



Preliminary Risk Assessment: Desk Study

C. Morgan

Cwmtawe Ganol Farm

Godrergraig

Swansea Valley

Glamorgan

SA9 2NX

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Executive Summary

Brief	This report presents a Preliminary Geo-Environmental Risk Assessment (Phase 1 Desk Study) for the proposed equestrian development at Cwmtawe Ganol Farm, Godrergrai, Swansea Valley. The assessment reviews historical and current site uses, environmental setting, and potential pollutant linkages to identify risks to human health, controlled waters, ecological receptors, and the proposed development.
Site Use & Surrounding Area	The site comprises predominantly undeveloped agricultural land currently consisting of grassland, scrub vegetation, and a compacted hardcore access track. Surrounding land uses include woodland, agricultural land, residential properties, and limited commercial development along the A4067 and Graig Road. Historical mining and canal-related features are recorded within the wider surrounding area.
Environmental Setting	The site is underlain by superficial Alluvium and Glaciofluvial Deposits over South Wales Upper Coal Measures bedrock, with both strata classified as Secondary A aquifers and locally moderate to high permeability. An onsite drain is present, with the Afon Tawe approximately 350m to the southeast. The site is not within a Source Protection Zone but lies within an area of high aquifer vulnerability. Flood Zone 2 is recorded on site, with Flood Zone 3 immediately southeast. The wider area has a historical mining legacy, with nearby mine entries and underground workings recorded in the surrounding area.
Contamination Potential Sources	No significant contaminative land uses have been identified on-site, which has remained largely undeveloped historically. Potential contamination sources are limited to minor Made Ground associated with the access track and off-site historical mining features including pits, collieries, landfill records, and underground workings within the wider area.
Development Considerations	The proposed equestrian development represents a low sensitivity end use. Risks to construction workers during intrusive works are considered low and can be managed through standard construction health and safety procedures, PPE, dust suppression, and good site hygiene practices. Risks to future site users, ecological receptors, groundwater, and nearby surface waters are also considered low due to the absence of significant contamination sources on-site. No specific remediation or gas protection measures are considered necessary at this stage.
Uncertainty and Data Gaps	The assessment is based on desk study information, environmental database records, historical mapping, and a site walkover survey. No intrusive investigation or sampling has been undertaken, therefore some uncertainty remains regarding localised subsurface and mining-related ground conditions.
Recommendations	No intrusive site investigation is considered necessary on contamination grounds for the proposed development, with the site assessed as low risk based on its long-term agricultural use and absence of significant on-site sources; standard construction good practice should be applied during works, including dust suppression, appropriate management of excavated materials and protection of controlled waters, and any unexpected contamination or abnormal ground conditions should be appropriately assessed and managed.

This is intended as a summary only. Further detail and the limitations of the assessment is provided within the main body of the Report.

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Introduction

Background

Arbtech Consulting Ltd (Arbtech) was instructed by C. Morgan to produce a Preliminary Geo-Environmental Risk Assessment to inform a planning proposal with Neath Port Talbot County Borough Council Ref. P2025/0538 for *Erection of a stable building, adjacent concrete yard to include muck store and hay bale stacking area and menage/sand school* at the site known as Cwmtawe Ganol Farm, Godrergraig, Swansea Valley, Glamorgan, SA9 2NX.

A Phase I report is required to assess the historical use and present condition of the site, determine the extent and nature of any contamination risk, and identify potential risks to future users of the land, neighbouring properties, workers, and other offsite receptors. This assessment will ensure that the development can be carried out safely without unacceptable risks to workers, neighbours, controlled waters, property, or ecological systems with suitable recommendations.

Objectives

The objectives of the Arbtech Consulting preliminary geoenvironmental site assessment was to undertake a Phase I Desk Study for the site. Guidance set out in PPW11/LCRM, GPLC1-3 and the National Planning Policy Framework (NPPF) states that a Preliminary Risk Assessment with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk. If contamination is a potential, then site investigation works are carried out to establish a viable pollutant linkage to assess the potential risks to human health and controlled water receptors. Based on the findings of this report, an appropriate site investigation can be derived, if required, once planning approval has been granted.

Welsh Government (2021). Planning Policy Wales, Edition 11 (PPW 11).: Welsh Government.

Environment Agency (2020). Land Contamination Risk Management (LCRM).: Environment Agency.

Environment Agency (2016). Guiding Principles for Land Contamination (GPLC 1–3).: Environment Agency.

Scope of Works

Review of the environmental setting of the Site, including the current use / status of the Site and surrounding area, and review of the geology, hydrogeology and hydrology;

Review of the historical activities of the Site and surrounding area;

Review of regulatory information relating to the Site;

Review of the online planning records for the Site;

Consult and review information from the Local Authority in relation to Part 2A of the 1990 Environmental Protection Act; and

Develop an outline Conceptual Site Model and undertake a Preliminary Risk Assessment with respect to potential contamination focussed on the proposed end use of the Site.

In completing this Assessment, Arbtech Consulting Ltd has utilised the following data sources and third-party information:

Current and Historical Ordnance Survey (OS) maps;

British Geological Survey (BGS) data;

Environment Agency (EA) / National Resources Wales (NRW) online data; and

Review of third-party environmental reports.

Site Context

Site Information



Fig.1 2023 Aerial Photograph
Contains Data from, © 2025 Groundsure Insights (Appendix 3)



Fig 2 OS Mastermap site plan
Contains Data from, © 2025 Groundsure Insights

Site co-ordinates:	(NGR) 275574 207122	Site Area:	0.23ha
Site Location	The site is located in the village of Godrergrraig, positioned between Graig Road c.90m to the northwest and the A4067 c.80m to the southeast (from which access to the site is gained). The site sits within the Lower Swansea valley, with Afon Tawe located c.350m to the southeast.		
Current Site use	The site is an irregular shape, with a larger rectangular main area to the north, oriented northwest to southeast, and a narrower 'V' shaped access area extending to the south. It forms part of the wider Cwmtawe Ganol Farm plot mainly situated southwest of the site, which includes agricultural buildings and a small courtyard area. Access to the site is gained via a track made up of weathered limestone MOT/hardcore over mixed Made Ground, now well compacted and partially fines-bound which leads into the narrow, currently grassed access area to the south of the site area. The site slopes from northwest to southeast at a shallow gradient and is currently comprises open space covered by a combination of grassland and scrub. A debris pile of mixed timber and vegetation cuttings is noted in the southwest region of the site... Representative photos from the site reconnaissance carried out on 13th September 2025 are presented as Appendix 2.		
Surrounding Area features	The area to the northeast and southwest of the site along the A4067 is predominantly woodland. To the east/northeast is an area of residential properties, whilst to the southwest along Graig Road is still mainly residential but with some commercial units interspersed along the road. Beyond the immediate surroundings, the wider area is rural with agricultural land present along the valley floor and woodland and open green space lining the valley and extending to higher elevations.		

Data Review

Historical Features	
Strategy	The Groundsure Report provides a database of environmental information held by various statutory bodies including the EA, Local Authority (LA), Health & Safety Executive (HSE) and HPA amongst others. A full copy of the Groundsure Report is provided in Appendix 3, and the most relevant information is summarised below. The historical development of the Site and surrounding area has been assessed through a review of available historical OS maps and Google Earth historical satellite imagery. A summary of the key historical Site uses and developments in the surrounding area is presented below. Copies of pertinent historical maps are included as Appendix 4.
Historical Features On-Site	Historically, based on the earliest available mapping dated 1876-1877 the site forms part of a wider area of open land which extends to the northeast. The 'V' shaped site area to the south extends into the adjacent farm, intersecting a wooded area and access track, which crosses the Swansea Canal offsite to the east. 1962 mapping: the site intersects a drain where the larger site area tapers down to the narrow area to the south. 1979 mapping: shows the Swansea Canal offsite to the east is no longer present, and A4067 road is shown in place. No changes are shown in the site area. 2006 satellite imagery: the site is shown to be covered by woodland and thick vegetation. 2020 satellite imagery: the narrow site area to the south where access is gained to the main area is shown as hardstanding, where previously it's been shown as wooded and grassed. 2025 satellite imagery: no significant changes are shown, and the site remains in the open, vegetated configuration previously described.
Potentially Contaminative Historical Features Off-Site	Potential sources of contamination identified in the surrounding area (within 100m, excluding repeat entries beyond the nearest) include: 14m northwest Unspecified Pit 1897 14m northwest Unspecified Ground Workings 1913-1921 82m northwest Colliery 1948
Implications for historic Land Contamination Risk	The site has historically remained largely undeveloped and forms part of a wider area of open land shown on mapping from 1876–1877 onwards. Historical mapping and aerial imagery indicate the site has predominantly comprised open vegetated land and woodland, with no evidence of significant industrial or potentially contaminative activities occurring on-site. A drain is shown intersecting the southern extent of the site on 1962 mapping, while later mapping indicates the former Swansea Canal to the east had been

replaced by the A4067 by 1979. More recent aerial imagery (2006–2025) shows the site remaining predominantly wooded and vegetated, with the southern access area converted to hardstanding by 2020.

Potential off-site contaminative sources identified within approximately 100m include historical unspecified pits and ground workings located circa 14m northwest of the site, together with a former colliery approximately 82m northwest. These features indicate a historical mining influence within the surrounding area and may present a potential source of Made Ground, mine-related deposits, or localised contamination in the wider vicinity. However, no direct evidence of contaminative uses has been identified within the site boundary itself.

Given the site's historical use as undeveloped land, together with the absence of recorded industrial activity on-site, the potential for significant contamination to be present within the site is considered low. The existing vegetation cover and limited areas of hardstanding further reduce the likelihood of direct exposure to any shallow soils. Any residual risks associated with off-site historical mining features are considered to be low and would primarily become relevant only in the event of future intrusive groundworks or redevelopment activities.

Environmental Setting

Feature		Information
Published Geology	Artificial	No Artificial and Made Ground recorded on site.
	Superficial	Superficial geology is recorded on site as: Alluvium – Clay, Silt, Sand and Gravel to the southeast, mainly the narrow 'V' shaped to the south. Noted as intergranular flow type with high to very low permeability. Glaciofluvial Deposits, Devensian Sand and Gravel to the north across the main site area. Noted as intergranular with very high to high permeability. 1No. landslip recorded within 500m – 108m north Landslide deposits, unknown/unclassified entry.
	Bedrock	Bedrock geology is recorded as South Wales Upper Coal Measures Formation – Mudstone, Siltstone and Sandstone. Noted as fractured with moderate to low permeability. 30No. records of Bedrock faults or any other linear features present within 500m – the nearest is on site fossil horizon, marine band.

Environmental Setting

Feature		Information	
	BGS Logs	1No. BGS log within 250m – 238m north ref. SN70NE150, however this is likely to be unrepresentative of site conditions as BGS records identifies a different recorded strata in this location. The record is from 1957 showing chemical water analysis.	
Hydrogeology	Aquifer Designation	Superficial	Secondary A
		Bedrock	Secondary A
	Source Protection Zone (SPZ)	The site is not within a recorded Source Protection Zone The site is in an area of high vulnerability for the combined Aquifer. Bedrock shows well connected fractures.	
	Groundwater Abstractions	1No. recorded groundwater abstractions within 1km – 871m historical for General Farming & Domestic. No potable abstractions within 2km.	
Hydrology	Surface Water Abstractions	No surface water abstractions within 1km.	
	Nearest Surface Water	27No. surface water features and 53No. Water Network (OS NGD) within 250m - the nearest is an onsite drain (a manmade watercourse for the removal of excess water from an area). 1No. entry on site for WFD Surface water body catchments for the Tawe -confluence with Twrch to tidal limit.	
	Water Quality Data	Tawe -confluence with Twrch to tidal limit has an overall moderate rating. On site Groundwater body Swansea Carboniferous Coal Measures is recorded as overall poor rating.	
	Flooding	3No. entries recorded within 50m for risk of flooding from rivers or sea – on site N/A, 0-50m high. 1No. historical flood event 142m south in 1979 – fluvial channel capacity exceeded (no raised defences). No flood defences within 250m. 1No. area benefiting from flood defences from 4m north. No flood storage areas recorded within 250m. Flood zone 2 recorded on site (fluvial/tidal models).	

Environmental Setting

Feature		Information
		Flood zone 3 recorded 3m southeast (fluvial/tidal models). Surface water highest flooding risk on site - 1 in 100 year, 0.1m - 0.3m and within 50m – 1 in 30 year, Greater than 1.0m. Highest groundwater flooding risk on site and within 50m – low.
	Discharge Consents	3No. Licensed discharge to controlled waters within 500m - the nearest is 327m west as trade discharges - unspecified. No Licensed pollutant (Part A(2)/B) release within 500m.
	Pollution Incidents	No pollution incidents recorded within 500m.
Minerals and Mining	Coal Report	The site and surrounding areas are not within a JPB mining area. The site is within an area which could be affected by past, current or future coal mining.
	Coal Mining Development Risk	The Site is not within a Development High Risk Area. A mine entry is located adjacent to the southwest of the site.
	Surface Extractions	74No. entries within 250m for Surface Ground Workings – the nearest is 4m southeast Canal (1948). 19No. Brit pits within 500m – 22m southwest for Coal, Deep (ceased).
	Mining Instability/Non-Coal Mining Area	4No. entries for non-coal mining – the nearest is on site for Iron Ore (bedded). Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered. 178No. underground workings within 1km – the nearest is 145m northeast Unspecified Mine (1965). 1No. mining cavity record within 1km – 195m northeast.
Ground Stability	Shrink/Swell Clay	Negligible/Very low
	Running Sand	Negligible/Very low/Low
	Compressible Ground	Negligible across the main site area/Moderate over the narrow area to the south

Environmental Setting

Feature		Information
	Collapsible Ground	Negligible/Very low
	Landslide	Very low over majority of site/Low/Moderate on edge of narrow area to the south
	Ground Dissolution	Negligible
Landfill Site	Registered	No active or recent landfill records within 500m. 1No. historical landfill – 165m southwest. No historic or licensed waste site records within 500m. 1No. Waste exemption sites within 500m – 378m northeast for use of waste in construction.
	Potential: infilled land	7No. Artificial and Made Ground records within 500m – the nearest is 97m north Made Ground (undivided), artificial deposit.
Radon	Less than 1% no protective measures required.	

Designated Sites	Within 1km: 1No Local Nature Reserves (LNR) – 675m southwest Swansea Canal 14No. Designated Ancient Woodland – the nearest is 317m south 1No. Scheduled Ancient Monument – 144m northeast Crimea Colliery & Canal Quay Agricultural Land Classification on site – Grade 4, poor quality 1No. Open Access Land record – 144m north No other environmental designation records.
Contemporary Trade Directory	3No. Entries for Recent industrial land uses within 250m: 137m SE & 232m S Pylon 176m NE Unspecified Quarries or Mines
Fuel Station Entries	No fuel station records within 500m.
Unexploded Bomb Risk (UXO)	Zetica Risk maps presented in Appendix 5 identifies a low risk of UXO.
Environmental Search (other)	1No. List 2 Dangerous Substances record within 500m – 327m west Pentwyn Colliery (no 3) for Iron, active.

Environmental Database Review

Features on Site	The site has a low potential for contamination associated with its historical and current use as predominantly undeveloped agricultural land. Historical mapping indicates the site has remained largely open and vegetated since at least 1876, with no evidence of significant industrial or potentially contaminative activities on-site. More recent aerial imagery shows limited development associated with the southern access track and hardstanding area. Current site features comprise grassland, scrub vegetation and a compacted hardcore access track. A small pile of timber and vegetation cuttings and an onsite drain were noted during the site reconnaissance. No evidence of significant waste disposal, fuel storage or other contaminative activities was identified. Although historical mining features are recorded in the surrounding area, the site itself is considered to present a low contamination risk, with any residual risks likely limited to the wider historical mining setting.
Potentially Contaminative Features Off-Site (250m)	Summary of Offsite potential to onsite migration potential from: Historical: 14m northwest Unspecified Pit 1897 14m northwest Unspecified Ground Workings 1913-1921 82m northwest Colliery 1948 Current: 137m SE & 232m S Pylon 176m NE Unspecified Quarries or Mines Other: 1No. List 2 Dangerous Substances record within 500m – 327m west Pentwyn Colliery (no 3) for Iron, active.
Implications for Land Contamination Risk	The wider area includes a number of historical mining and potentially contaminative features, including former pits, ground workings, a colliery and historical landfill records within the surrounding area. Current surrounding land use is predominantly residential, agricultural and woodland, with limited commercial activity along Graig Road and the A4067 corridor. The site itself remains largely undeveloped and no significant contaminative activities were identified during the site reconnaissance. Potential risks are primarily associated with the wider historical mining setting. However, given the site's historical use as open land and the absence of identified contamination sources on-site, the overall risk of significant land contamination is considered low. This context is considered further within the Conceptual Site Model below.



Planning Review

Planning Records	Portal	The site is presented to inform a planning proposal with Neath Port Talbot County Borough Council Ref. P2025/0538 for <i>Erection of a stable building, adjacent concrete yard to include muck store and hay bale stacking area and menage/sand school.</i> Indicative development plans are presented as Appendix 6. Planning portal records identifies: P2025/0538, Cwmtawe Ganol Farm A4067 From Ynysmeudwy To Godre'r Graig Godre'r Graig Neath Port Talbot SA9 2NY - Erection of a stable building, adjacent concrete yard to include muck store and hay bale stacking area and menage/sand school. Approved. P2025/0266, Temporary siting of a static caravan on the land at Cwmtawe Ganol Farm for the provision of welfare facilities and ad hoc sleeping accommodation associated with the care of horses at the stud farm. Approved.
Part 2A of the Environmental Protection Act (EPA) 1990		No recorded sites determined as Contaminated Land within 500m.
Local Records	Authority	Arbtech Consulting Ltd. have not contacted Neath Port Talbot County Borough Council however, consultations and access to the public contaminated land register can be found at Contaminated land .

Conceptual Site Model

Overview

A conceptual site model (CSM) is a representation of the characteristics of the site. It shows the possible relationships between contaminants, pathways and receptors. The CSM is used to identify potential contaminants, receptors (e.g., humans, groundwater), and pathways (e.g., inhalation, ingestion).

Overall Site Sensitivity

The preliminary assessment of the Cwmtawe Ganol Farm site indicates a generally low potential for land contamination, reflecting the site's historical and current use as predominantly undeveloped agricultural land. Current site features comprise grassland, scrub vegetation, a compacted limestone hardcore access track and a small debris pile of timber and vegetation cuttings. Historical mapping shows the site has remained largely undeveloped since at least 1876, with no evidence of significant industrial or potentially contaminative activities occurring on-site.

Potential contaminant pathways include direct contact with soils during construction works, dust inhalation and limited migration through permeable superficial deposits. Off-site sources include historical pits, ground workings, former collieries and a historical landfill record associated with the wider mining history of the Lower Swansea Valley. However, no evidence of significant contamination or made ground was identified within the site boundary during the site reconnaissance.

The site is underlain by Alluvium and Glaciofluvial Deposits over South Wales Upper Coal Measures bedrock. Both superficial and bedrock strata are classified as Secondary A aquifers, with the site located within an area of high aquifer vulnerability. An onsite drain and the nearby Afon Tawe approximately 350m southeast increase the sensitivity of controlled waters, although the site is not located within a Source Protection Zone.

The site lies within Flood Zone 2, with Flood Zone 3 located immediately southeast of the site. Surface water flood risk is recorded on-site during higher return period events, and climate change may increase future flood susceptibility. However, the proposed equestrian development represents a relatively low sensitivity end use with recreational/agricultural equestrian end use.

Potential risks to human health are primarily associated with construction workers during intrusive groundworks through direct contact, ingestion and inhalation of soils and dusts. Ecological receptors include nearby ancient woodland and the Swansea Canal Local Nature Reserve approximately 675m southwest, although no significant pollutant linkages have been identified. Ground stability risks are generally negligible to low, with localised moderate compressibility in the access corridor only. Some localised mining-related hazards possible due to the wider coal mining setting. Radon risk is recorded as less than 1%, with no protective measures required.

Overall, taking into account the historical land use, limited on-site contaminative features, surrounding mining history and proposed end use, the site is considered to have a low sensitivity to land contamination. Localised mining-related ground conditions may be encountered during development works, although widespread contamination is considered unlikely.

Contamination Sources

Ref.	Source	Location	Dates Present	Associated Contaminants of Concern
Source 1	On-Site Historic	Predominantly undeveloped agricultural land, woodland and open ground with historical onsite drain	Pre-1876– present	Low potential for contamination; limited to naturally occurring metals within soils and minor localised anthropogenic influence associated with historical land drainage features
Source 2	On-Site Current	Grassland, scrub vegetation, compacted limestone hardcore access track and small timber/vegetation debris pile	c.2020– present	Minor organic decomposition products, localised debris and shallow soil disturbance
Source 3	Off-Site Historic	Former pits, ground workings, collieries, canal infrastructure and historical landfill within surrounding area	1897– mid/late 20th century	Metals, PAHs, hydrocarbons, sulphates, mine-related contaminants, ash/clinker, leachate, ground gas
Source 4	Off-Site Current	Residential, agricultural and limited commercial land uses along Graig Road and A4067 corridor, including pylons and quarry/mining-related entries	Current	Hydrocarbons, oils, metals, fuels, solvents, made ground and minor industrial residues
Source 5	Off-Site Other	Nearby mine entry southwest of site, wider coal mining setting, onsite iron ore mining record and surrounding underground workings	Historical– present	Ground gas, mine-related contaminants, metals, sulphates, minewater impacts and unforeseen ground instability

Potential Receptors

Relevant potential receptors are considered to include:

Future site users associated with the proposed equestrian development, including stable users, visitors and maintenance workers.

Construction and groundworks workers during intrusive works and soil disturbance.

Adjacent residential receptors further northeast and southwest of the site.

Built environment including the proposed stable building, concrete yard, menage, onsite drainage features and nearby infrastructure associated with the A4067.

Ecological receptors including nearby ancient woodland.

Surface water and groundwater receptors, including the onsite drain, nearby Afon Tawe approximately 350m southeast, superficial Alluvium and Glaciofluvial Deposits designated Secondary A Aquifers, and underlying South Wales Upper Coal Measures bedrock also designated as a Secondary A Aquifer.

Local infrastructure including roads, drainage networks, pylons and nearby utilities.

Potential Pathways

The potential pathways are considered to be:

Direct contact with, ingestion of, or inhalation of contaminated soils or dust during intrusive groundworks.

Inhalation of dusts and airborne particulates generated during construction activities.

Migration of contaminants through permeable superficial deposits and fractured bedrock strata.

Leaching of contaminants into Secondary A aquifers and potential lateral migration toward nearby surface water features.

Surface water runoff transporting sediments or contaminants to the onsite drain and Afon Tawe.

Migration of ground gas or mine-related gases from surrounding historical mining features.

Windblown dust dispersal to adjacent agricultural site.

Handling, excavation and disposal of any unforeseen Made Ground or contaminated materials encountered during development works.

Pollutant Linkage Assessment

Source	Pathway	Receptor	Potential Contaminants	Consequence	Probability	Risk Level	Justification & Mitigation	Further Assessment / Recommendations
On-site: undeveloped agricultural land, grassland and onsite drain	Direct contact, ingestion and inhalation of soils and dust during intrusive works	Construction workers; future equestrian site users	Low-level naturally occurring metals and background contaminants	Minor short-term exposure during construction works	Very low	Low	Historical mapping identifies no significant industrial or contaminative activities on-site; current land use remains predominantly open and vegetated	No further assessment required unless unforeseen materials are encountered during works
On-site: small timber and vegetation debris pile	Handling of materials, direct contact and dust generation	Construction workers	Minor organic contaminants, sharp debris, localised surface contamination	Minor and localised short-term effects	Low	Low	Debris appears limited in extent and associated with vegetation management rather than waste disposal activities	Removal during site preparation and surface stripping works.
Off-site: former pits, collieries, ground workings and historical landfill within surrounding area	Lateral migration through permeable superficial deposits and groundwater; migration of ground gas	Construction workers; controlled waters; built environment	Metals, PAHs, hydrocarbons, sulphates, mine-related contaminants, leachate, ground gas	Potential localised contamination or ground gas impacts	Low	Low	Historical mining features are present in the wider area and the permeable sand and gravel superficial deposits provide a potential migration pathway; however, no evidence of contamination migration or significant Made Ground on-site	Ground conditions should be monitored during excavation works; unexpected contamination should be assessed if encountered

Off-site: nearby mine entry, iron ore mining record and surrounding underground workings	Ground gas migration and unforeseen ground instability	Construction workers; future site users; proposed structures and infrastructure	Ground gas, mine-related contaminants, sulphates	Potential for localised ground gas ingress or unforeseen ground conditions affecting foundations during construction	Low	Low-Moderate	Mining features are associated with the wider historical setting; open, ventilated design of stable building mitigates risk from ground gas. Mine entry adjacent to site may warrant further investigation.	A Coal Mining Risk Assessment (CMRA) may be required.
Off-site: surrounding residential, agricultural and limited commercial land uses along Graig Road and A4067	Surface runoff, dust transport and limited groundwater migration	Adjacent residential receptors; surface water receptors	Hydrocarbons, oils, metals, fuels and minor industrial residues	Negligible to minor off-site impact	Very low	Low	Surrounding land uses are low intensity and spatially separated from the site; no significant pollution incidents recorded in the area	No further assessment required

The site presents a low-risk conceptual pollutant linkage scenario consistent with its long-established use as undeveloped agricultural land with limited localised disturbance associated with vegetation management activities. No significant contaminative land uses have been identified on-site, and surrounding historical mining and landfill features are considered unlikely to present significant contamination risks to the proposed equestrian development.

Identified pathways are primarily associated with construction-phase ground disturbance and are considered manageable through standard good practice measures in accordance with BS10175 and LCRM guidance. The site is underlain by permeable superficial deposits and Secondary A aquifers, with an onsite drain and the Afon Tawe approximately 350m southeast increasing the sensitivity of controlled waters; however, no significant on-site contaminant sources have been identified.

No abnormal contamination mitigation measures are considered necessary for the proposed development.

Conclusions and Recommendations

Land Contamination Summary

Uncertainty and Data Gaps	Assessment is based on desk study data (Groundsure, BGS, OS mapping), regulatory records, and site walkover. No intrusive investigation has been undertaken, so uncertainty remains regarding subsurface conditions, particularly in relation to historical mining influences. A Coal Mining Risk Assessment (CMRA) may be required to further refine mining-related risk.
Soils	Site soils are expected to comprise predominantly natural Alluvium and Glaciofluvial Deposits, with limited anthropogenic material associated with the access track. Potential contaminants are considered low and may include naturally occurring metals and minor hydrocarbons or PAHs. Risk to construction workers is low with standard PPE and dust control measures, and risk to future equestrian users is very low due to limited exposure and soft-landscaped end use.
Groundwater	The site is underlain by Secondary A aquifers with locally high permeability, and an onsite drain with proximity to the Afon Tawe increases controlled water sensitivity. No significant on-site contamination sources have been identified, and overall risk to groundwater and surface water is considered low. Standard construction pollution prevention measures are required to prevent sediment or hydrocarbon mobilisation.
Ground Gas	The wider coal mining context and nearby mine entries introduce a potential, but low, risk of mine gas (methane and carbon dioxide). No direct evidence of significant Made Ground or landfill-derived gas sources is present on-site. Ground gas risk is considered very low to low, with no requirement for full gas protection measures anticipated at this stage.
Volatile Organic Vapours	No significant VOC sources have been identified on-site or in the immediate surrounding area. Given the greenfield nature of the site and absence of industrial land use, the risk from vapour intrusion is considered very low. No specific mitigation or investigation is required.
Ground Stability/Mining Legacy	Coal Authority screening confirms the site is outside a Development High Risk Area. A recorded mine entry is located adjacent to the southwest, however the proposal comprises a lightweight ventilated stable block with shallow foundations and limited ground disturbance. On this basis, interaction with historic mining features is considered unlikely and a standalone Coal Mining Risk Assessment is not required, with Coal Authority screening information considered sufficient to inform the proposal.
Potential Contaminated Land Development Risks	The site presents a low overall contamination risk consistent with long-term agricultural/undeveloped land use. Identified risks are primarily construction-phase related (dust, minor Made Ground disturbance, and potential mining legacy influences). No significant pollutant linkages have been confirmed. The site is considered suitable for the proposed equestrian development subject to standard mitigation and verification during groundworks.

Recommendations and Development

Ground Investigation Recommendations	Based on the outcome of the Preliminary Risk Assessment, a Phase 2 intrusive investigation is not considered necessary for the proposed equestrian development. The site is assessed as low risk, reflecting its long-term agricultural/undeveloped use and lack of significant on-site contaminative sources. Any risks are limited to minor Made Ground within the access track and temporary disturbance of natural soils during construction. Standard construction good practice should be adopted, including dust suppression, appropriate handling of excavated materials, PPE for site workers, and pollution prevention measures to protect controlled waters. Should any unexpected contamination or unusual ground conditions be encountered, works should cease in the affected area and materials be assessed and managed appropriately by a competent person in accordance with relevant guidance and legislation. Subject to these measures, the site is considered suitable for the proposed development without further investigation at this stage.
Development Considerations	Health and Safety: Construction and groundworks activities associated with the proposed equestrian development present a low risk. Standard construction health and safety procedures, including appropriate PPE (gloves, protective footwear, eye protection and dust masks where necessary), dust suppression during earthworks, and good site hygiene practices are sufficient. No specific UXO mitigation measures are required due to the low risk classification. Mitigation Measures: No specific remediation or engineered gas protection measures are considered necessary for the proposed development at this stage. Material Management: Any soils or materials generated during construction should be appropriately managed in accordance with current waste legislation and best practice guidance. Excavated soils should be visually assessed during works and classified for reuse or disposal as appropriate. Imported materials should be verified as suitable for equestrian land use and free from contamination. Ecology and Controlled Waters: No significant pollutant linkages have been identified to ecological receptors, including nearby ancient woodland and the Swansea Canal Local Nature Reserve. Controlled waters, including the onsite drain and Afon Tawe, are considered low risk with standard construction pollution prevention measures in place.

Appendices

Appendix 1: Risk Evaluation

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Appendix 5: Zetica UXO Mapping

Appendix 6: Development Plans

Appendix 7: Document Production Record

If you require clarification of the information contained herein, please do not hesitate to contact us via 01244 661170.

Yours Sincerely,

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Geo-Environmental Manager

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Appendix 1: Risk Evaluation

PRINCIPLES OF RISK EVALUATION

The risk evaluation methodology presented below is qualitative in nature and is therefore a subjective method. It is based upon guidance presented in CIRIA publication referenced C552, 'Contaminated land risk assessment ~ A guide to good practice', 2001 and involves the classification of the following:

The magnitude of the potential consequence (severity) of risk occurring

The magnitude of the probability (likelihood) of the risk occurring

These are then considered in conjunction to give a risk matrix

Consequence to Receptor Definition Matrix

	Human Health	Controlled Waters	Buildings/Services
Severe Consequence	Acute or chronic permanent impact on human health.	Sensitive controlled water pollution ongoing, or just about to occur.	Catastrophic collapse
Medium Consequence	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
Mild Consequence	Chronic temporary impact on human health	Gradual pollution of non-sensitive controlled water	Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor Consequence	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc).	Slight discoloration of water	Easily repairable effects of damage to buildings, structures and services, i.e. discoloration of concrete

Probability Definitions

Probability	Definition in Context
Higher	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution. Positive evidence of source, pathway and receptor.
Likely	There is a pollution linkage, and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. Suspect source, pathway, and receptor
Low Likelihood	There is a pollution linkage, and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term. No evidence of hazard, pathway, and receptor

Standard Risk Matrix

		Consequence/Magnitude of impact			
		Severe	Medium	Mild	Minor
Probability	High	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/low	Low
	Low Likelihood	Moderate	Moderate/low	Low	Very Low
	Unlikely	Moderate/low	Low	Very Low	Very Low

Classified risks and likely action

Significance Level	Definition/Comments
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. Demonstrable contaminated land situation, highest threat & liability level, urgent action recommended.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term. Likely contaminated land situation, risk assessment and action recommended.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, if it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. Plausible contaminated land situation, risk assessment and possible action recommended.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Unlikely contaminated land situation, possible risk assessment and possible action.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe. Negligible risk, no action recommended except vigilance for changes in conditions.

Appendix 2: Site Photographs

Site Walkover Photos

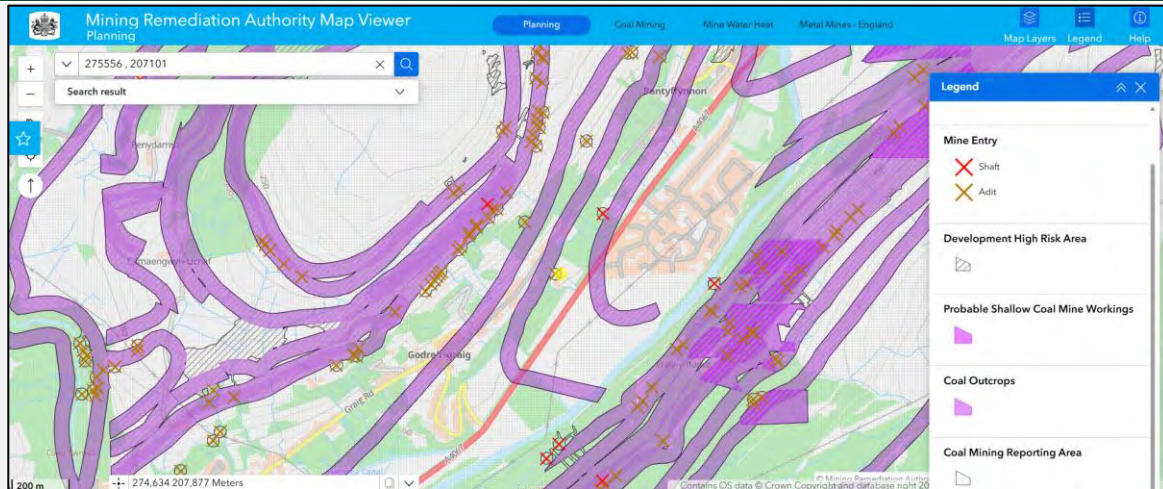


Plate 1 – Interactive Coal Authority Mapping showing the site is adjacent to, but outside of a Development High Risk Area for Probable Shallow Coal Mining with a Mine Entry.



Plate 2: Facing the site entrance from the A4067.



Plate 3: Site access from the A4067.

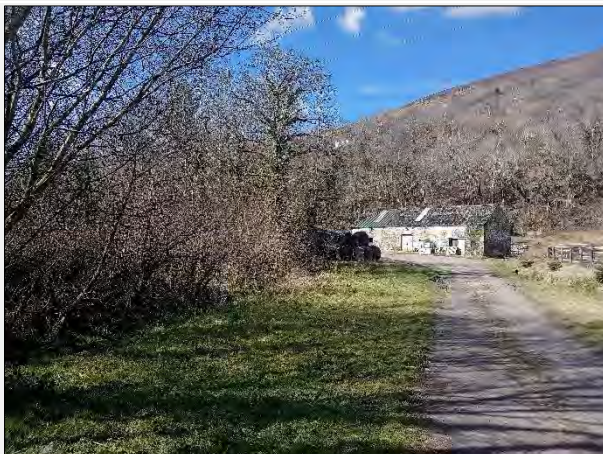


Plate 4: Facing northwest up the access track.



Plate 5: Scrub area to the southeast of the specific site area.



Plate 6: Facing northwest to the fenced area south of the site area.



Plate 7: Close up of the access track.



Plate 8: Facing northeast towards the site area.



Plate 9: Facing the north area of the site, noting an area of bare/excavated soil.



Plate 10: Debris pile of mixed timber and wood cuttings.



Plate 11: Facing northeast over scrub currently present on site, noting the small unvegetated area in the foreground.



Plate 12: Scrub towards the north site boundary.



Plate 13: Facing southwest over the site area.

Appendix 3: Groundsure Enviro + Geo Insight

Cwntawe Ganol Farm, Godrergraig, Swansea Valley, Glamorgan, SA9 2NX

Order Details

Date: 21/05/2026
Your ref: Cwntawe Ganol Farm SA9 2NX 38902218
Our Ref: GS-1ZE-51W-W1W-NXI

Site Details

Location: 275574 207117
Area: 0.25 ha
Authority: [Castell-nedd Port Talbot - Neath Port Talbot County Borough](#) ↗

Site plan



Quick Links

[Summary of findings](#) [p. 2 >](#)
[OS MasterMap site plan](#) [p.14 >](#)
[Aerial image](#) [p. 9 >](#)

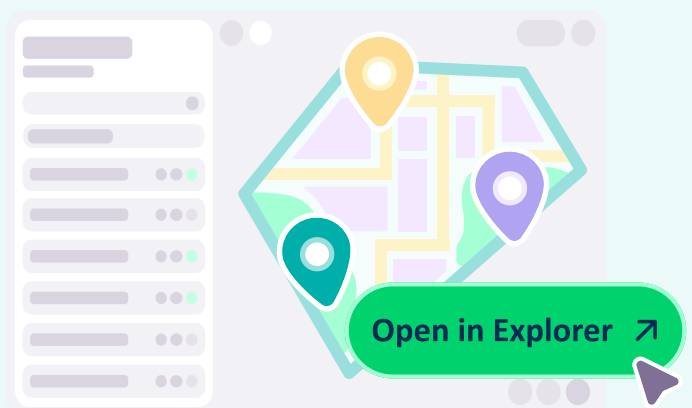
[Insight User Guide](#) ↗

Open this site in Explorer!

Access the data now in our interactive workspace.

- Map and interpret 130+ datasets across 170 years
- Generate insights and visuals quickly
- Revisit and collaborate with your team

Access to Groundsure Explorer requires an Insights account.
12 months access begins at purchase.



Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	2	46	137	-
22 >	1.2 >	Historical tanks >	0	0	0	12	-
23 >	1.3 >	Historical energy features >	0	0	0	1	-
23	1.4	Historical petrol stations	0	0	0	0	-
24	1.5	Historical garages	0	0	0	0	-
24	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
25 >	2.1 >	Historical industrial land uses >	0	3	69	215	-
36 >	2.2 >	Historical tanks >	0	0	0	13	-
37 >	2.3 >	Historical energy features >	0	0	0	1	-
37	2.4	Historical petrol stations	0	0	0	0	-
37	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
39	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
39 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
39	3.5	Historical waste sites	0	0	0	0	-
39	3.6	Licensed waste sites	0	0	0	0	-
40 >	3.7 >	Waste exemptions >	0	0	0	1	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
41 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
42	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
42	4.3	Current or recent petrol stations	0	0	0	0	-
42	4.4	Electricity cables	0	0	0	0	-
42	4.5	Gas pipelines	0	0	0	0	-



42	4.6	Sites determined as Contaminated Land	0	0	0	0	-
43	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
43	4.8	Regulated explosive sites	0	0	0	0	-
43	4.9	Hazardous substance storage/usage	0	0	0	0	-
43	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
43	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
44	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
44	4.13	Radioactive Substance Authorisations	0	0	0	0	-
44 >	4.14 >	<u>Licensed Discharges to controlled waters ></u>	0	0	0	3	-
45	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
45	4.16	Pollutant release to public sewer	0	0	0	0	-
45	4.17	List 1 Dangerous Substances	0	0	0	0	-
45 >	4.18 >	<u>List 2 Dangerous Substances ></u>	0	0	0	1	-
45	4.19	Pollution Incidents (EA/NRW)	0	0	0	0	-
46	4.20	Pollution inventory substances	0	0	0	0	-
46	4.21	Pollution inventory waste transfers	0	0	0	0	-
46	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
47 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
48 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
49 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
50	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
50	5.5	Groundwater vulnerability- local information	None (within 0m)				
51 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	1
52 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	8
54	5.8	Potable abstractions	0	0	0	0	0
54	5.9	Source Protection Zones	0	0	0	0	-
54	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m

55 >	6.1 >	Water Network (OS NGD) >	3	16	34	-	-
60 >	6.2 >	Surface water features >	1	8	18	-	-
60 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
60 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
61 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
62 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
63 >	7.2 >	Historical Flood Events >	0	0	1	-	-
63	7.3	Flood Defences	0	0	0	-	-
63 >	7.4 >	Areas Benefiting from Flood Defences >	0	1	0	-	-
64	7.5	Flood Storage Areas	0	0	0	-	-
65 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
66 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
67 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
69 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	5
71	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
71	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
71	10.4	Special Protection Areas (SPA)	0	0	0	0	0
72	10.5	National Nature Reserves (NNR)	0	0	0	0	0
72 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
72 >	10.7 >	Designated Ancient Woodland >	0	0	0	2	34
74	10.8	Biosphere Reserves	0	0	0	0	0
74	10.9	Forest Parks	0	0	0	0	0
74	10.10	Marine Conservation Zones	0	0	0	0	0
74	10.11	Green Belt	0	0	0	0	0



75	10.12	Proposed Ramsar sites	0	0	0	0	0
75	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
75	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
75	10.15	Nitrate Sensitive Areas	0	0	0	0	0
76	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
77	10.17	SSSI Impact Risk Zones	0	-	-	-	-
77	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
78	11.1	World Heritage Sites	0	0	0	-	-
79	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
79	11.3	National Parks	0	0	0	-	-
79	11.4	Listed Buildings	0	0	0	-	-
79	11.5	Conservation Areas	0	0	0	-	-
80 >	11.6 >	Scheduled Ancient Monuments >	0	0	1	-	-
80	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
81 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
82 >	12.2 >	Open Access Land >	0	0	1	-	-
82	12.3	Tree Felling Licences	0	0	0	-	-
82	12.4	Environmental Stewardship Schemes	0	0	0	-	-
83	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
84	13.1	Priority Habitat Inventory	0	0	0	-	-
84	13.2	Habitat Networks	0	0	0	-	-
84	13.3	Open Mosaic Habitat	0	0	0	-	-
84	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
85 >	14.1 >	10k Availability >	Identified (within 500m)				
86 >	14.2 >	Artificial and made ground (10k) >	0	0	3	4	-

88 >	14.3 >	Superficial geology (10k) >	2	0	1	3	-
89 >	14.4 >	Landslip (10k) >	0	0	1	0	-
90 >	14.5 >	Bedrock geology (10k) >	2	1	4	10	-
91 >	14.6 >	Bedrock faults and other linear features (10k) >	1	2	6	21	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
93 >	15.1 >	50k Availability >	Identified (within 500m)				
94 >	15.2 >	Artificial and made ground (50k) >	0	0	1	2	-
95	15.3	Artificial ground permeability (50k)	0	0	-	-	-
96 >	15.4 >	Superficial geology (50k) >	2	0	0	2	-
97 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
97 >	15.6 >	Landslip (50k) >	0	0	1	0	-
97	15.7	Landslip permeability (50k)	None (within 50m)				
98 >	15.8 >	Bedrock geology (50k) >	3	0	2	4	-
99 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
99 >	15.10 >	Bedrock faults and other linear features (50k) >	2	1	3	8	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
101 >	16.1 >	BGS Boreholes >	0	0	1	-	-
Page	Section	Natural ground subsidence >					
102 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
104 >	17.2 >	Running sands >	Low (within 50m)				
106 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
108 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
109 >	17.5 >	Landslides >	Moderate (within 50m)				
111 >	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
113 >	18.1 >	BritPits >	0	1	2	16	-
120 >	18.2 >	Surface ground workings >	0	11	63	-	-
123 >	18.3 >	Underground workings >	0	0	10	55	113
130	18.4	Underground mining extents	0	0	0	0	-



130	18.5	Historical Mineral Planning Areas	0	0	0	0	-
130 >	18.6 >	Non-coal mining >	1	0	1	1	1
131	18.7	JPB mining areas	None (within 0m)				
131	18.8	The Coal Authority non-coal mining	0	0	0	0	-
131	18.9	Researched mining	0	0	0	0	-
132	18.10	Mining record office plans	0	0	0	0	-
132	18.11	BGS mine plans	0	0	0	0	-
132 >	18.12 >	Coal mining >	Identified (within 0m)				
132	18.13	Brine areas	None (within 0m)				
133	18.14	Gypsum areas	None (within 0m)				
133	18.15	Tin mining	None (within 0m)				
133	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
134	19.1	Natural cavities	0	0	0	0	-
135 >	19.2 >	Mining cavities >	0	0	1	0	0
135	19.3	Reported recent incidents	0	0	0	0	-
135	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
136 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
138 >	21.1 >	BGS Estimated Background Soil Chemistry >	4	2	-	-	-
138	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
139	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
140	22.1	Underground railways (London)	0	0	0	-	-
140	22.2	Underground railways (Non-London)	0	0	0	-	-
141	22.3	Railway tunnels	0	0	0	-	-
141 >	22.4 >	Historical railway and tunnel features >	0	0	6	-	-
141	22.5	Royal Mail tunnels	0	0	0	-	-

142	22.6	Historical railways	0	0	0	-	-
142	22.7	Railways	0	0	0	-	-
142	22.8	Crossrail 2	0	0	0	0	-
142	22.9	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 08/04/2023

Site Area: 0.25ha



Recent site history - 2020 aerial photograph



Capture Date: 14/04/2020

Site Area: 0.25ha



Recent site history - 2014 aerial photograph



Capture Date: 23/07/2014

Site Area: 0.25ha



Recent site history - 2009 aerial photograph



Capture Date: 13/09/2009

Site Area: 0.25ha



Recent site history - 2000 aerial photograph



Capture Date: 18/06/2000

Site Area: 0.25ha



This map shows the Cwm-tawe-ganol area, featuring a red-outlined polygon and several drains. The map includes labels for 'Issues', 'Ford', 'Drain', 'Path (um)', and 'Cwm-tawe-ganol'. A north arrow is in the top right corner.

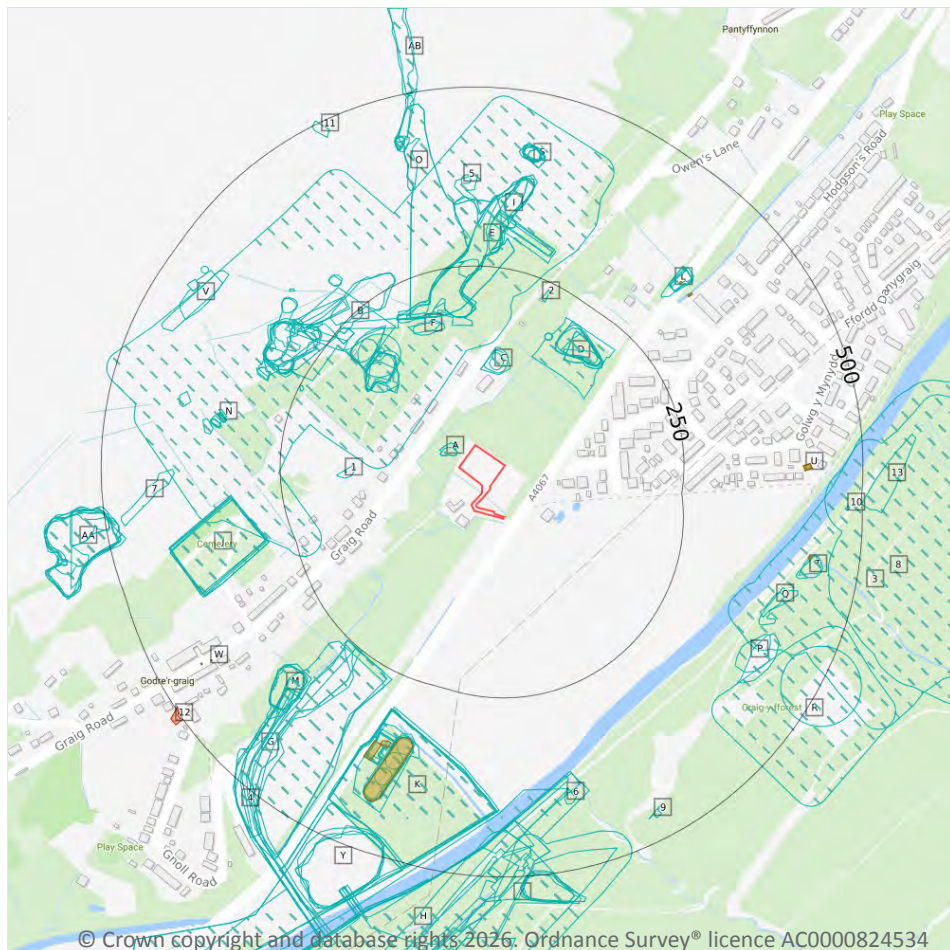
Key features on the map include:

- Red-outlined polygon:** A large, irregularly shaped area outlined in red, located in the center of the map.
- Drains:** Several blue lines labeled 'Drain' are visible, including one in the top left, one in the middle left, one in the middle right, and one in the bottom right.
- Path (um):** A dashed line labeled 'Path (um)' runs diagonally across the map.
- Contour lines:** Black lines with numerical labels (12.5, 25, 88.1m) indicating elevation.
- Other labels:** 'Issues' (top left), 'Ford' (middle left), and 'Cwm-tawe-ganol' (center).
- North arrow:** Located in the top right corner, pointing upwards.

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1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

185

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 15](#) >

ID	Location	Land use	Dates present	Group ID
A	14m NW	Unspecified Pit	1897	278187



ID	Location	Land use	Dates present	Group ID
A	14m NW	Unspecified Ground Workings	1913 - 1921	311481
B	82m NW	Colliery	1948	315386
C	103m N	Unspecified Heap	1948	281731
C	105m N	Unspecified Heap	1913 - 1921	323072
C	108m N	Unspecified Heap	1948	286240
B	131m NW	Unspecified Quarry	1913	282283
B	135m NW	Unspecified Quarry	1948	286674
B	137m NW	Unspecified Disused Quarry	1983	267812
1	145m W	Unspecified Heap	1983	274438
D	145m NE	Unspecified Mine	1965 - 1983	327385
B	149m NW	Unspecified Quarry	1948	292517
B	150m NW	Unspecified Quarry	1921	286965
B	152m NW	Unspecified Quarry	1913	310300
B	154m NW	Old Coal Level	1913	309619
E	167m N	Unspecified Quarry	1948	263750
F	167m NW	Unspecified Heap	1877	274716
D	168m NE	Disused Coal Pit	1877	262236
D	168m NE	Unspecified Disused Pit	1921	298506
F	170m N	Unspecified Disused Level	1983	268763
D	172m NE	Unspecified Disused Pit	1913	323197
D	173m NE	Unspecified Disused Pit	1948	296943
D	176m NE	Unspecified Heap	1965 - 1983	296771
D	176m NE	Unspecified Disused Pit	1948	292300
D	177m NE	Unspecified Disused Pit	1897 - 1913	307351
D	178m NE	Unspecified Tank	1983	273323
D	178m NE	Chimney	1965 - 1980	323132
E	178m N	Unspecified Old Quarry	1913	311601
E	179m N	Unspecified Old Quarry	1948	298929



ID	Location	Land use	Dates present	Group ID
E	180m N	Unspecified Old Quarry	1913 - 1921	305345
E	180m N	Unspecified Ground Workings	1897	309104
B	181m NW	Old Coal Level	1921	290069
B	183m NW	Colliery	1948	320390
B	185m NW	Refuse Heap	1948 - 1980	326612
E	186m N	Unspecified Disused Quarry	1983	267813
E	186m N	Unspecified Ground Workings	1965 - 1980	316687
B	189m NW	Refuse Heap	1983	309734
B	189m NW	Refuse Heap	1948	327084
B	196m NW	Cuttings	1877	266107
2	222m NE	Smithy	1877	278756
B	227m NW	Railway Sidings	1948	285227
B	230m NW	Unspecified Mine	1983	275957
B	230m NW	Unspecified Disused Mine	1965 - 1980	288985
B	231m NW	Refuse Heap	1983	288589
B	232m NW	Refuse Heap	1948 - 1980	316773
E	234m N	Unspecified Heap	1980	274717
B	243m NW	Coal Level	1948	279830
B	245m NW	Unspecified Disused Quarries	1983	276454
G	252m SW	Railway Sidings	1948	319381
G	252m SW	Refuse Heap	1948	292864
G	254m SW	Refuse Heap	1948	315575
B	259m NW	Unspecified Disused Levels	1965 - 1980	310893
B	259m NW	Unspecified Old Quarries	1897 - 1913	295780
H	259m SW	Railway Sidings	1948	307020
B	259m NW	Railway Sidings	1948	308416
B	261m NW	Unspecified Old Quarries	1948	303658
G	262m SW	Refuse Heaps	1965 - 1983	281928



ID	Location	Land use	Dates present	Group ID
B	262m NW	Coal Level	1877	279829
B	264m NW	Unspecified Old Quarries	1921	294141
B	266m NW	Unspecified Ground Workings	1877	261709
I	270m N	Unspecified Heap	1913	282618
B	270m NW	Old Coal Level	1913	311302
B	272m NW	Coal Level	1948	286774
B	272m NW	Coal Level	1948	279828
I	273m N	Railway Sidings	1913	301883
I	283m N	Railway Sidings	1921	304879
I	283m N	Railway Sidings	1913	302761
J	285m W	Burial Ground	1921 - 1948	284298
J	285m W	Cemetery	1877	315046
J	286m W	Burial Ground	1948	311162
J	288m W	Burial Ground	1897 - 1913	283407
J	289m W	Cemetery	1965 - 1983	309971
B	290m NW	Unspecified Old Quarries	1948	291392
B	292m NW	Unspecified Disused Level	1983	287298
B	293m NW	Coal Level	1897 - 1913	326720
B	293m NW	Unspecified Disused Level	1965 - 1980	293171
B	293m NW	Disused Coal Level	1877	276241
B	293m NW	Coal Level	1948	279831
B	295m NW	Unspecified Old Quarries	1913	298693
K	296m S	Sewage Works	1921	290383
K	299m SW	Sewage Works	1913	319763
K	300m S	Sewage Works	1913	285869
K	301m SW	Sewage Works	1948	311031
K	302m S	Sewage Works	1948	317310
B	315m NW	Unspecified Pit	1983	278190



ID	Location	Land use	Dates present	Group ID
K	321m S	Unspecified Works	1965 - 1980	282046
L	321m NE	Sawmills	1897 - 1913	293997
I	322m N	Unspecified Heap	1948	311766
K	324m S	Unspecified Tanks	1913 - 1921	314824
M	326m SW	Unspecified Quarry	1921 - 1948	284085
K	328m S	Filter Beds	1913	286249
M	329m SW	Unspecified Quarry	1913	313058
K	331m S	Unspecified Tank	1948	273254
M	331m SW	Unspecified Quarry	1913	321154
K	331m SW	Filter Beds	1921	309802
M	331m SW	Unspecified Quarry	1948	311729
N	331m W	Coal Level	1948	297339
K	332m S	Filter Beds	1948	295077
B	332m NW	Coal Level	1921	279832
N	332m W	Coal Level	1913 - 1921	316751
K	332m S	Unspecified Tanks	1965 - 1980	305057
N	332m W	Coal Level	1913	297589
N	332m W	Coal Level	1897	303124
K	335m SW	Filter Beds	1913	307355
K	336m SW	Filter Beds	1948	293294
N	337m W	Old Coal Level	1948	328701
3	337m E	Disused Colliery	1948	301521
K	338m SW	Filter Beds	1948	316997
N	338m W	Old Coal Level	1913 - 1948	301219
N	338m W	Old Coal Level	1897 - 1913	314227
L	339m NE	Sawmills	1913	318097
L	340m NE	Sawmills	1948	323122
L	340m NE	Sawmills	1948	327883



ID	Location	Land use	Dates present	Group ID
L	342m NE	Sawmills	1921	299768
H	342m SW	Railway Sidings	1921	287562
N	348m W	Unspecified Disused Levels	1983	281524
K	355m S	Unspecified Tank	1948	273255
4	356m SW	Railway Sidings	1913	313329
H	357m SW	Railway Sidings	1913	288652
H	365m S	Railway Sidings	1897 - 1913	322813
5	366m N	Unspecified Heap	1965 - 1980	308209
O	366m N	Unspecified Ground Workings	1897	285406
P	378m SE	Unspecified Mine	1965 - 1980	283066
H	380m S	Railway Sidings	1965	308754
K	380m S	Unspecified Tank	1948	273256
Q	381m E	Old Coal Level	1921 - 1948	311085
Q	384m E	Coal Levels	1897 - 1913	296431
N	386m W	Unspecified Disused Levels	1983	281550
R	389m SE	Unspecified Mine	1983	292559
6	392m S	Unspecified Pit	1983	278059
P	393m SE	Unspecified Disused Tip	1983	264901
S	397m N	Unspecified Pit	1877	319472
S	397m N	Old Coal Levels	1921	323646
7	398m W	Unspecified Disused Levels	1965 - 1983	302342
K	404m S	Unspecified Tank	1948	273257
S	404m N	Old Coal Levels	1913	293382
S	404m N	Old Coal Levels	1897 - 1913	283960
S	405m N	Unspecified Pit	1965 - 1980	284529
S	405m N	Old Coal Levels	1948	300612
S	406m N	Old Coal Levels	1948	311411
S	407m N	Unspecified Disused Level	1983	268764



ID	Location	Land use	Dates present	Group ID
T	416m E	Coal Levels	1897 - 1913	315125
V	418m NW	Refuse Heap	1965 - 1980	326552
V	418m NW	Unspecified Disused Tip	1983	264919
T	419m E	Unspecified Ground Workings	1921	261551
H	421m S	Colliery	1948	286685
O	422m N	Old Coal Levels	1913	306580
O	425m N	Old Coal Levels	1948	302410
O	425m N	Old Coal Levels	1948	322930
O	426m N	Old Coal Levels	1897 - 1913	301084
H	432m S	Unspecified Quarry	1948	263622
H	432m S	Railway Sidings	1948	285464
O	436m N	Old Coal Levels	1921	296112
X	436m S	Colliery	1913	299150
V	442m NW	Unspecified Mine	1965 - 1980	324197
V	445m NW	Unspecified Disused Level	1983	268767
R	445m SE	Old Coal Level	1921	262046
8	448m E	Colliery	1921	319147
Y	454m SW	Unspecified Ground Workings	1983	260819
Y	454m SW	Refuse Heaps	1965 - 1980	322755
9	457m SE	Unspecified Disused Level	1965 - 1980	298066
H	458m S	Colliery	1913	305086
Z	469m S	Refuse Heap	1948	301326
Z	473m S	Refuse Heap	1913	314541
Z	474m S	Refuse Heap	1913 - 1921	315641
X	475m S	Colliery	1921	300249
AA	476m W	Unspecified Ground Workings	1877	261519
10	476m E	Railway Building	1948	280263
Z	476m S	Refuse Heap	1948	292130



ID	Location	Land use	Dates present	Group ID
11	477m NW	Unspecified Disused Levels	1965 - 1983	295790
AA	480m W	Unspecified Old Quarry	1913 - 1921	314140
AA	482m W	Unspecified Old Quarry	1897	323451
AA	483m W	Unspecified Old Quarry	1948	303907
AA	485m W	Unspecified Old Quarry	1913	283217
X	487m S	Railway Building	1913 - 1921	296900
AA	488m W	Unspecified Old Quarry	1948	295629
X	493m S	Unspecified Heaps	1913	284179
AA	494m W	Unspecified Disused Quarry	1983	267698
AA	495m W	Unspecified Disused Levels	1965 - 1980	281973
AB	495m N	Unspecified Disused Level	1965 - 1983	321406
X	496m S	Unspecified Heap	1913 - 1921	328885
X	498m S	Unspecified Heap	1948	320533
AB	499m N	Unspecified Ground Workings	1897 - 1913	304948
13	499m E	Unspecified Disused Pit	1897	276129
X	499m S	Unspecified Heaps	1948	297810

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m

12

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
K	331m S	Tanks	1962	36069
K	343m S	Tanks	1918	35865



ID	Location	Land use	Dates present	Group ID
L	348m NE	Unspecified Tank	1918	37308
K	349m SW	Tanks	1918	35864
L	351m NE	Unspecified Tank	1962	37342
L	353m NE	Unspecified Tank	1877	35129
U	417m E	Unspecified Tank	1963 - 1993	36814
U	417m E	Unspecified Tank	-	34286
U	417m E	Unspecified Tank	-	34287
W	421m SW	Tank or Trough	1877	36240
T	428m E	Unspecified Tank	1918	35124
W	435m SW	Tank or Trough	1877	36241

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
12	497m SW	Electricity Substation	1993	19303

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

287

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 25](#) >

ID	Location	Land Use	Date	Group ID
A	14m NW	Unspecified Ground Workings	1913	311481
A	14m NW	Unspecified Pit	1897	278187
A	19m NW	Unspecified Ground Workings	1921	311481



ID	Location	Land Use	Date	Group ID
B	82m NW	Colliery	1948	315386
C	103m N	Unspecified Heap	1948	281731
C	105m N	Unspecified Heap	1913	323072
C	108m N	Unspecified Heap	1948	286240
C	108m N	Unspecified Heap	1948	286240
C	109m N	Unspecified Heap	1921	323072
B	131m NW	Unspecified Quarry	1913	282283
B	135m NW	Unspecified Quarry	1948	286674
B	137m NW	Unspecified Disused Quarry	1983	267812
1	145m W	Unspecified Heap	1983	274438
D	145m NE	Unspecified Mine	1965	327385
D	145m NE	Unspecified Mine	1980	327385
D	145m NE	Unspecified Mine	1983	327385
B	149m NW	Unspecified Quarry	1948	292517
B	150m NW	Unspecified Quarry	1921	286965
B	152m NW	Unspecified Quarry	1913	310300
B	152m NW	Unspecified Quarry	1913	310300
B	154m NW	Old Coal Level	1913	309619
E	167m N	Unspecified Quarry	1948	263750
F	167m NW	Unspecified Heap	1877	274716
D	168m NE	Unspecified Disused Pit	1921	298506
D	168m NE	Disused Coal Pit	1877	262236
F	170m N	Unspecified Disused Level	1983	268763
D	172m NE	Unspecified Disused Pit	1913	323197
D	172m NE	Unspecified Disused Pit	1913	323197
D	173m NE	Unspecified Disused Pit	1948	296943
D	176m NE	Unspecified Heap	1965	296771
D	176m NE	Unspecified Heap	1980	296771



ID	Location	Land Use	Date	Group ID
D	176m NE	Unspecified Heap	1983	296771
D	176m NE	Unspecified Disused Pit	1948	292300
D	176m NE	Unspecified Disused Pit	1948	292300
D	177m NE	Unspecified Disused Pit	1913	307351
D	177m NE	Unspecified Disused Pit	1897	307351
D	178m NE	Chimney	1965	323132
D	178m NE	Chimney	1980	323132
D	178m NE	Unspecified Tank	1983	273323
E	178m N	Unspecified Old Quarry	1913	311601
E	178m N	Unspecified Old Quarry	1913	311601
E	179m N	Unspecified Old Quarry	1948	298929
E	180m N	Unspecified Ground Workings	1897	309104
E	180m N	Unspecified Old Quarry	1913	305345
B	181m NW	Old Coal Level	1921	290069
B	183m NW	Colliery	1948	320390
B	183m NW	Colliery	1948	320390
E	185m N	Unspecified Old Quarry	1921	305345
B	185m NW	Refuse Heap	1965	326612
B	185m NW	Refuse Heap	1980	326612
E	186m N	Unspecified Disused Quarry	1983	267813
E	186m N	Unspecified Ground Workings	1965	316687
E	186m N	Unspecified Ground Workings	1980	316687
B	189m NW	Refuse Heap	1983	309734
B	189m NW	Refuse Heap	1948	327084
B	193m NW	Refuse Heap	1948	326612
B	193m NW	Refuse Heap	1948	326612
B	196m NW	Cuttings	1877	266107
2	222m NE	Smithy	1877	278756



ID	Location	Land Use	Date	Group ID
B	227m NW	Railway Sidings	1948	285227
B	230m NW	Unspecified Disused Mine	1965	288985
B	230m NW	Unspecified Disused Mine	1980	288985
B	230m NW	Unspecified Mine	1983	275957
B	231m NW	Refuse Heap	1983	288589
B	232m NW	Refuse Heap	1965	316773
B	232m NW	Refuse Heap	1980	316773
E	234m N	Unspecified Heap	1980	274717
B	237m NW	Railway Sidings	1948	285227
B	239m NW	Refuse Heap	1948	316773
B	239m NW	Refuse Heap	1948	316773
B	243m NW	Coal Level	1948	279830
B	245m NW	Unspecified Disused Quarries	1983	276454
G	252m SW	Railway Sidings	1948	319381
G	252m SW	Refuse Heap	1948	292864
G	254m SW	Refuse Heap	1948	315575
G	254m SW	Refuse Heap	1948	315575
B	259m NW	Unspecified Disused Levels	1965	310893
B	259m NW	Unspecified Disused Levels	1980	310893
B	259m NW	Unspecified Old Quarries	1913	295780
B	259m NW	Unspecified Old Quarries	1897	295780
H	259m SW	Railway Sidings	1948	307020
B	259m NW	Railway Sidings	1948	308416
B	260m NW	Unspecified Old Quarries	1913	295780
B	260m NW	Unspecified Old Quarries	1913	295780
B	261m NW	Unspecified Old Quarries	1948	303658
G	262m SW	Refuse Heaps	1965	281928
G	262m SW	Refuse Heaps	1980	281928



ID	Location	Land Use	Date	Group ID
G	262m SW	Refuse Heaps	1983	281928
B	262m NW	Coal Level	1877	279829
B	264m NW	Unspecified Old Quarries	1921	294141
B	266m NW	Unspecified Ground Workings	1877	261709
I	270m N	Unspecified Heap	1913	282618
I	270m N	Unspecified Heap	1913	282618
B	270m NW	Old Coal Level	1913	311302
B	270m NW	Old Coal Level	1913	311302
B	272m NW	Coal Level	1948	286774
B	272m NW	Coal Level	1948	286774
B	272m NW	Coal Level	1948	279828
I	273m N	Railway Sidings	1913	301883
I	283m N	Railway Sidings	1921	304879
I	283m N	Railway Sidings	1913	302761
I	283m N	Railway Sidings	1913	302761
J	285m W	Burial Ground	1921	284298
J	285m W	Cemetery	1877	315046
J	286m W	Burial Ground	1948	311162
J	287m W	Burial Ground	1948	284298
J	288m W	Burial Ground	1913	283407
J	288m W	Burial Ground	1913	283407
J	289m W	Burial Ground	1913	283407
J	289m W	Burial Ground	1897	283407
J	289m W	Cemetery	1965	309971
J	289m W	Cemetery	1980	309971
J	289m W	Cemetery	1983	309971
B	290m NW	Unspecified Old Quarries	1948	291392
B	292m NW	Unspecified Disused Level	1983	287298



ID	Location	Land Use	Date	Group ID
B	293m NW	Coal Level	1913	326720
B	293m NW	Coal Level	1913	326720
B	293m NW	Unspecified Disused Level	1965	293171
B	293m NW	Unspecified Disused Level	1980	293171
B	293m NW	Disused Coal Level	1877	276241
B	293m NW	Coal Level	1948	279831
B	295m NW	Coal Level	1913	326720
B	295m NW	Coal Level	1897	326720
B	295m NW	Unspecified Old Quarries	1913	298693
K	296m S	Sewage Works	1921	290383
K	299m SW	Sewage Works	1913	319763
K	299m SW	Sewage Works	1913	319763
K	300m S	Sewage Works	1913	285869
K	301m SW	Sewage Works	1948	311031
K	302m S	Sewage Works	1948	317310
K	302m S	Sewage Works	1948	317310
B	315m NW	Unspecified Pit	1983	278190
K	321m S	Unspecified Works	1965	282046
K	321m S	Unspecified Works	1980	282046
L	321m NE	Sawmills	1913	293997
L	321m NE	Sawmills	1897	293997
I	322m N	Unspecified Heap	1948	311766
K	324m S	Unspecified Tanks	1921	314824
M	326m SW	Unspecified Quarry	1921	284085
K	328m S	Filter Beds	1913	286249
K	328m S	Filter Beds	1913	286249
K	329m S	Unspecified Tanks	1913	314824
M	329m SW	Unspecified Quarry	1948	284085



ID	Location	Land Use	Date	Group ID
M	329m SW	Unspecified Quarry	1913	313058
M	329m SW	Unspecified Quarry	1913	313058
K	331m S	Unspecified Tank	1948	273254
M	331m SW	Unspecified Quarry	1913	321154
K	331m SW	Filter Beds	1921	309802
M	331m SW	Unspecified Quarry	1948	311729
N	331m W	Coal Level	1948	297339
N	331m W	Coal Level	1948	297339
K	332m S	Filter Beds	1948	295077
K	332m S	Filter Beds	1948	295077
B	332m NW	Coal Level	1921	279832
N	332m W	Coal Level	1948	297339
N	332m W	Coal Level	1921	316751
K	332m S	Unspecified Tanks	1965	305057
K	332m S	Unspecified Tanks	1980	305057
N	332m W	Coal Level	1913	316751
N	332m W	Coal Level	1913	316751
N	332m W	Coal Level	1913	297589
N	332m W	Coal Level	1897	303124
K	335m SW	Filter Beds	1913	307355
K	336m SW	Filter Beds	1948	293294
N	337m W	Old Coal Level	1948	328701
3	337m E	Disused Colliery	1948	301521
K	338m SW	Filter Beds	1948	316997
K	338m SW	Filter Beds	1948	316997
N	338m W	Old Coal Level	1921	301219
N	338m W	Old Coal Level	1913	314227
N	338m W	Old Coal Level	1897	314227



ID	Location	Land Use	Date	Group ID
N	339m W	Old Coal Level	1948	301219
N	339m W	Old Coal Level	1948	301219
L	339m NE	Sawmills	1913	318097
L	339m NE	Sawmills	1913	318097
N	340m W	Old Coal Level	1913	301219
N	340m W	Old Coal Level	1913	301219
L	340m NE	Sawmills	1948	323122
L	340m NE	Sawmills	1948	327883
L	342m NE	Sawmills	1921	299768
H	342m SW	Railway Sidings	1921	287562
N	348m W	Unspecified Disused Levels	1983	281524
K	355m S	Unspecified Tank	1948	273255
4	356m SW	Railway Sidings	1913	313329
H	357m SW	Railway Sidings	1913	288652
H	357m SW	Railway Sidings	1913	288652
H	365m S	Railway Sidings	1913	322813
O	366m N	Unspecified Heap	1965	308209
O	366m N	Unspecified Heap	1980	308209
P	366m N	Unspecified Ground Workings	1897	285406
Q	378m SE	Unspecified Mine	1965	283066
Q	378m SE	Unspecified Mine	1980	283066
H	380m S	Railway Sidings	1965	308754
K	380m S	Unspecified Tank	1948	273256
R	381m E	Old Coal Level	1948	311085
R	384m E	Coal Levels	1913	296431
R	384m E	Coal Levels	1897	296431
N	386m W	Unspecified Disused Levels	1983	281550
R	387m E	Old Coal Level	1921	311085



ID	Location	Land Use	Date	Group ID
S	389m SE	Unspecified Mine	1983	292559
5	392m S	Unspecified Pit	1983	278059
Q	393m SE	Unspecified Disused Tip	1983	264901
T	397m N	Old Coal Levels	1921	323646
T	397m N	Unspecified Pit	1877	319472
U	398m W	Unspecified Disused Levels	1965	302342
U	398m W	Unspecified Disused Levels	1980	302342
U	398m W	Unspecified Disused Levels	1983	302342
K	404m S	Unspecified Tank	1948	273257
T	404m N	Old Coal Levels	1913	293382
T	404m N	Old Coal Levels	1913	293382
T	404m N	Old Coal Levels	1913	283960
T	404m N	Old Coal Levels	1897	283960
T	405m N	Unspecified Pit	1965	284529
T	405m N	Unspecified Pit	1980	284529
T	405m N	Old Coal Levels	1948	300612
T	405m N	Old Coal Levels	1948	300612
T	406m N	Old Coal Levels	1948	311411
T	407m N	Unspecified Disused Level	1983	268764
V	416m E	Coal Levels	1913	315125
V	416m E	Coal Levels	1897	315125
X	418m NW	Refuse Heap	1965	326552
X	418m NW	Refuse Heap	1980	326552
X	418m NW	Unspecified Disused Tip	1983	264919
V	419m E	Unspecified Ground Workings	1921	261551
H	421m S	Colliery	1948	286685
H	421m S	Colliery	1948	286685
P	422m N	Old Coal Levels	1913	306580



ID	Location	Land Use	Date	Group ID
P	422m N	Old Coal Levels	1913	306580
P	425m N	Old Coal Levels	1948	302410
P	425m N	Old Coal Levels	1948	322930
P	426m N	Old Coal Levels	1913	301084
P	426m N	Old Coal Levels	1897	301084
H	432m S	Railway Sidings	1948	285464
H	432m S	Unspecified Quarry	1948	263622
P	436m N	Old Coal Levels	1921	296112
Z	436m S	Colliery	1913	299150
X	442m NW	Unspecified Mine	1965	324197
X	442m NW	Unspecified Mine	1980	324197
X	445m NW	Unspecified Disused Level	1983	268767
S	445m SE	Old Coal Level	1921	262046
6	448m E	Colliery	1921	319147
AA	454m SW	Refuse Heaps	1965	322755
AA	454m SW	Refuse Heaps	1980	322755
AA	454m SW	Unspecified Ground Workings	1983	260819
AB	457m SE	Unspecified Disused Level	1965	298066
AB	457m SE	Unspecified Disused Level	1980	298066
H	458m S	Colliery	1913	305086
H	458m S	Colliery	1913	305086
AC	469m S	Refuse Heap	1948	301326
AC	473m S	Refuse Heap	1913	314541
AC	473m S	Refuse Heap	1913	314541
AC	474m S	Refuse Heap	1913	315641
AC	474m S	Refuse Heap	1921	315641
Z	475m S	Colliery	1921	300249
AD	476m W	Unspecified Ground Workings	1877	261519



ID	Location	Land Use	Date	Group ID
7	476m E	Railway Building	1948	280263
AC	476m S	Refuse Heap	1948	292130
AC	476m S	Refuse Heap	1948	292130
AE	477m NW	Unspecified Disused Levels	1965	295790
AE	477m NW	Unspecified Disused Levels	1980	295790
AE	477m NW	Unspecified Disused Levels	1983	295790
AD	480m W	Unspecified Old Quarry	1921	314140
AD	482m W	Unspecified Old Quarry	1913	314140
AD	482m W	Unspecified Old Quarry	1897	323451
AD	483m W	Unspecified Old Quarry	1948	303907
AD	485m W	Unspecified Old Quarry	1913	283217
AD	485m W	Unspecified Old Quarry	1913	283217
H	487m S	Railway Sidings	1897	322813
Z	487m S	Railway Building	1921	296900
Z	487m S	Railway Building	1913	296900
AD	488m W	Unspecified Old Quarry	1948	295629
Z	493m S	Unspecified Heaps	1913	284179
Z	493m S	Unspecified Heaps	1913	284179
AD	494m W	Unspecified Disused Quarry	1983	267698
AD	495m W	Unspecified Disused Levels	1965	281973
AD	495m W	Unspecified Disused Levels	1980	281973
AF	495m N	Unspecified Disused Level	1965	321406
AF	495m N	Unspecified Disused Level	1980	321406
AF	495m N	Unspecified Disused Level	1983	321406
Z	496m S	Unspecified Heap	1921	328885
Z	496m S	Unspecified Heap	1913	328885
Z	498m S	Unspecified Heap	1948	320533
AF	499m N	Unspecified Ground Workings	1913	304948



ID	Location	Land Use	Date	Group ID
AF	499m N	Unspecified Ground Workings	1897	304948
9	499m E	Unspecified Disused Pit	1897	276129
Z	499m S	Unspecified Heaps	1948	297810
Z	499m S	Unspecified Heaps	1948	297810

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	13
----------------------------	-----------

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 25 >](#)

ID	Location	Land Use	Date	Group ID
K	331m S	Tanks	1962	36069
K	343m S	Tanks	1918	35865
L	348m NE	Unspecified Tank	1918	37308
K	349m SW	Tanks	1918	35864
L	351m NE	Unspecified Tank	1962	37342
L	353m NE	Unspecified Tank	1877	35129
W	417m E	Unspecified Tank	1963	36814
W	417m E	Unspecified Tank	-	34286
W	417m E	Unspecified Tank	-	34287
W	417m E	Unspecified Tank	1993	36814
Y	421m SW	Tank or Trough	1877	36240
V	428m E	Unspecified Tank	1918	35124
Y	435m SW	Tank or Trough	1877	36241

This data is sourced from Ordnance Survey® / Groundsure.



2.3 Historical energy features

Records within 500m

1

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 25 >](#)

ID	Location	Land Use	Date	Group ID
8	497m SW	Electricity Substation	1993	19303

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.



3.3 Historical landfill (LA/mapping records)

Records within 500m	0
---------------------	---

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1
---------------------	---

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 38 >](#)

ID	Location	Details		
1	165m SW	Site Address: Tip off A4067 at Godre r-graig, Godre Graig, Ystalefera Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
---------------------	---

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

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

3.6 Licensed waste sites

Records within 500m	0
---------------------	---

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

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

3.7 Waste exemptions

Records within 500m

1

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.

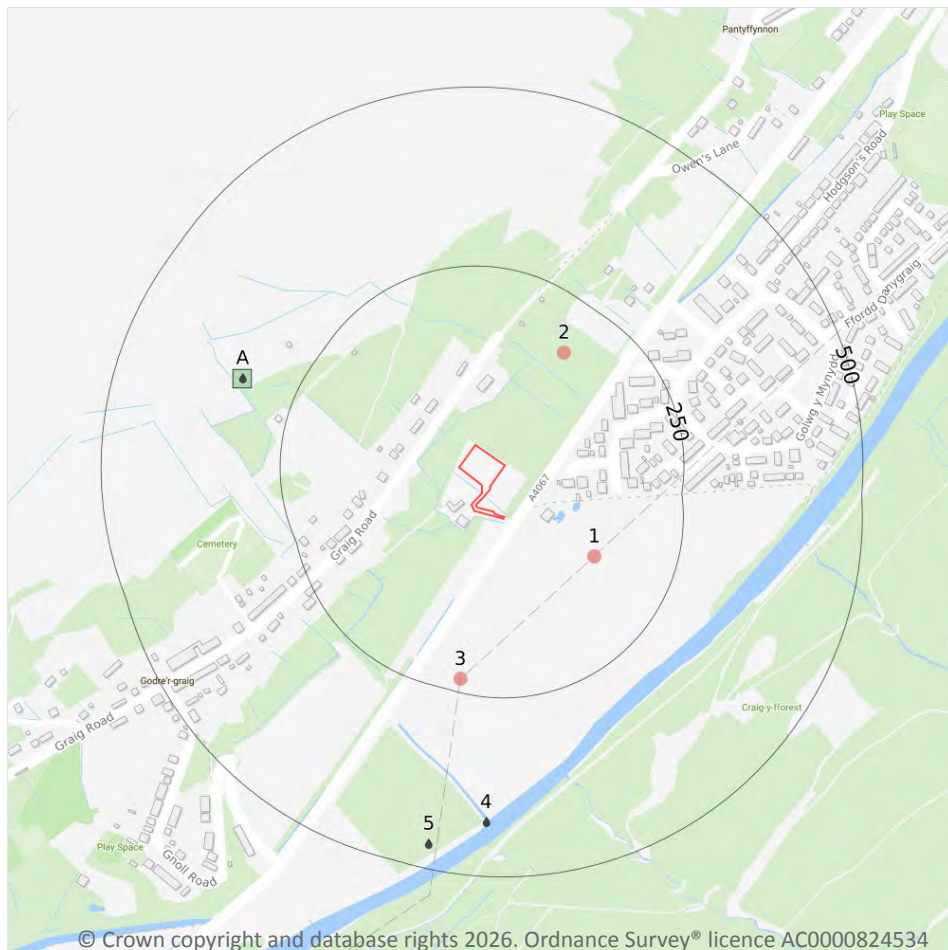
Features are displayed on the Waste and landfill map on [page 38](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
2	378m NE	Graig Newydd Godrergraig Swansea Sa9 Godrergraig Swansea Castell-Nedd Port Talbot Sa92df	NRW- WME026775	Using waste exemption	Waste exemption - agricultural and non- agricultural	Use of waste in construction

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
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances

4.1 Recent industrial land uses

Records within 250m

3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 41](#) >

ID	Location	Company	Address	Activity	Category
1	137m SE	Pylon	West Glamorgan, SA9	Electrical Features	Infrastructure and Facilities
2	176m NE	Mine (Disused)	West Glamorgan, SA9	Unspecified Quarries Or Mines	Extractive Industries
3	232m S	Pylon	West Glamorgan, SA9	Electrical Features	Infrastructure and Facilities



This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

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

Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0
---------------------	---

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0
---------------------	---

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0
---------------------	---

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.



4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

4.12 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.

4.13 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.

4.14 Licensed Discharges to controlled waters

Records within 500m

3

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 41 >](#)

ID	Location	Address	Details	
A	327m W	PENTWYN (NO 3) COLLIERY GRAIG ROAD, PENTWYN (NO 3) COLLIERY GRAIG RO, GRAIG ROAD GODRE GRAIG YSTALYFER, GODRE GRAIG YSTALYFERA, YSTALYFERA, YSTALYFERA	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BP0071101 Permit Version: 0 Receiving Water: RIVER TAWA TRIBUTARY	Status: Effective Issue date: 26/10/1992 Effective Date: 26/01/1993 Revocation Date: -
4	424m S	SWANSEATARENISITEAREAB, TARENISITEAREAB	Effluent Type: UNSPECIFIED Permit Number: BP0025201 Permit Version: 1 Receiving Water: RIVER TAWA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 07/10/1986 Effective Date: 07/10/1986 Revocation Date: 07/02/1986
5	465m S	PONTARDAWETARENISITEGODREG RAIG, PONTARDAWETARENISITEGODREG RA, TARENISITEGODREGRAIGSWANSEA, GODREGRAIGSWANSEAWGLAM	Effluent Type: UNSPECIFIED Permit Number: BP0009902 Permit Version: 1 Receiving Water: RIVER TAWA	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 07/02/1986 Effective Date: 13/02/1986 Revocation Date: 29/09/1992

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



4.15 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.16 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.17 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.18 List 2 Dangerous Substances

Records within 500m**1**

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.

Features are displayed on the Current industrial land use map on [page 41](#) >

ID	Location	Name	Status	Receiving Water	Authorised Substances
A	327m W	Pentwyn Colliery (no 3)	Active	None	Iron

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

4.19 Pollution Incidents (EA/NRW)

Records within 500m**0**

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

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



4.20 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.

4.21 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.

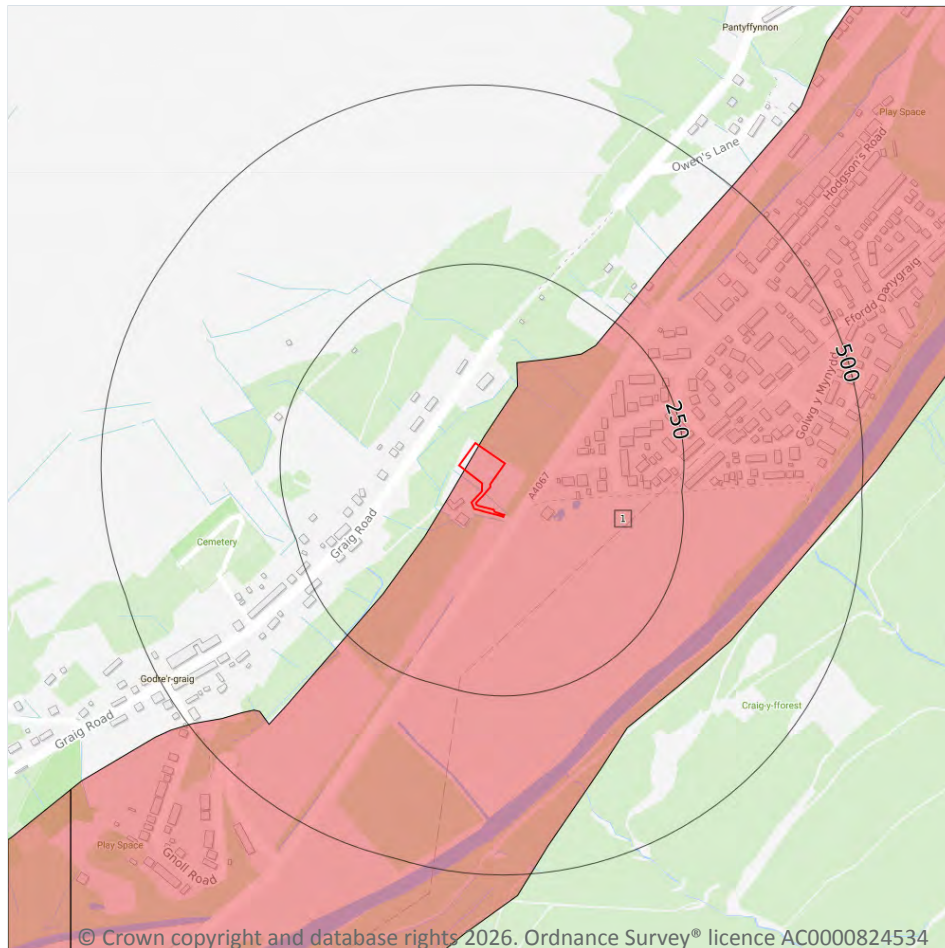
4.22 Pollution inventory radioactive waste

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

1

Aquifer status of groundwater held within superficial geology.

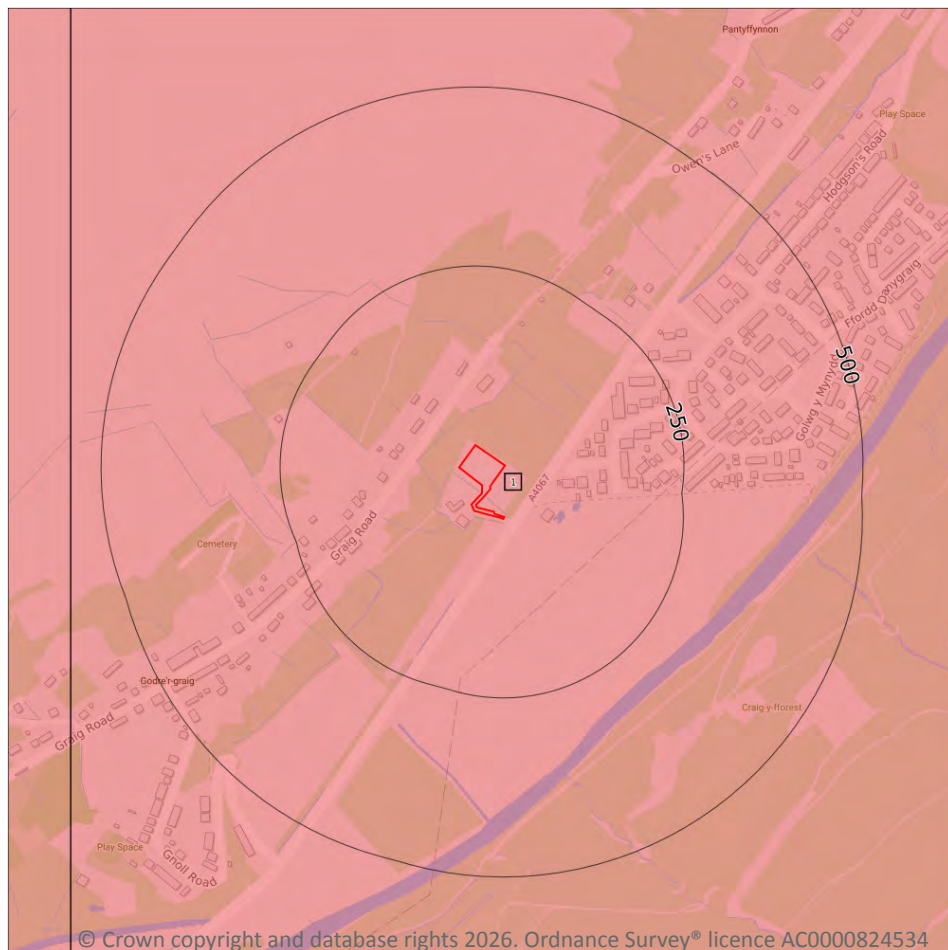
Features are displayed on the Hydrogeology map on [page 47](#) >

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

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

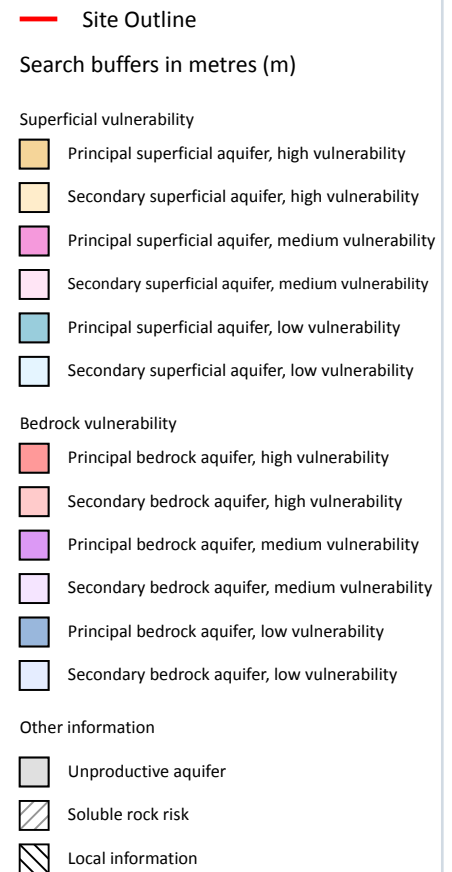
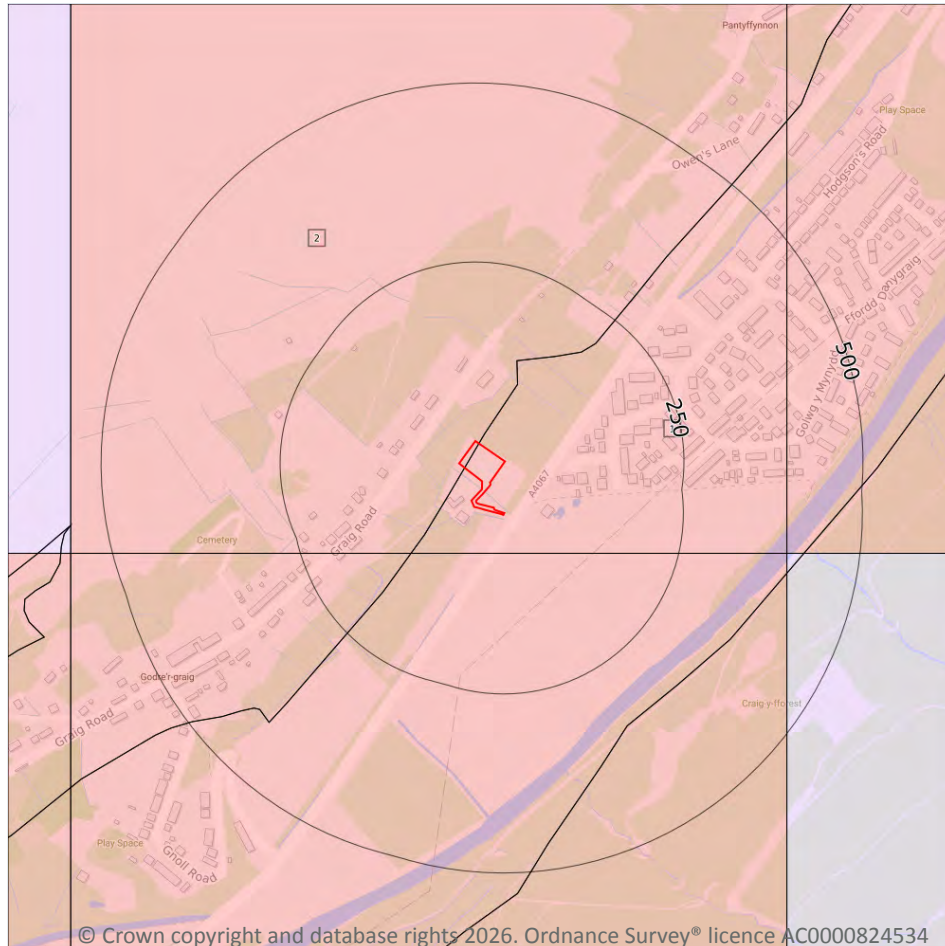
Features are displayed on the Bedrock aquifer map on [page 48](#) >

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

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

2

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 49](#) >



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

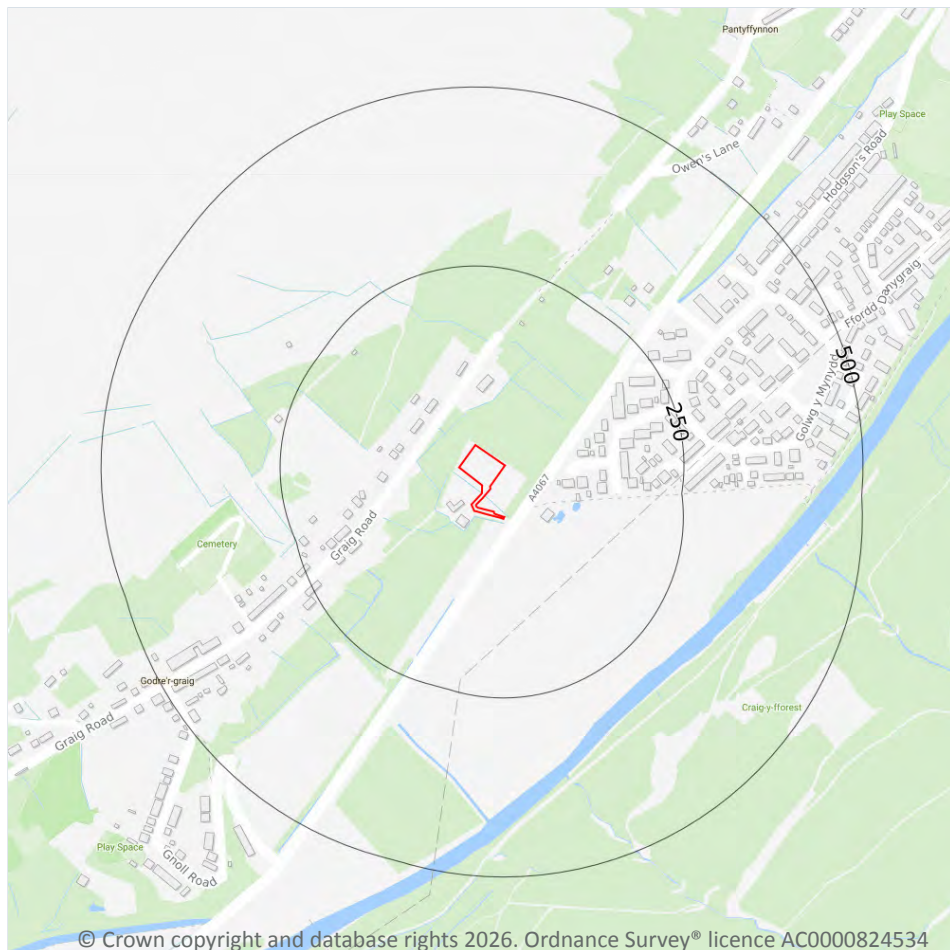
5.5 Groundwater vulnerability- local information

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

1

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 51](#) >

ID	Location	Details	
-	871m SW	Status: Historical Licence No: 22/59/1/0022 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING AT CWMTAWE ISAF Data Type: Point Name: Morris Easting: 274900 Northing: 206500	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: -

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

5.7 Surface water abstractions

Records within 2000m	8
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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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 51 >](#)

ID	Location	Details	
-	1025m NE	Status: Historical Licence No: WA/059/0001/0030 Details: Transfer between Sources (Post Water Act 2003) - Very Low Direct Source: Ystalyfera Point: - Data Type: Point Name: - Easting: 276308 Northing: 207876	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/11/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1141m NE	Status: Historical Licence No: 22/59/1/0107 Details: Effluent/Slurry Dilution Direct Source: EAW Surface Water Point: SWANSEA CANAL SWANSEA VALLEY Data Type: Point Name: British Waterways Board Easting: 276250 Northing: 208070	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 11/08/1992 Version End Date: -

ID	Location	Details	
-	1645m NE	Status: Historical Licence No: WA/059/0001/0025 Details: Hydro-electric Power Generation - Very Low Direct Source: Unnamed Tributary of River Tawe Point: - Data Type: Point Name: - Easting: 276243 Northing: 208656	Annual Volume (m ³): 334281.6 Max Daily Volume (m ³): 915.84 Original Application No: - Original Start Date: 11/03/2019 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1645m NE	Status: Historical Licence No: WA/059/0001/0026 Details: Unknown (Impounding) - Direct Source: Unnamed tributary of the River Tawe Point: - Data Type: Point Name: - Easting: 276243 Northing: 208656	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/03/2019 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1645m NE	Status: Historical Licence No: WA/059/0001/0025 Details: Hydro-electric Power Generation - Very Low Direct Source: Unnamed Tributary of River Tawe Point: - Data Type: Point Name: - Easting: 276243 Northing: 208656	Annual Volume (m ³): 334281.6 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/03/2019 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1777m W	Status: Historical Licence No: 22/59/1/0117 Details: Dust Suppression Direct Source: EAW Surface Water Point: INLAND WATER KNOWN AS CWM DU RIVER Data Type: Point Name: Aggregate Industries UK Ltd Easting: 273830 Northing: 207600	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 88 Original Application No: - Original Start Date: 06/07/1996 Expiry Date: 31/08/2017 Issue No: 101 Version Start Date: 20/05/2013 Version End Date: -
-	1784m W	Status: Historical Licence No: WA/059/0001/0024 Details: Dust Suppression - High Direct Source: Cwm Du Point: - Data Type: Point Name: - Easting: 273823 Northing: 207602	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 88 Original Application No: - Original Start Date: 20/04/2023 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	1784m W	Status: Historical Licence No: WA/059/0001/0024 Details: Dust Suppression - High Direct Source: Cwm Du Point: - Data Type: Point Name: - Easting: 273823 Northing: 207602	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 192 Original Application No: - Original Start Date: 01/09/2017 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0
-----------------------------	----------

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
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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.

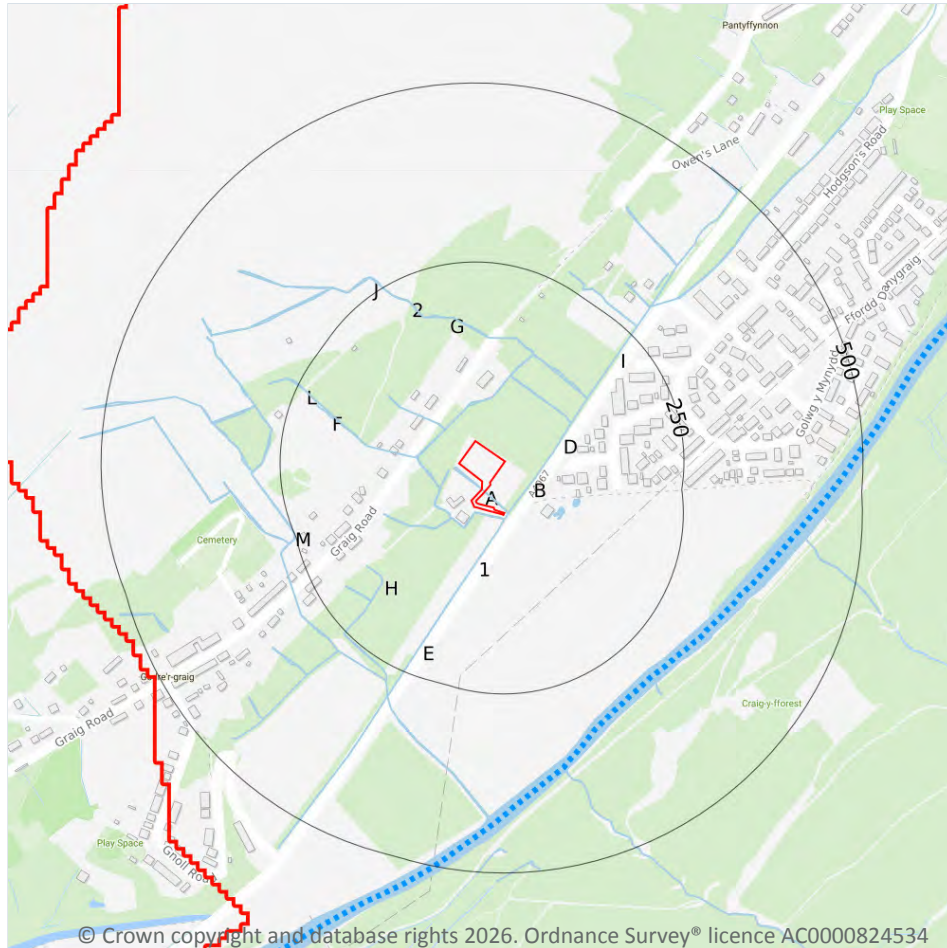
5.10 Source Protection Zones (confined aquifer)

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 NGD)
- 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 NGD)

Records within 250m

53

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 55 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	5m SE	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	5m SE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	6m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	6m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	6m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	17m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
1	20m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	35m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	37m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	41m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	42m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	44m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	44m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	46m N	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	49m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	56m NW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	60m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	65m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	69m E	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	85m SW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	92m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	101m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	103m NE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	104m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	106m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	107m NE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	108m NE	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	111m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	126m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	130m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	134m NE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	142m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	143m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	144m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	145m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	145m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
G	145m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	146m NE	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	146m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	163m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	175m NE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	193m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	193m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
2	213m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	215m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	238m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	240m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	250m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	250m SW	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

27

Covering rivers, streams and lakes (some overlap with OS NGD 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 55 >](#)

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 55 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
B	On site	River	Tawe -confluence with Twrch to tidal limit	GB110059032180	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 55 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	306m SE	River	Tawe -confluence with Twrch to tidal limit	GB110059032180	Moderate	Moderate	Moderate	2024



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

6.5 WFD Groundwater bodies

Records on site

1

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

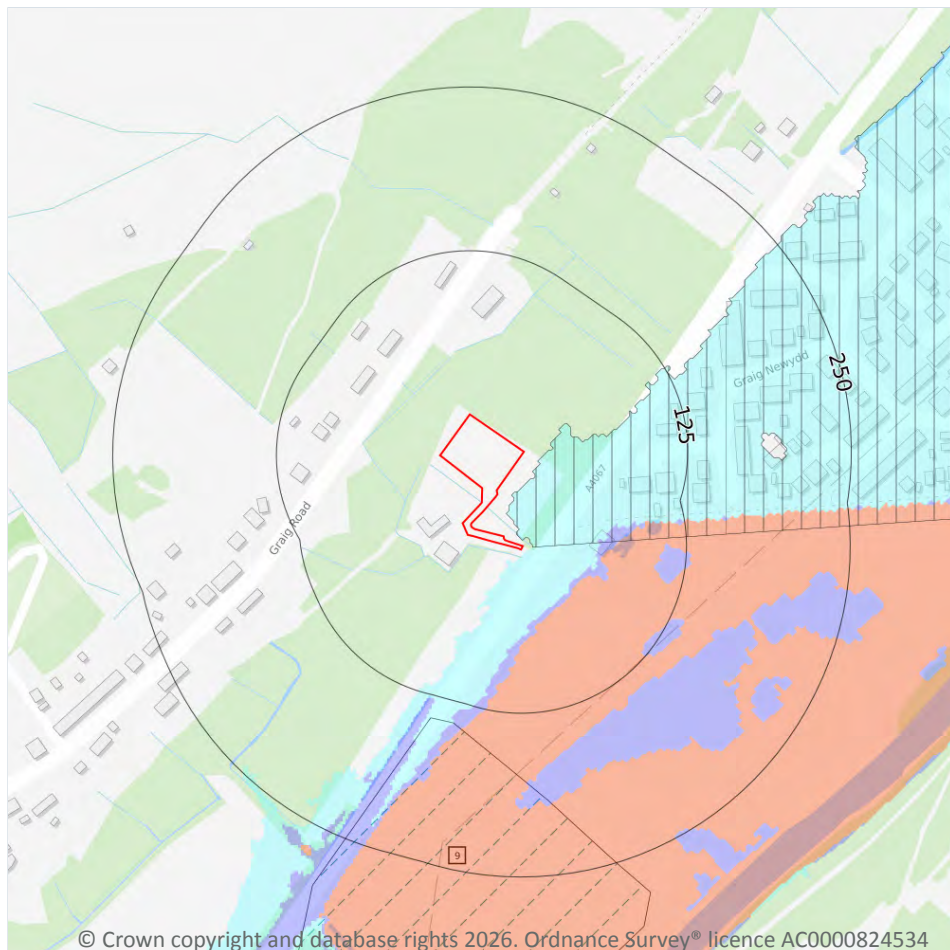
Features are displayed on the Hydrology map on [page 55 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Swansea Carboniferous Coal Measures	GB41002G201000	Poor			2021

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

3

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 62 >](#)



Distance	Flood risk category
On site	N/A
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	1
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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.

Features are displayed on the River and coastal flooding map on [page 62 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
9	142m S	Tawe 1979	1979-12-27 1979-12-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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	1
---------------------	---

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.

Features are displayed on the River and coastal flooding map on [page 62 >](#)

ID	Location	
A	4m N	Area benefiting from flood defences

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

7.5 Flood Storage Areas

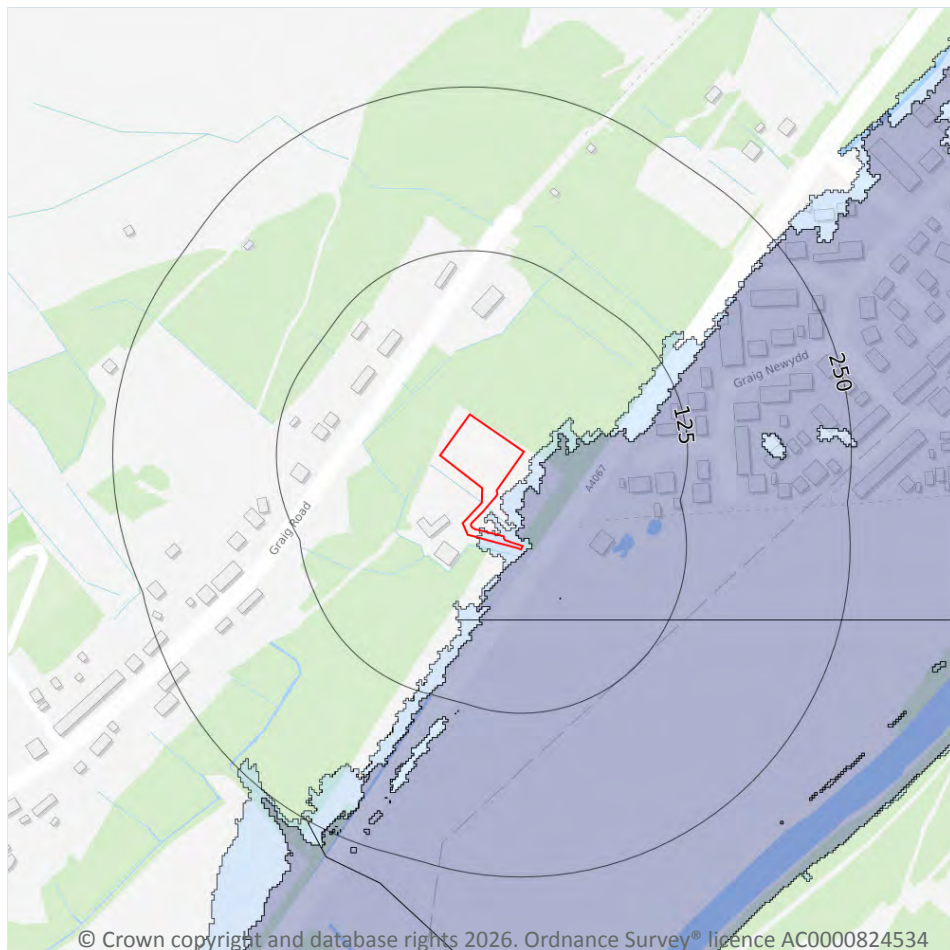
Records within 250m	0
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Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume 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 62 >](#)

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.

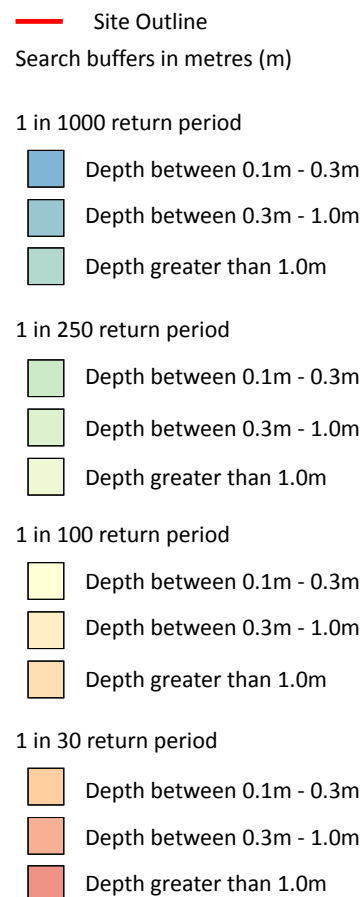
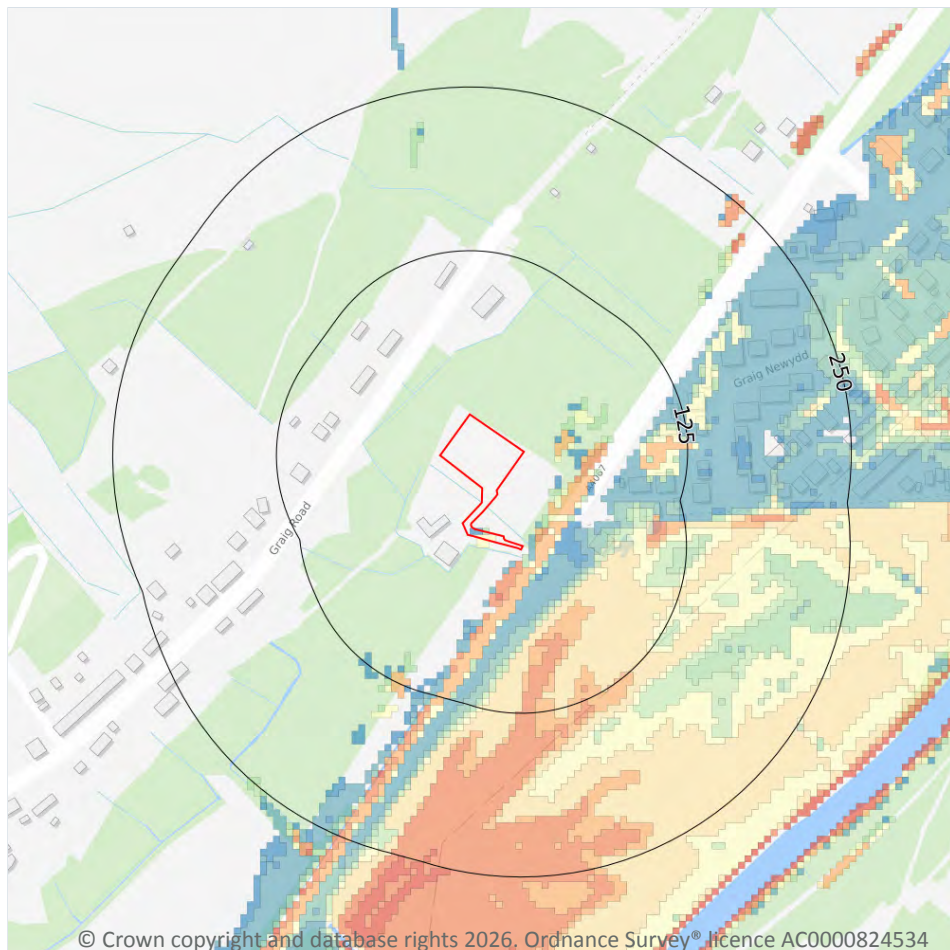
Features are displayed on the River and coastal flooding map on [page 62](#) >

Location	Type
3m SE	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 100 year, 0.1m - 0.3m

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 67 >](#)

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.

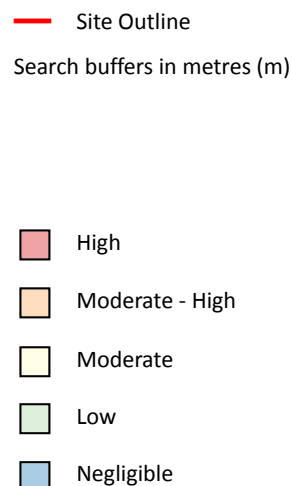
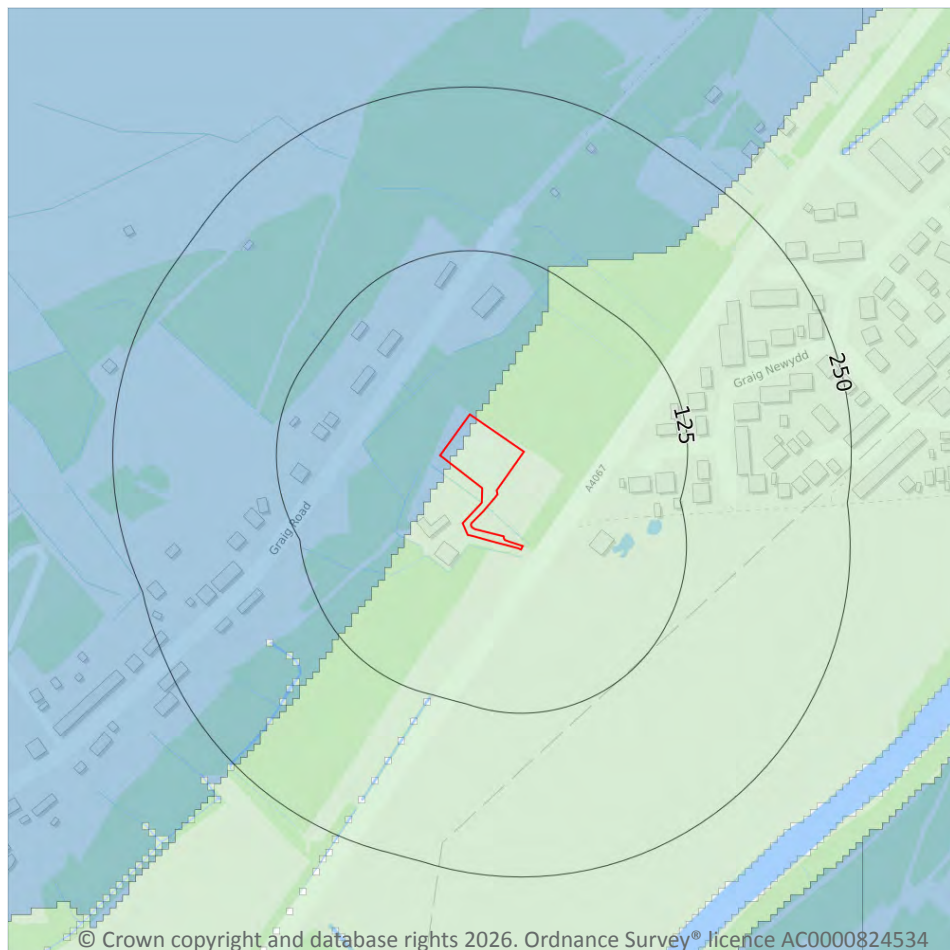
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

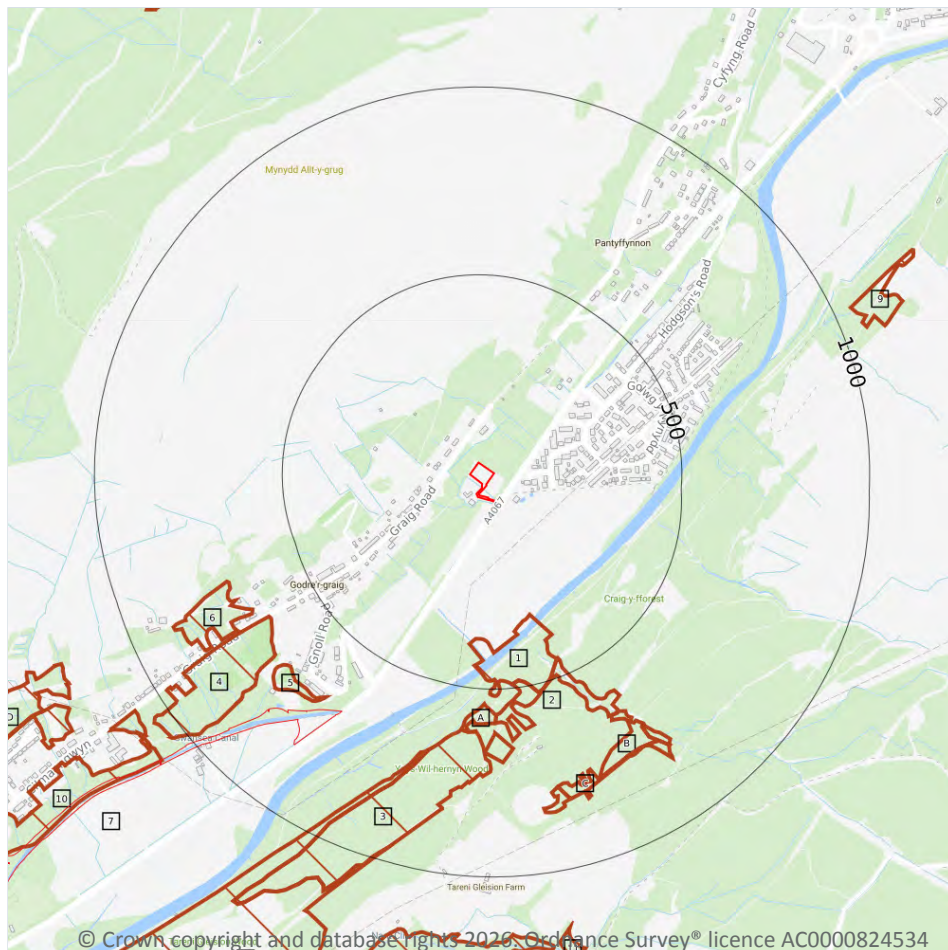
Low

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

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

This data is sourced from Ambient Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

5

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 70 >](#)

ID	Location	Name	Data source
-	1558m W	Coed Cwm Du, Cilmaengwyn	Natural Resources Wales



ID	Location	Name	Data source
-	1558m S	Cilybebyll	Natural Resources Wales
-	1677m NW	Gwrhyd Meadows	Natural Resources Wales
-	1749m SW	Cilybebyll	Natural Resources Wales
-	1895m S	Cilybebyll	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
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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
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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**1**

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.

Features are displayed on the Environmental designations map on [page 70 >](#)

ID	Location	Name	Data source
7	675m SW	Swansea Canal	Natural Resources Wales

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

10.7 Designated Ancient Woodland

Records within 2000m**36**

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 70 >](#)

ID	Location	Name	Woodland Type
1	317m S	Unknown	Ancient Semi Natural Woodland
2	452m S	Unknown	Ancient Semi Natural Woodland
A	540m S	Unknown	Ancient Semi Natural Woodland
3	611m S	Unknown	Restored Ancient Woodland Site
A	617m S	Unknown	Ancient Semi Natural Woodland
4	638m SW	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
B	647m SE	Unknown	Restored Ancient Woodland Site
5	670m SW	Unknown	Restored Ancient Woodland Site
6	670m SW	Unknown	Restored Ancient Woodland Site
8	683m S	Unknown	Restored Ancient Woodland Site
B	713m SE	Unknown	Ancient Semi Natural Woodland
C	759m S	Unknown	Restored Ancient Woodland Site
B	766m SE	Unknown	Restored Ancient Woodland Site
C	779m S	Unknown	Plantation on Ancient Woodland Site
9	1047m NE	Unknown	Ancient Semi Natural Woodland
10	1075m SW	Unknown	Restored Ancient Woodland Site
11	1153m S	Unknown	Ancient Semi Natural Woodland
12	1154m S	Unknown	Ancient Semi Natural Woodland
D	1194m SW	Unknown	Restored Ancient Woodland Site
D	1225m SW	Unknown	Restored Ancient Woodland Site
13	1475m NW	Unknown	Plantation on Ancient Woodland Site
-	1477m S	Unknown	Ancient Semi Natural Woodland
-	1499m SW	Unknown	Ancient Semi Natural Woodland
-	1505m S	Unknown	Ancient Semi Natural Woodland
-	1511m S	Unknown	Ancient Semi Natural Woodland
-	1553m W	Unknown	Ancient Semi Natural Woodland
-	1577m W	Unknown	Ancient Semi Natural Woodland
-	1583m N	Unknown	Ancient Semi Natural Woodland
-	1599m SW	Unknown	Ancient Semi Natural Woodland
-	1648m NE	Unknown	Ancient Semi Natural Woodland
-	1700m W	Unknown	Ancient Semi Natural Woodland
-	1718m SW	Unknown	Ancient Semi Natural Woodland
-	1743m W	Unknown	Ancient Semi Natural Woodland
-	1828m SW	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
-	1852m W	Unknown	Ancient Semi Natural Woodland
-	1936m W	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
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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

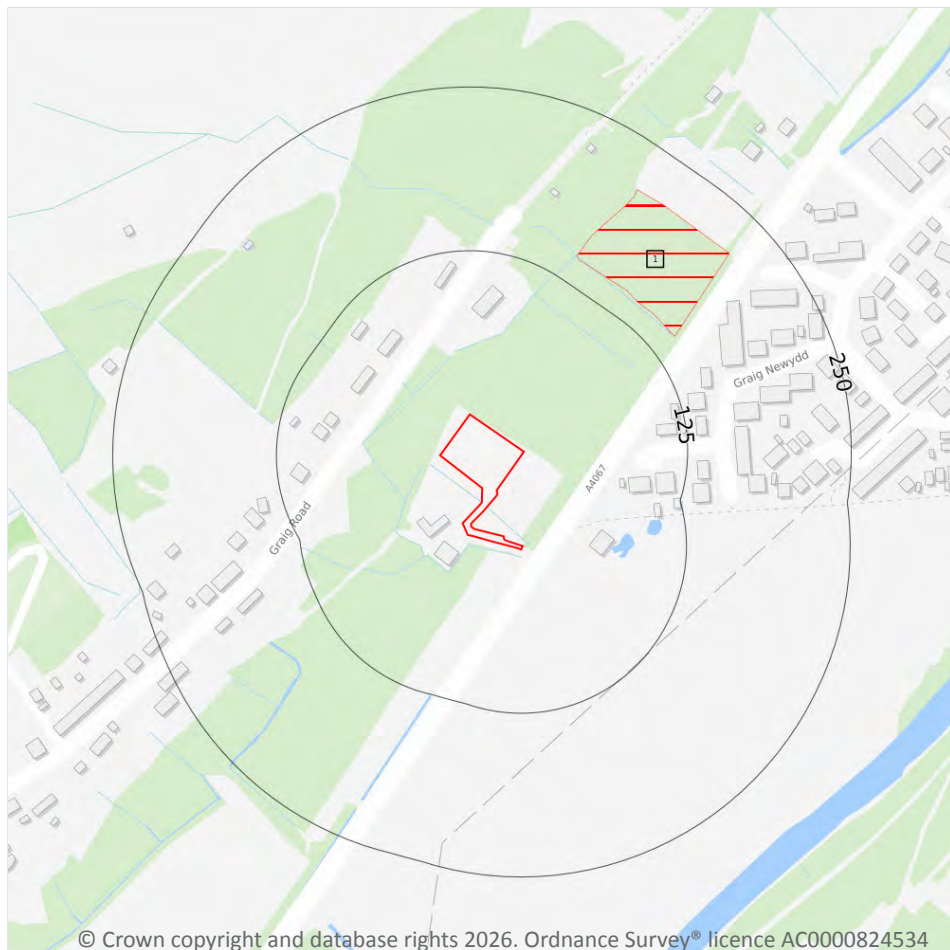
Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

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

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

11.3 National Parks

Records within 250m**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

1

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

Features are displayed on the Visual and cultural designations map on [page 78 >](#)

ID	Location	Ancient monument name	Reference number
1	144m NE	Crimea Colliery & Canal Quay	3737

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

11.7 Registered Parks and Gardens

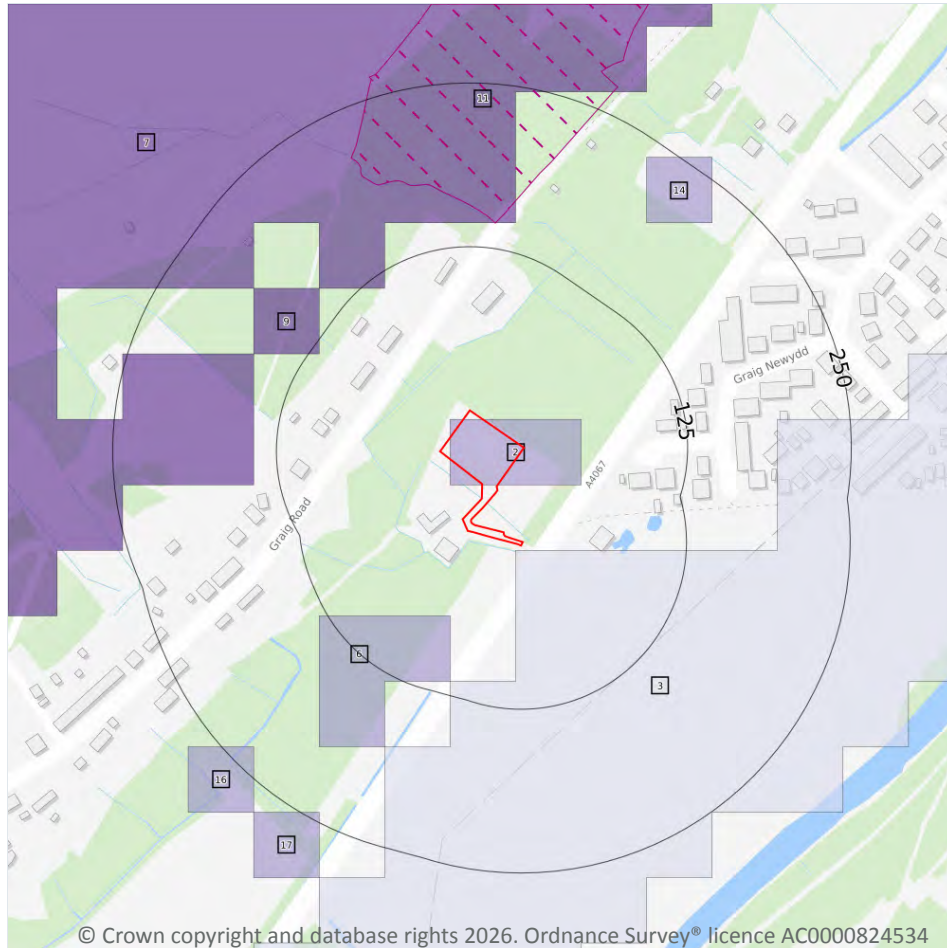
Records within 250m

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

8

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 81](#) >

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land
3	4m S	Grade 3b	Moderate quality agricultural land
6	66m S	Grade 4	Poor quality agricultural land

ID	Location	Classification	Description
7	114m NW	Grade 5	Very poor quality agricultural land
9	119m NW	Grade 5	Very poor quality agricultural land
14	195m NE	Grade 4	Poor quality agricultural land
16	232m SW	Grade 4	Poor quality agricultural land
17	243m SW	Grade 4	Poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

1

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 81](#) >

ID	Location	Name	Classification	Other relevant legislation
11	144m N	-	Open Access Open Country	-

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

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

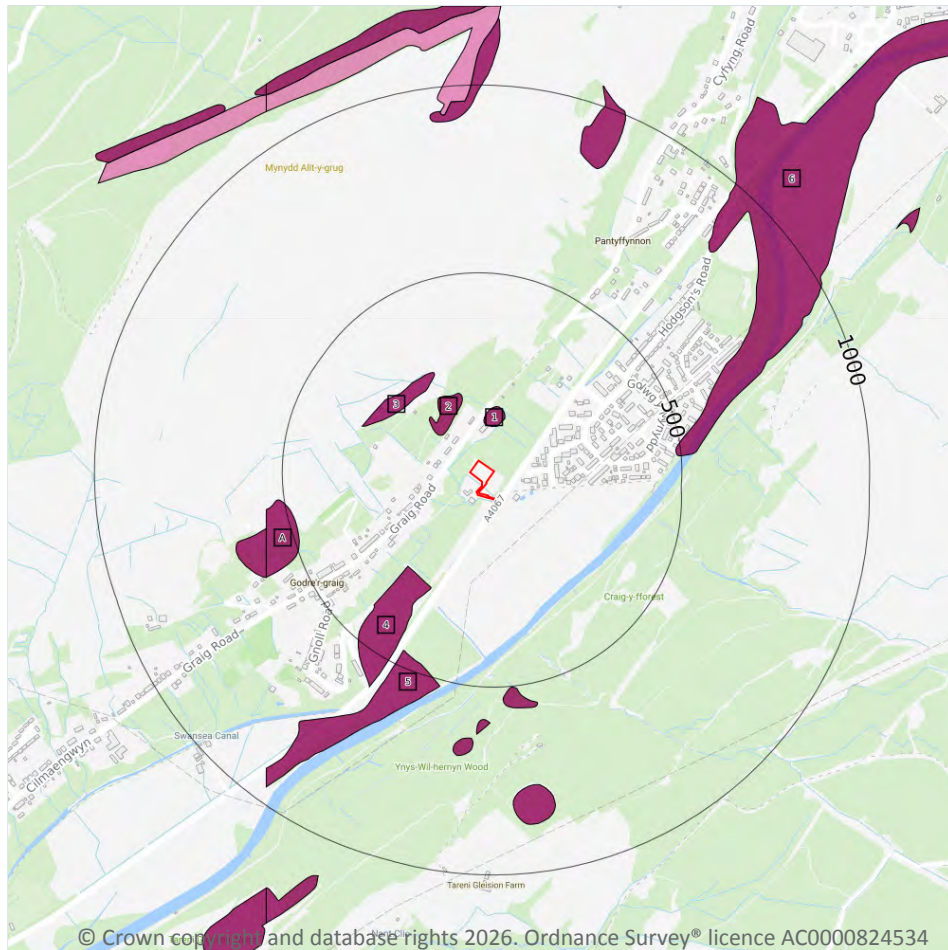
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 85](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SN70NE

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

7

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 86 >](#)

ID	Location	LEX Code	Description	Rock description
1	97m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
2	116m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
3	233m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
4	265m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

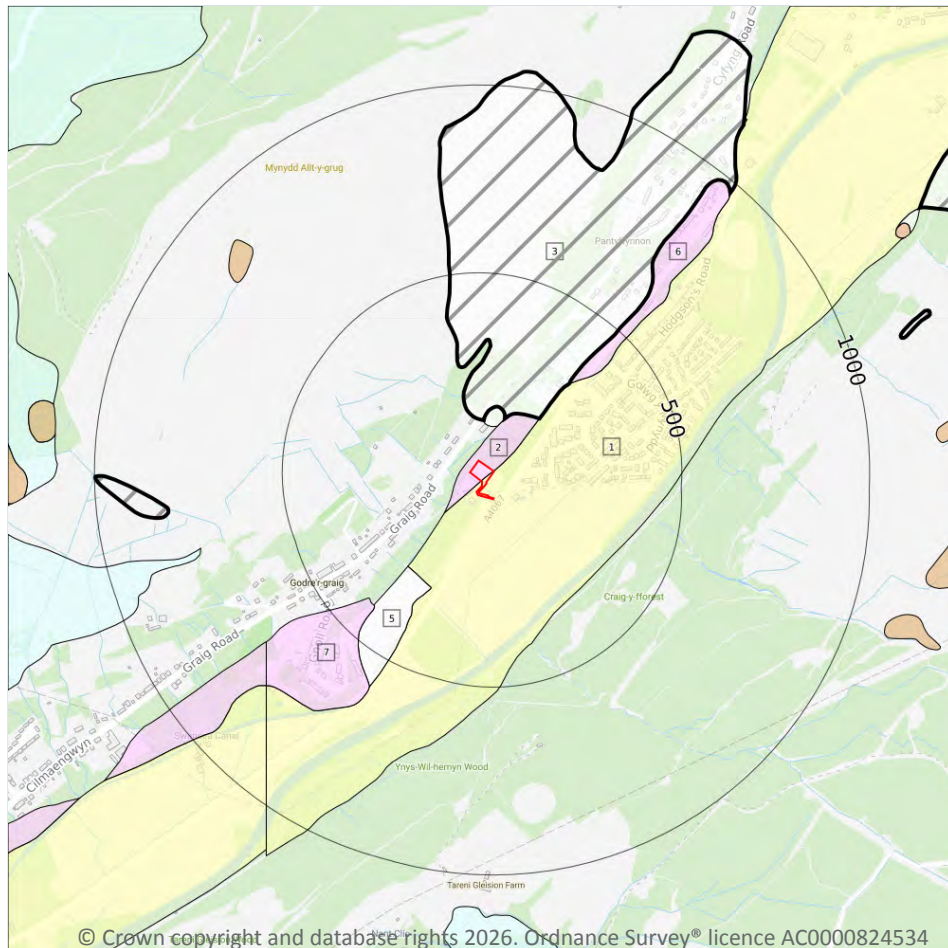


ID	Location	LEX Code	Description	Rock description
5	458m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
A	483m W	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
6	487m E	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

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

6

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 88](#) >

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	GFDUD-XSV	Glaciofluvial Deposits, Devensian-Sand And Gravel	Sand and gravel
3	97m N	SUPNM-UNKNOWN	Superficial Theme Not Mapped [For Digital Map Use Only]- Unknown/unclassified Entry	Unknown/unclassified entry

ID	Location	LEX Code	Description	Rock description
5	265m SW	SUPNM-UNKNOWN	Superficial Theme Not Mapped [For Digital Map Use Only]- Unknown/unclassified Entry	Unknown/unclassified entry
6	307m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian-Sand And Gravel	Sand and gravel
7	399m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian-Sand And Gravel	Sand and gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

1

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.

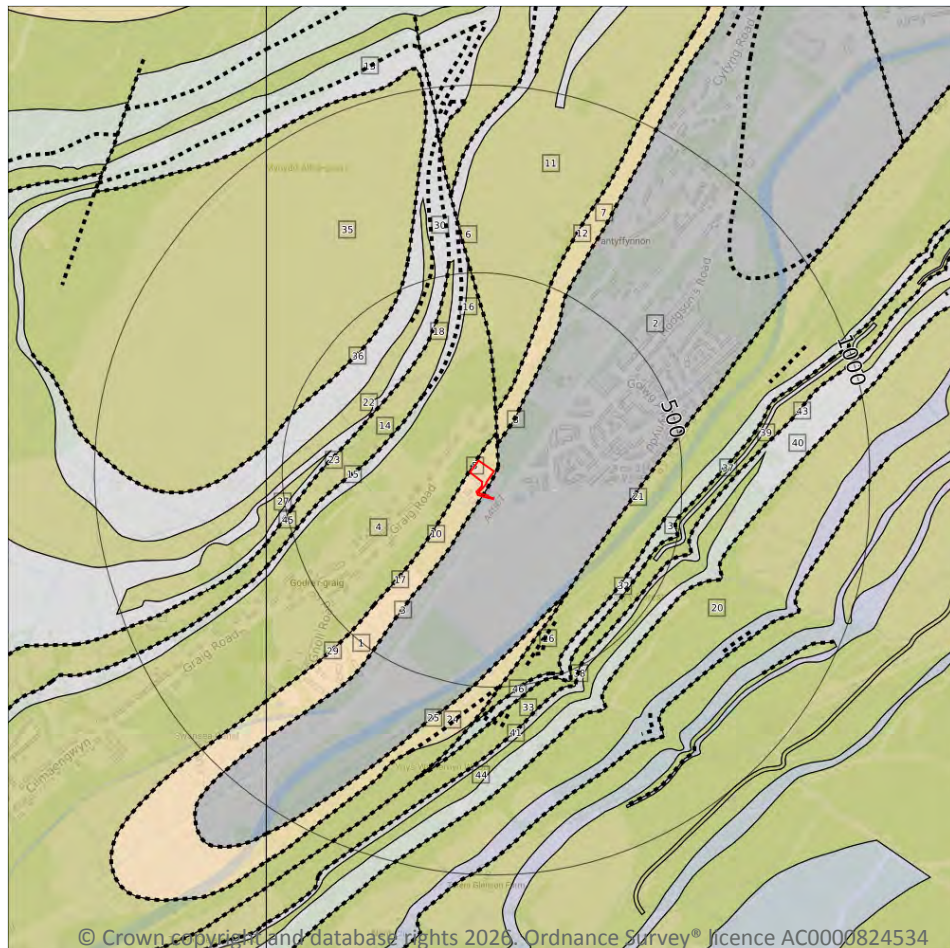
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 88 >](#)

ID	Location	LEX Code	Description	Rock description
4	108m N	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

17

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 90](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SWUCM-MDSS	South Wales Upper Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
2	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
4	3m NW	LLFB-SDST	Llynfi Member-Sandstone	Westphalian



ID	Location	LEX Code	Description	Rock age
7	66m NE	SWUCM-MDSS	South Wales Upper Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
11	135m N	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
13	198m NW	LLFB-MDSS	Llynfi Member-Mudstone, Siltstone And Sandstone	Westphalian
14	222m NW	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
20	301m SE	RA-SDST	Rhondda Member-Sandstone	Westphalian
22	310m NW	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
24	318m SE	SWUCM-MDSS	South Wales Upper Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
27	377m W	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
31	406m SE	LLFB-MDSS	Llynfi Member-Mudstone, Siltstone And Sandstone	Westphalian
33	429m SE	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
35	429m NW	RA-SDST	Rhondda Member-Sandstone	Westphalian
39	455m E	LLFB-MDSS	Llynfi Member-Mudstone, Siltstone And Sandstone	Westphalian
40	464m SE	LLFB-MDSS	Llynfi Member-Mudstone, Siltstone And Sandstone	Westphalian
44	478m SE	LLFB-SDST	Llynfi Member-Sandstone	Westphalian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

30

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 90](#) >

ID	Location	Category	Description
3	On site	FOSSIL_HORIZON	Marine band
5	3m NW	ROCK	Coal seam, inferred
6	16m NE	FAULT	Fault, inferred, displacement unknown
8	66m NE	FOSSIL_HORIZON	Marine band
9	66m NE	FOSSIL_HORIZON	Marine band

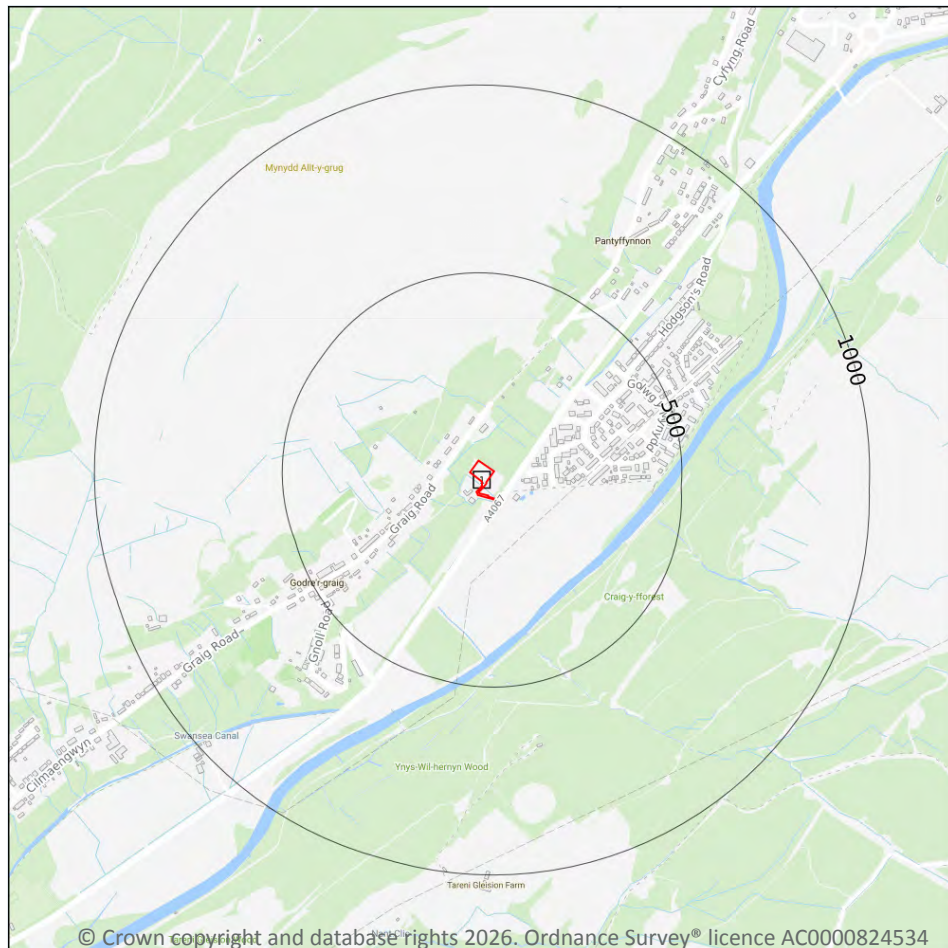


ID	Location	Category	Description
10	100m SW	ROCK	Coal seam, inferred
12	135m N	ROCK	Coal seam, inferred
15	222m NW	ROCK	Coal seam, inferred
16	227m NW	ROCK	Coal seam, inferred
17	266m SW	ROCK	Coal seam, inferred
18	294m NW	ROCK	Coal seam, observed
19	296m NW	ROCK	Coal seam, observed
21	301m SE	FAULT	Fault, inferred, displacement unknown
23	312m NW	ROCK	Coal seam, observed
25	318m SE	FOSSIL_HORIZON	Marine band
26	365m SE	FAULT	Fault, observed, displacement unknown
28	389m S	ROCK	Coal seam, observed
29	403m SW	ROCK	Coal seam, inferred
30	405m NW	ROCK	Coal seam, observed
32	406m SE	ROCK	Coal seam, inferred
34	429m SE	ROCK	Coal seam, inferred
36	429m NW	ROCK	Coal seam, observed
37	440m SE	ROCK	Coal seam, observed
38	448m SE	ROCK	Coal seam, observed
41	464m SE	ROCK	Coal seam, inferred
42	466m S	ROCK	Coal seam, observed
43	470m SE	ROCK	Coal seam, observed
45	484m W	ROCK	Coal seam, inferred
46	485m S	ROCK	Coal seam, inferred
47	494m S	ROCK	Coal seam, inferred

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.

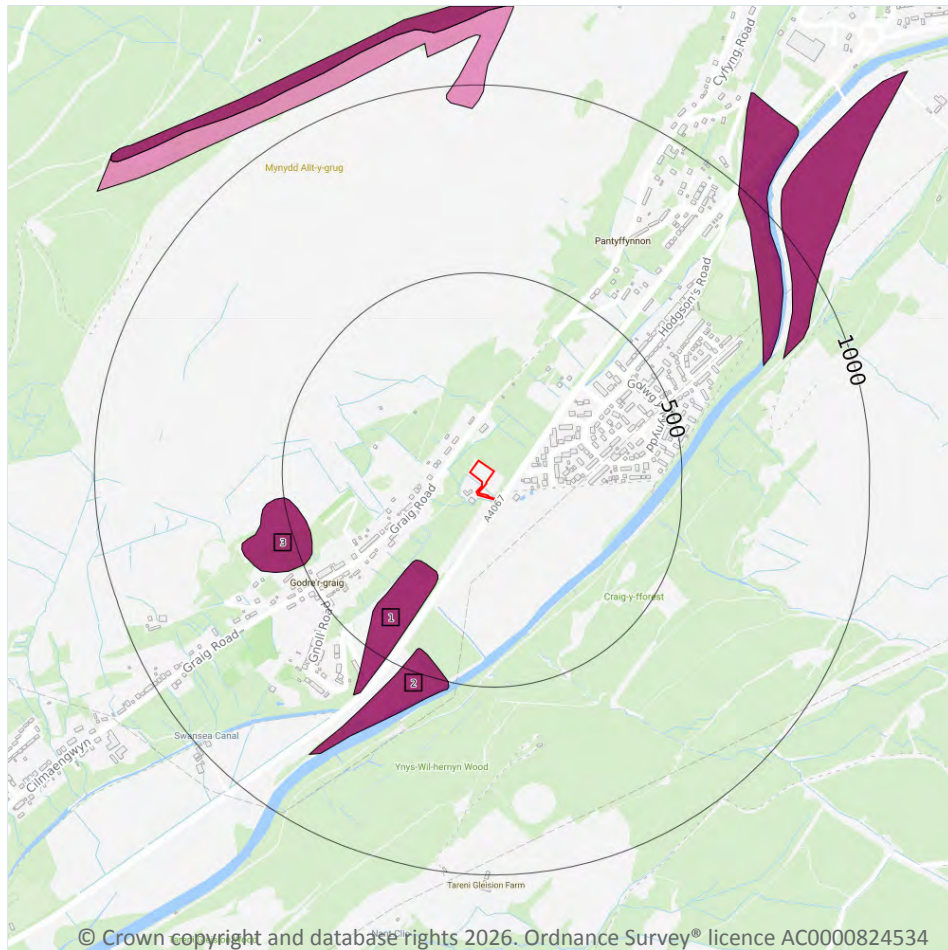
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 93](#) >

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



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

15.2 Artificial and made ground (50k)

Records within 500m

3

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 94](#) >

ID	Location	LEX Code	Description	Rock description
1	230m SW	MGR-ARTDP	Made Ground	Artificial deposit
2	437m S	MGR-ARTDP	Made Ground	Artificial deposit
3	453m W	MGR-ARTDP	Made Ground	Artificial deposit

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

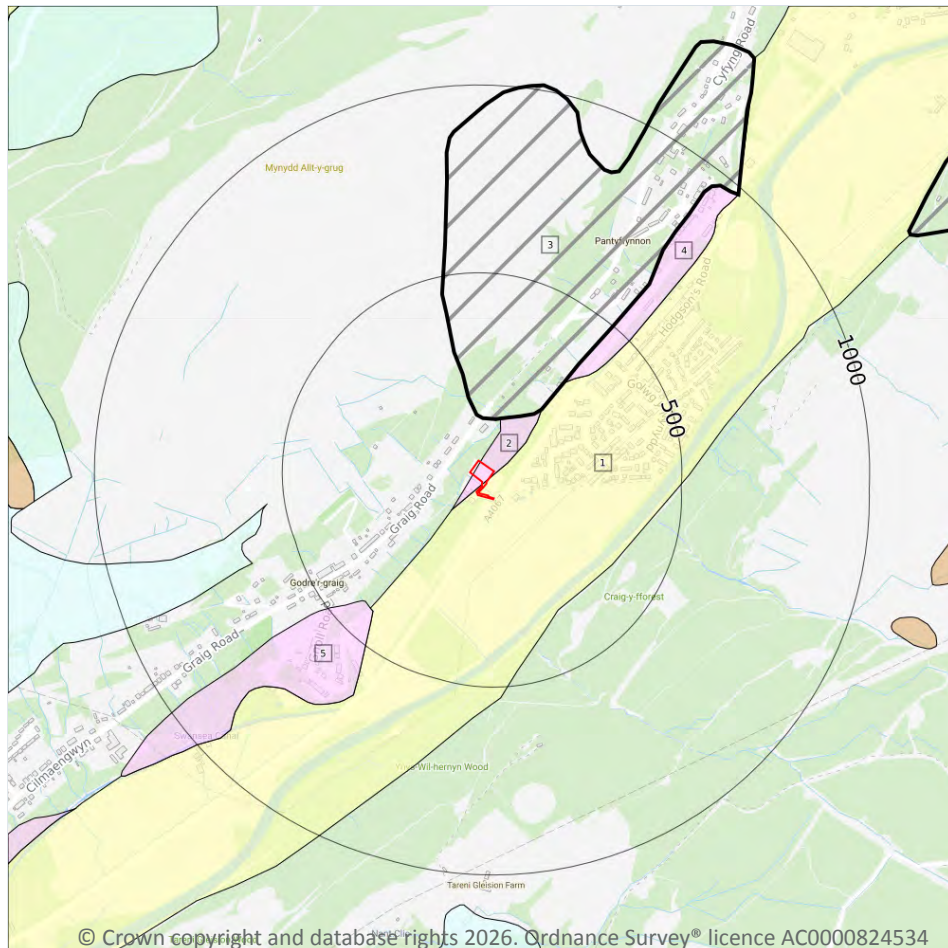
0

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

4

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 96 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium	Clay, silt, sand and gravel
2	On site	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
4	299m NE	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
5	412m SW	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	Very High	High

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 96](#) >

ID	Location	LEX Code	Description	Rock description
3	114m N	SLIP-UNKNOWN	Landslide deposits	Unknown/unclassified entry

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

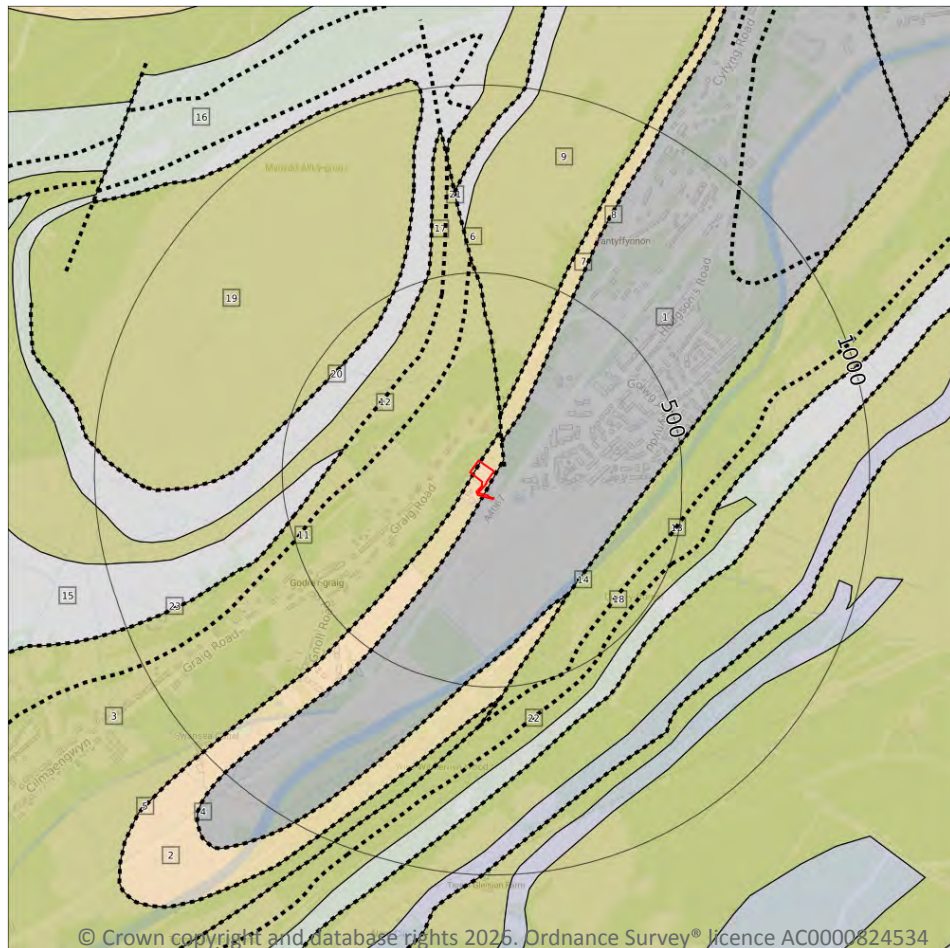
0

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

9

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 98](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
2	On site	SWUCM-MDSS	South Wales Upper Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
3	On site	LLFB-SDST	Llynfi Member-Sandstone	Westphalian



ID	Location	LEX Code	Description	Rock age
7	76m NE	SWUCM-MDSS	South Wales Upper Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
9	132m NE	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
13	310m SE	LLFB-SDST	Llynfi Member-Sandstone	Westphalian
15	341m W	LLFB-MDSS	Llynfi Member-Mudstone, siltstone and sandstone	Westphalian
16	370m NW	LLFB-MDSS	Llynfi Member-Mudstone, siltstone and sandstone	Westphalian
19	439m NW	RA-SDST	Rhondda Member-Sandstone	Westphalian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
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	14
----------------------------	-----------

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 98](#) >

ID	Location	Category	Description
4	On site	FOSSIL_HORIZON	Marine band
5	On site	ROCK	Coal seam, inferred
6	30m NE	FAULT	Fault, observed, displacement unknown
8	76m NE	FOSSIL_HORIZON	Marine band



ID	Location	Category	Description
10	132m NE	ROCK	Coal seam, inferred
11	211m NW	ROCK	Coal seam, inferred
12	300m NW	ROCK	Coal seam, observed
14	310m SE	FAULT	Fault, inferred, displacement unknown
17	397m NW	ROCK	Coal seam, observed
18	418m SE	ROCK	Coal seam, inferred
20	439m NW	ROCK	Coal seam, observed
21	454m N	ROCK	Coal seam, observed
22	466m SE	ROCK	Coal seam, inferred
23	480m W	ROCK	Coal seam, inferred

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

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16.1 BGS Boreholes

Records within 250m

1

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.

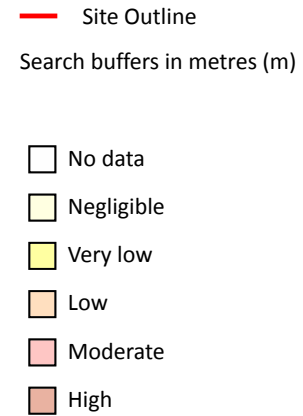
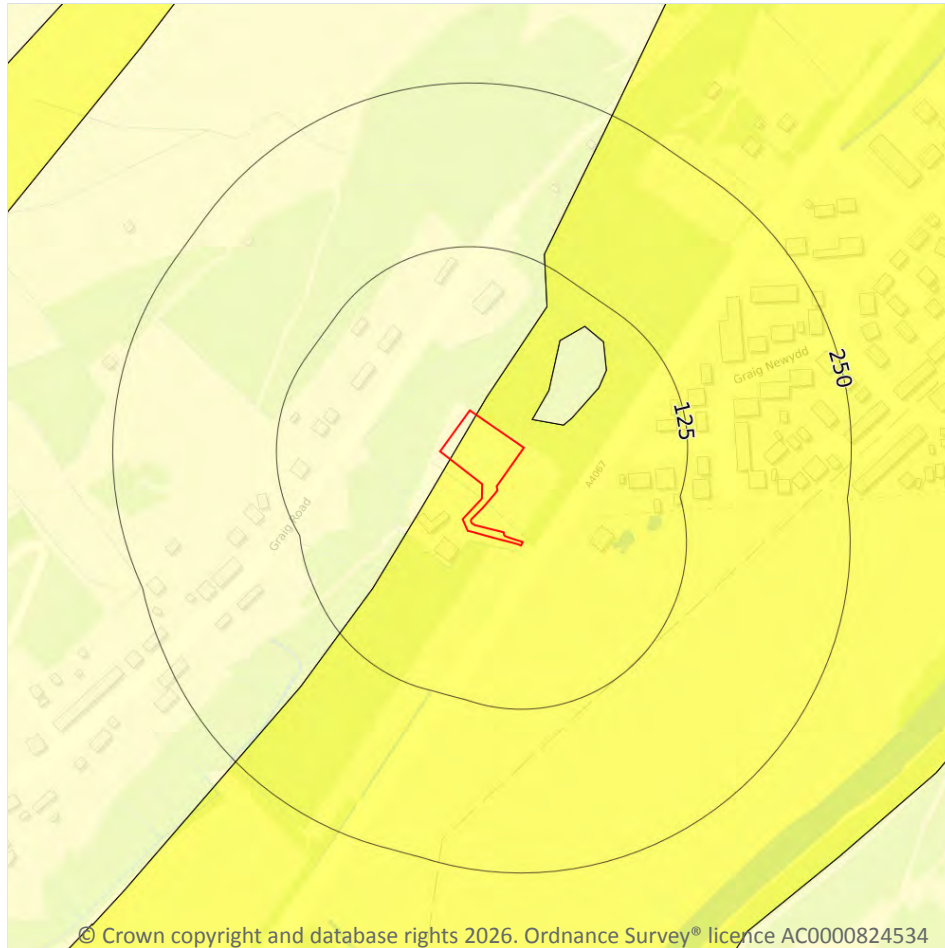
Features are displayed on the Boreholes map on [page 101](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	238m N	275520 207390	LLYGADYFFYNON GODRORGWIG	-1.0	N	257006 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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).

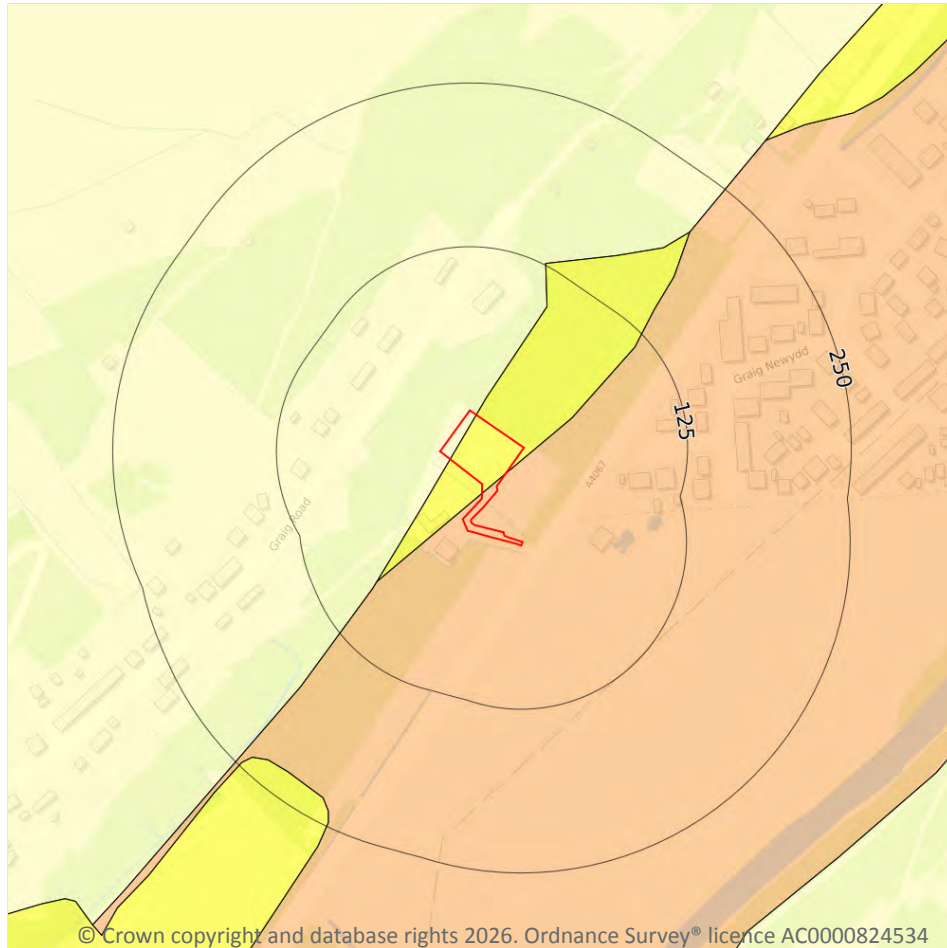
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 102 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
21m NE	Negligible	Ground conditions predominantly non-plastic.

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

3

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 104 >](#)

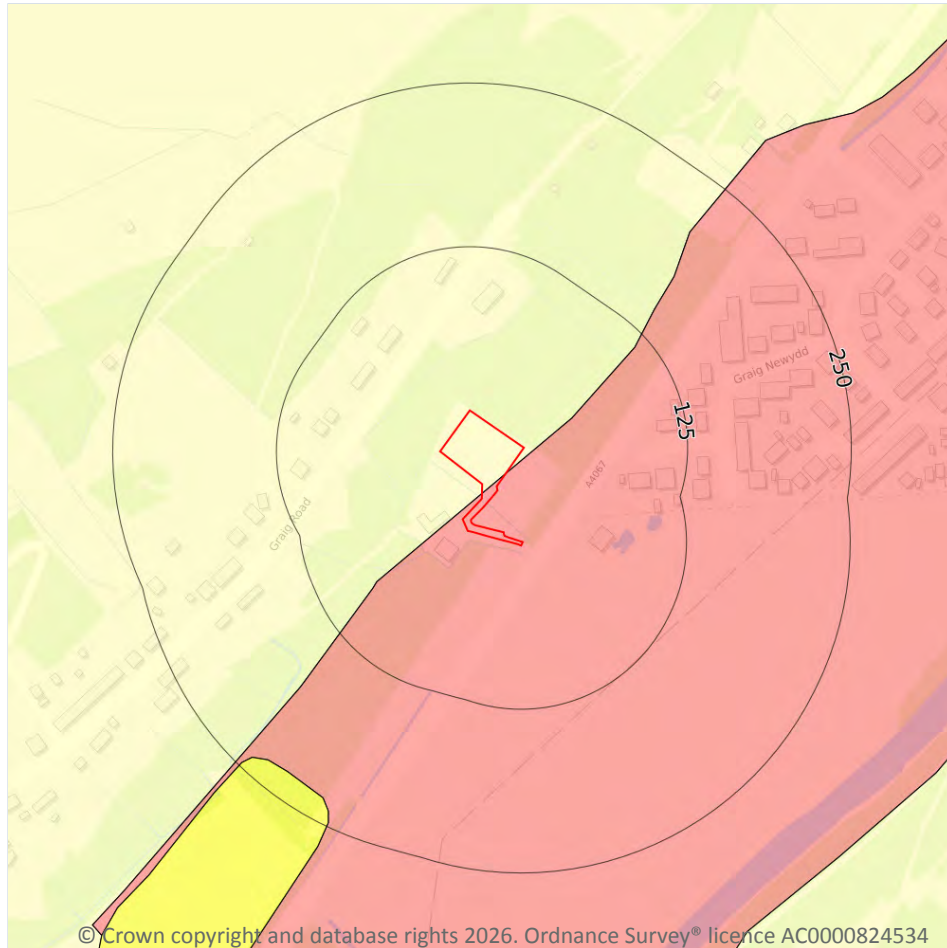
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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.
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

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 106](#) >

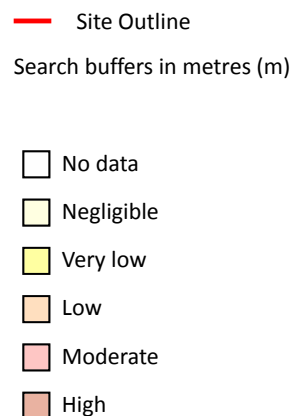
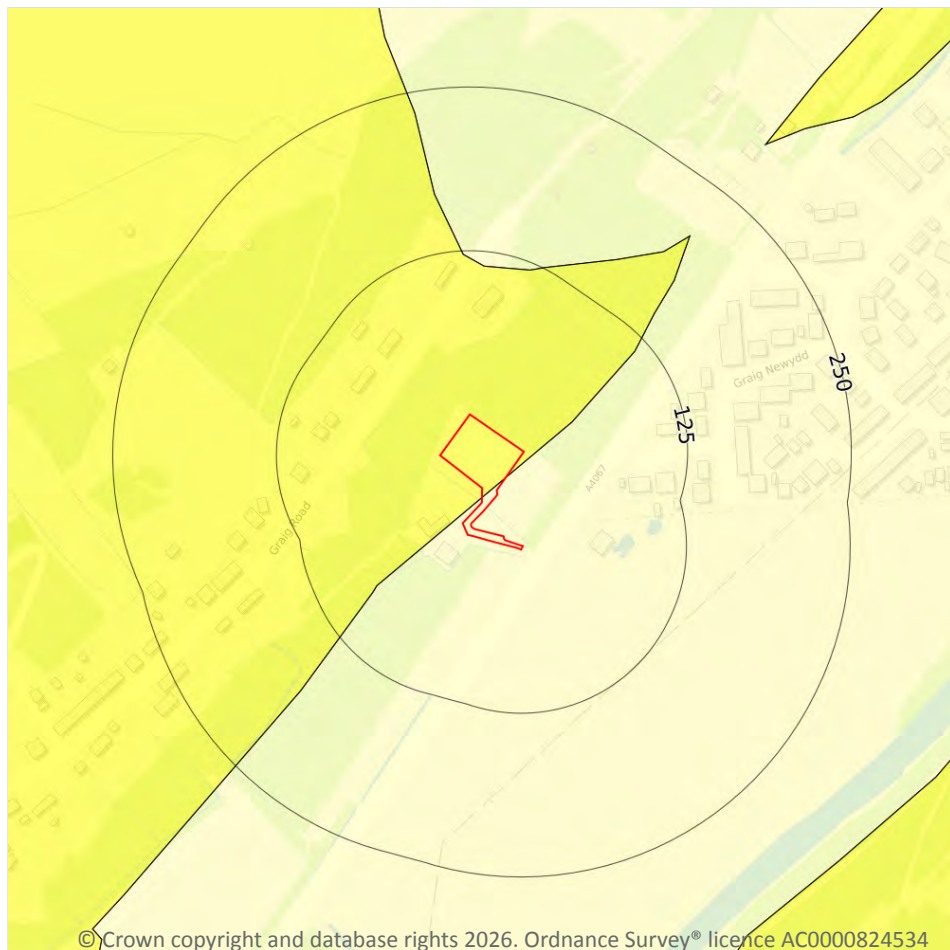
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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.

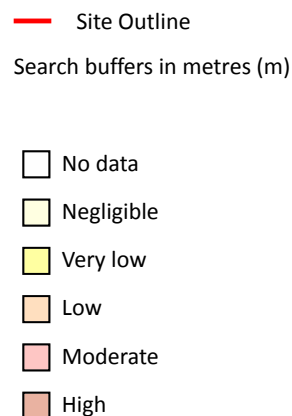
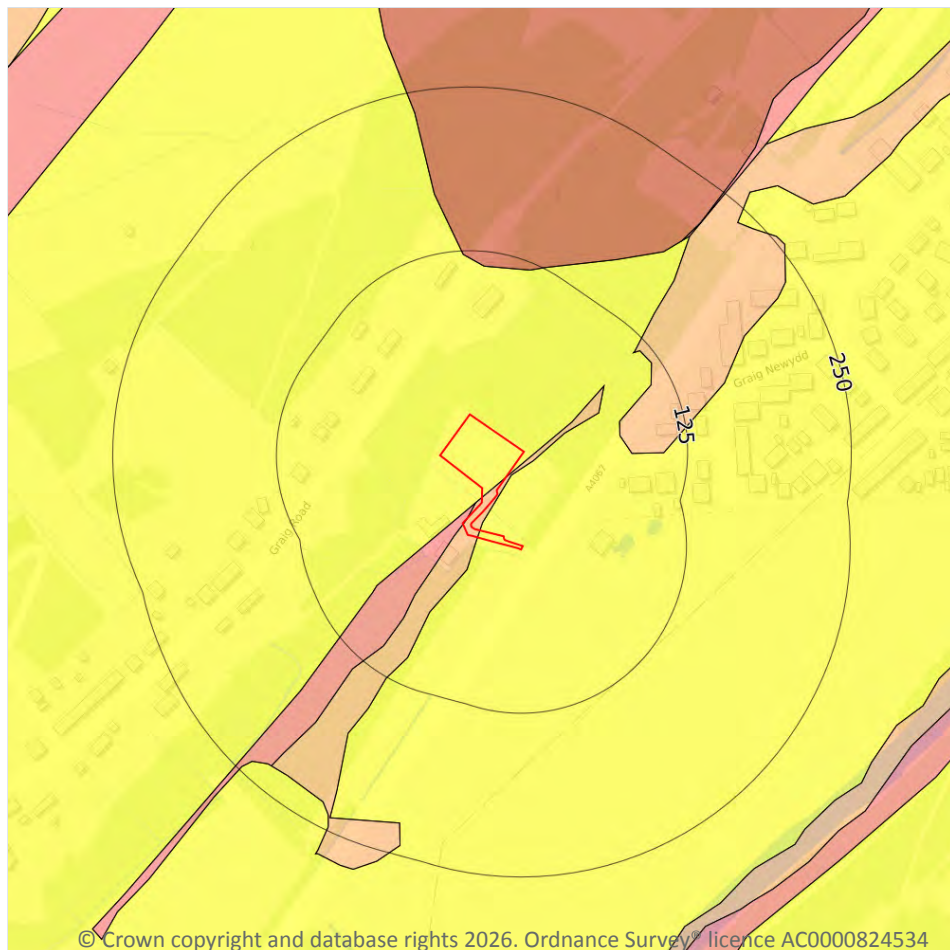
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 108](#) >

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



17.5 Landslides

Records within 50m

3

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 109](#) >

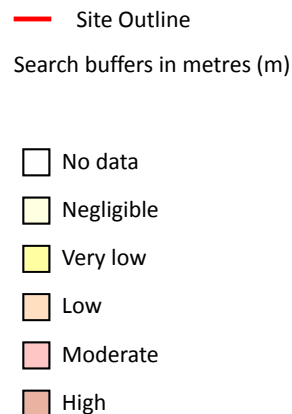
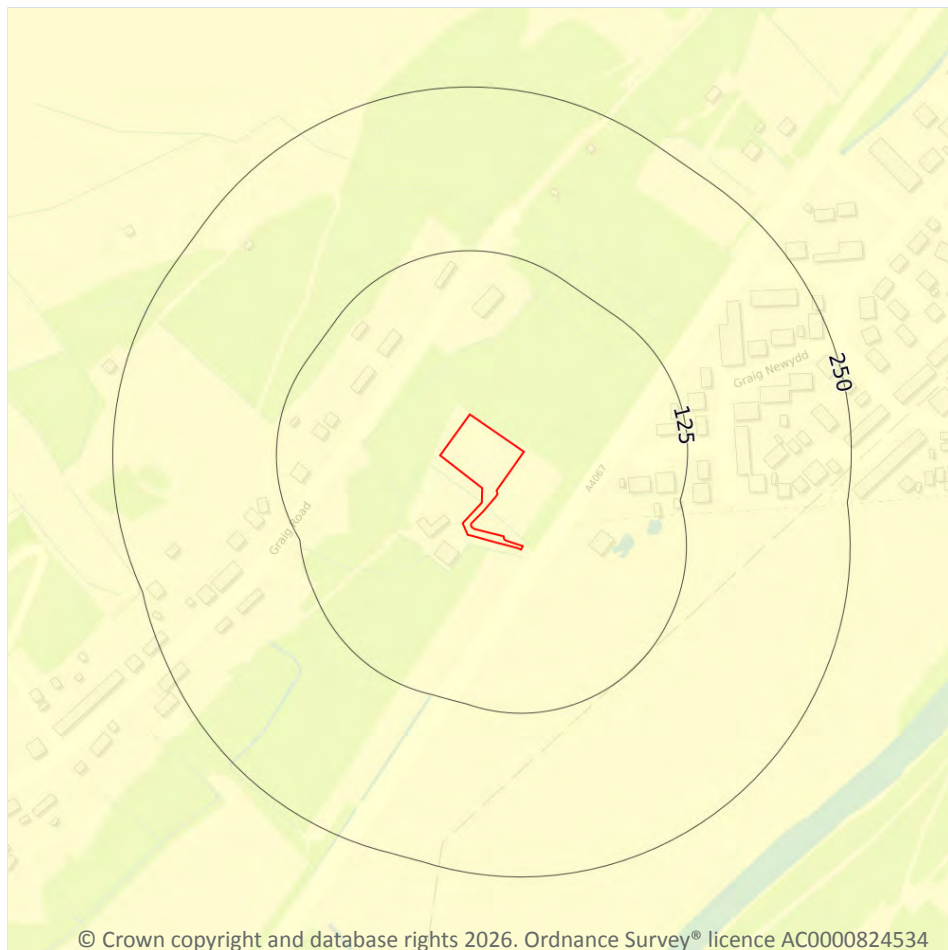
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

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.
On site	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



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.

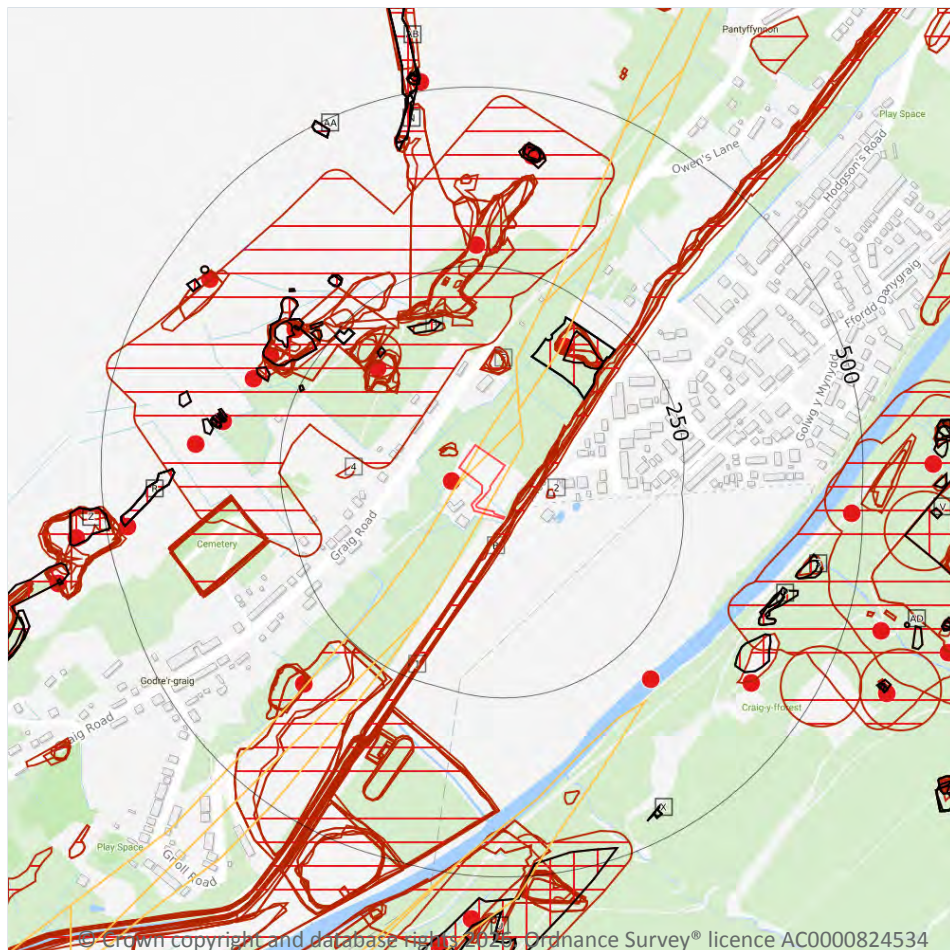
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 111](#) >

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

19

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 113](#) >

ID	Location	Details	Description
C	22m SW	Name: Cwm-tawe-ganol Mine Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
D	173m NW	Name: Godre'r-graig Quarry Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
F	184m NE	Name: Crumea Address: Ystalyfera, NEATH, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
G	279m N	Name: Llygad y Ffynnon Address: Ystalyfera, NEATH, Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
D	299m NW	Name: Pentwyn No. 2 Mine Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
5	304m SE	Name: Graig-forest Mine Address: Cilybebyll, YSTALAFERA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
D	306m NW	Name: Godre'r-graig Quarries Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
D	312m NW	Name: Godre'r-graig Quarries Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
D	313m NW	Name: Pentwyn No. 3 Mine Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
L	336m W	Name: Godre'r-graig Level Address: Godre'r-graig, NEATH, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
A	340m SW	Name: Godre'r-graig Address: Ystalyfera, NEATH, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
L	370m W	Name: Godre'r-graig Level Address: Godre'r-graig, NEATH, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
Q	411m N	Name: Llygad y Ffynnon Coal Level Address: Ystalyfera, NEATH, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
O	415m SE	Name: Graig-forest Mine Address: Cilybebyll, YSTALAFERA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
O	424m SE	Name: Graig-forest Mine Address: Cilybebyll, YSTALAFERA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
T	437m NW	Name: Graigarw Colliery Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
T	441m NW	Name: Graigarw Colliery Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
10	471m W	Name: Godre'r-graig Level Address: Godre'r-graig, SWANSEA, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
11	485m E	Name: Ynys-y-geinon Pit Address: YSTALAFERA, Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed 'Quarry' or 'Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	74
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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 113](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	4m SE	Canal	1948	1:10560
B	5m SE	Canal	1913	1:10560
B	5m SE	Canal	1913	1:10560
B	5m SE	Canal	1921	1:10560
1	6m SE	Canal	1948	1:10560
B	7m SE	Canal	1913	1:10560
B	7m SE	Canal	1897	1:10560
B	12m SE	Canal	1877	1:10560
C	14m NW	Unspecified Ground Workings	1913	1:10560
C	14m NW	Unspecified Pit	1897	1:10560
C	19m NW	Unspecified Ground Workings	1921	1:10560
2	66m NE	Pond	1897	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	82m NW	Colliery	1948	1:10560
E	103m N	Unspecified Heap	1948	1:10560
E	105m N	Unspecified Heap	1913	1:10560
E	108m N	Unspecified Heap	1948	1:10560
E	108m N	Unspecified Heap	1948	1:10560
E	109m N	Unspecified Heap	1921	1:10560
D	131m NW	Unspecified Quarry	1913	1:10560
D	135m NW	Unspecified Quarry	1948	1:10560
D	137m NW	Unspecified Disused Quarry	1983	1:10000
4	145m W	Unspecified Heap	1983	1:10000
D	149m NW	Unspecified Quarry	1948	1:10560
D	150m NW	Unspecified Quarry	1921	1:10560
D	152m NW	Unspecified Quarry	1913	1:10560
D	152m NW	Unspecified Quarry	1913	1:10560
D	154m NW	Old Coal Level	1913	1:10560
G	167m N	Unspecified Quarry	1948	1:10560
H	167m NW	Unspecified Heap	1877	1:10560
F	168m NE	Unspecified Disused Pit	1921	1:10560
F	168m NE	Disused Coal Pit	1877	1:10560
H	170m N	Unspecified Disused Level	1983	1:10000
F	172m NE	Unspecified Disused Pit	1913	1:10560
F	172m NE	Unspecified Disused Pit	1913	1:10560
F	173m NE	Unspecified Disused Pit	1948	1:10560
F	176m NE	Unspecified Heap	1965	1:10560
F	176m NE	Unspecified Heap	1980	1:10560
F	176m NE	Unspecified Heap	1983	1:10000
F	176m NE	Unspecified Disused Pit	1948	1:10560
F	176m NE	Unspecified Disused Pit	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	177m NE	Unspecified Disused Pit	1913	1:10560
F	177m NE	Unspecified Disused Pit	1897	1:10560
G	178m N	Unspecified Old Quarry	1913	1:10560
G	178m N	Unspecified Old Quarry	1913	1:10560
G	179m N	Unspecified Old Quarry	1948	1:10560
G	180m N	Unspecified Ground Workings	1897	1:10560
G	180m N	Unspecified Old Quarry	1913	1:10560
D	181m NW	Old Coal Level	1921	1:10560
D	183m NW	Colliery	1948	1:10560
D	183m NW	Colliery	1948	1:10560
G	185m N	Unspecified Old Quarry	1921	1:10560
D	185m NW	Refuse Heap	1965	1:10560
D	185m NW	Refuse Heap	1980	1:10560
G	186m N	Unspecified Disused Quarry	1983	1:10000
G	186m N	Unspecified Ground Workings	1965	1:10560
G	186m N	Unspecified Ground Workings	1980	1:10560
D	189m NW	Refuse Heap	1983	1:10000
D	189m NW	Refuse Heap	1948	1:10560
D	193m NW	Refuse Heap	1948	1:10560
D	193m NW	Refuse Heap	1948	1:10560
D	196m NW	Cuttings	1877	1:10560
G	222m N	Reservoir	1948	1:10560
G	227m N	Reservoir	1913	1:10560
G	227m N	Reservoir	1948	1:10560
G	228m N	Reservoir	1948	1:10560
D	231m NW	Refuse Heap	1983	1:10000
G	231m N	Reservoir	1921	1:10560
D	232m NW	Refuse Heap	1965	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	232m NW	Refuse Heap	1980	1:10560
G	234m N	Unspecified Heap	1980	1:10560
D	239m NW	Refuse Heap	1948	1:10560
D	239m NW	Refuse Heap	1948	1:10560
D	243m NW	Coal Level	1948	1:10560
D	245m NW	Unspecified Disused Quarries	1983	1:10000

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

18.3 Underground workings

Records within 1000m

178

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 113 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
F	145m NE	Unspecified Mine	1965	1:10560
F	145m NE	Unspecified Mine	1980	1:10560
F	145m NE	Unspecified Mine	1983	1:10000
F	168m NE	Disused Coal Pit	1877	1:10560
H	170m N	Unspecified Disused Level	1983	1:10000
D	181m NW	Old Coal Level	1921	1:10560
D	230m NW	Unspecified Disused Mine	1965	1:10560
D	230m NW	Unspecified Disused Mine	1980	1:10560
D	230m NW	Unspecified Mine	1983	1:10000
D	243m NW	Coal Level	1948	1:10560
D	259m NW	Unspecified Disused Levels	1965	1:10560
D	259m NW	Unspecified Disused Levels	1980	1:10560
D	262m NW	Coal Level	1877	1:10560
D	272m NW	Coal Level	1948	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	292m NW	Unspecified Disused Level	1983	1:10000
D	293m NW	Unspecified Disused Level	1965	1:10560
D	293m NW	Unspecified Disused Level	1980	1:10560
D	293m NW	Disused Coal Level	1877	1:10560
D	293m NW	Coal Level	1948	1:10560
D	295m NW	Coal Level	1913	1:10560
D	295m NW	Coal Level	1897	1:10560
D	332m NW	Coal Level	1921	1:10560
L	332m W	Coal Level	1948	1:10560
L	332m W	Coal Level	1921	1:10560
L	332m W	Coal Level	1913	1:10560
L	332m W	Coal Level	1897	1:10560
L	337m W	Old Coal Level	1948	1:10560
L	338m W	Old Coal Level	1921	1:10560
L	338m W	Old Coal Level	1913	1:10560
L	338m W	Old Coal Level	1897	1:10560
L	348m W	Unspecified Disused Levels	1983	1:10000
O	378m SE	Unspecified Mine	1965	1:10560
O	378m SE	Unspecified Mine	1980	1:10560
P	381m E	Old Coal Level	1948	1:10560
P	384m E	Coal Levels	1913	1:10560
P	384m E	Coal Levels	1897	1:10560
L	386m W	Unspecified Disused Levels	1983	1:10000
P	387m E	Old Coal Level	1921	1:10560
Q	397m N	Old Coal Levels	1921	1:10560
R	398m W	Unspecified Disused Levels	1965	1:10560
R	398m W	Unspecified Disused Levels	1980	1:10560
R	398m W	Unspecified Disused Levels	1983	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
Q	404m N	Old Coal Levels	1913	1:10560
Q	404m N	Old Coal Levels	1897	1:10560
Q	406m N	Old Coal Levels	1948	1:10560
Q	407m N	Unspecified Disused Level	1983	1:10000
S	416m E	Coal Levels	1913	1:10560
S	416m E	Coal Levels	1897	1:10560
N	426m N	Old Coal Levels	1913	1:10560
N	426m N	Old Coal Levels	1897	1:10560
N	436m N	Old Coal Levels	1921	1:10560
T	442m NW	Unspecified Mine	1965	1:10560
T	442m NW	Unspecified Mine	1980	1:10560
T	445m NW	Unspecified Disused Level	1983	1:10000
X	457m SE	Unspecified Disused Level	1965	1:10560
X	457m SE	Unspecified Disused Level	1980	1:10560
U	475m S	Colliery	1921	1:10560
AA	477m NW	Unspecified Disused Levels	1965	1:10560
AA	477m NW	Unspecified Disused Levels	1980	1:10560
AA	477m NW	Unspecified Disused Levels	1983	1:10000
Z	495m W	Unspecified Disused Levels	1965	1:10560
Z	495m W	Unspecified Disused Levels	1980	1:10560
AB	495m N	Unspecified Disused Level	1965	1:10560
AB	495m N	Unspecified Disused Level	1980	1:10560
AB	495m N	Unspecified Disused Level	1983	1:10000
AB	510m N	Old Coal Level	1948	1:10560
AB	510m N	Old Coal Level	1913	1:10560
AB	510m N	Coal Levels	1897	1:10560
AB	515m N	Old Coal Level	1921	1:10560
U	549m S	Unspecified Disused Mine	1965	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
U	549m S	Unspecified Disused Mine	1980	1:10560
U	549m S	Unspecified Disused Mine	1983	1:10000
12	560m E	Colliery	1913	1:10560
AH	565m W	Unspecified Disused Levels	1965	1:10560
AE	571m SE	Old Coal Level	1948	1:10560
AE	573m SE	Unspecified Disused Level	1983	1:10000
AE	576m SE	Old Coal Level	1913	1:10560
AE	576m SE	Old Coal Level	1897	1:10560
AH	576m W	Old Coal Level	1897	1:10560
AD	579m E	Coal Level	1877	1:10560
AD	594m E	Unspecified Disused Levels	1983	1:10000
V	596m E	Unspecified Disused Level	1983	1:10000
V	600m E	Coal Level	1877	1:10560
V	600m E	Unspecified Old Level	1921	1:10560
V	602m E	Coal Levels	1897	1:10560
V	603m E	Unspecified Old Level	1913	1:10560
V	607m E	Unspecified Old Level	1965	1:10560
V	607m E	Unspecified Old Level	1980	1:10560
V	614m E	Unspecified Disused Level	1983	1:10000
V	630m E	Coal Pit	1877	1:10560
AD	630m E	Old Coal Level	1948	1:10560
AD	631m E	Old coal Level	1913	1:10560
AD	631m E	Old coal Level	1897	1:10560
AD	631m E	Old Coal Level	1921	1:10560
AH	640m W	Coal Level	1921	1:10560
AH	647m W	Coal Level	1913	1:10560
AH	647m W	Coal Level	1897	1:10560
-	650m E	Unspecified Disused Levels	1983	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	651m S	Unspecified Mines	1965	1:10560
-	651m S	Unspecified Level	1983	1:10000
-	652m E	Coal Level	1877	1:10560
-	666m NE	Old Coal Level	1948	1:10560
-	686m E	Unspecified Old Level	1948	1:10560
-	705m E	Unspecified Disused Levels	1983	1:10000
AN	709m SE	Old Coal Levels	1913	1:10560
AN	709m SE	Old Coal Levels	1921	1:10560
AN	713m SE	Unspecified Disused Levels	1965	1:10560
AN	713m SE	Unspecified Disused Levels	1980	1:10560
AN	714m SE	Unspecified Disused Levels	1983	1:10000
-	715m N	Old Coal Level	1913	1:10560
-	715m N	Old Coal Level	1897	1:10560
-	718m N	Old Coal Level	1948	1:10560
-	720m N	Old Coal Level	1921	1:10560
-	721m N	Unspecified Disused Levels	1965	1:10560
-	721m N	Unspecified Disused Levels	1980	1:10560
-	721m N	Unspecified Disused Levels	1983	1:10000
-	732m E	Unspecified Disused Level	1983	1:10000
-	743m SE	Old Coal Levels	1948	1:10560
-	748m W	Coal Level	1948	1:10560
-	749m E	Unspecified Disused Mine	1965	1:10560
-	749m E	Unspecified Disused Mine	1980	1:10560
-	749m E	Unspecified Disused Mine	1983	1:10000
-	751m N	Old Coal Level	1921	1:10560
-	769m E	Old Coal Level	1897	1:10560
-	769m E	Unspecified Old Level	1913	1:10560
-	774m E	Unspecified Old Level	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	775m E	Unspecified Old Level	1948	1:10560
-	811m E	Unspecified Disused Levels	1965	1:10560
-	811m E	Unspecified Disused Levels	1980	1:10560
-	811m E	Unspecified Disused Levels	1983	1:10000
-	811m S	Unspecified Disused Levels	1983	1:10000
-	812m E	Unspecified Old Level	1921	1:10560
-	813m E	Old Coal Levels	1897	1:10560
-	814m W	Old Coal Level	1921	1:10560
-	820m W	Old Coal Level	1913	1:10560
-	820m W	Old Coal Level	1897	1:10560
-	820m W	Old Coal Level	1948	1:10560
-	822m W	Unspecified Disused Levels	1990	1:10000
-	824m W	Unspecified Disused Levels	1965	1:10560
-	825m S	Old Coal Level	1921	1:10560
-	827m S	Old Coal Level	1948	1:10560
-	829m S	Old Coal Level	1913	1:10560
-	829m S	Coal Level	1897	1:10560
-	838m SE	Old Coal Levels	1948	1:10560
-	847m E	Unspecified Disused Levels	1965	1:10560
-	847m E	Unspecified Disused Levels	1980	1:10560
-	847m E	Unspecified Disused Levels	1983	1:10000
-	853m E	Unspecified Old Level	1913	1:10560
-	875m E	Unspecified Disused Levels	1965	1:10560
-	875m E	Unspecified Disused Levels	1980	1:10560
-	875m E	Unspecified Disused Levels	1983	1:10000
-	877m W	Unspecified Disused Levels	1990	1:10000
-	877m W	Old Coal Level	1921	1:10560
-	878m W	Unspecified Disused Levels	1965	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	879m E	Unspecified Old Level	1921	1:10560
-	880m W	Old Coal Level	1913	1:10560
-	880m W	Old Coal Level	1897	1:10560
-	881m W	Old Coal Level	1948	1:10560
-	898m N	Old Coal Levels	1913	1:10560
-	898m N	Old Coal Levels	1897	1:10560
-	898m N	Old Coal Levels	1921	1:10560
-	900m E	Unspecified Disused Levels	1983	1:10000
-	905m N	Old Coal Levels	1948	1:10560
-	928m W	Unspecified Disused Levels	1990	1:10000
-	930m W	Unspecified Disused Levels	1965	1:10560
-	931m W	Old Coal Level	1921	1:10560
-	932m W	Old Coal Level	1913	1:10560
-	932m W	Old Coal Level	1948	1:10560
-	937m N	Coal Level	1877	1:10560
-	939m W	Old Coal Level	1897	1:10560
-	952m E	Unspecified Disused Levels	1983	1:10000
-	957m E	Unspecified Mine	1983	1:10000
-	986m W	Coal Level	1913	1:10560
-	988m W	Unspecified Disused Levels	1965	1:10560
-	989m W	Coal Level	1921	1:10560
-	989m W	Unspecified Disused Levels	1990	1:10000
-	989m W	Coal Level	1948	1:10560
-	996m E	Unspecified Old Level	1948	1:10560

This is 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

4

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

Features are displayed on the Mining and ground workings map on [page 113 >](#)

ID	Location	Name	Commodity	Class	Likelihood
A	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
3	76m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
6	321m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
19	788m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

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.

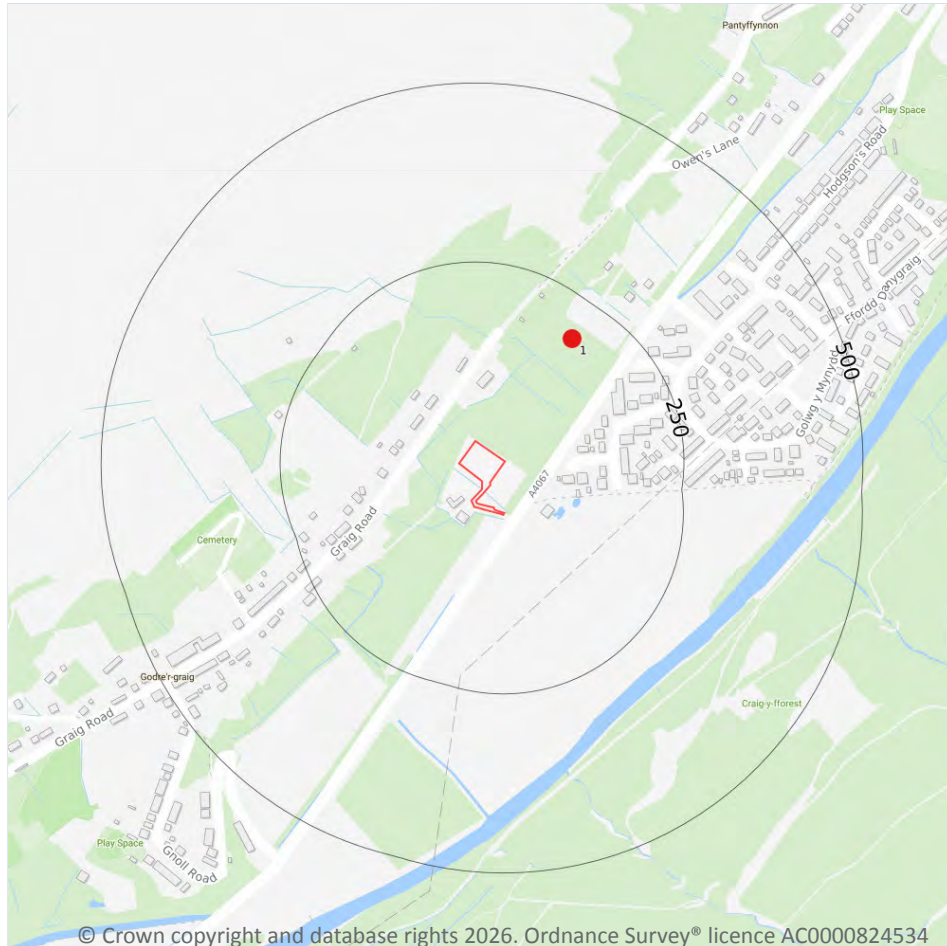
18.16 Clay mining

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



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents

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

1

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.

Features are displayed on the Ground cavities and sinkholes map on [page 134 >](#)

ID	Location	Mine Address	Mineral
1	195m NE	Frampton On Severn, West Glamorgan	Unknown

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

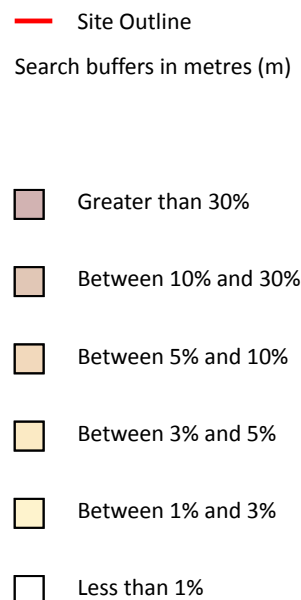
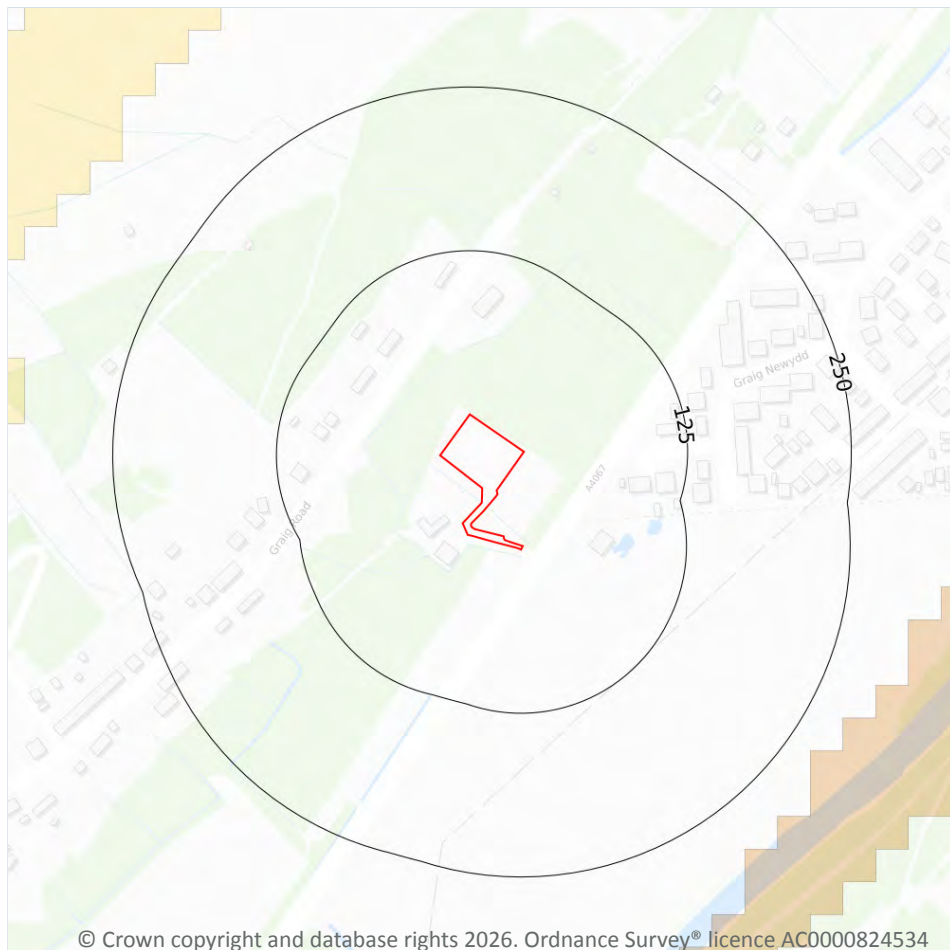
This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey® maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising 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.



20 Radon



20.1 Radon

Records on site

1

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 136](#) >

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

6

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 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	30 - 45 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	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
7m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
42m W	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

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)
- 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

6

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 140 >](#)

Location	Land Use	Year of mapping	Mapping scale
227m NW	Railway Sidings	1948	10560
232m NW	Railway Sidings	1987	2500
232m NW	Railway Sidings	1979	2500
233m NW	Railway Sidings	1993	2500
233m NW	Railway Sidings	1962	2500
237m NW	Railway Sidings	1948	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**0**

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

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 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.

22.9 HS2

Records within 500m**0**

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-conditions-april-2026/ ↗.



Appendix 4: Historical Map Selection

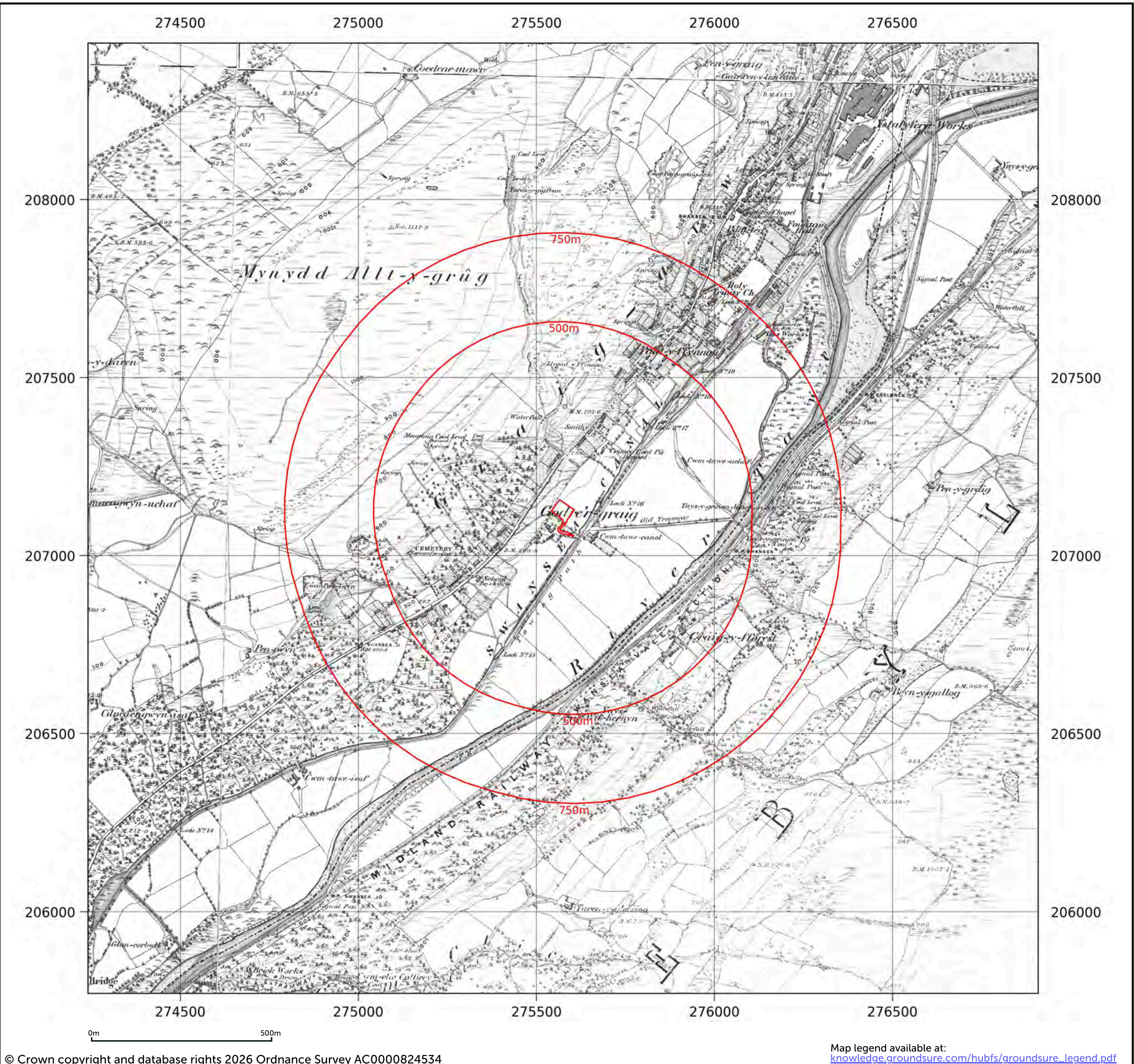
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Client ref:	Cwntawe Ganol Farm SA9 2NX 38902218
Report ref:	GS-7J6-TN6-44Y-G8R
Grid ref:	275574.75, 207117.02
Production date:	21 May 2026

Map name:	County Series
Map date:	1876-1877
Scale:	1:10,560
Printed at:	1:10,560



Date: 1877 Surveyed: 1877 Revised: 1877	Date: 1876 Surveyed: 1876 Revised: 1876
Date: 1877 Surveyed: 1877 Revised: 1877	Date: 1877 Surveyed: 1877 Revised: 1877

Contact us with any questions at:
info@groundsure.com
01273 257 755



Site details:

Cwntawe Ganol Farm,
Godrergrraig, Swansea Valley,
Glamorgan, SA9 2NX

Client ref:

Cwntawe Ganol Farm SA9
2NX 38902218

Report ref:

GS-7J6-TN6-44Y-G8R

Grid ref:

275574.75, 207117.02

Production date:

21 May 2026

Map name:

County Series

Map date:

1877

Scale:

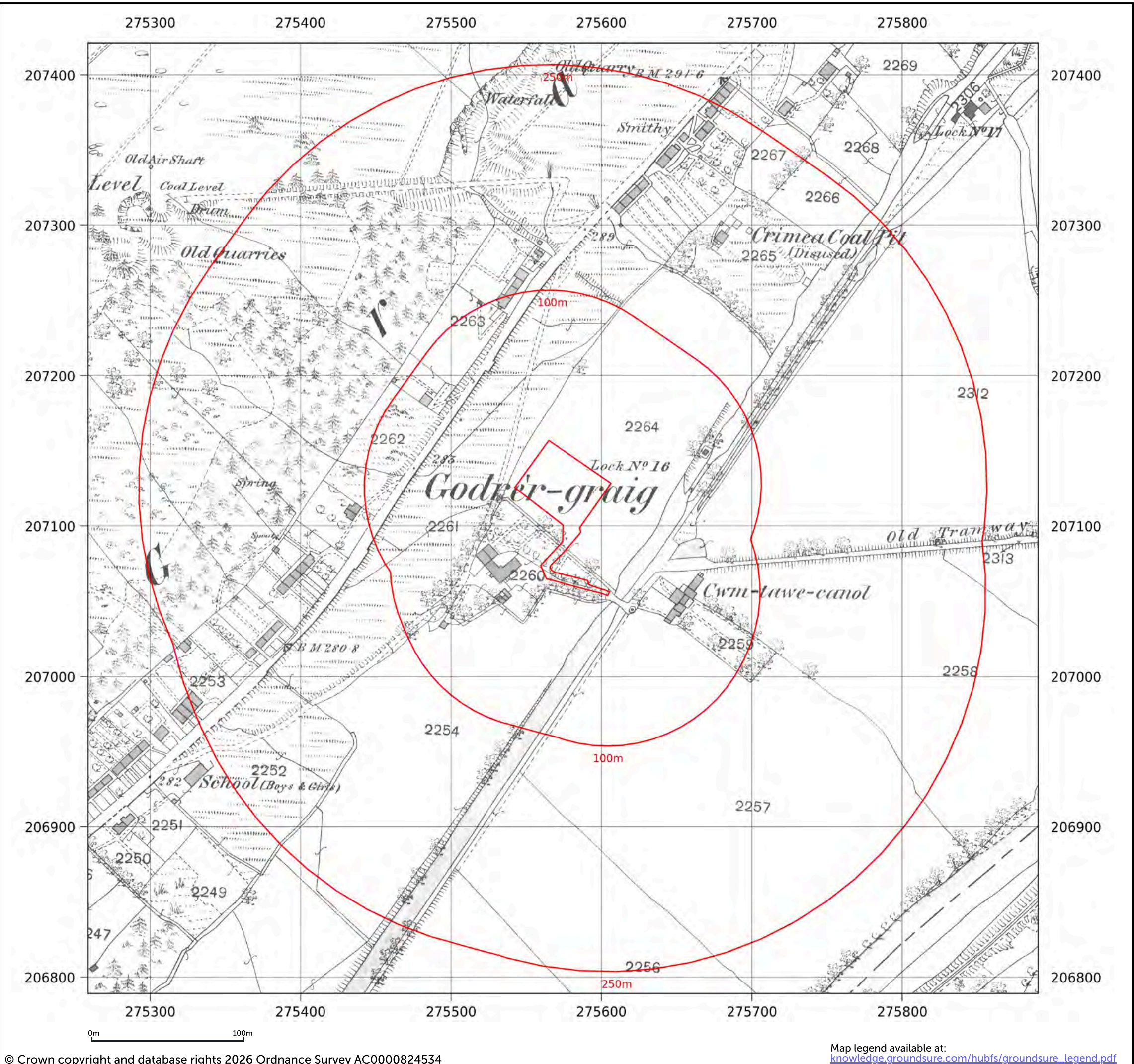
1:2,500

Printed at:

1:2,500

Date: 1877
Surveyed: 1877
Revised: 1877

Contact us with any questions at:
info@groundsure.com
01273 257 755



Site details:

Cwntawe Ganol Farm,
Godrergrraig, Swansea Valley,
Glamorgan, SA9 2NX

Client ref:

Cwntawe Ganol Farm SA9
2NX 38902218

Report ref:

GS-7J6-TN6-44Y-G8R

Grid ref:

275574.75, 207117.02

Production date:

21 May 2026

Map name:

County Series

Map date:

1899

Scale:

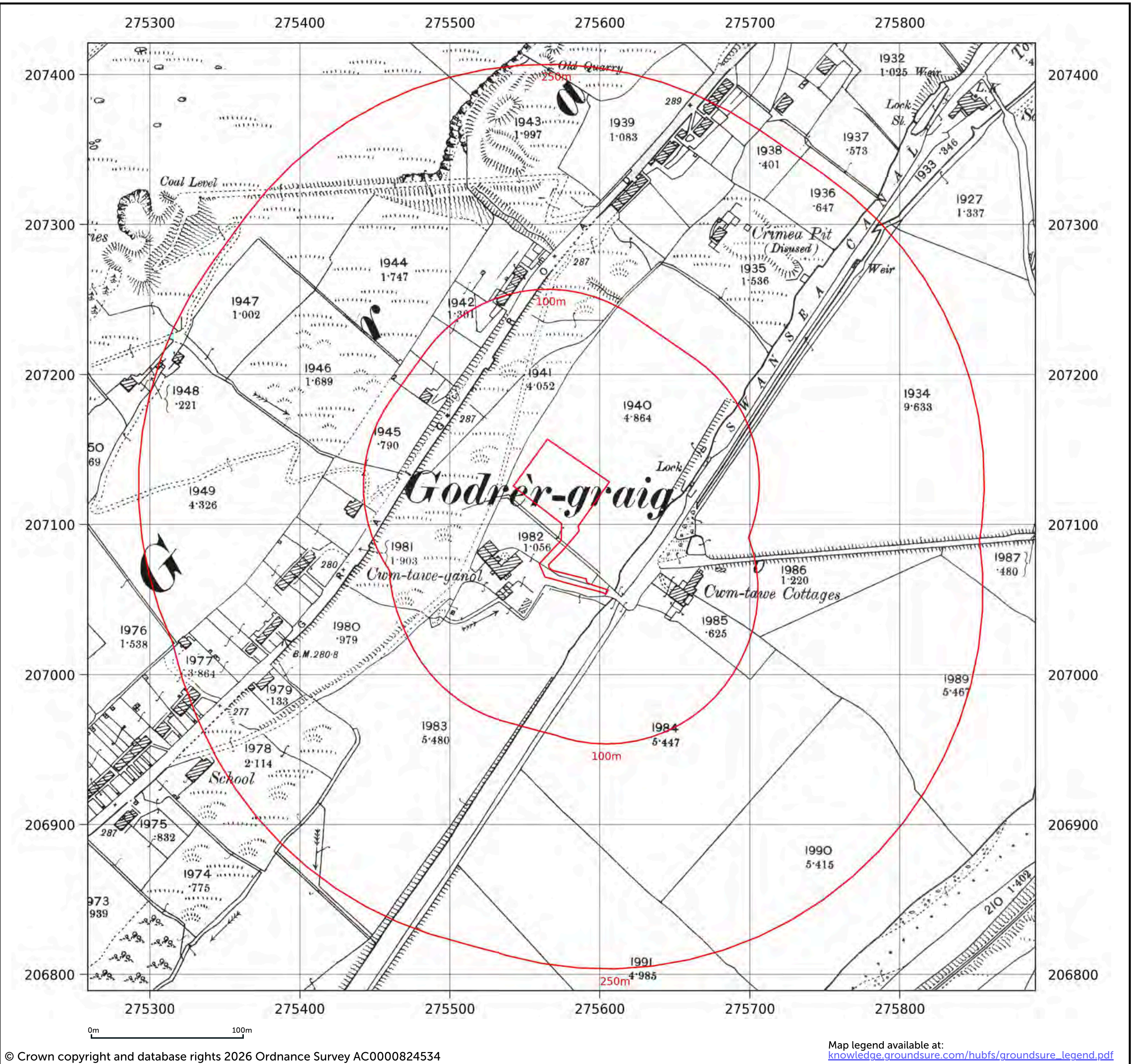
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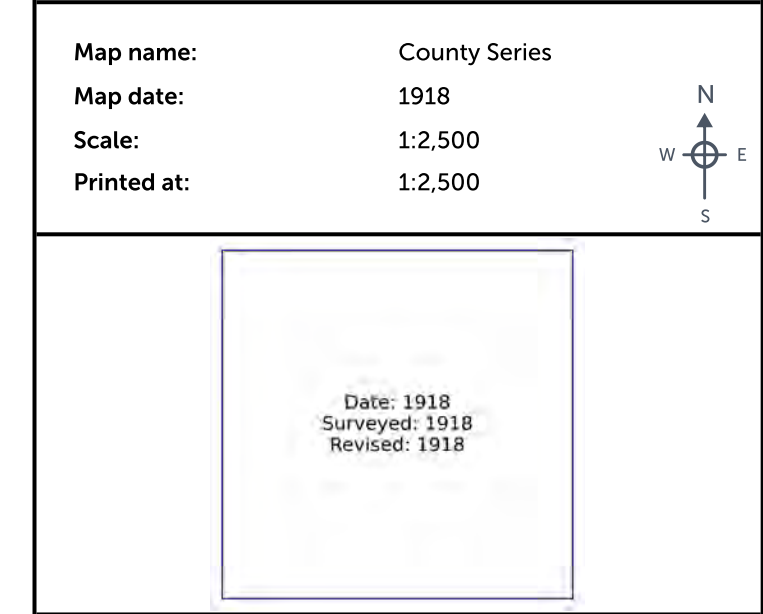
Printed at:

1:2,500

Date: 1899
Surveyed: 1899
Revised: 1899

Contact us with any questions at:
info@groundsure.com
01273 257 755





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Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Site details: Cwntawe Ganol Farm, Godrergrai, Swansea Valley, Glamorgan, SA9 2NX
Client ref: Cwntawe Ganol Farm SA9 2NX 38902218
Report ref: GS-7J6-TN6-44Y-G8R
Grid ref: 275574.75, 207117.02
Production date: 21 May 2026

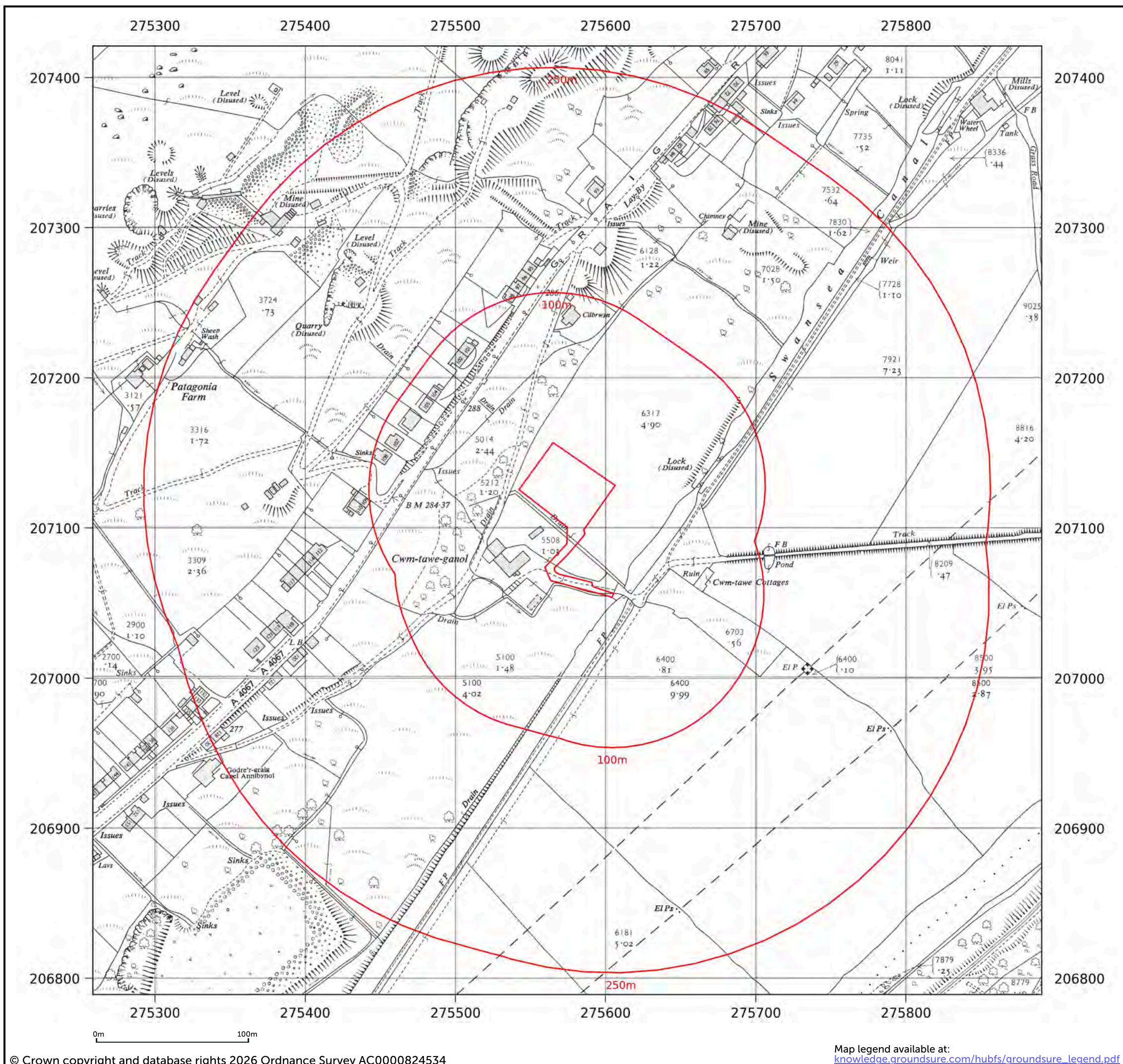
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Map date: 1962
Scale: 1:2,500
Printed at: 1:2,500



Date: 1962
 Surveyed: 1960
 Revised: 1960
 Copyright: 1962
 Levelled: 1956

Date: 1962
 Surveyed: 1960
 Revised: 1960
 Copyright: 1962
 Levelled: 1956

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 01273 257 755



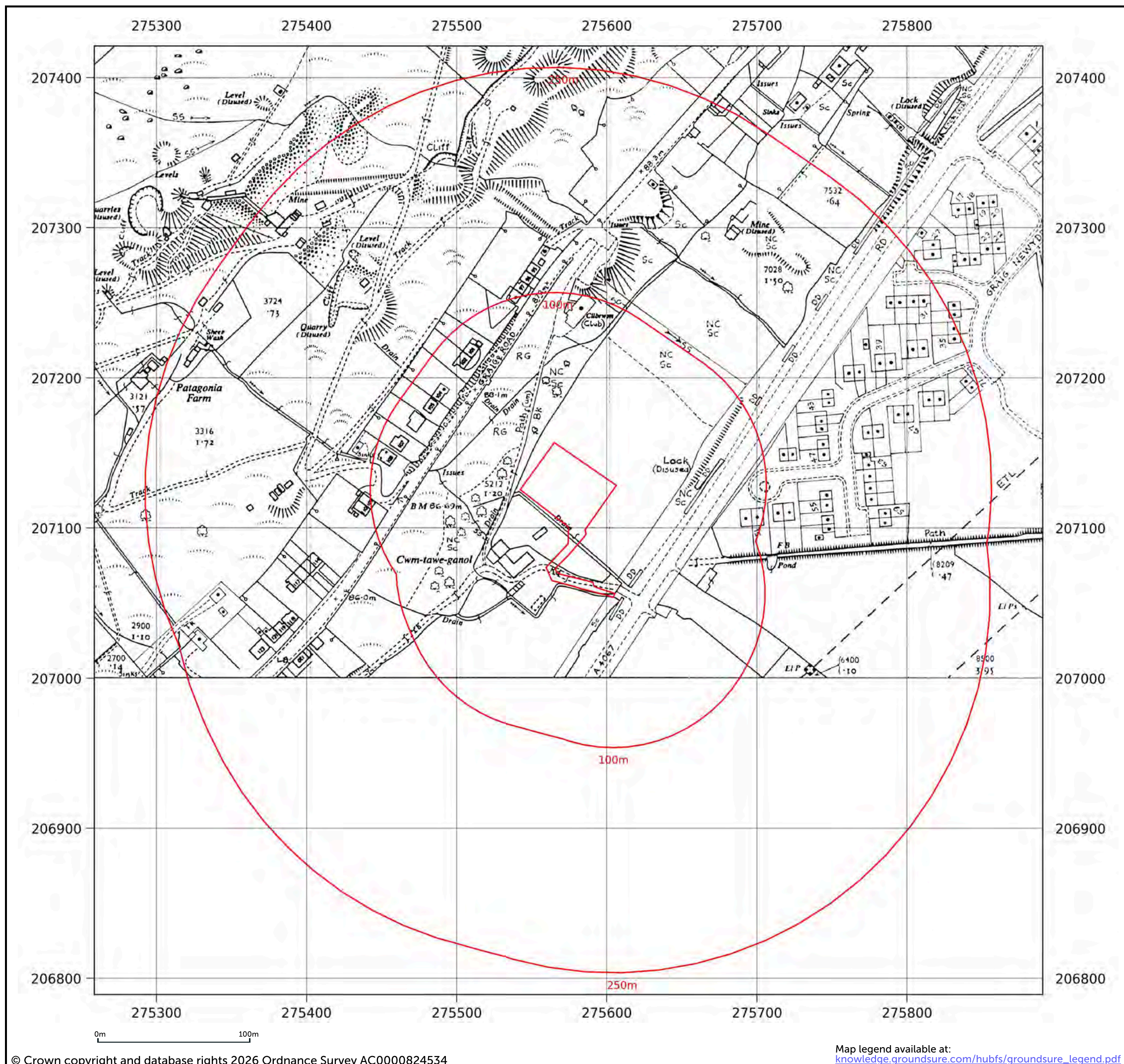
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Client ref: Cwntawe Ganol Farm SA9 2NX 38902218
Report ref: GS-7J6-TN6-44Y-G8R
Grid ref: 275574.75, 207117.02
Production date: 21 May 2026

Map name: National Grid
Map date: 1987
Scale: 1:2,500
Printed at: 1:2,500



Date: 1987
 Surveyed: 1963
 Revised: 1987
 Copyright: 1987
 Levelled: 1963

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Site details: Cwntawe Ganol Farm, Godrergraig, Swansea Valley, Glamorgan, SA9 2NX
Client ref: Cwntawe Ganol Farm SA9 2NX 38902218
Report ref: GS-7J6-TN6-44Y-G8R
Grid ref: 275574.75, 207117.02
Production date: 21 May 2026

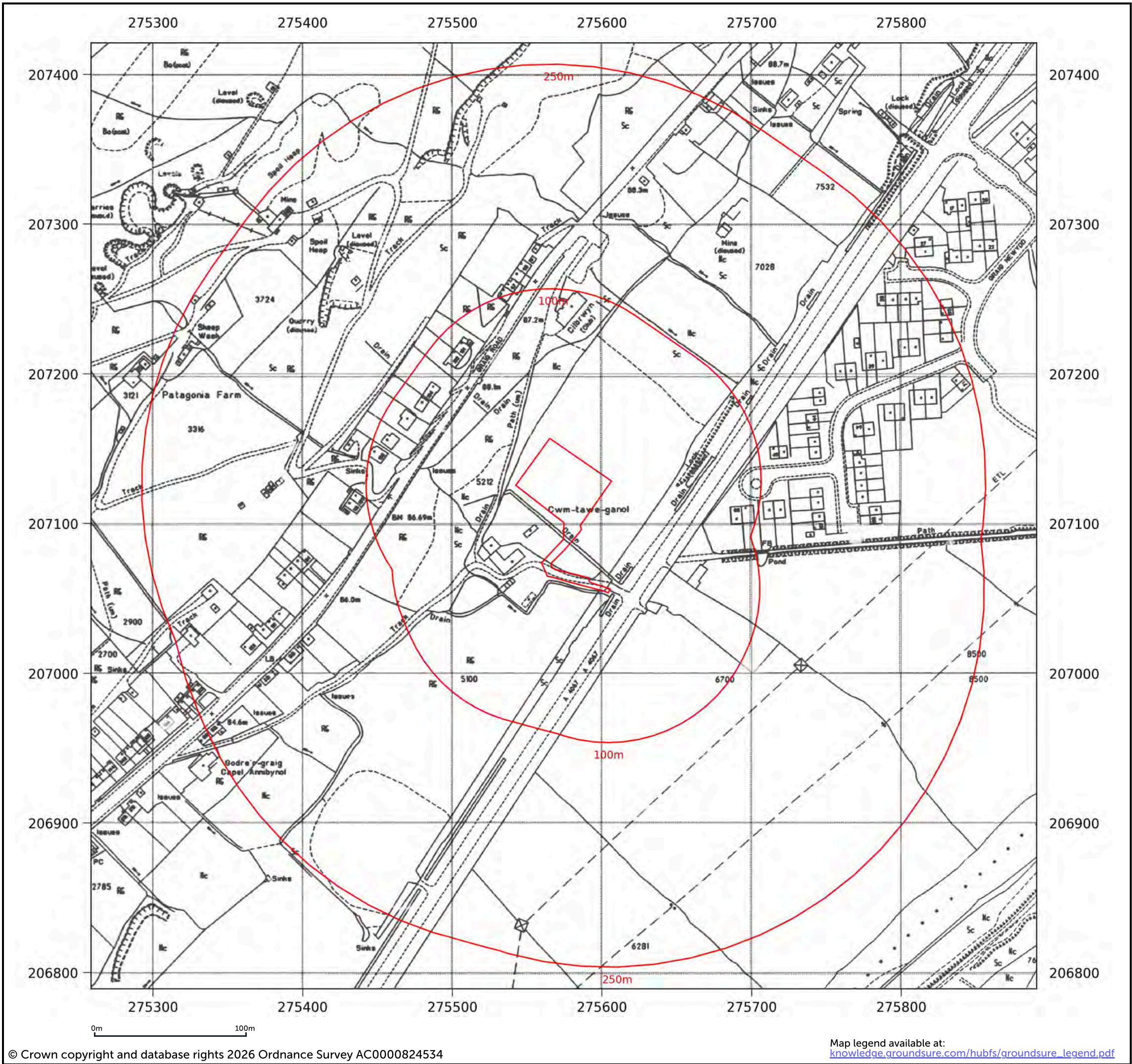
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Scale: 1:2,500
Printed at: 1:2,500



Date: 1993
Surveyed: 1993
Copyright: 1993

Date: 1993
Surveyed: 1993
Copyright: 1993

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Site details: Cwntawe Ganol Farm, Godrergraig, Swansea Valley, Glamorgan, SA9 2NX

Client ref: Cwntawe Ganol Farm SA9 2NX 38902218

Report ref: GS-7J6-TN6-44Y-G8R

Grid ref: 275574.75, 207117.02

Production date: 21 May 2026

Map name: LandLine

Map date: 2003

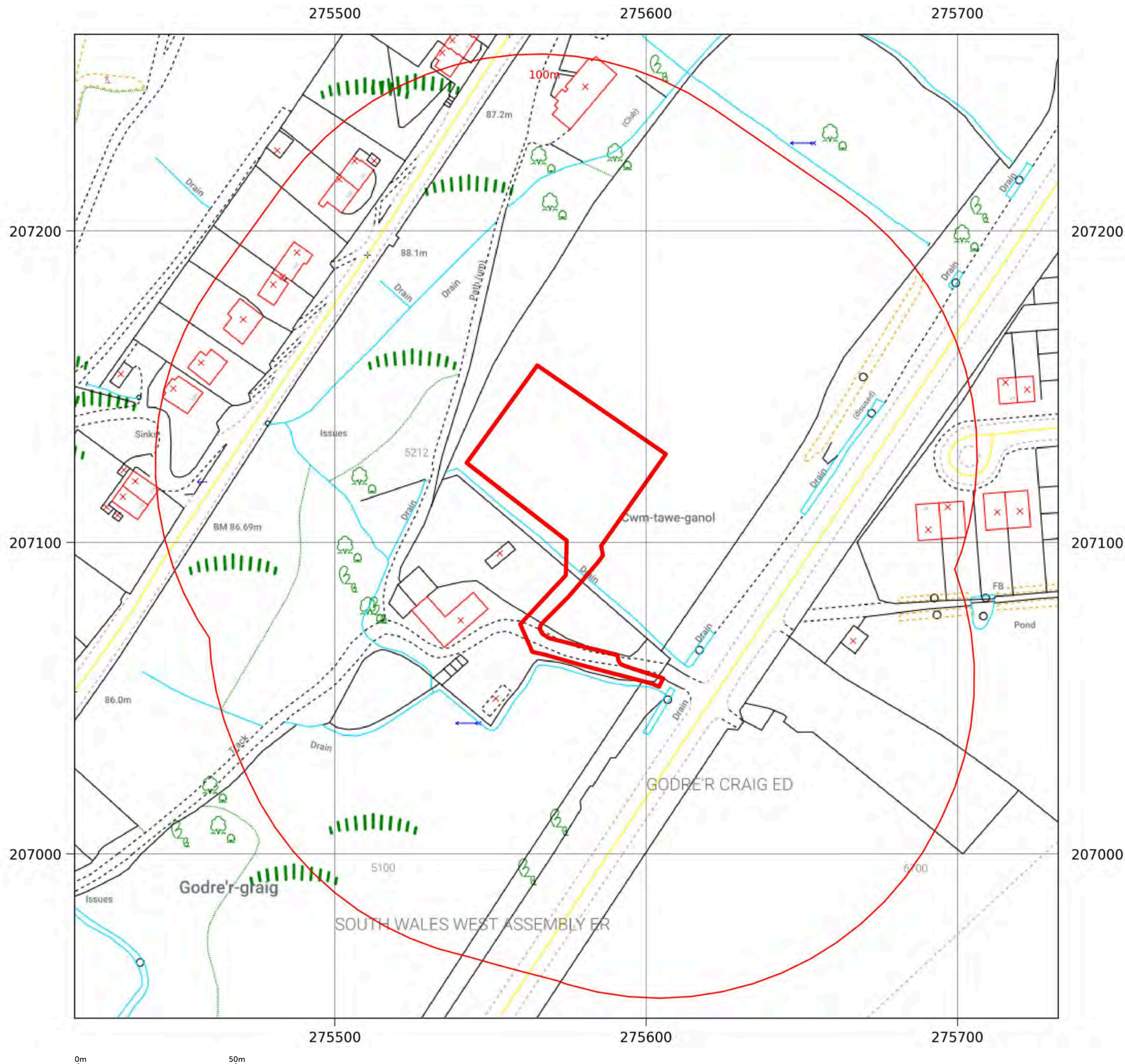
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Printed at: 1:1,250



Date: 2003

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info@groundsure.com
 01273 257 755



Site details:

Cwntawe Ganol Farm,
Godrergraig, Swansea Valley,
Glamorgan, SA9 2NX

Client ref:

Cwntawe Ganol Farm SA9
2NX 38902218

Report ref:

GS-7J6-TN6-44Y-G8R

Grid ref:

275574.75, 207117.02

Production date:

21 May 2026

Map name:

National Grid

Map date:

2010

Scale:

1:10,000

Printed at:

1:10,000

Date: 2010

Date: 2010

N

W

E

S

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Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Groundsure

LOCATION INTELLIGENCE

Ordnance Survey

Licensed Data

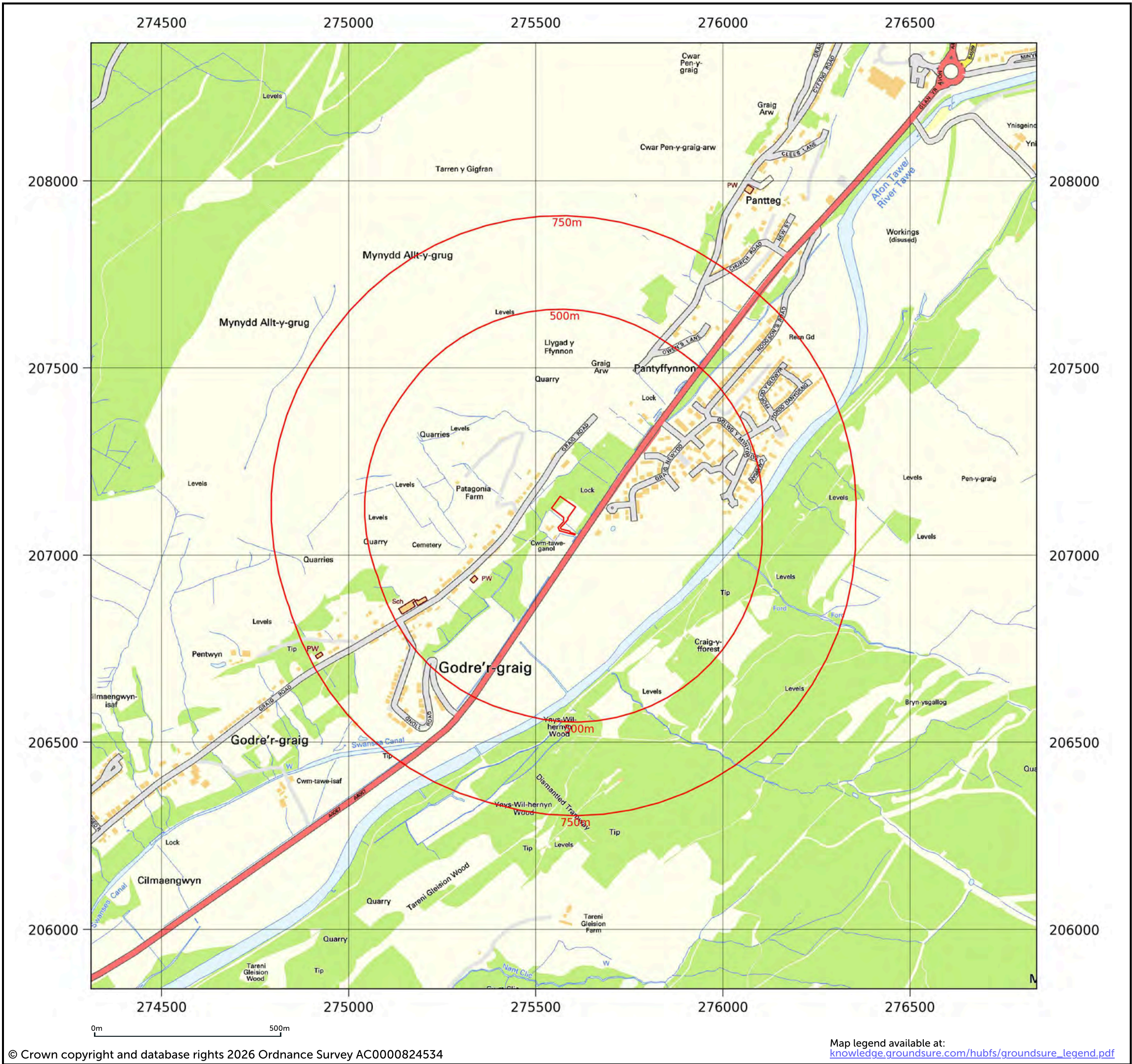
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Grid ref:	275574.75, 207117.02
Production date:	21 May 2026

Map name:	National Grid
Map date:	2015
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Printed at:	1:10,000



Date: 2015	Date: 2015
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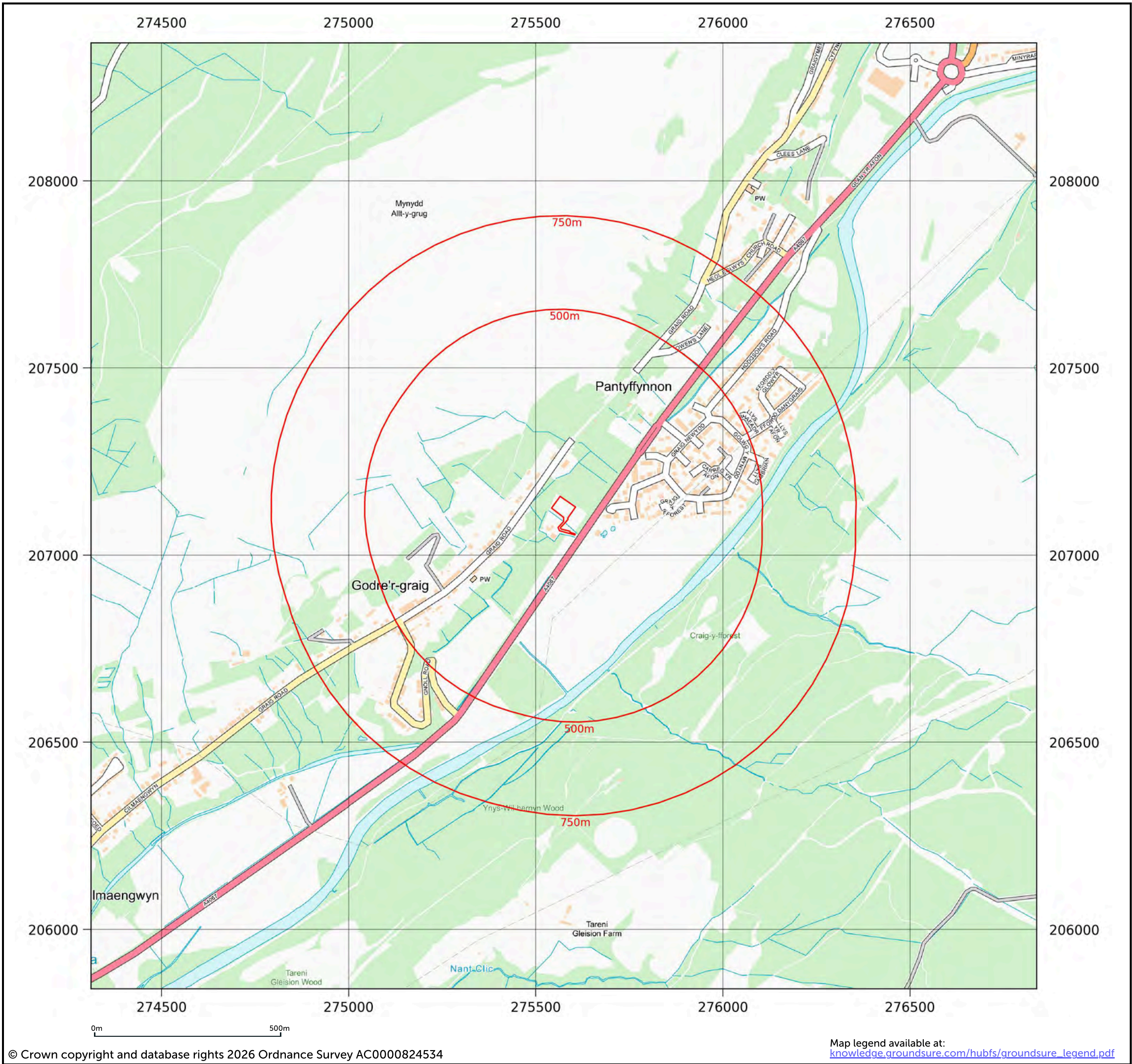
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Production date:	21 May 2026

Map name:	National Grid
Map date:	2025
Scale:	1:10,000
Printed at:	1:10,000



Date: 2025	Date: 2025
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Appendix 5: Zetica UXO Mapping

UNEXPLODED BOMB RISK MAP



SITE LOCATION

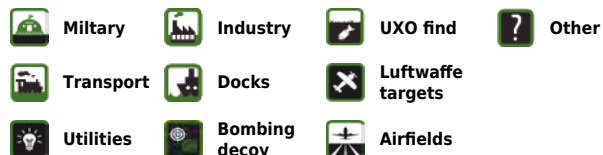
Location: SA9 2NX,
Map Centre: 275546,207263



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

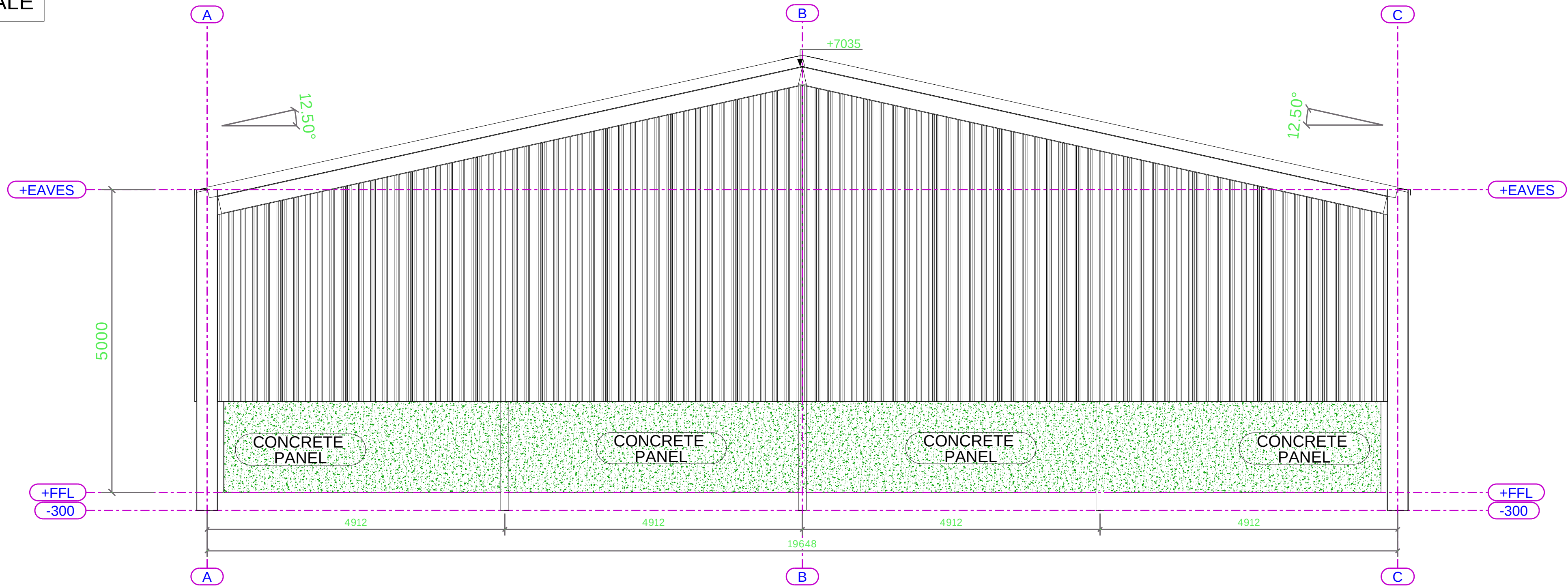
tel: [+44 \(0\) 1993 886682](tel:+44(0)1993886682) email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

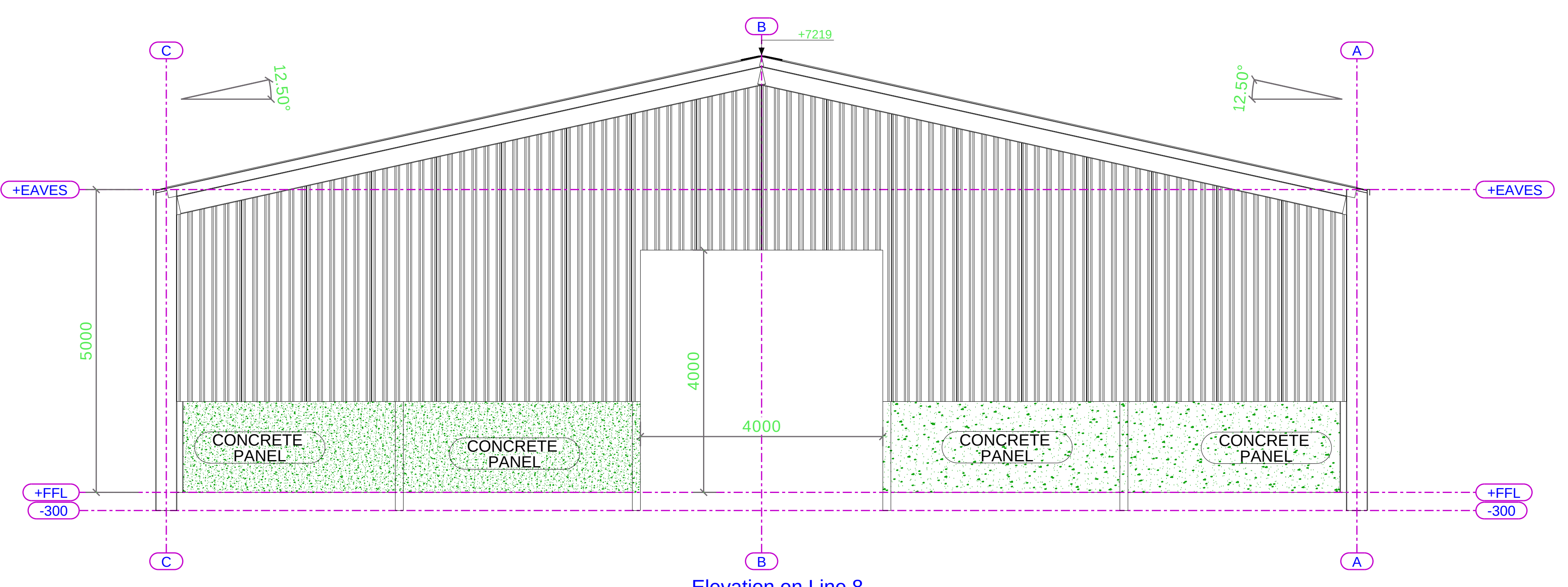
Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgement. The copyright remains with Zetica Ltd.

Appendix 6: Development Plans

DO NOT SCALE



Elevation on Line 1
Scale 1 : 50 @ A0

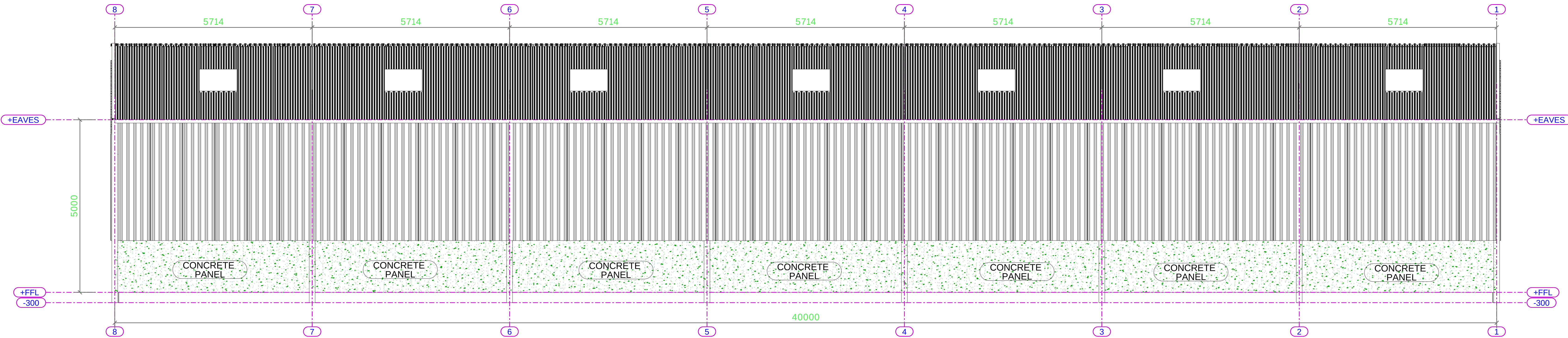


Elevation on Line 8
Scale 1 : 50 @ A0

Gable Views:
Down 3.7m below eaves level in Vertical Treated Timber
Yorkshire Boarding with Treated Timber side rails.

95*1500mm Concrete Panels with Drip flashing below cladding.

Incorporating 3 No. Gable Columns UB203*133*25kg along GL/1
Incorporating 4 No. Gable Columns UB203*133*25kg along GL/8 &
Allowing for 1 No. Openings 4m wide by 4m high - Position T.B.C
(Door type TBC)

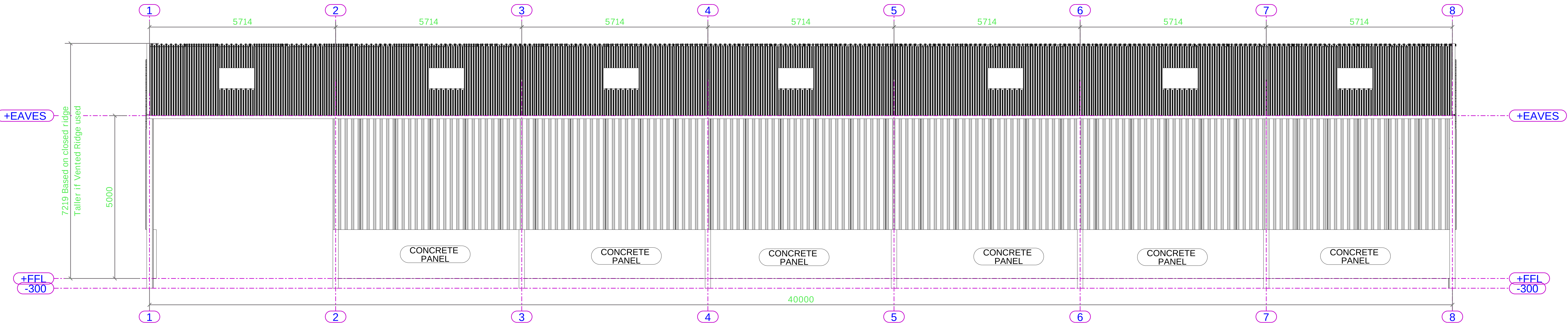


Elevation on Line A
Scale 1 : 50 @ A0

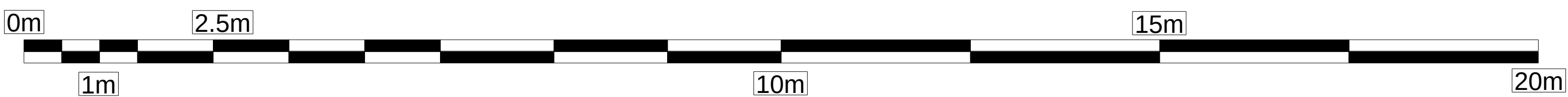
Elevations GL A & C:
Down 3.7m below eaves level in Vertical 0.5mm Plastic Coated
Box Profile with Cold Rolled side rails.

Allowing for opening along GL/C Bay 1 - 2

All rainwater goods, i.e. Grey PVC Gutters and Grey PVC Downpipes.
95*1500mm Concrete Panels with Drip flashing below cladding.



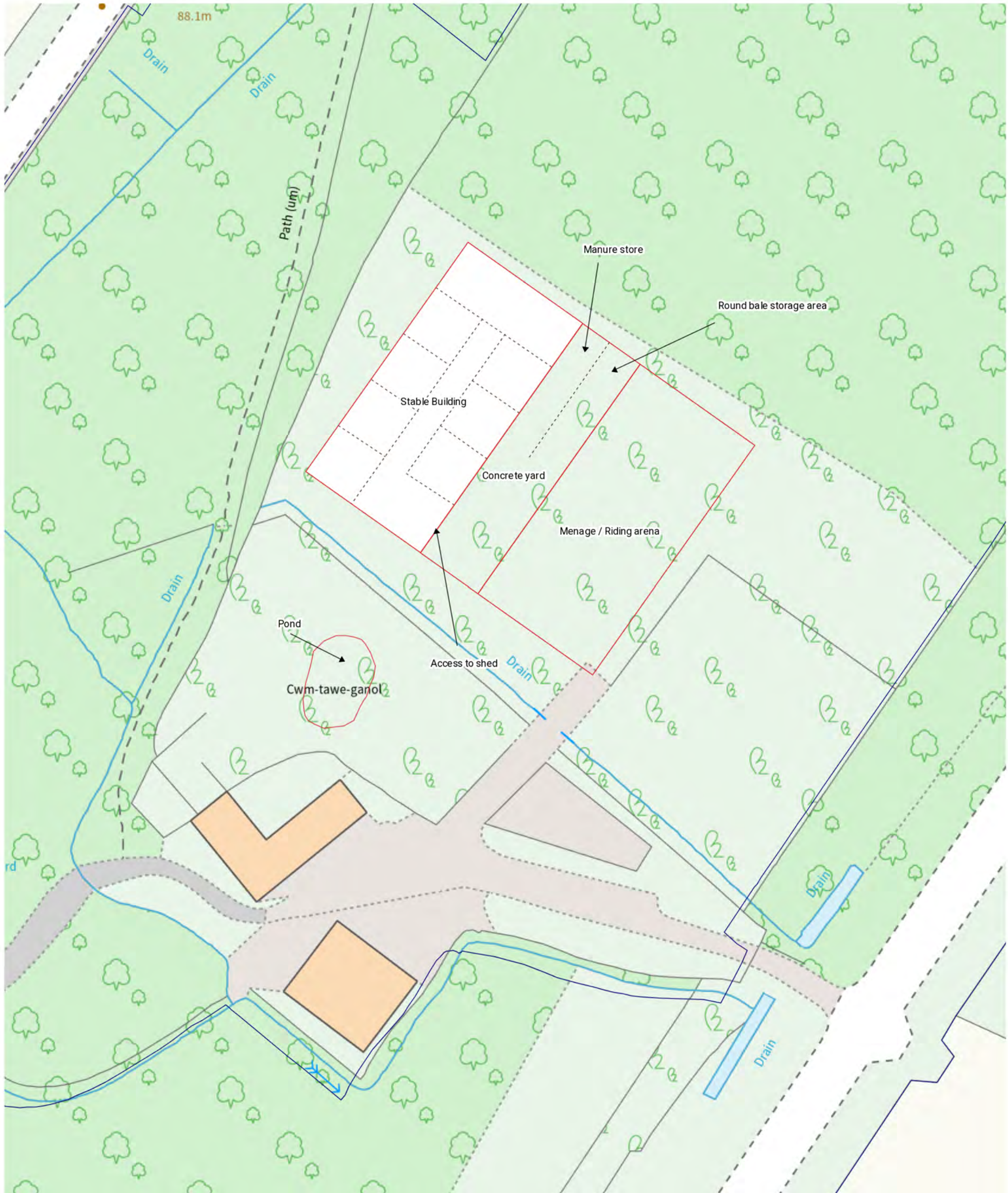
Elevation on Line C
Scale 1 : 50 @ A0



Scale Bar
Scale 1 : 50 @ A0

A	Change Door POS + Open Bay GL C	REVISION DATE
REV MARK	REVISION DESCRIPTION	
Shufflebottom Ltd Cross Hands Business Park Cross Hands Llanelli, Carmarthenshire SA14 6RE - Tel: 01269 831831		
		
DRAWING TITLE	Side and Gable Elevations	
CONTRACT	MORGAN	
MODELLER BY	EP/MO	ISSUE DATE 07.04.2025
CONTRACT NO	D15133	SCALE 1:50
DRAWING No	G [2]	REVISION No. A

FOR APPROVAL



Cwmtawe Ganol Farm
Godrergrai
Swansea Valley
SA9 2NX

Appendix 7: Document Production Record

Document number	Author	Position	Editor	Position	Issue number	Date
Arbtech LQ-PRASA92NXR1V0 44361507	D Lee-Browne BSc Hons MSc (Research)	Graduate Consultant	C.A.Radiven Bsc Hons MiEnvSci, MIMMM	Geo-Environmental Director	01	26/05/26

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