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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)

Records within 2000m

0

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.

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**27**

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 90 >](#)

ID	Location	Name	Woodland Type
1	257m SW	Unknown	Restored Ancient Woodland Site
A	326m NE	Unknown	Restored Ancient Woodland Site
2	329m E	Unknown	Ancient Semi Natural Woodland
A	504m NE	Unknown	Ancient Woodland Site of Unknown Category
B	552m S	Unknown	Ancient Semi Natural Woodland
3	625m NW	Unknown	Ancient Semi Natural Woodland
B	693m S	Unknown	Ancient Semi Natural Woodland
4	779m S	Unknown	Ancient Semi Natural Woodland
5	882m S	Unknown	Ancient Semi Natural Woodland
6	1103m S	Unknown	Ancient Semi Natural Woodland
7	1163m S	Unknown	Restored Ancient Woodland Site
-	1277m S	Unknown	Ancient Semi Natural Woodland
9	1300m NE	Unknown	Ancient Semi Natural Woodland
-	1595m S	Unknown	Ancient Semi Natural Woodland
-	1597m SW	Unknown	Ancient Semi Natural Woodland
-	1669m W	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
-	1683m E	Unknown	Ancient Semi Natural Woodland
-	1786m N	Unknown	Ancient Semi Natural Woodland
-	1801m E	Unknown	Restored Ancient Woodland Site
-	1811m SW	Unknown	Ancient Semi Natural Woodland
-	1827m S	Unknown	Ancient Semi Natural Woodland
-	1830m SW	Unknown	Ancient Semi Natural Woodland
-	1957m SW	Unknown	Ancient Semi Natural Woodland
-	1967m E	Unknown	Ancient Woodland Site of Unknown Category
-	1978m SW	Unknown	Ancient Semi Natural Woodland
-	1985m E	Unknown	Ancient Semi Natural Woodland
-	1993m 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

10.17 SSSI Impact Risk Zones

Records on site

0

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.

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

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

0

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.

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

11.4 Listed Buildings

Records within 250m

0

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.



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

0

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.

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

11.7 Registered Parks and Gardens

Records within 250m

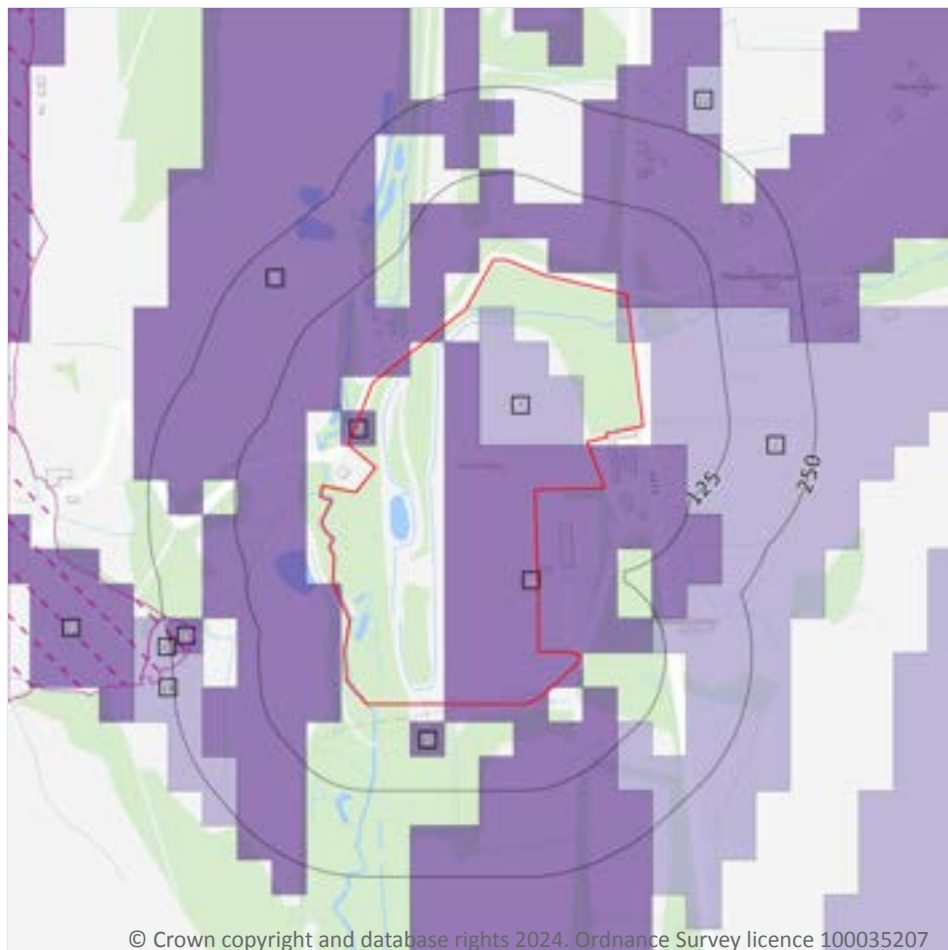
0

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

12.1 Agricultural Land Classification

Records within 250m

9

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 99](#) >

ID	Location	Classification	Description
1	On site	Grade 5	Very poor quality agricultural land
2	On site	Grade 4	Poor quality agricultural land
4	On site	Grade 5	Very poor quality agricultural land

ID	Location	Classification	Description
6	On site	Grade 5	Very poor quality agricultural land
7	On site	Grade 4	Poor quality agricultural land
10	26m S	Grade 5	Very poor quality agricultural land
18	192m SW	Grade 4	Poor quality agricultural land
19	195m SW	Grade 5	Very poor quality agricultural land
22	247m NE	Grade 4	Poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

2

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.

Features are displayed on the Agricultural designations map on [page 99](#) >

ID	Location	Name	Classification	Other relevant legislation
20	212m SW	-	Open Access Open Country	-
23	249m W	-	Open Access Registered Common Land	-

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

12.3 Tree Felling Licences

Records within 250m

0

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

Records within 250m

0

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

Records within 250m

0

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

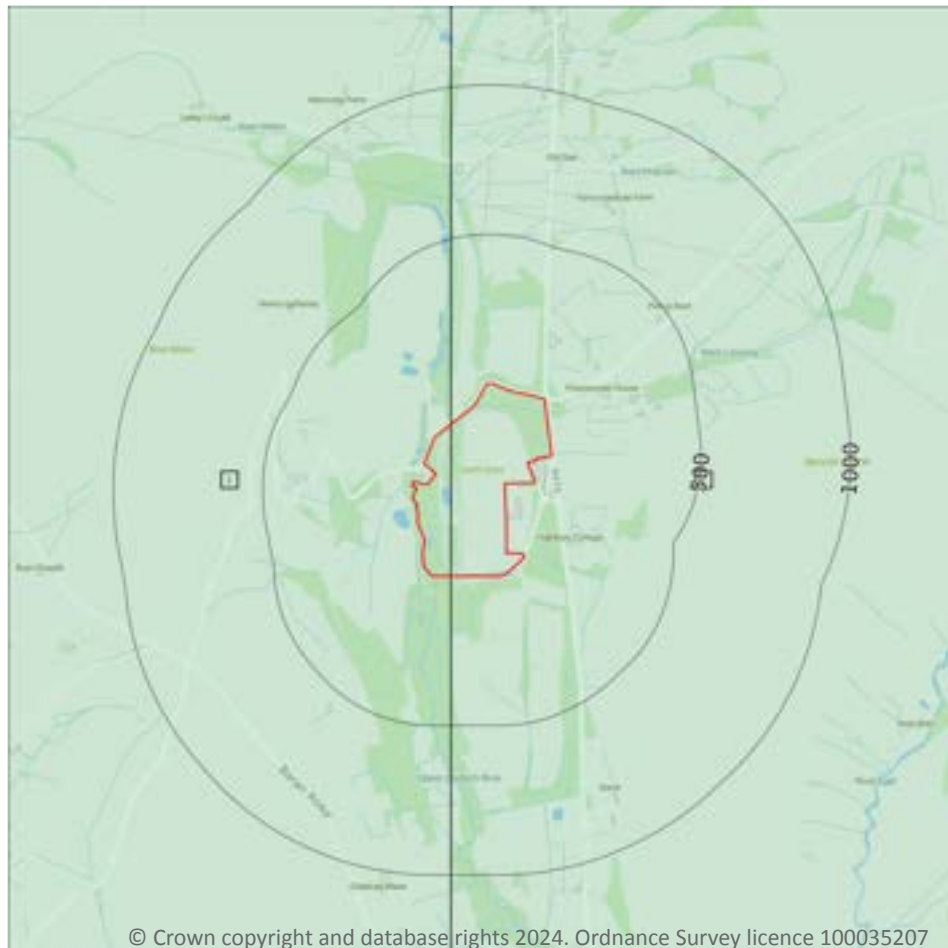
0

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

2

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 103](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SN60NE
2	On site	Full	Full	Full	Full	SN70NW

This data is sourced from the British Geological Survey.



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



- Site Outline**
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

1

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.

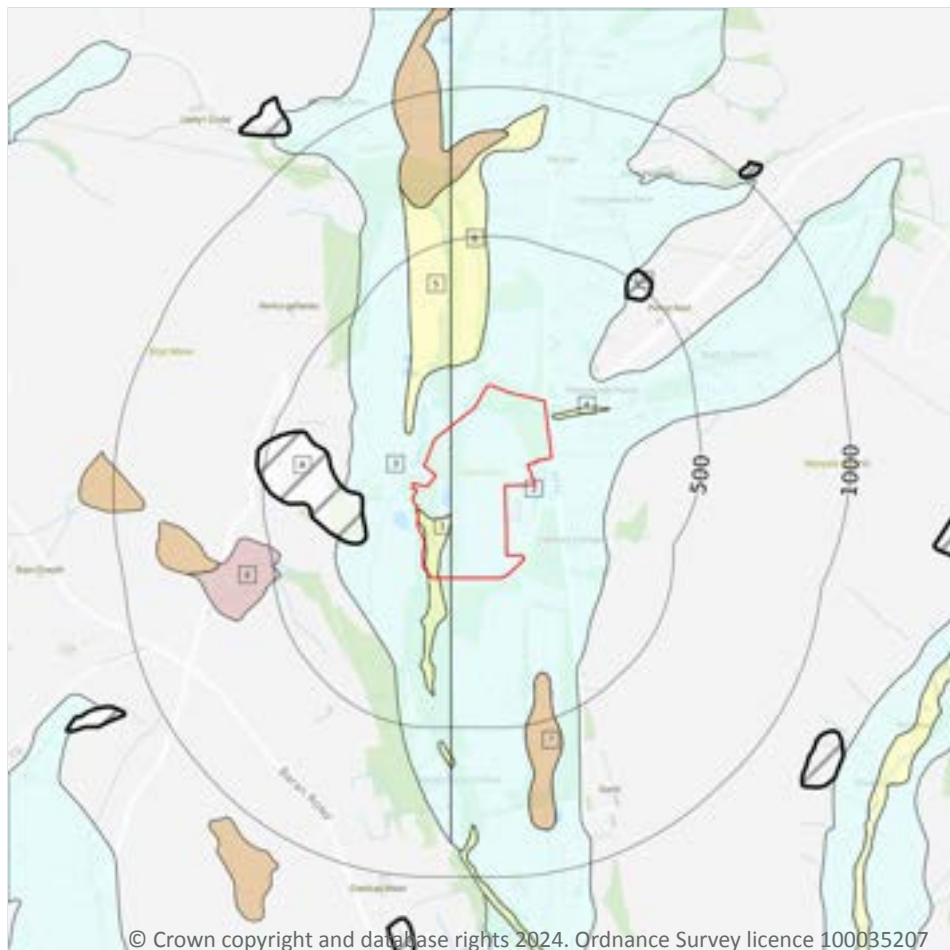
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 104 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

10

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 105](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
4	19m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
5	81m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	99m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
A	168m W	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
7	344m S	PEAT-P	Peat - Peat	Peat
B	442m NE	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
8	470m W	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

2

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.

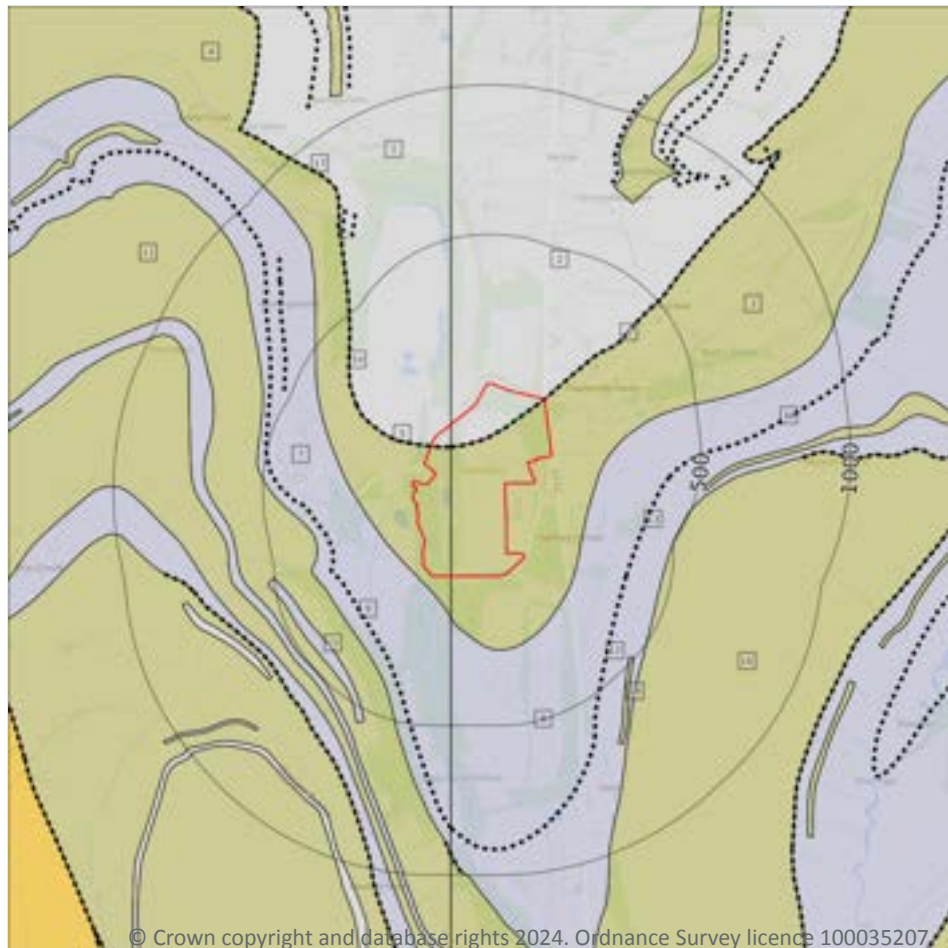
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 105 >](#)

ID	Location	LEX Code	Description	Rock description
A	168m W	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
B	442m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

10

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 107 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age
2	On site	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age
3	On site	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovia Sub-age

ID	Location	LEX Code	Description	Rock age
4	On site	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
7	37m SW	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
8	141m S	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
11	318m SW	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
15	412m SW	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
16	467m SE	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
18	483m SE	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

8

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.

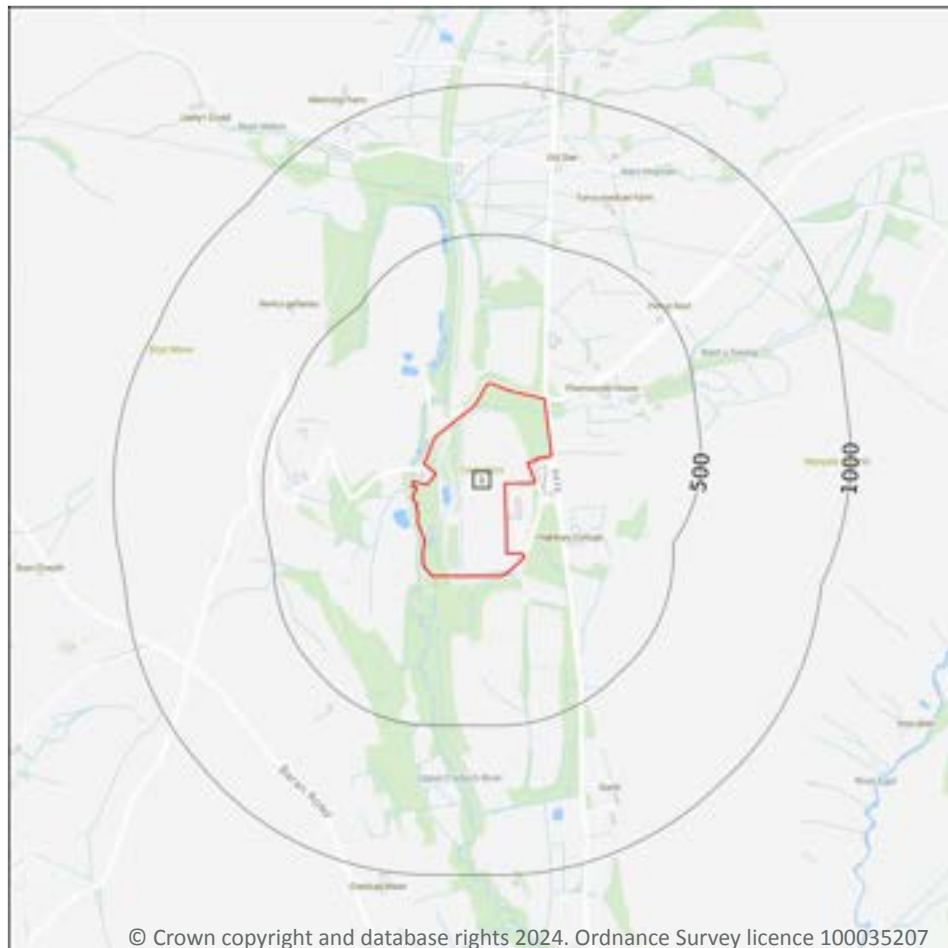
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 107 >](#)

ID	Location	Category	Description
5	On site	ROCK	Coal seam, inferred
6	On site	ROCK	Coal seam, inferred
9	260m SW	ROCK	Coal seam, inferred
10	285m NW	ROCK	Coal seam, inferred
12	347m SE	ROCK	Coal seam, observed
13	349m SE	ROCK	Coal seam, inferred
14	399m E	ROCK	Coal seam, observed
17	467m NW	ROCK	Coal seam, observed

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 109](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW230_amanford_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

5

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 111](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	87m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	331m S	PEAT-P	PEAT	PEAT
6	452m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

3

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
On site	Intergranular	High	Very Low
On site	Mixed	High	Low
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

1

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 111](#) >

ID	Location	LEX Code	Description	Rock description
4	174m W	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

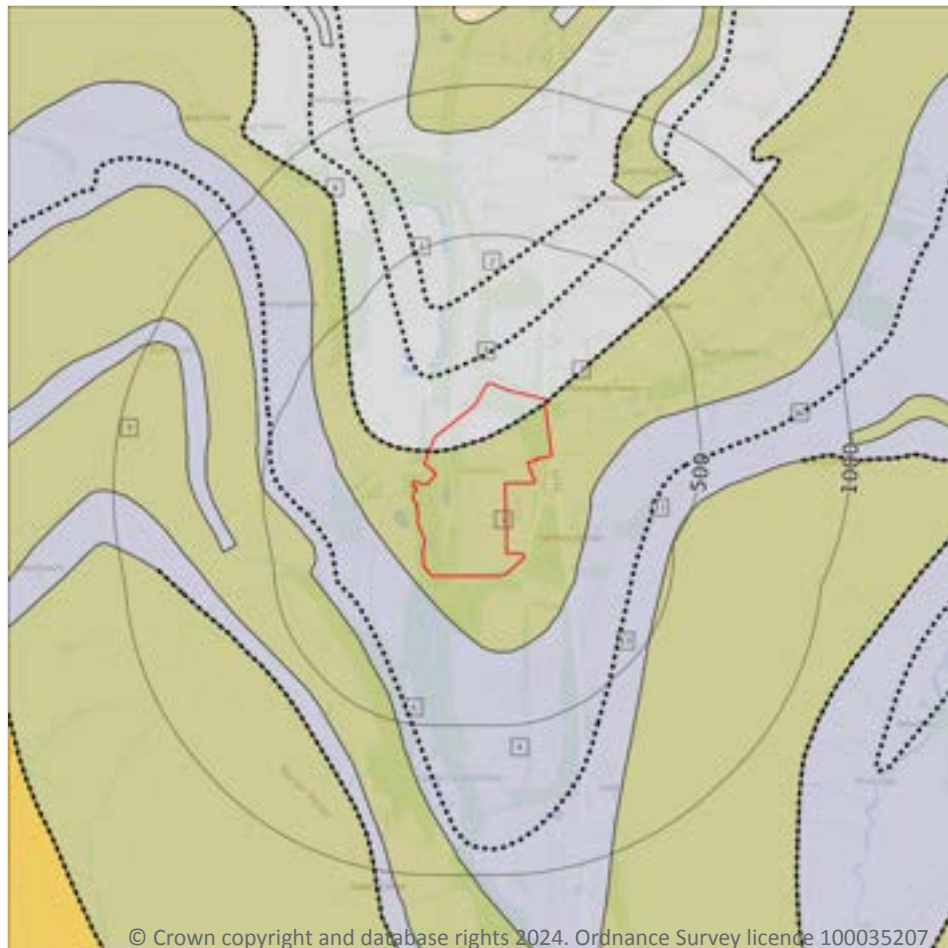
0

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

4

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 114](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
2	On site	LLFB-MDSS	LLYNFI MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
4	55m SW	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
9	318m SW	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	4
---------------------------	----------

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
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	8
----------------------------	----------

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.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 114 >](#)

ID	Location	Category	Description
3	On site	ROCK	Coal seam, inferred
5	91m N	ROCK	Coal seam, inferred
6	254m SW	ROCK	Coal seam, inferred
7	294m N	ROCK	Coal seam, inferred
8	314m NW	ROCK	Coal seam, observed
10	370m SE	ROCK	Coal seam, observed
11	370m SE	ROCK	Coal seam, inferred

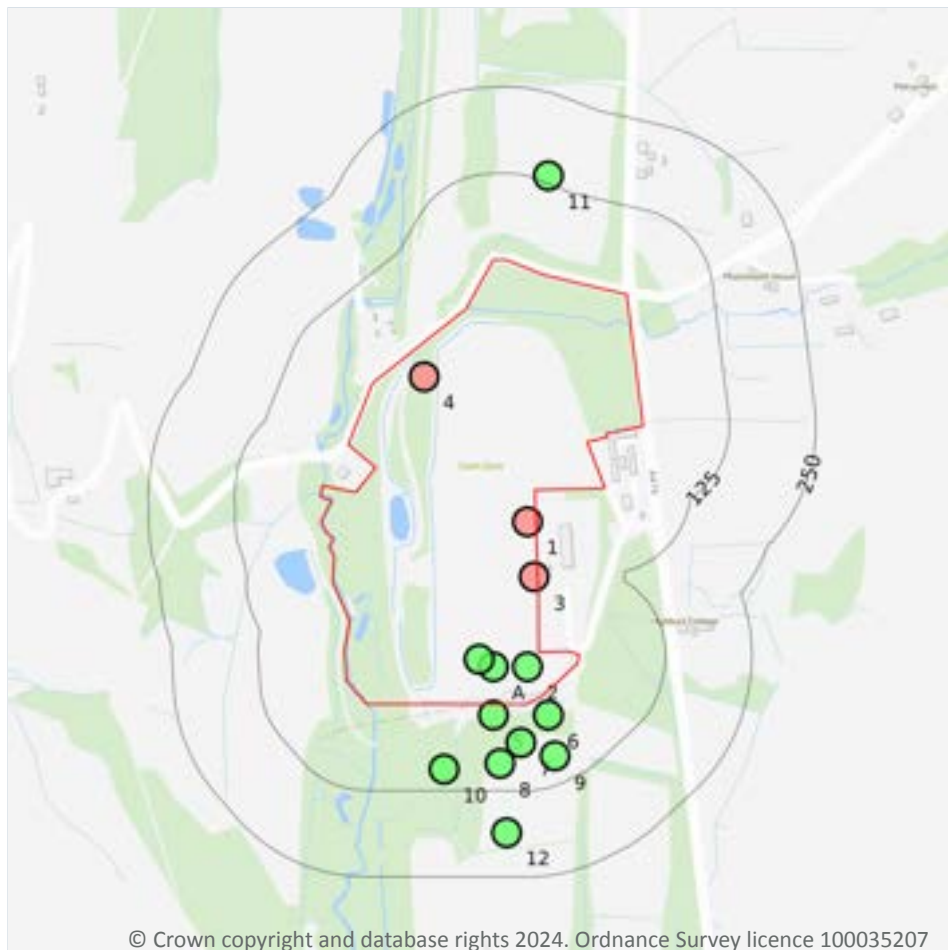


ID	Location	Category	Description
12	451m E	ROCK	Coal seam, observed

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

14

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.

Features are displayed on the Boreholes map on [page 117](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	270170 208290	ABERNANT COLLIERY NORTH SHAFT	765.2	N	257016 ↗
2	On site	270170 208080	ABERNANT COLLIERY 44	13.41	N	257019 ↗
3	On site	270180 208210	ABERNANT COLLIERY SOUTH SHAFT	820.22	N	257017 ↗

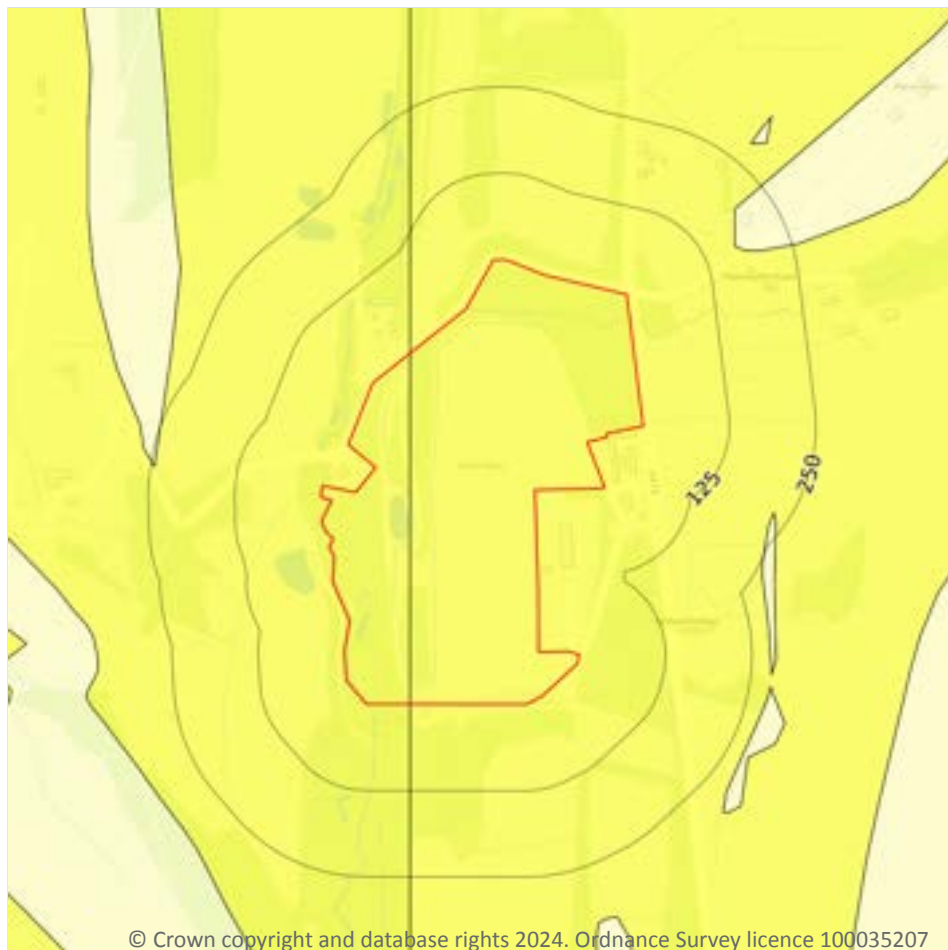


ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	270020 208500	CWM GORSE 1	701.04	N	257031 ↗
A	On site	270120 208080	ABERNANT COLLIERY 52	17.68	N	257027 ↗
A	On site	270100 208090	ABERNANT COLLIERY 43	24.23	N	257028 ↗
5	16m S	270120 208010	ABERNANT COLLIERY 50	15.24	N	257025 ↗
6	28m S	270200 208010	ABERNANT COLLIERY 45	15.7	N	257020 ↗
7	56m S	270160 207970	ABERNANT COLLIERY 49	15.54	N	257024 ↗
8	86m S	270130 207940	ABERNANT COLLIERY 48	15.24	N	257023 ↗
9	86m S	270210 207950	ABERNANT COLLIERY 46	15.39	N	257021 ↗
10	94m S	270049 207932	ABERNANT COLLIERY 51	16.76	N	257026 ↗
11	135m N	270200 208790	ABERNANT COLLIERY COAL PRODUCTS. 1-5	27.43	N	257029 ↗
12	186m S	270140 207840	ABERNANT COLLIERY 47	15.24	N	257022 ↗

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

17.1 Shrink swell clays

Records within 50m

1

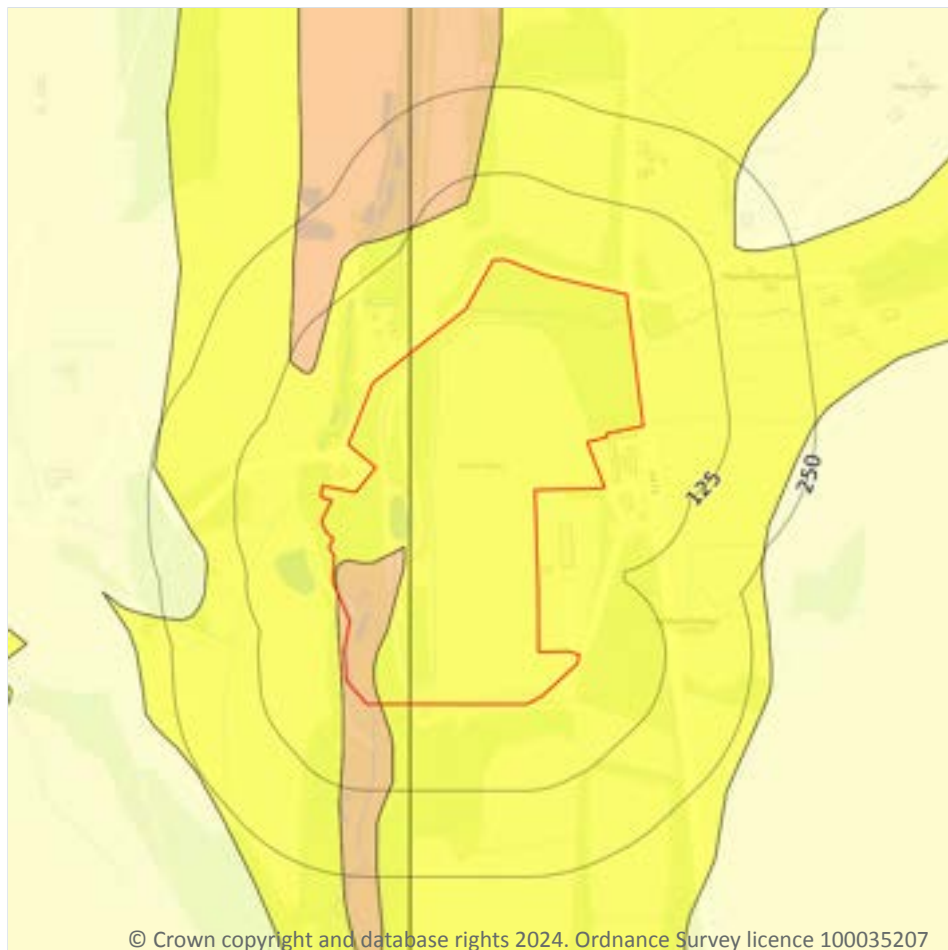
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 119](#) >

Location	Hazard rating	Details
On site	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 120 >](#)

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.

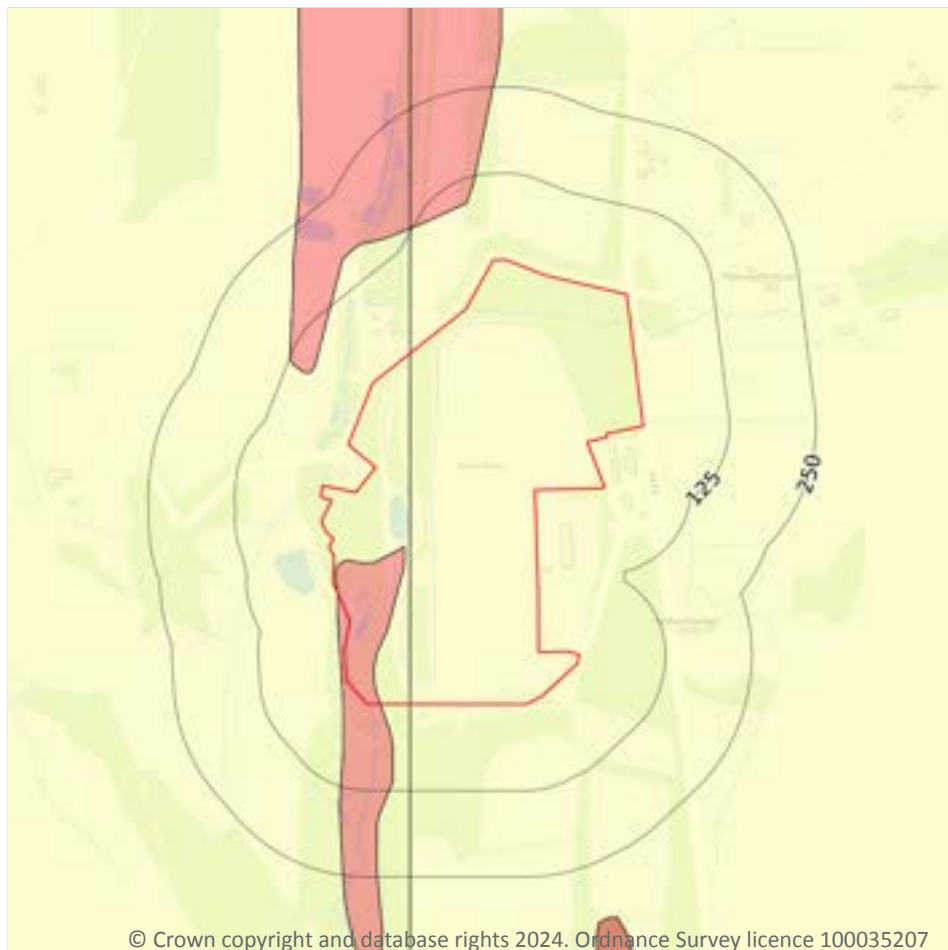


Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

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 122 >](#)

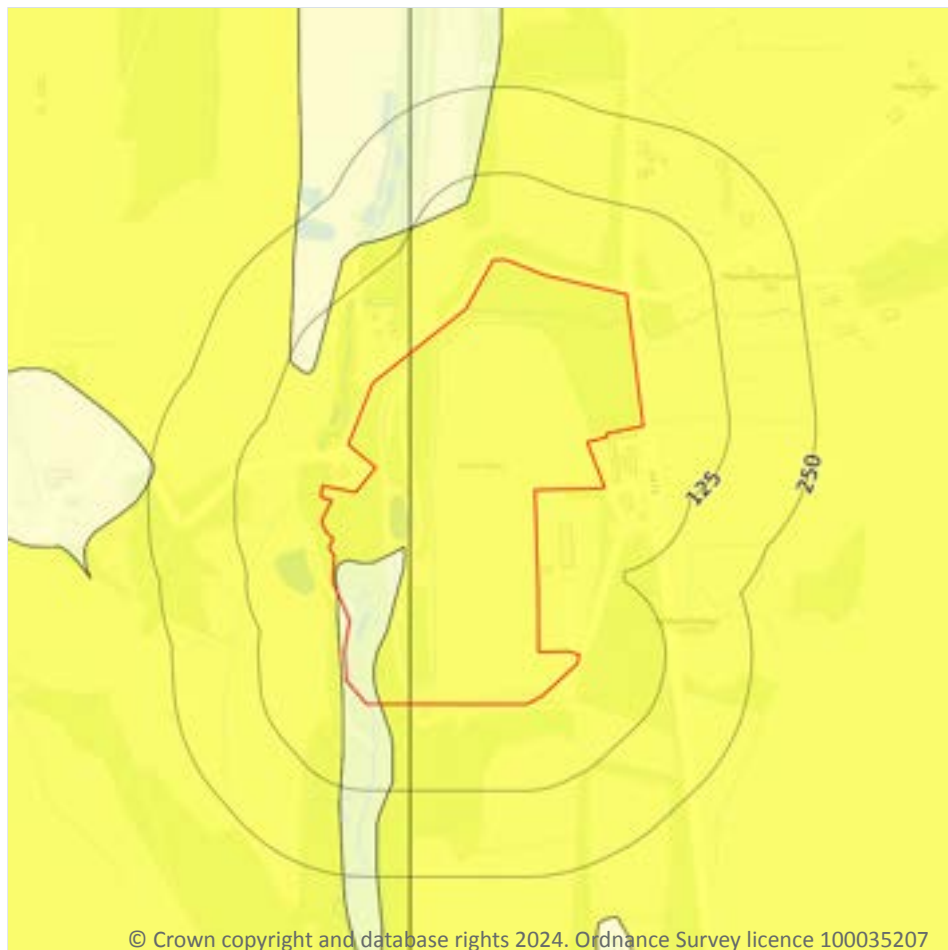
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



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 124 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	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



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

17.5 Landslides

Records within 50m

5

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 125 >](#)

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.

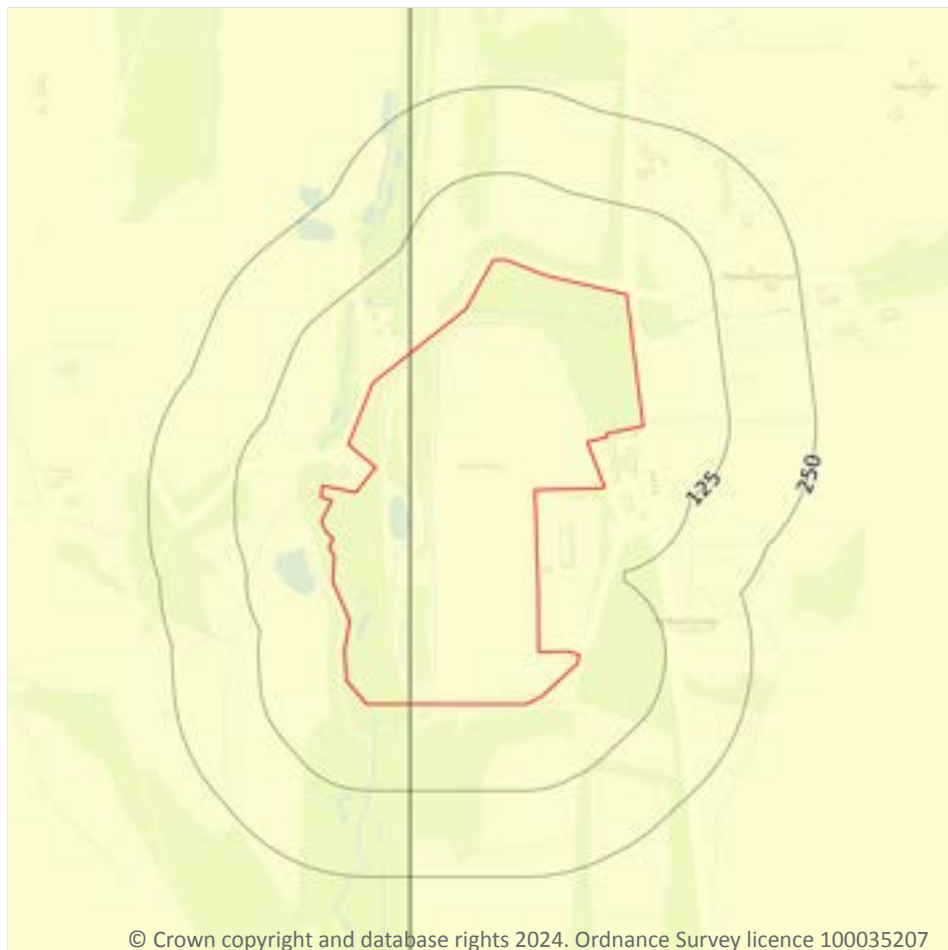


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
4m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
19m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
34m SW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

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

1

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.

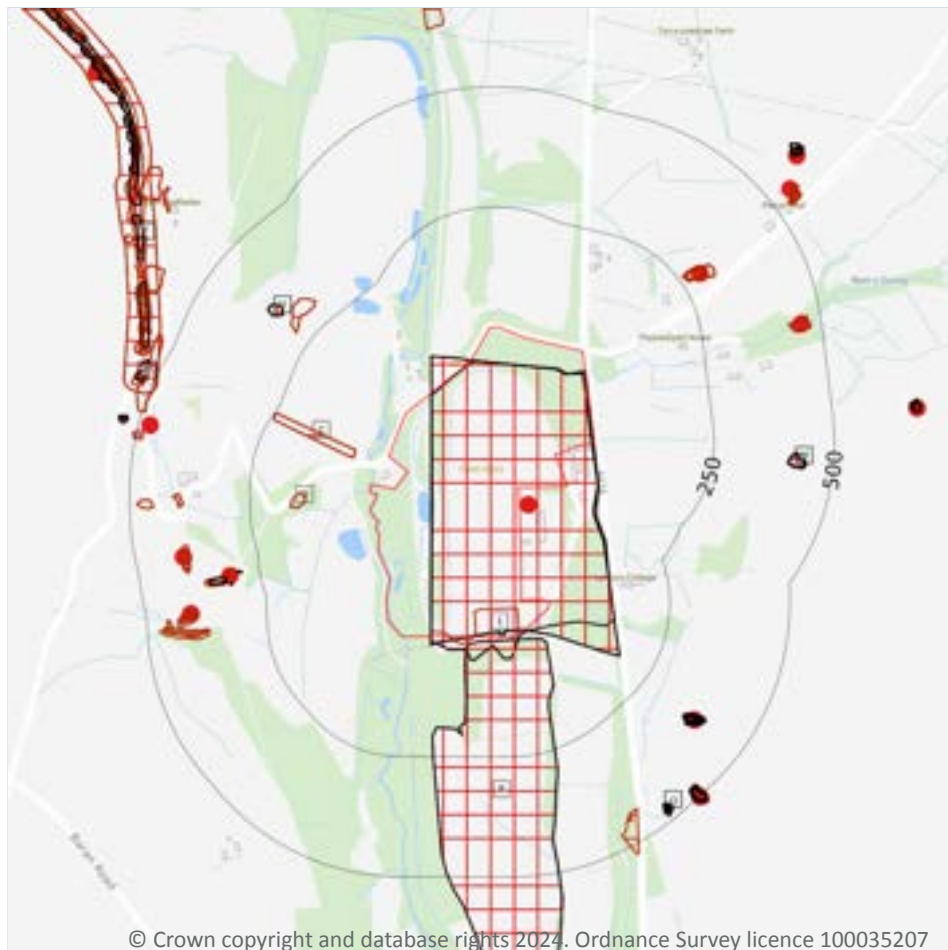
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 127](#) >

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.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- 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 BritPits

Records within 500m

8

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.

Features are displayed on the Mining and ground workings map on [page 129](#) >

ID	Location	Details	Description
A	19m E	Name: Abernant Mine Address: Rhydyfro, PONTARDAWE, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	293m NE	Name: Nant-y-gaueg-uchaf Address: Ystralyfera, SWANSEA, Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	313m W	Name: Pwllau-Watkin Address: Pontardawe, SWANSEA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	383m SE	Name: Highbury Cottage Address: Ystalyfera, NEATH, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	401m W	Name: Pwllau-Watkin Address: Pontardawe, SWANSEA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
J	407m SW	Name: Nant-y-gwn Address: Pontardawe, SWANSEA, Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	459m NE	Name: Nant-y-gauwg-uchaf Address: Ystralyfera, SWANSEA, Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
S	477m W	Name: Pwllau-Watkin Address: Pontardawe, SWANSEA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

7

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.

Features are displayed on the Mining and ground workings map on [page 129 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Refuse Heap	1965	1:10560
A	On site	Colliery	1990	1:10000
B	7m S	Unspecified Workings	1990	1:10000
C	67m W	Unspecified Heap	1964	1:10560
C	67m W	Unspecified Heap	1962	1:10000
D	135m W	Unspecified Heap	1964	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	135m W	Unspecified Heap	1962	1:10000

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	52
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Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on [page 129 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Mine	1965	1:10560
A	On site	Colliery	1990	1:10000
B	7m S	Unspecified Workings	1990	1:10000
G	287m W	Coal Levels	1877	1:10560
G	311m W	Coal Levels	1877	1:10560
G	321m W	Old Coal Levels	1948	1:10560
G	321m W	Old Coal Levels	1913	1:10560
G	321m W	Old Coal Levels	1921	1:10560
H	328m NW	Unspecified Level	1964	1:10560
H	328m NW	Unspecified Level	1962	1:10000
I	358m SE	Unspecified Disused Levels	1965	1:10560
I	359m SE	Unspecified Disused Levels	1990	1:10000
I	365m SE	Old Coal Levels	1921	1:10560
I	365m SE	Old Coal Levels	1913	1:10560
I	366m SE	Old Coal Levels	1948	1:10560
M	405m E	Unspecified Disused Level	1990	1:10000
M	405m E	Unspecified Disused Level	1965	1:10560
Q	463m SE	Old Coal Level	1913	1:10560
Q	463m SE	Old Coal Level	1897	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
Q	467m SE	Unspecified Disused Level	1965	1:10560
Q	472m SE	Old Coal Level	1948	1:10560
Q	472m SE	Old Coal Level	1921	1:10560
R	478m SE	Unspecified Disused Level	1990	1:10000
R	479m SE	Old Coal Level	1921	1:10560
R	480m SE	Unspecified Disused Level	1965	1:10560
U	521m W	Old Coal Levels	1896	1:10560
S	524m W	Old Coal Level	1921	1:10560
S	526m W	Old Coal Level	1948	1:10560
S	526m W	Old Coal Level	1913	1:10560
S	526m W	Coal Level	1877	1:10560
U	545m NW	Old Coal Levels	1896	1:10560
W	597m NE	Unspecified Disused Level	1990	1:10000
W	598m NE	Unspecified Disused Level	1965	1:10560
W	598m NE	Old Coal Level	1900	1:10560
W	598m NE	Old Coal Level	1948	1:10560
W	600m NE	Old Coal Level	1905	1:10560
W	603m NE	Coal Level	1877	1:10560
W	604m NE	Coal Level	1877	1:10560
T	635m NW	Old Coal Levels	1896	1:10560
X	663m E	Unspecified Disused Level	1965	1:10560
X	664m E	Unspecified Disused Level	1990	1:10000
X	668m E	Old Coal Level	1948	1:10560
X	668m E	Old Coal Level	1905	1:10560
X	668m E	Old Coal Level	1900	1:10560
T	703m NW	Old Coal Levels	1896	1:10560
T	749m NW	Unspecified Disused Levels	1964	1:10560
T	749m NW	Unspecified Disused Levels	1962	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	830m E	Unspecified Disused Level	1990	1:10000
-	831m E	Unspecified Disused Level	1965	1:10560
-	833m E	Old Coal Level	1948	1:10560
-	837m E	Old Coal Level	1905	1:10560
-	837m E	Old Coal Level	1900	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from 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

0

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).

This data is sourced from the British Geological Survey.



18.7 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.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site**1**

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.13 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.

18.14 Gypsum areas

Records on site**0**

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site**0**

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.



18.16 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 Ground cavities and sinkholes

19.1 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.

19.2 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.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

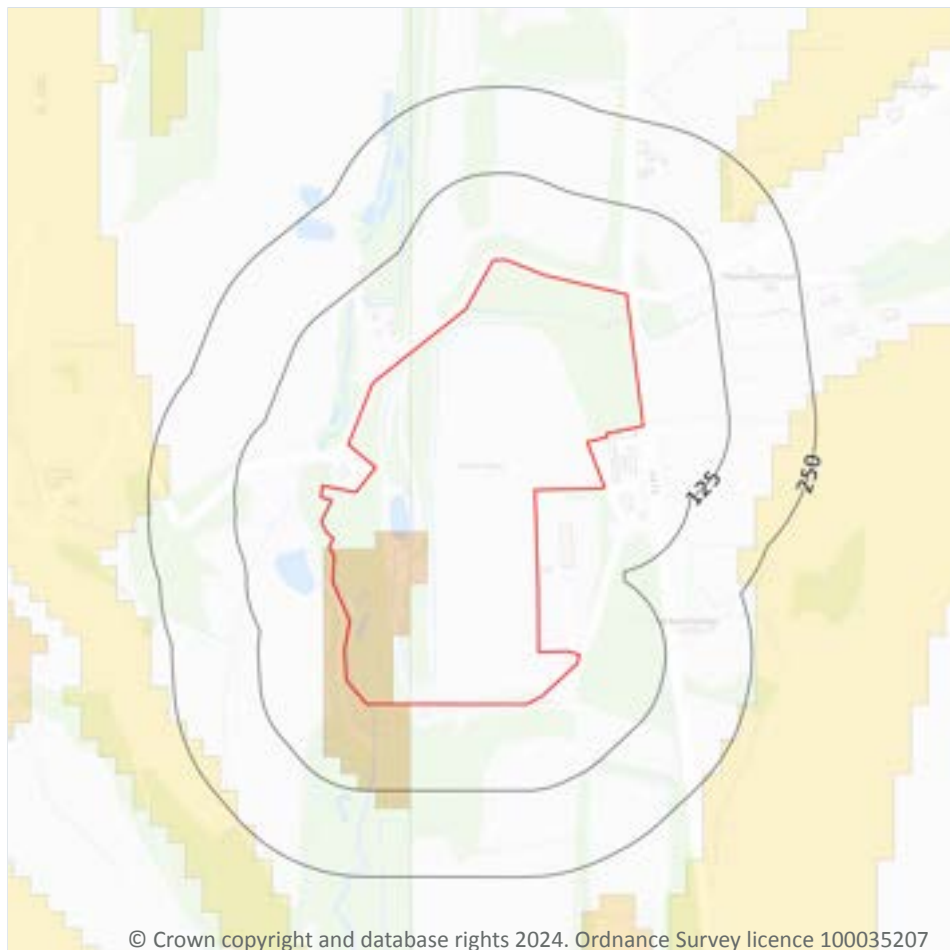
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



- Site Outline
- Search buffers in metres (m)
- Greater than 30%
 - Between 10% and 30%
 - Between 5% and 10%
 - Between 3% and 5%
 - Between 1% and 3%
 - Less than 1%

20.1 Radon

Records on site

2

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 140](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 5% and 10%	Basic



Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

16

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 km². 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 km²; 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
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
26m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 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 km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

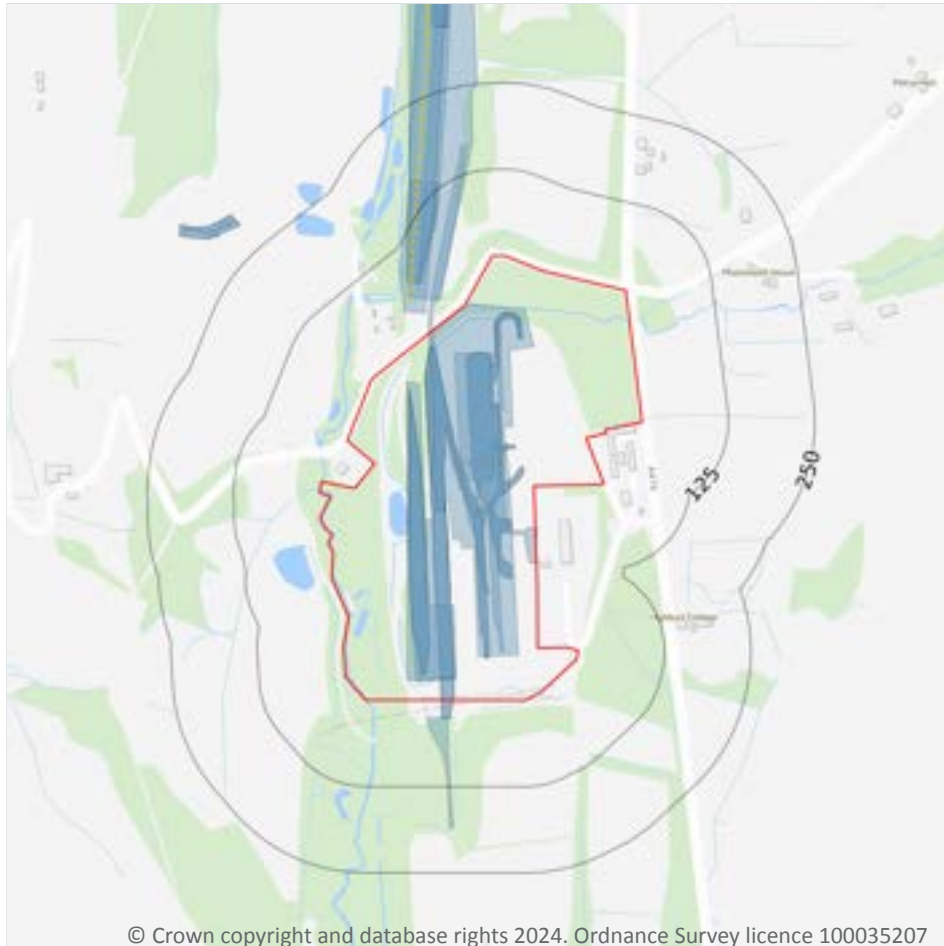
0

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 km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 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.

22.2 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.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

9

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.

Features are displayed on the Railway infrastructure and projects map on [page 144 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1986	2500
On site	Mineral Railway Sidings	1962	2500
On site	Mineral Railway Sidings	1986	2500
On site	Railway Sidings	1965	10560
25m S	Mineral Railway Sidings	1986	2500
27m N	Railway Sidings	1948	10560
28m N	Mineral Railway Sidings	1990	10000
64m N	Railway Sidings	1962	2500
66m N	Railway Sidings	1965	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 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.



22.6 Historical railways

Records within 250m**1**

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

Features are displayed on the Railway infrastructure and projects map on [page 144 >](#)

Location	Description
55m N	Abandoned

This data is sourced from OpenStreetMap.

22.7 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.

22.8 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.

22.9 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.

22.10 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> ↗.

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Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

