



Proposed Wind Farm, Foel Trawsnant Foel Trawsnant, Bryn, Port Talbot

Phase 1 Geo-Environmental Assessment

For: Axis & Alerion UK Ltd

Date: June 2026

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PROPOSED WIND FARM, FOEL TRAWSNANT, PORT TALBOT

PHASE 1 GEO-ENVIRONMENTAL ASSESSMENT

For: Axis & Alerion UK Ltd

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EXECUTIVE SUMMARY

Project Reference	R3551-R01-v1
Site Location	Wind Farm Application, Foel Trawsnant, Bryn, Port Talbot
Development Proposals	The proposals include the development of a wind farm with eight wind turbines, a substation, and associated access road and infrastructure. It is understood that all temporary and permanent buildings will be constructed as either modular or containerised type buildings all of which, will be above ground with a void space located in between the ground surface and building floor. The sub surface cable trench in association with the proposed electrical substation will be designed with sufficient ventilation at detailed design to prevent the build-up of ground gases
Previous Site Investigations	Integral Geotechnique (Wales) Limited (IGL) undertook an intrusive Site investigation in 2021 which included the excavation of 31 trial pits, 4 trial trenches, and 28 rotary boreholes. The trial pits were excavated to a maximum depth of 4.0m below ground level (bgl) across the proposed development areas, including at the proposed turbine locations, associated compounds and crane pads as well as along the proposed access roads. The trial trenches were excavated to a maximum depth of 3.6m bgl along areas of potential ground condition disparity (e.g. sloping ground). The rotary boreholes were drilled using open hole and coring to a maximum 35m bgl to prove deeper ground conditions under permit from the Coal Authority (now the Mining Remediation Authority). Ground conditions of topsoil overlying sandy silty peaty clay between ground level and 0.4m followed by firm to stiff sandy gravelly silty clay (glacial till) between 0.3-1.7m overlying weathered bedrock encountered from 0.9 and 3.5m. No made ground was encountered. Intact coal was reported at various depths in the vicinity of Turbine 1, Turbine 2 (revised location). Both worked and intact coal was reported at Turbine 8. Adits were identified on historical mapping and IGLA carried out a geofixing exercise using a combination of the existing topography, available historical maps and available abandonment plans in order to position the adits with reasonable accuracy.
Historical Summary	Historical mapping indicates the Site has remained undeveloped grassland located on the Foel Trawsnant mountainside The surrounding area has been subject to an extensive mining legacy with Dryffryn Rhondda Colliery to the east and Argoed Colliery to the west from the earliest available mapping to the 1920s. Mining features associated with these include trial and coal levels and three large spoil heaps located to the northeast of Turbine 10. As of 2026, these are still present and are fully vegetated.
Ground Conditions / Geology & hydrogeology	Geological mapping by the British Geological Survey (BGS) indicates the Site has no superficial deposits and is underlain by the Rhondda Member bedrock which comprises sandstone. The Rhondda Member supports a Secondary A aquifer.

Radon	The main development area of the Site is location in an area where less than 1% to 3% of buildings are at or above the action level for radon. Therefore, no radon protection measures are considered necessary within new buildings.
Unexploded Ordnance (UXO)	The UXO risk mapping identifies the Site as within an area of low risk. A preliminary Pre-Desk Based UXO Study (PDSA) undertaken by a UXO specialist has stated no further UXO investigation is required.
Contamination	Based on the available information, no significant sources of contamination that would preclude the development of the Site have been identified.
Recommendations	The geotechnical conclusions provided within the IGL report should be consulted by the designer when designing the Site foundations. A protocol to deal with unexpected contamination should be prepared (and approved by regulatory authorities, as necessary) prior to commencement of ground works on the Site. As per the IGL recommendations, proof drilling and grouting stabilisation works should be undertaken at Turbine 8, and proof drilling to further assess the risk of ground subsidence should be undertaken at Turbine 2. Mine entry 283193-008, which is located in the south of the main development area in the vicinity of the proposed access track, should be located and investigated to confirm the location and current state. A separate mining assessment has been reported separately and should be referred to for further details.

1 Introduction

1.1 General

1.1.1 Smith Grant LLP (SGP) was instructed to produce a Phase 1 Geo-Environmental Assessment (Desk Study) to identify whether an intrusive investigation is deemed necessary and support the discharge Condition 17 attached to the planning permission for the Foel Trawsnant Wind Farm ("the Development").

1.1.2 Planning permission was granted, subject to conditions, by Neath Port Talbot County Borough Council on 4 April 2023, under planning reference P2022/0517 for:

"Amendment to the plans referred to in condition 3 of planning permission reference P2014/0825 to allow for approval of revised plans for the development. The revised plans include increases in rotor diameter of five turbines (T5, T6, T9, T10 and T11) up to 133m and increase in rotor diameter up to 117m of three turbines (T1, T2 and T8) with no increase in overall turbine height. The number of turbines to be constructed will be reduced from 11 to 8 (turbines T3, T4, and T7 removed)".

1.1.3 This assessment has been undertaken to determine any potential constraints with regards to contamination and ground conditions that may impact the proposed future use of the Site, the assessment of which, is contained herein.

1.1.4 Planning condition 17 relates to contaminated land and states:

Condition 17	No development shall commence on site until an assessment of the nature and extent of contamination affecting the application site area has been submitted to and approved in writing by the Local Planning Authority. This assessment must be carried out by or under the direction of a suitably qualified competent person in accordance with BS10175 (2011) 'Investigation of Potentially Contaminated Sites Code of Practice' and shall assess any contamination on the site, whether or not it originates on the site. The report of the findings shall include: • a desk top study to identify all previous uses at the site and potential contaminants associated with those uses and the impacts from those contaminants on land and controlled waters. The desk study shall establish a 'conceptual site model' (CSM) which identifies and assesses all identified potential source, pathway, and receptor linkages; • an intrusive investigation to assess the extent, scale and nature of contamination which may be present, if identified as required by the desk top study; • an assessment of the potential risks to: - o human health, - o groundwater and surface waters - o adjoining land,
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	- o <i>property (existing or proposed) including buildings, crops, livestock, pets, woodland and service lines and pipes, - ecological systems,</i> - o <i>archaeological sites and ancient monuments; and</i> - o <i>any other receptors identified at (i)</i> <i>an appraisal of remedial options, and justification for the preferred remedial option(s).</i>
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1.2 Scope and Objectives of the Report

1.2.1 This following report describes the Phase 1 Geo-Environmental Assessment (Desk Study) undertaken by SGP in accordance with the brief agreed with the client.

1.2.2 The assessment comprised a review of third-party information on the environmental setting of the Site and the Site's previous and current uses with respect to potential risks to the environment or human health, and a Site inspection. This report contains a qualitative risk assessment, and where appropriate makes recommendations for further investigation and remedial actions appropriate to the proposed future use of the Site.

1.2.3 SGP is an environmental consultancy specialising in the risk assessment and remediation of contaminated and derelict land.

2 Planning Policy, Legislative and Technical Context

2.1. Planning

2.1.1. The **Planning Policy Wales 2024** (NPW)¹ sets out the Government's planning policies for Wales and how these are expected to be applied. The Framework provides some general guidance to local authorities on taking land condition into account in planning policies and decisions. Paragraph 6.9.18 of the Framework states:

'Planning authorities should take into account the nature, scale and extent of land contamination which may pose risks to health and the environment so as to ensure the site is capable of effective remediation and is suitable for its intended use. In doing so, development management decisions need to take into account:

- the potential hazard that contamination presents to the development itself, its occupants and the local environment; and*
- the results of a specialist investigation and assessment by the developer to determine the contamination of the ground and to identify any remedial measures required to deal with any contamination*

2.1.2. The Framework further states in paragraph 6.9.19 in relation to Land Contamination that:

Where land contamination issues arise, the planning authority will require evidence of a detailed investigation and risk assessment prior to the determination of the application to enable beneficial use of land, unless it can already be established that remedial measures can be employed. Where it is known that acceptable remedial measures can overcome contamination, planning permission may be granted subject to conditions specifying the necessary measures and the need for their implementation, including provision for remediating any unexpected contamination which may arise during construction. If contamination cannot be overcome satisfactorily, the authority may refuse planning permission.'

2.1.3. Further guidance is provided in the **Planning Practice Guidance on Land Affected by Contamination**² which provides guiding principles on how planning can deal with land affected by contamination. The guidance sets out when contamination may be present, the role of planning when dealing with land which may be contaminated, what a contamination risk assessment may contain and how to determine unacceptable risk. The guidance states that where there is a reason to believe contamination could be an issue, proportionate but sufficient site investigation information should be prepared by a competent person to determine the existing or otherwise of contamination.

¹ Welsh Government. Planning Policy Wales. Edition 12 (February 2024) and last updated July 2024

² Welsh Government. Contaminated Land Statutory Guidance. (April 2012)

2.1.4. Further guidance is also provided in the **Planning Practice Guidance on Land Stability**³ which provides guiding principles on how planning can deal with land stability. The effects of land instability may result in landslides, subsidence or ground heave. Failing to deal with this issue could cause harm to human health, local property and associated infrastructure, and the wider environment. They occur in different circumstances for different reasons and vary in their predictability and in their effect on development. The guidance sets out steps to be taken when land stability is suspected to be an issue for a planning application, what a land stability risk assessment should be contained and measures to be taken to mitigate the risk of subsidence. The guidance also sets out the role of the Coal Authority in the planning system to prevent land instability.

2.2. Local Planning Policy and Guidance

2.2.1. Neath Port Talbot Council (NPTC) have set out a local plan strategy Plan⁵ that sets out strategic priorities for the development of the area, along with planning policies and proposals to make sure that new development addresses the economic, environmental and social needs of the area. It was adopted on 16 January 2016.

2.2.2. The plan references contaminated land within Policy EN 8 – Pollution and Land Stability. The policy states:

Proposals which would be likely to have an unacceptable adverse effect on health, biodiversity and/or local amenity or would expose people to unacceptable risk due to the following will not be permitted:

- *Air pollution;*
- *Noise pollution;*
- *Light pollution;*
- *Contamination;*
- *Land instability;*
- *Water (including groundwater) pollution.*

Proposals which would create new problems or exacerbate existing problems detailed above will not be acceptable unless mitigation measures are included to reduce the risk of harm to public health, biodiversity and/or local amenity to an acceptable level

2.2.3. NPTC additionally have their own Contaminated Land Inspection Strategy dated October 2005.

³ UK Government. Land Stability Guidance issued March 2014, last updated July 2019. www.gov.uk

2.3. Legislative Context

2.3.1. Land contamination can harm human health, groundwaters, surface waters, soils, ecosystems and property. As such it is controlled, either directly or indirectly, through a range of legislation, including, but not limited to:

- Part IIA of the Environmental Protection Act 1990⁴: establishes a system for identifying and remediating statutorily defined 'contaminated land'; and focuses on addressing contaminated land that meets the specific legal definition and cannot be dealt with via other means, including planning.
- Water Environment Regulations 2017⁵: replaces previous legislation and outlines duties of regulators in relation to characterisation and classification of water bodies, environmental permitting, abstraction and impoundment of water;
- Environmental Permitting Regulations 2016⁶: impose provisions to prevent ground and water contamination from operations requiring an Environmental Permit to operate and implement controls for operations relating to the treatment or handling of contaminated soils.

2.4. National Best Practice and Guidance

2.4.1. Natural Resources Wales (NRW) has adopted the Environment Agency (EA) Land Contamination: Risk Management Guidance (LCRM)⁷. This provides an overarching framework for the assessment and investigation of land contamination. It replaces the previous Contaminated Land Report 11: Model Procedures for the Management of Contaminated Land 2004.

2.4.2. It is designed to be used in a range of regulatory and management contexts such as voluntary remediation, planning, assessing liabilities or under the Part 2A contaminated land regime. The guidance sets out a phased approach to the assessment of land contamination and specifies requirements for reports produced as part of the process, including Preliminary Risk Assessments (PRAs) and Generic and Detailed Quantitative Risk Assessments (GQRAs and DQRAs).

⁴ Department for Environment and Rural Affairs (1990). Environmental Protection Act 1990:

Part 2A Contaminated Land Statutory Guidance. Available at: [Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/431212/Part_2A_-_Contaminated_Land_Statutory_Guidance.pdf) [Last Accessed: 14 September 2025]

⁵ Water Framework Directive (2017). The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017. Available at: [The Water Environment \(Water Framework Directive\) \(England and Wales\) Regulations 2017 \(legislation.gov.uk\)](https://www.legislation.gov.uk/uksi/2017/1251/contents/make). [Last Accessed: 14 September 2025]

⁶ Environmental Permitting Regulations (2016). Available at: [The Environmental Permitting \(England and Wales\) Regulations 2016 \(legislation.gov.uk\)](https://www.legislation.gov.uk/uksi/2016/1251/contents/make) [Last Accessed: 14 September 2025]

³ NPPF National Planning Policy Framework, issued 27 March 2012, last updated February 2025.

⁷ Land Contamination: Risk Management, issued 5th June 2019, last updated 12th June 2025

2.4.3. The EA Guidance is supported by, and cross-refers to, an extensive range of additional statutory and non-statutory guidance relating to aspects such as site investigations, protection of groundwater, understanding and managing asbestos, definition of waste and the specific investigation and assessment procedures under Part IIA. Where necessary, such guidance is referred to in the following report.

2.4.4. The contaminated land assessment within this report has taken full account of the above planning context, legislation and best practice guidance, and where necessary, such guidance is referenced.

3. Assessment Methodology

3.1. Scope

3.1.1 In undertaking this assessment, SGP carried out the following activities:

- visit to view the existing Site and its setting;
- review of comprehensive historical mapping information;
- review of comprehensive environmental setting information (geology, hydrology, hydrogeology, industrial land uses, mineral excavation / extraction, landfilling / waste management activities);
- review of Mining Remediation Authority Mining Report
- review of previous intrusive investigations and desk study data provided
- review of information relating to potential unexploded ordnance (UXO).
- review of development proposals;
- development of preliminary conceptual site model (CSM) with regards to ground contamination; and,
- provision of recommendations for further investigations and mitigation, where deemed necessary.
- Consultation with local authority to ascertain what data and reporting they hold regarding the Site

3.1.2 The information has been used to determine:

- i. the potential for any ground contamination to be present on or near the Site due to historical and/or current land uses; and,
- ii. the potential for any such contamination to pose a constraint to the proposed use of the Site and / or impact the surrounding environment.

3.1.3 Information has also been obtained on general expected ground conditions at the Site and stability / physical ground conditions where these may constrain the planned development are included where relevant. However, formal recommendations with regards to geotechnical considerations are not included.

3.1.4 Similarly, ecological surveys have not been carried out, although reference is made to relevant information and SGP observations, where deemed relevant and applicable.

3.2. Sources of Information

3.2.1. The baseline data has been gathered through a desk top study and an area visit. No additional survey or field work has been undertaken as part of this assessment. In undertaking the assessment reference was made to the following background information:

Table 3.1: Background Information Sources

Date and reference	Author and source	Purpose and information content
Background and topographical information		
http://mapapps.bgs.ac.uk	British Geological Survey.	distribution of geological units at surface including drift and artificial deposits, faults and mineral outcrops, borehole logs.
www.ordnancesurvey.co.uk	Ordnance Survey (OS), Explorer Map, 1:2,500 & 1:10,000/ 10:10,560	general mapping information including structures, boundaries, ground features, water features etc.
www.magic.gov.uk	multi-agency	web-based interactive map containing information on nature conservation areas
Historical data		
Satellite imagery	Various	recent historical features
Envirocheck Report Historical Mapping ref: 279012478_1_1 (provided in Appendix C)	Envirocheck	historical mapping at 1:2,500, 1:10,000 and 1: 10,560 scales. This datasheet has been provided as part of a previous investigation prepared by Integral Geotechnique (Wales) Limited.
Information Review		
Envirocheck Report Datasheet 279012478_1_1; May 2021 (provided in Appendix C)	Envirocheck	hydrological, waste, hazardous substances, geological, land uses, and natural stability hazards based on historical data and geological records. This datasheet has been provided as part of a previous investigation prepared by Integral Geotechnique (Wales) Limited.
CON29M Coal Mining Report 51001821145001 April 2018 (provided in Appendix G)	The Mining Remediation Authority*	This datasheet has been provided as part of a previous investigation prepared by Integral Geotechnique (Wales) Limited.
P2014/0825 Updated ES Volume 2: Chapter 12 Water Resources and Ground Contamination (dated January 2019)	Wood Environment & Infrastructure Solutions UK Limited	Including a Peat Survey by Walkers UK Ltd (dated 2014)

Date and reference	Author and source	Purpose and information content
P2022/0517 ES Addendum (dated July 2022)	Wood Environment & Infrastructure Solutions UK Limited	Including: -Updated Chapter 12 Water Resources and Ground Contamination (dated July 2022) -ES Addendum Appendix 12-A Coal Authority Report (dated July 2018) -Non-Technical Summary (dated July 2022)
<i>Site Investigation Report (ref: 12826/RAH/21/ISI) Dated 2021</i>	Integral Geotechnique (Wales) Limited	Intrusive site investigation including 31 trial pits, 4 trial trenches, and 28 rotary boreholes with geotechnical sampling and testing.
www.zeticauxo.com risk mapping and PDSA provided in Appendix D.	Zetica	unexploded bomb risk mapping and pre-desk-study assessment (PDSA) detailing the expected UXO risk.
Coal Stability Risk Assessment (dated June 2014) James Associates Desk-based coal stability risk assessment		

Note: all information websites were accessed in February/March 2026

**Formerly known as The Coal Authority*

3.3. Visit of Site and Immediate Surroundings

3.3.1. An inspection of the Site and the immediate surrounding area was undertaken by an SGP consultant, on 8th April 2026. Additionally, SGP took a CAT scanner to scan and locate possible site investigation locations.

3.3.2. A photographic record of salient features and general Site views is provided in Appendix B.

4. Site Details and Proposed Development

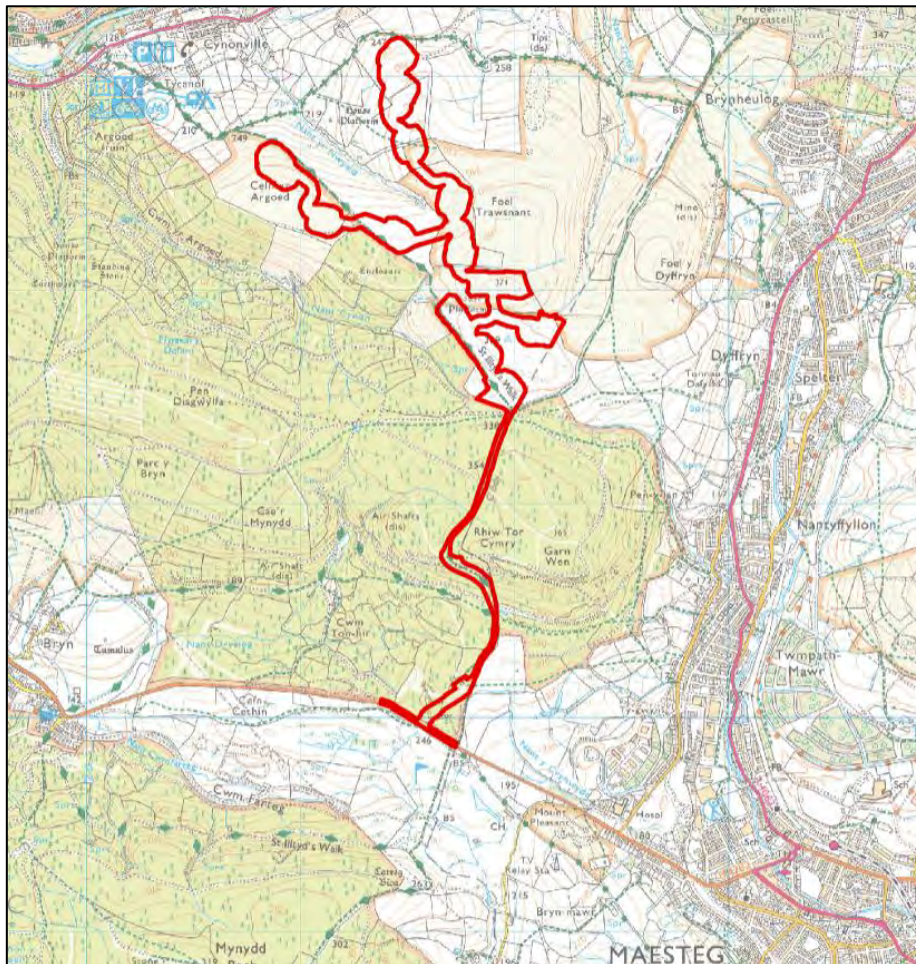
4.1. Site Details

4.1.1. The Site is located approximately 2.3km northwest of Maesteg. Accessible from Neath Road to the south as shown below in Figure 4.1.

Table 4.1: Site Details

Address	North of Neath Road, Neath Rd, Maesteg CF34 9PR
National Grid Reference	283888, 193880
Local Authority	Neath Port Talbot Council
Site Area	Approximately 46,2790m ²
Current Use of Site	The site is currently open land used for rough grazing with footpaths crossing the Site and a gated access track currently owned by NRW for 4x4 / farm vehicles.
Proposed Use	The proposal for the Site's end-use is a wind farm

Figure 4.1: Site Location (1:10,000 scale mapping)



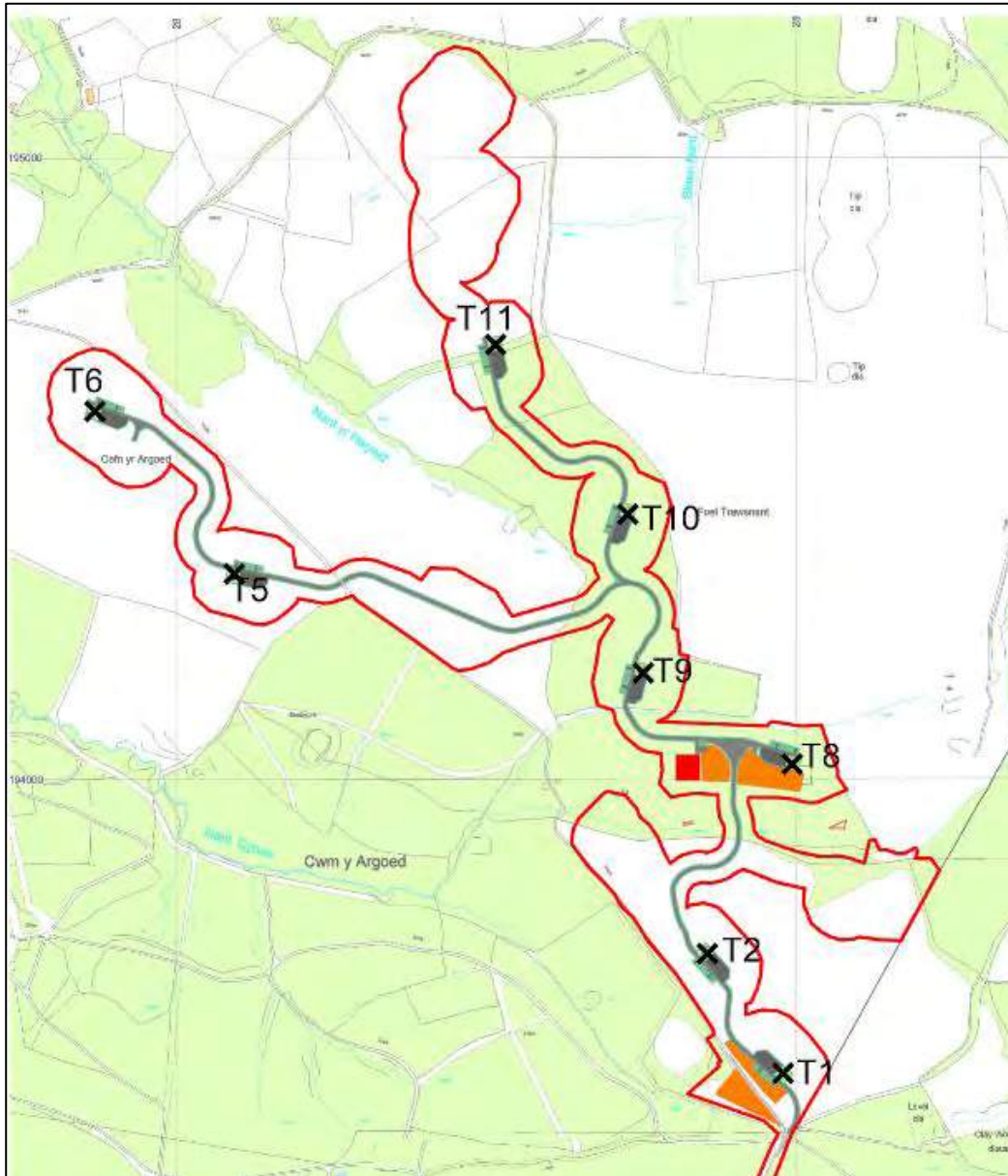
Provided by Client

4.2. Proposed Development

4.2.1. Alerion UK Ltd is proposing the construction of a wind farm with eight wind turbines, associated access roads, and substation. The proposed layout is attached in Appendix A.

4.2.2. Figure 4.2 below shows an excerpt of the main development layout area with the turbine locations numbered. The key is provided within the Site Features Plan (D11).

Figure 4.2. Excerpt of proposed development layout



6. Development History and Current Status

6.1. Historical Development

6.1.1. A summary of significant features, developments and land uses shown on historical Ordnance Survey maps is provided below.

6.1.2. Only key features of interest are summarised below; for full details reference should be made to the complete set of historical mapping, as provided by Groundsure and the summary table provided in Appendix C and Appendix F, respectively plus Drawings D01-D10. Where key features have been observed their distance to the closest part of the respective proposed development is made.

On-Site features

- Historical mapping shows that the Site has remained unchanged/undeveloped since the earliest mapping (1884) with a track running through the access road portion of the Site. The Site walkover (2026) further confirmed that the Site is still currently undeveloped grassland / grazing land (Appendix B).

Off-Site features

- Multiple trial and coal levels are mapped in the surrounding area associated with the various collieries. The closest and longest mapped trial level being 50m west of turbine 6. Most are removed from mapping by 1964 with the final one no longer mapped by 2006.
- Three collieries are mapped in the surrounding area:
 - o Dryffryn Rhondda Colliery 350m to the east, present from 1900-1964 with an old quarry, tramway, and trial levels. By 1921, it is mapped as disused and most features relating to it are removed from mapping by 1964, only an old trial level remains 375m east.
 - o Argoed Colliery 550m west / southwest, present from 1900 to 1921 with air shafts and an old coal level to the southwest of turbine 6. The colliery is no longer mapped by 1921, but the dismantled tramway crosses the area. This is mapped as a track by 2021.
 - o Dryffryn Colliery 1km to the east, present from 1884 and mapped as disused by 1900. Various coal / trial levels and a small quarry remain on mapping until 2021 when it is mapped as a disused pit.
- Three large spoil heaps are located 380m to the northeast of turbine 10 from 1938-1951 extending further northwards from Site. By 1999, they are mapped as disused tips and a slag heap and by 2021, only the outlines of the heaps remain. These are likely related to Dryffryn Rhondda Colliery and satellite imagery shows them to be vegetated in 2026 which was confirmed during the site walkover.

6.2. Adequacy of Information

6.2.1. Whilst there are some gaps in the historical map coverage most likely due to the time periods being across two world wars, it is considered that the available mapping provides adequate coverage of the Site and immediate surroundings to inform the assessment of potential ground conditions and contamination status of the Site

6.3. Present Land Condition

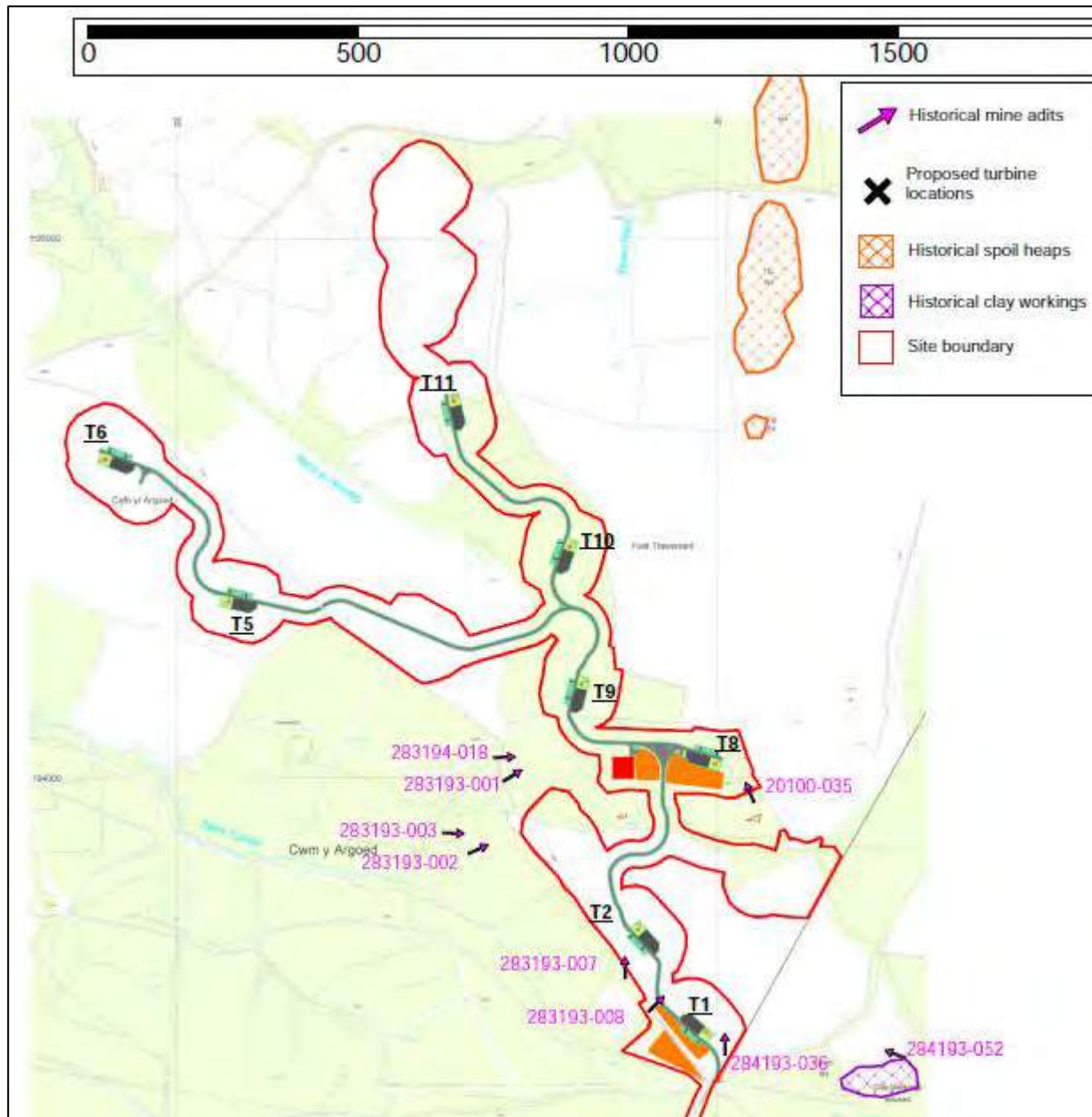
6.3.1. A summary of existing significant features, recent activities and land uses shown on contemporaneous aerial photography, site inspections and anecdotal evidence is provided in Table 6.1 below.

Table 6.1: Present Land Condition

Site Description	At the time of the visit, the Site was undeveloped and covered with a mix of short and long grasses. The fields in the northwest were used for sheep grazing.
Access	The access road currently extends northwards from Neath Road to the south before meeting a crossroads where the access to the main development area is currently via a gate (Appendix B, Image 13).
Boundaries	North – Open grass / grazing land East – Open grass / grazing land South – Neath road West – Open grass / grazing land
Services / Wayleaves	SGP have not been provided service plans as part of this assessment. No evidence of overhead or underground services were observed during the Site walkover
Rights of Way	A public bridleway/footpath follows the access track from Neath Road. Two crossroads are located along the access track, one half-way up and the other located at the southern boundary of the main development area. One of the public bridleways continues northwest from the crossroads, crossing the Site near T1, T2, T5, and T6.
Structures	No visible structures were identified on the Site.
Surfaces / Vegetation	At the time of the visit, the majority of the Site consisted of long and short grasses and shrubs.
Contamination Sources	No significant signs of contamination were observed. Two small areas of mining legacy materials were noted near T1 which consisted of some concrete/hardstanding with protruding metal objects.

6.3.2. The Figure below is an excerpt from the Site Features Plan (D11) showing the features described above in context with the proposed development.

Figure 6.1. Excerpt of D11-Site Features Plan



7. Previous Site Investigations

7.1. It is understood that the Site had an Environmental Statement (ES) produced to support the approved planning application (ref: P2022/0517). SGP has been provided with the following ES chapter and appendices completed by third parties for review:

- P2014/0825 Updated ES Volume 2: Chapter 12 Water Resources and Ground Contamination (dated January 2019)
 - o Peat Survey (dated 2014)
- P2022/0517 ES Addendum (dated July 2022):
 - o Non-Technical Summary (dated July 2022)
 - o Updated Chapter 12 Water Resources and Ground Contamination (dated July 2022)
 - o ES Addendum Appendix 12-A Coal Authority Report (dated July 2018)
- Integral Geotechnique (Wales) Limited, Site Investigation Report (dated 2021)

Walters UK Ltd, 2014, Summary Findings of Peat Survey

7.2. Water UK Ltd carried out a peat survey in 2014 which involved three visits to determine the thickness of the peat using a hand gauge auger. This included 13 hand dug trial pits across the locations of the original proposed 13 wind turbines. They reported general ground conditions of 'shallow peaty soil' at depths between ground level and 0.25m overlaying subsoil from depths between 0.13m and 0.47m before hitting bedrock between 0.16m and 0.47m. They also refer to six cores recording peat between 0.7m and 0.8m; however, it doesn't provide further detail about the ground conditions. The drawing shows these areas of deeper peat located near Turbine 7 which is no longer part of the development plan.

Wood Environment & Infrastructure Solutions UK Limited, 2018, ES Volume 2: Chapter 12 Water Resources and Ground Contamination

7.3. Wood Environment & Infrastructure Solutions UK Limited (WEIS) produced this chapter to support the planning application in 2018 for the construction of 11 wind turbines. The chapter is an update of a previous ES Chapter produced in 2014 for the construction of 13 wind turbines which was subsequently approved.

7.4. The chapter concluded that the construction, operation and decommissioning of the approved development would not lead to any significant effects on the water environment, provided that all recommended environmental measures outlined in Section 12.8 of the chapter (12.8. Environmental measures embedded into the proposed development) were put in place. This includes:

- Pollution prevention plans throughout the project's life

-
- Watercourse protection including buffer zones, silt traps, cross track drainage, water bars, swales and ponds where necessary
 - Peat removal where construction will take place
 - Excavation and management of spoil (e.g. at turbine bases)
 - fortnightly water quality samples would be collected from the Nant yr Hwyaidd during the construction phase and tested for pH, alkalinity, total hardness, total ammonia, ammonium, nitrite, nitrate, soluble reactive phosphorus, sodium, chloride, Biochemical Oxygen Demand (BOD), suspended solids, turbidity, total petroleum hydrocarbons, sulphate, soluble reactive phosphorus, total iron, dissolved iron, dissolved organic carbon, and total organic carbon.
 - Targeted mining investigation into the location of the adit identified near the access track between T1 and T2

Integral Geotechnique (Wales) Limited, 2021, Site Investigation Report (ref: 12826/RAH/21/ISI)

- 7.5. Integral Geotechnique (Wales) Limited (IGL) undertook a site investigation in June/July 2021 with 31 trial pits, 4 trial trenches, and 28 rotary boreholes. The trial pits were excavated to a maximum depth of 4.0m below ground level (bgl) across the proposed development areas, including at the proposed turbine locations, associated compounds and crane pads as well as along the proposed access roads. The trial trenches were excavated to a maximum depth of 3.6m bgl along areas of potential ground condition disparity (e.g. sloping ground). The rotary boreholes were drilled to a maximum 35m bgl to prove deeper ground conditions. The rotary bores were drilled using open hole drilling and coring under a permit obtained from the Coal Authority (now Mining Remediation Authority).
- 7.6. The Ground conditions of topsoil overlying sandy silty peaty clay between ground level and 0.4m were reported which was followed by firm to stiff sandy gravelly silty clay (glacial till) between 0.3-1.7m. Weathered bedrock was encountered from 0.9-3.5m. No made ground or colliery spoil was encountered.
- 7.7. A mix of intact and worked coal was reported in multiple locations:
- TP25 between 2.2m and 2.6m bgl
 - TP29 between 0.8m and 1.5m bgl
 - TT3 between 1.3m and 1.8m bgl
 - TT4 between 2.5m and 3.5m bgl dipping towards the northeast
 - BHT1 between 1.63m and 1.9m, 5.57m and 6m, 17m and 17.28m bgl
 - BH202 between 18m and 18.8m bgl
 - BHT8 between 9.7m and 10m bgl

7.8. Groundwater was encountered in 3 locations:

- TP25 - medium ingress between 2.4m and 2.6m bgl at the base of the coal layer
- TP26 – slight water seepage at 1.4m bgl in the weathered bedrock
- BHT1 – water strikes at 6.0m and 18.0m bgl
- BHT1-B - water strike at 17.0m bgl
- BHT1-C – water strike at 21m bgl

7.9. SGP has reproduced the previous Site investigation location plan in context with the proposed layout and the site features in D12.

7.10. IGL state that gas monitors were employed during the rotary borehole drilling and no elevated carbon dioxide or methane was reported although the associated permit surrender report has not been made available for review

7.11. No samples for contamination testing were taken; however, geotechnical testing included particle size distribution, Atterberg limits, and sulphate testing.

Geotechnical conclusions

7.12. Samples were taken for pH and water-soluble sulphate testing. Using BRE Digest SD1:2005, the results indicate a Design Sulphate Class DS-1 and an Aggressive Chemical Environment for Concrete (ACEC) class of AC-1z for the Site.

7.13. The site investigation indicates gravity base foundations are considered feasible for all turbines, and the contractor's compound and substation can be founded on traditional concrete strip/trench fill foundations, pad foundations or raft foundations. It is recommended that foundations are placed within, and bearing onto (medium dense) sandy gravels or gravel and cobbles.

7.14. More detailed geotechnical conclusions are provided within the IGL report and should be consulted in detail by the foundation designers.

Further recommendations

7.15. IGL recommended that proof drilling should be undertaken at Turbine 8, to understand the requirement for any grouting works to deal with the voids recorded within several boreholes at T8 and proof drilling should be undertaken within the vicinity of Turbine 2, in order to confirm the risk of ground subsidence arising from workings within the No.2 Rhondda coal seam and overlying Field vein.

Wood Environment & Infrastructure Solutions UK Limited, 2022, Non-Technical Summary

- 7.16. Wood Environment & Infrastructure Solutions UK Limited (WEIS) produced this addendum to the approved Environmental Statement in 2018 for the construction of 11 wind turbines. The addendum covered the reduction in wind turbines to 8. The addendum concluded that the reduction in turbine number would mean fewer impermeable and semi-permeable areas and that the Proposed Development would not give rise to any additional effects on Water Resources and Ground Conditions as compared to the approved development and the conclusions of the 2019 ES.

8. Site Characterisation

8.1. Environmental Setting

8.1.1. The physical setting of the Site has been derived from the review of information detailed in Section 2. Key details are summarised below; for full details reference should be made to the supporting information provided in Appendix C.

Table 6.1: Environmental Setting

Setting and Topography	The Site is located approximately 2.3km northwest of Maesteg. The Site is located at a maximum elevation of approximately 371m Above Ordnance Datum (AOD), rising to the north, as shown by spot heights on contemporary OS mapping. The lowest height of the main development area is approximately 340m AOD. During the walkover, the topography of the Site was noted with a steep climb northward up the existing access track. The turbine locations were all located at high points with a general upwards sloping towards T9 before beginning a downwards gradient further northwards.
Geology / Ground Conditions	BGS, historical OS mapping and site observations indicate the potential ground conditions to be: <u>Superficial Deposits:</u> BGS mapping shows that superficial deposits are absent from the majority of the Site. Small pockets of Devensian Till are present in the west of the Site. <u>Bedrock:</u> Rhondda Member, consisting of sandstone and thin interbedded coal seams (BGS). <u>Faults:</u> The Jubilee Slide fault bounds the Site to the southeast and downthrows to the south. <u>BGS Records</u> <i>On-Site</i> There are no BGS borehole records located on Site. <i>Off-Site</i> The closest off-site borehole is SS89SW5 (Goegnant Colliery U.G.B.H. 32) which is located 85m southwest of the proposed contractor's compound near to T1. This borehole was drilled in August 1964 by the National Coal Board. However, no log is provided between ground level and 7m bgl. From 7m to the base at 121m, alternating layers of sandstone and mudstone are reported with various sections of core missing. No reasons are given as to why the sections of core are missing. <u>Previous Investigation</u>

	As mentioned within section 7, the IGL investigation reported general ground conditions across Site of topsoil overlying sandy silty peaty clay between ground level and 0.4m, firm to stiff sandy gravelly silty clay (glacial till) between 0.3-1.7m and weathered bedrock between 0.9-3.5m. No made ground was encountered. Coal was encountered at 38.81m, 52.61m, 53.04m, 53.37, and 94.70m bgl.
Ground Stability (Natural Soils)	Compressible ground – No hazard
	Running sands – No hazard
	Shrinking and swelling clays – No hazard
	Ground dissolution – No hazard
	Landslides – No hazard
	Collapsible ground and landslides – Very low risk.
Hydrology / Drainage	Various ditches are culverted beneath the Site and is understood that these will be upgraded with the development of the wind farm. The Nant yr Hywaid issues in the approximate centre of the development area and flows towards the north-west through the site. However, the watercourse is not located within any areas of proposed ground disturbance. The Envirocheck report provided as Appendix C does not identify any discharge consents on Site or within 1km. However, an appendix to the ES Chapter provides a list of licensed discharges but does not state if these are located on Site or off-site. On-site drainage appeared to be limited to infiltration through vegetated surfaces. The previous ES Chapter states that the Site is located within Flood Zone A (considered to be at little or no risk of fluvial flooding) of the Afon Afan. In addition, the steep nature of most of the Site means that there is very low risk of flooding from watercourses. On the edge of flatter hilltops (e.g. at Foel Trawsnant between T9 and T10) where there is peaty topsoil and surface waters 'issue' there is increased risk of flooding from waterlogged soils and standing water.
Hydrogeology / Groundwater	The aquifer designations of the underlying geological units are: <u>Superficial Deposits</u> • None present <u>Bedrock:</u> • Rhondda Member – Secondary A Groundwater vulnerability = low The Site is not located in a Source Protection Zone.
Excavation / Mining	The ES Chapter summarised that the planning boundary is within the likely zone of influence from workings in 11 seams of coal at shallow to 780m depth, which were last worked in 1980. The planning boundary is not in the likely zone of influence of any

	present underground coal workings and is not in an area that is likely to be affected at the surface from any planned future workings. According to the Con29m report (ref: 51001821145001), three disused mining adits are mapped in the south of the Site around turbines 1 and 2. The following treatment details are available for these entries: • 283193-008: No treatment details • 284193-036: Adit sealed with compacted brick rubble and backfilled with soil. 4.3m square fence erected • 283193-007: No treatment details The additional addendum states that a Coal Stability Risk Assessment was undertaken by James Associates in 2014 which identified six of the originally proposed turbines lie within zones of potential impact associated with abandoned mining. The assessment recommended a programme of site investigation works be undertaken around the following turbines: T1, T2, T3, T4, T8 and T9. As of 2026, only T1, T2, T8 and T9 will be installed from this list. The IGL 2021 investigation investigated all of the turbine locations and has been summarised in Section 7.5 to 7.15
Landfill / Waste Disposal	The Envirocheck Report does not identify any active / recent or historical landfills located on or within the vicinity of the Site.
Neighbouring Land use / Nearby Contaminative Activities	The immediate neighbouring land use is open fields used for livestock and grazing. Three large historical spoil stockpiles are located 380m northeast of T10 but are located downhill so are unlikely to affect the Site.
Radon	The Site lies within an area where between <1-3% of homes are estimated to be at or above the Radon Action Level.
UXO Risk	The UXO risk map identifies the Site as located within an area of low risk. A copy the risk map is provided in Appendix D.
Nature Conservation	No areas of the Site have been identified as statutory designated nature conservation sites; however, 223m southwest lies a forest park but no information is provided. No other invasive weeds, such as Japanese Knotweed were observed during the Site visit, although a formal survey has not been undertaken by SGP.

8.2. Mining Remediation Authority⁸ Mining Report and Risk Assessment

8.2.1. The Mining Remediation Authority Con29m report (ref: 51001821145001) states that the Site is located within a likely zone of influence of workings in eleven seams of coal at a shallow depth of

⁸ Formerly the Coal Authority

780m bgl but is not located with a zone of influence of any present underground coal workings or any future workings. However, it does identify three historical mining adits on Site in the southwest. The area has been subjected to historic mineral extraction of coal, fireclay and ironstone, with records extending back to the 1800's. The mine abandonment plan also indicates the coal seams beneath T1, T2, and T8 have been extensively worked. There is also the potential for unrecorded workings which pre-date this period.

8.2.2. No surface opencast mineworkings for coal or any other minerals are recorded to have been undertaken in the application area. The Jubilee Slide transects the southern portion of the site, in close proximity to the former areas of Turbine T3 and T7.

8.2.3. An intrusive Mining Risk Assessment was carried out as part of the IGL investigation in 2021 which involved the drilling of 28 boreholes to a maximum depth of 35m bgl. They encountered possible evidence of historical mineworkings around T2 and T8 whereby the following conditions were reported:

Turbine 2:

- BH202:
 - o 15.2 - 18.0m – no returns
 - o 27.0 - 28.2m – soft drill
- BH202-D:
 - o 21.8 - 22.1m – void
 - o 22.6 – 24.0m – backfilled workings
- BH202-E:
 - o 23.3 - 24.0m – void
 - o 24.0 - 24.5m – backfilled workings

Turbine 8:

- BHT8:
 - o 19.5 – 20.0m Broken Ground
 - o 20.0 – 21.0m Void
 - o 21.0 – 23.0m Very soft drill
- BHT8-A:
 - o 21.0 – 22.5m Void
 - o 22.5 – 23.5m Backfilled workings
- BHT8-D:
 - o 14.6 – 15.0m Void
 - o 15.0 – 19.0m Broken ground and voids (no returns)
- BHT8-F:

-
- o 22.5 – 23.5m Void
 - o 23.5 – 24.4m Soft drill

8.2.4. Following the intrusive works, IGL produced the following conclusions:

- Turbine 2: *The voids/backfilled workings encountered at the original T2 location can be extrapolated from the borehole BHT202 locations towards the north-east, which suggest that the sections of poor ground would be at around 26.9m and 37.9mbgl when adopting a 15 degree strata dip. These depths do not indicate a significant risk. Similarly, if the coal seams encountered within locations BHT2-B and BHT2-C have been worked, there is likely to be enough overlying rock cover to satisfy the potential risk. Nonetheless, it is considered that the overall risk to the proposed Turbine 2 location remains somewhat uncertain, requiring some further investigation. It should be noted that the risk should be further reviewed once the foundation depths of the turbine have been confirmed, as the requirement to over excavate to formation level may indicate a slightly reduced rock cover.*
- Turbine 8: *Rockhead was encountered at depths of between 1.0m and 1.5m below existing ground level. Based on the 10:1 ratio for the thickness of rock cover to void height required to prevent subsidence migrating up from workings to the surface as previously discussed and based on the backfilled workings encountered within the boreholes, there is insufficient rock cover. It should be noted that the thickness of the backfilled workings encountered indicates that some migration of the workings towards the surface may have taken place.*

8.2.5. They recommended proof drilling and grouting stabilisation works should be undertaken at Turbine 8, and that proof drilling to further assess the risk of ground subsidence should be undertaken at Turbine 2. In addition, mine entry 283193-008, which is located in the south of the site in the vicinity of the proposed access track, should be located and investigated to confirm the location and current state.

8.2.6. An updated mining risk assessment will be provided separately to this report to satisfy the requirements of Condition 7.

9. Preliminary Conceptual Site Model

9.1. Methodology

9.1.1. Information from the desk study has been used to identify the likely source-pathway-target relationships that may exist at the Site during and following the proposed development. Principal factors that may determine potential sources of contaminants at the Site, receptor vulnerability and potential pathways have been identified and each assessed in turn to derive a Conceptual Site Model (CSM).

9.2. On-Site Sources

- The Site has been subjected to historic underground workings in several seams of coal, but the historic maps and records do not indicate that the Site has been worked from surface level. Three mine adits are present in the southwest of the Site. One has been backfilled, but no treatment details are available for the other two. In addition, there may be previously identified adits or other coal mining features such as colliery spoil located on Site.

9.3. Off-Site Sources

- The surrounding area has been subject to historical coal mining with three collieries including adits, old trial / coal levels, quarries, and spoil heaps located within 1km of the Site.

9.4. Potential Receptors

9.4.1. The sensitivity of the proposed use of the Site is considered low with respect to human health. The receptors considered within the environmental risk assessment for the proposed development are:

- construction workers who may be exposed to contaminants during preparatory and construction works;
- Future Site users (including future Site workers and Site visitors).
- buildings / structures.
- Controlled waters: underlying Secondary A bedrock aquifer and ditches that intersect the Site

9.5. Human Health Risk Assessment

9.5.1. The potential for significant contamination to be present that may pose an acute risk to construction workers during the development is considered low. Future Site users are unlikely to be exposed to materials with the potential to cause acute nor chronic health impacts.

9.6. Property Risk Assessment

9.6.1. The previous Site investigation recommended a Design Sulphate Class DS-1 and a ACEC class of AC-1z for the Site.

9.7. Controlled Waters Risk Assessment

9.7.1. The Site is in an area of low sensitivity as far as groundwater is concerned. There is no superficial aquifer, and the bedrock supports a Secondary A aquifer. Significant contaminant concentrations are not expected.

9.7.2. Various ditches cross and are culverted beneath the Site. It is understood that silt management plans and protection measures will be placed during the development works.

9.8. Preliminary Conceptual Site Model (CSM)

9.8.1. The preliminary CSM has been derived for the Site using the information described above, describing the potential contamination sources, pathways and receptors and is summarised below in Table 9.1.

9.8.2. The approach to the risk assessment summarised below in Table 9.1, follows the methodology presented within Ciria C552 'Contaminated Land Risk Assessment A Guide to Good Practice', further details of which, are provided in Appendix E.

Table 9.1: Preliminary Conceptual Site Model

Receptor	Source / Contaminant	Pathway / Exposure	Severity/ Consequence of Risk	Probability of Risk Occurring	Anticipated Risk (in absence of mitigation)	Further Works Recommended
1. humans – construction workers	Heavy metals, acidic pH and sulphates	dermal contact / ingestion / inhalation – short term exposure	Medium	Unlikely – Colliery spoil may be present on Site due to the history of coal mining in the area; however, deep deposits or the presence of significant contamination which could present an acute risk are not expected. In addition, no evidence of colliery spoil was observed during the walkover and no made ground or colliery spoil was encountered in the previous investigation.	Small	Appropriate personal protective equipment (PPE), Site management and good housekeeping should be implemented during construction works. A protocol to deal with unexpected contamination should be provided and implemented during groundworks and construction. Ground gas alarms should be used in association with any confined space entry protocol
2. humans – future Site users / visitors	Heavy metals acidic pH and sulphates	dermal contact / ingestion / inhalation	Medium	Unlikely – Colliery spoil may be present on Site due to the history of coal mining in the area; however, deep deposits or the presence of significant contamination which could present an acute risk are not expected. In any case, the installation of hardstanding in areas of ground disturbance will limit exposure to future site visitors.	Small	No further works required.

Receptor	Source / Contaminant	Pathway / Exposure	Severity/ Consequence of Risk	Probability of Risk Occurring	Anticipated Risk (in absence of mitigation)	Further Works Recommended
	Ground gas presenting a risk of asphyxiation or explosion (methane, carbon dioxide, Carbon monoxide and/or hydrogen sulphide)	accumulation within voids, confined spaces and service runs to asphyxiant and/or otherwise toxic concentrations	Medium	Low to Unlikely – three former mining adits are present in the southwest of the Site and could give rise to mine gas generation. However, it is understood that the proposed buildings (substation and maintenance cabinets for the turbines) and the contractors' compounds will be constructed as either modular type buildings or containers which will be raised above the ground surface thus providing venting space for any gases from the ground to disperse. The subsurface cable trench associated with the electrical substation will be vented.	Small	As per the IGL recommendations, proof drilling and grouting stabilisation works should be undertaken at T8, and proof drilling to further assess the risk of ground subsidence should be undertaken at T2. In addition, mine entry 283193-008, which is located in the south of the site in the vicinity of the proposed access track, should be located and investigated to confirm the location and current state. Grouting/other mine treatment should be undertaken where considered necessary. Although ground gases may be generated from this exercise, this will further reduce the possibility of migration of ground gases to the proposed development and ground surface.
	Radon gas		Small	Unlikely – The main development area is located in an area where <1-3% of buildings are estimated to be at or above the Action level. The access road crosses through an area where 3-5% of buildings are estimated to be at or above the Action level; however, no building are proposed for this area.	Small	No further works required.
	VOC vapours from soil / groundwater sources		Negligible (no sources identified)	Unlikely – No significant source of hydrocarbons has been identified.	Negligible	No further works required.
3. humans – adjacent Site users	Heavy metals	windblown / dermal contact / ingestion / inhalation	Small	Unlikely - Significant concentrations of mobile contaminants which could be remobilised during construction works are unlikely to be present.	Small	Good Site management and housekeeping should be implemented during construction works. Dust suppression should be adopted during ground and construction works.

Receptor	Source / Contaminant	Pathway / Exposure	Severity/ Consequence of Risk	Probability of Risk Occurring	Anticipated Risk (in absence of mitigation)	Further Works Recommended
4. property / services	Ground gas of a flammable nature (methane)	accumulation within voids, confined spaces and service runs to flammable concentrations	Medium	Low to Unlikely – three former mining adits are present in the southwest of the Site and could give rise to mine gas generation.	Small	Gas monitors to be worn by groundworkers entering below ground service installations.
	pH, sulphate.	chemical attack of buried concrete	Medium	Unlikely – The previous Site investigation did not report elevated pH or sulphates and no colliery spoil was identified.	Small	The previous Site investigation reported Design Sulphate Class DS-1 and a ACEC class of AC-1z for the Site.
5. vegetation / landscaping	leachable metals may be present within natural soils	plant uptake	Small	Unlikely – Vegetation appeared to be in a healthy state during the Site walkover.	Negligible	No further works required.
6. ecosystems / protected habitats & species	leachable metals	Aeolian processes via dust deposition	Negligible	Unlikely – No protected species/habitats within 500m of the Site.	Negligible	No further works required.
7. surface waters	Leachable contaminants including Metals	migration via shallow groundwater / surface water run-off.	Medium	Unlikely – There are various ditches crossing and culverted beneath the Site. It is understood the existing culverts will be upgraded as part of the development works and new culverts will be put in place for those not already culverted. Additionally silt management and protection measures will be put in place during the development.	Small	No further works required.
8. groundwater <i>Secondary A Aquifer (Bedrock)</i>	leachable metals	migration via saturated zone	Small	Unlikely – Significantly elevated concentrations of leachable contaminants are unlikely to be present based on the available information.	Small	No Further Action Required.

9.9. Other Considerations

Ground Stability – Natural Hazards

- 9.9.1. According to the Envirocheck report, the Site is in an area where there are no risks of compressible deposits, ground dissolution, shrinking and swelling clays, and running sands, and there is very low risk from landslides and collapsible deposits.

Coal Mining Stability Assessment (CMSA)

- 9.9.2. Proof drilling and grouting stabilisation works should be undertaken at T8, and proof drilling to further assess the risk of ground subsidence should be undertaken at T2. In addition, mine entry 283193-008, which is located in the south of the site in the vicinity of the proposed access track, should be located and investigated to confirm the location and current state. This should be undertaken in association with a permit to drill into coal measures strata which should be obtained from the Mining Remediation Authority. Continuous monitoring of ground gases should be undertaken in tandem with the drilling and grouting activities.

Unexploded Ordnance

- 9.9.3. The UXO risk mapping and PDSA identifies the Site as within an area of Low risk and no further works are required.

10. Conclusions and Recommendations

10.1. Summary

Site

10.1.1. Historical mapping shows that the Site has remained unchanged/undeveloped since the earliest mapping (1874) and has remained as open grassland used for grazing. The Site walkover (2026) showed that the Site is still used for sheep grazing and is currently surfaced with long and short grasses and shrubs.

Surroundings

10.1.2. The surrounding area has been subject to extensive coal mining with Dryffryn Rhondda Colliery 350m to the east and Argoed Colliery 550m to the west. Both are mapped as disused by the 1920s with various trial and coal levels remaining on mapping until 2006. Additionally, three large historical spoil heaps are located 380m northeast of T10 and are still present as of 2026. They were observed to be covered with vegetation during the site walkover. As of 2026, the immediate surrounding land is used for sheep grazing.

10.2. Findings of Contamination Risk Assessment

10.2.1. The risks to human health are considered to be low to construction workers where excavation of soils may occur as part of construction works.

10.2.2. The risk to future Site users is also low owing to the construction of all buildings with man entry to be located aboveground with a void present between the ground surface and the building floor thus allowing dispersal of ground gases, The proposed sub surface cable trench associated with the electrical substation will also be vented.

10.2.3. The risk to controlled waters is considered low. No significant leachable contaminant sources have been identified and no made ground nor colliery spoil was identified during an intrusive investigation of the Site or a recent walkover.

10.2.4. Based on the available information, no constraints have been identified to the proposed development with regards to ground contamination and it is concluded that the Site is suitable for the proposed use.

10.3. Recommendations

10.3.1. As per the IGL recommendations, proof drilling and grouting stabilisation works should be undertaken at T8, and proof drilling to further assess the risk of ground subsidence should be undertaken at T2. In addition, mine entry 283193-008, which is located in the south of the main development area in the vicinity of the proposed access track, should be located and investigated to confirm the location and current state.

10.3.2. The geotechnical conclusions provided within the IGL report should be consulted by the designer when designing the Site foundations.

10.3.3. A protocol to deal with unexpected contamination should be prepared (and approved by regulatory authorities, as necessary) prior to commencement of ground works.

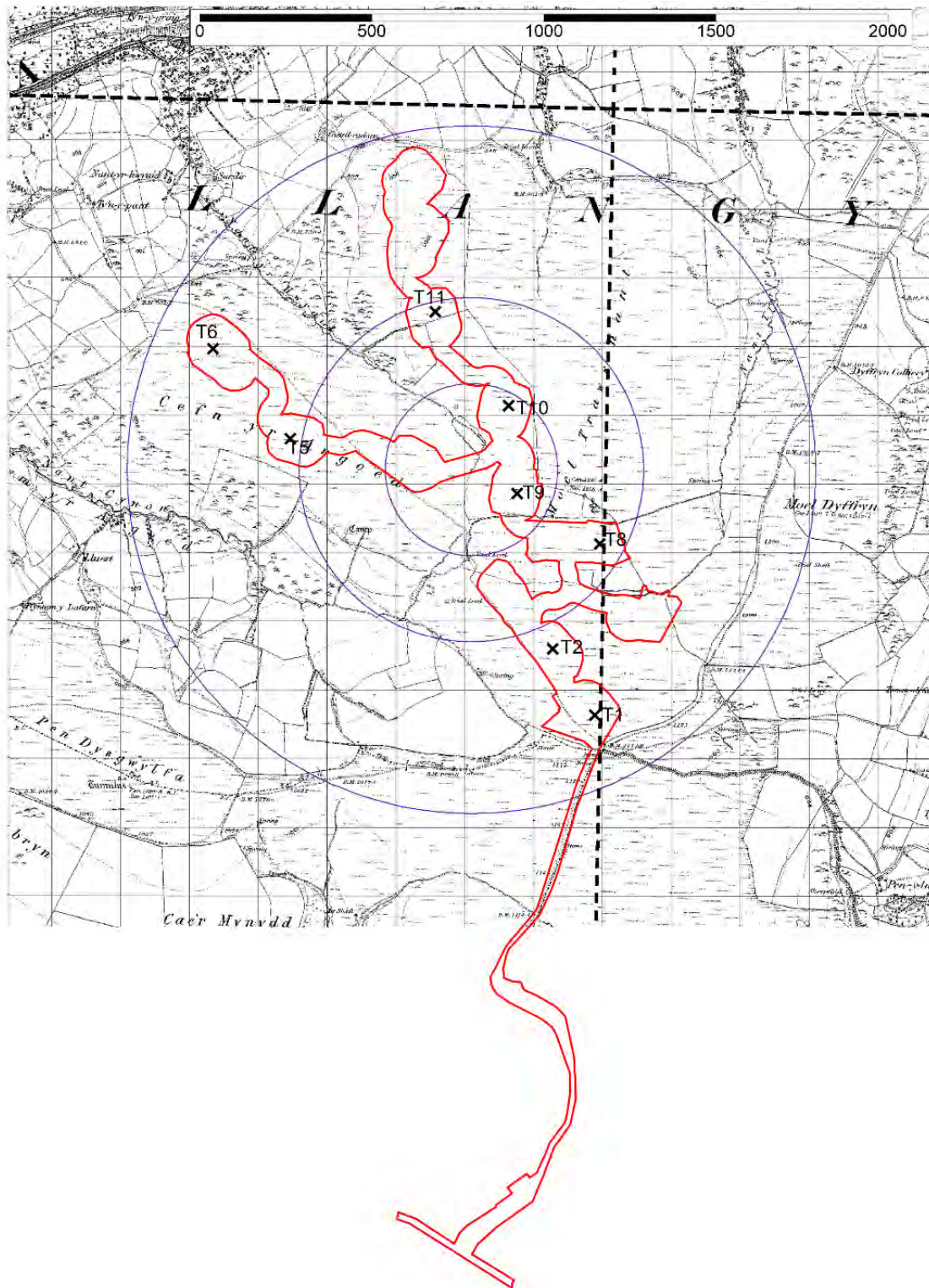
10.4. **Limitations**

10.4.1. This report has been prepared by SGP for the sole and exclusive use of Axis and Alerion. Reasonable skill, care and diligence has been exercised within the budget available, and in accordance with the technical requirements of the brief. Notwithstanding the efforts made by the professional team in undertaking the assessment and preparing this report, it is possible that other ground conditions and contamination as yet undetected may exist. Reliance on the findings of this report must therefore be limited accordingly. Such reliance must be based on the whole report and not on extracts which may lead to incomplete or incorrect conclusions when taken out of context.

10.4.2. SGP reserves the right to alter any of the foregoing information in the event of new information being disclosed or provided and in the light of changes to legislation, guidelines and responses by the statutory and regulatory authorities.

DRAWINGS

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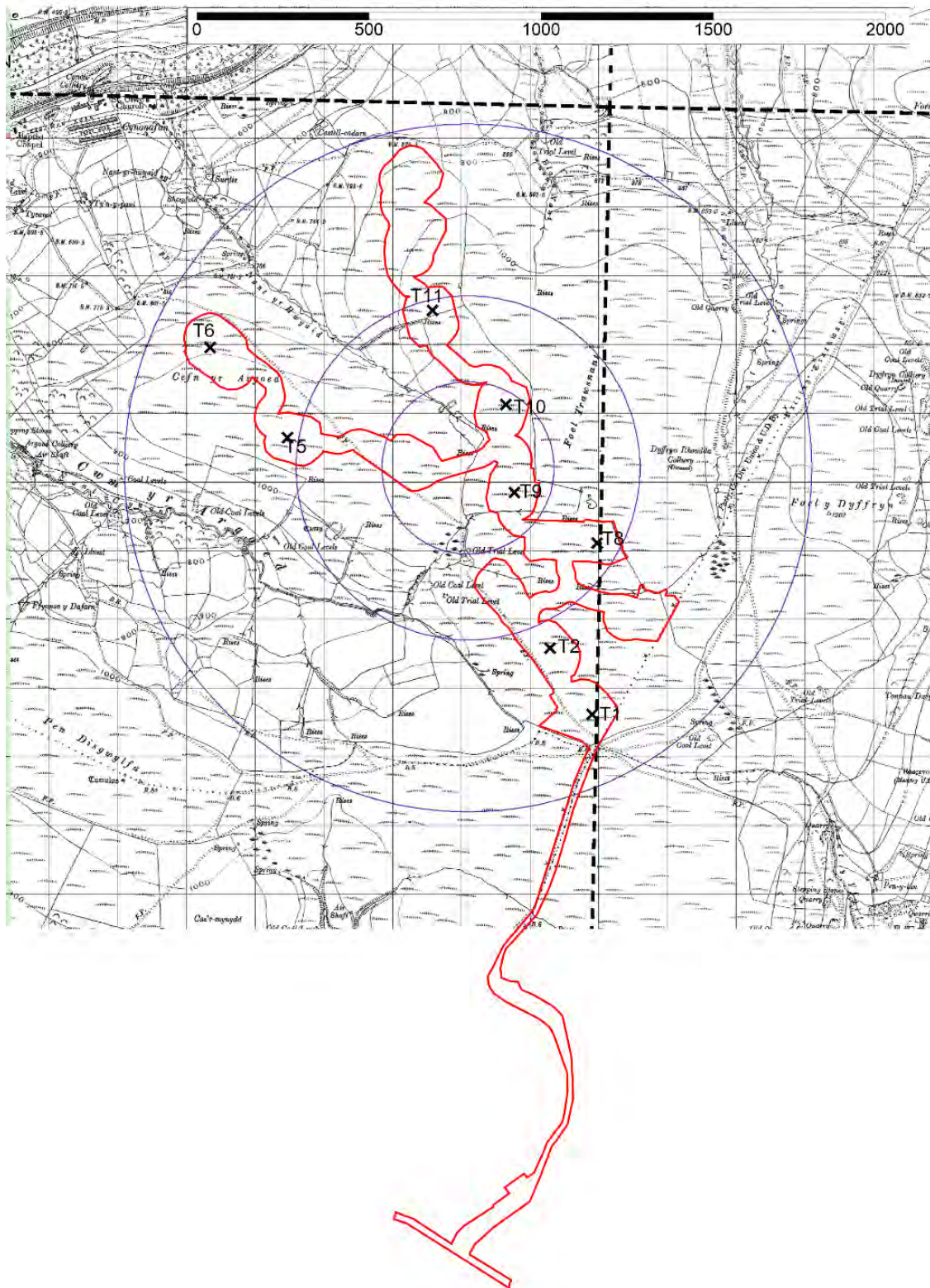
D01: Historical Map – 1884 (1:2,500 scale)

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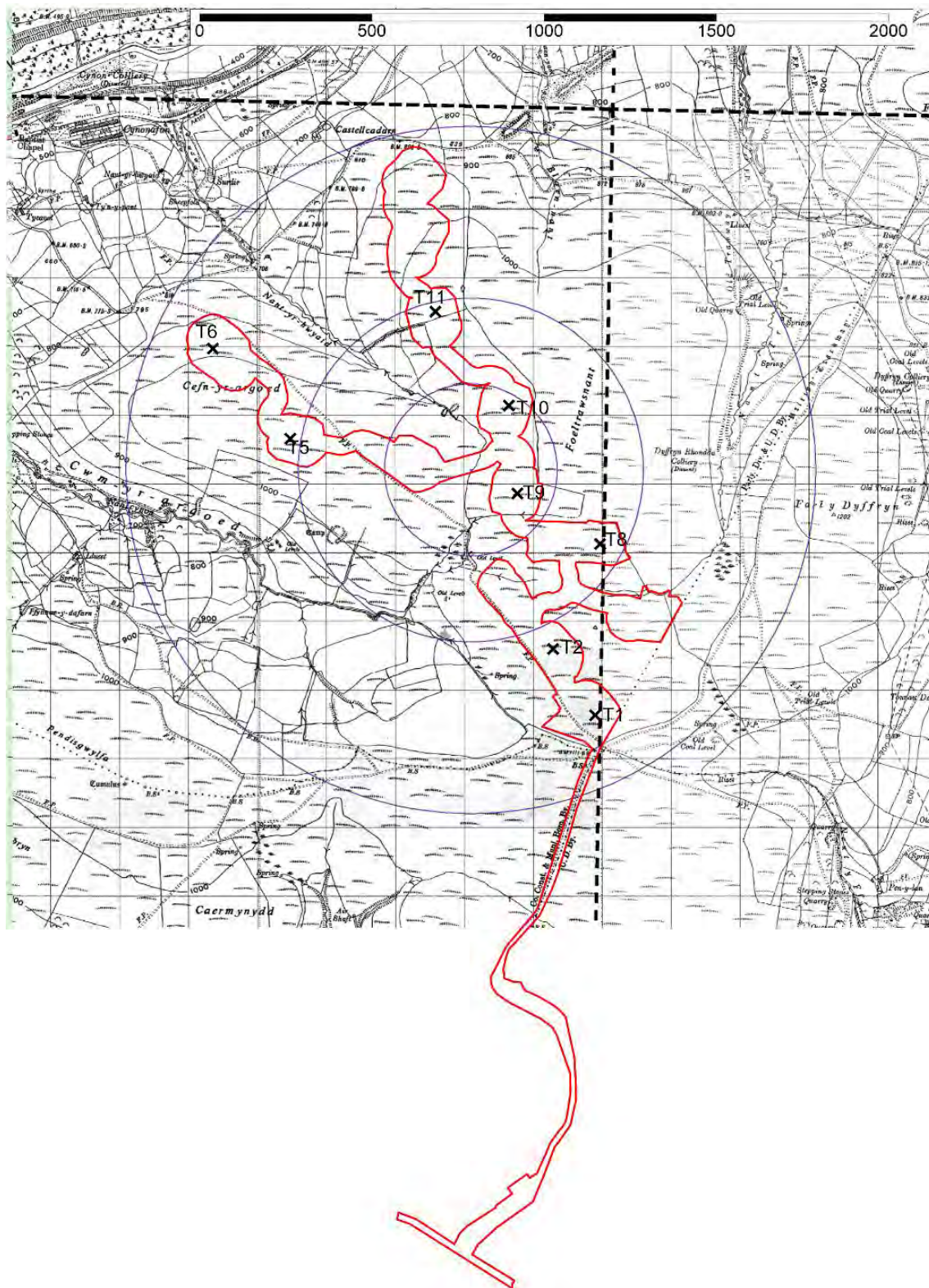
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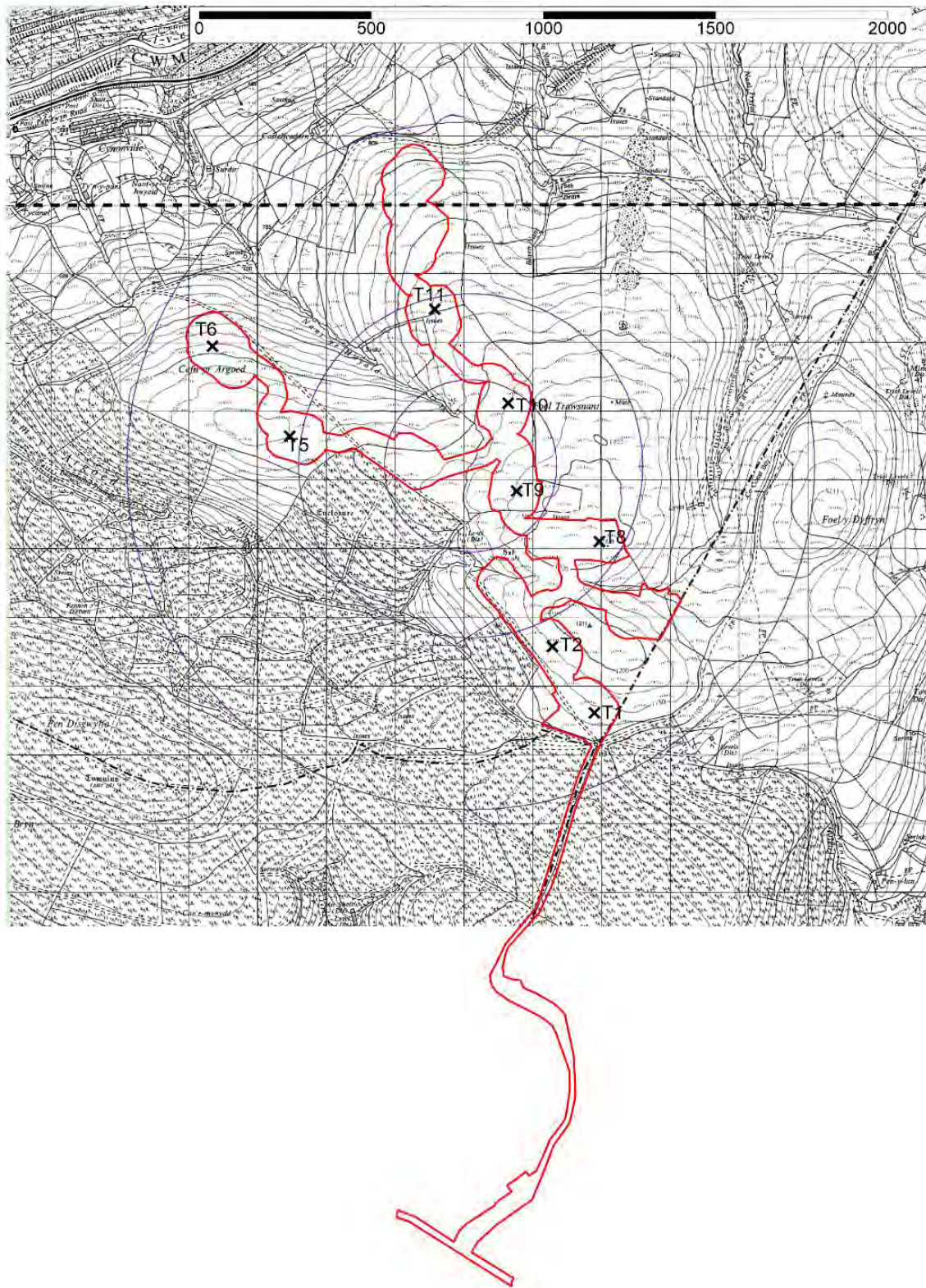
D03: Historical Map – 1921 (1:10,560 scale)

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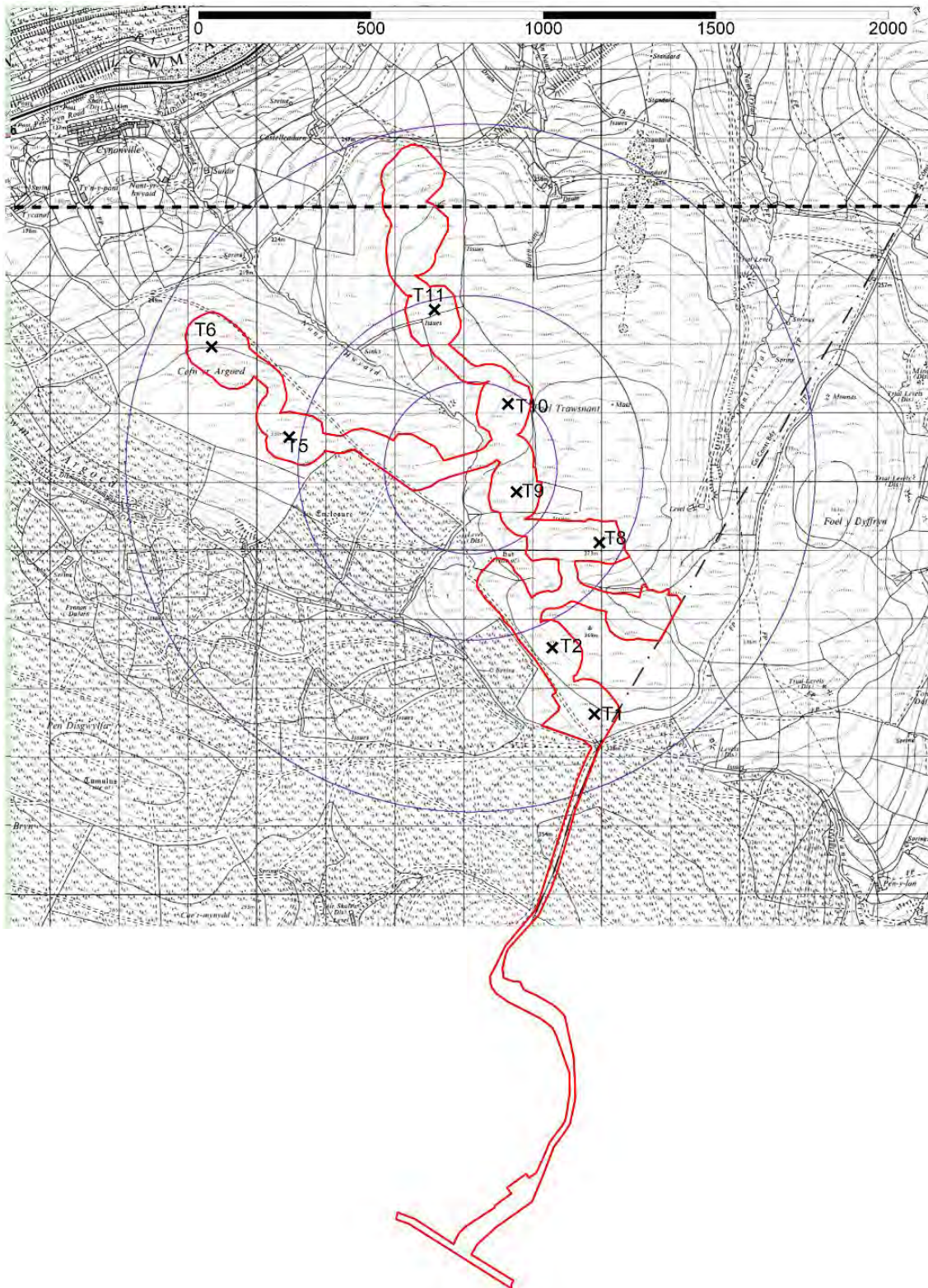
D04: Historical Map – 1935-1951 (1:2,500 scale)

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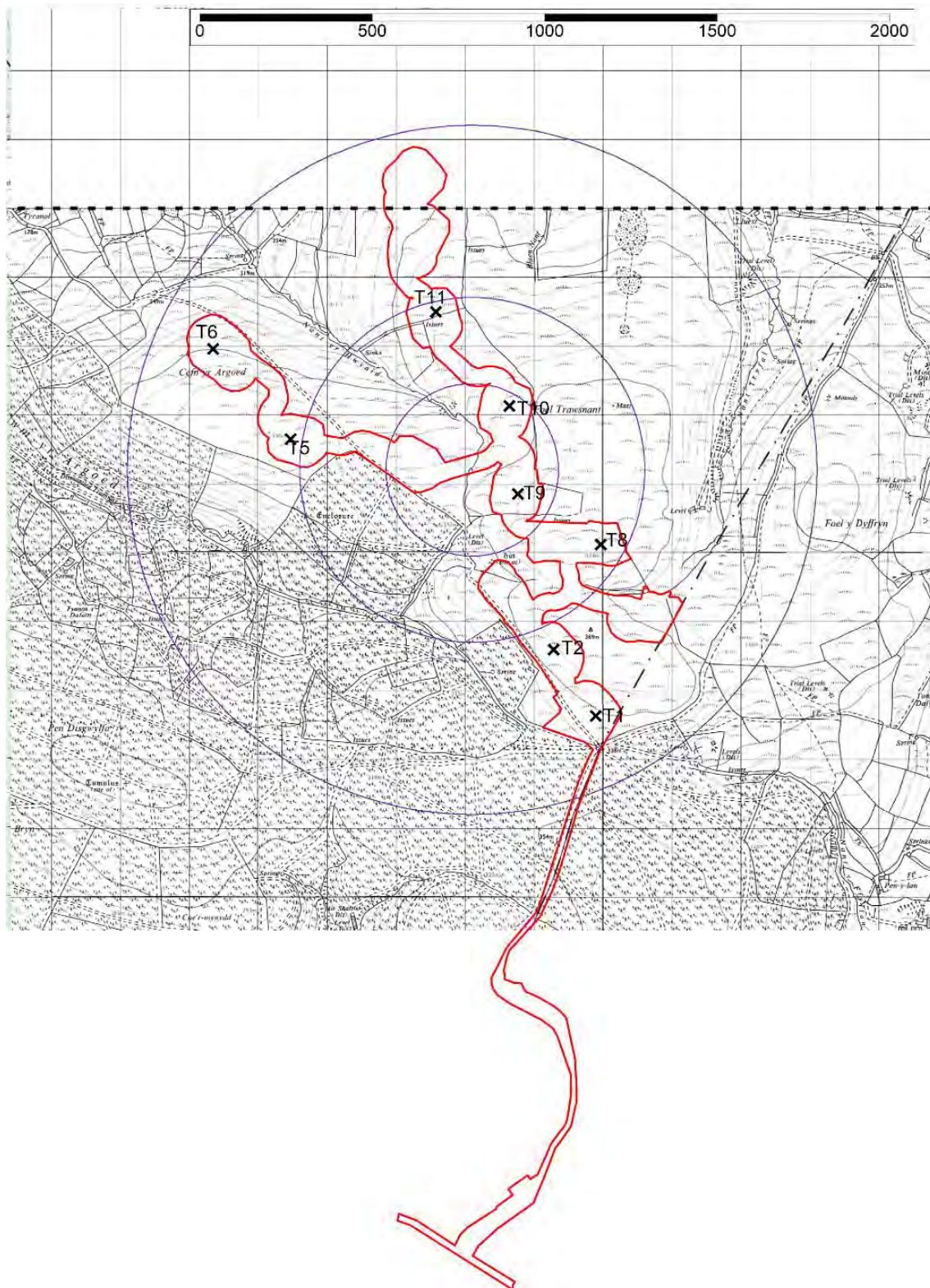
D05: Historical Map – 1964 (1:2,500 scale)

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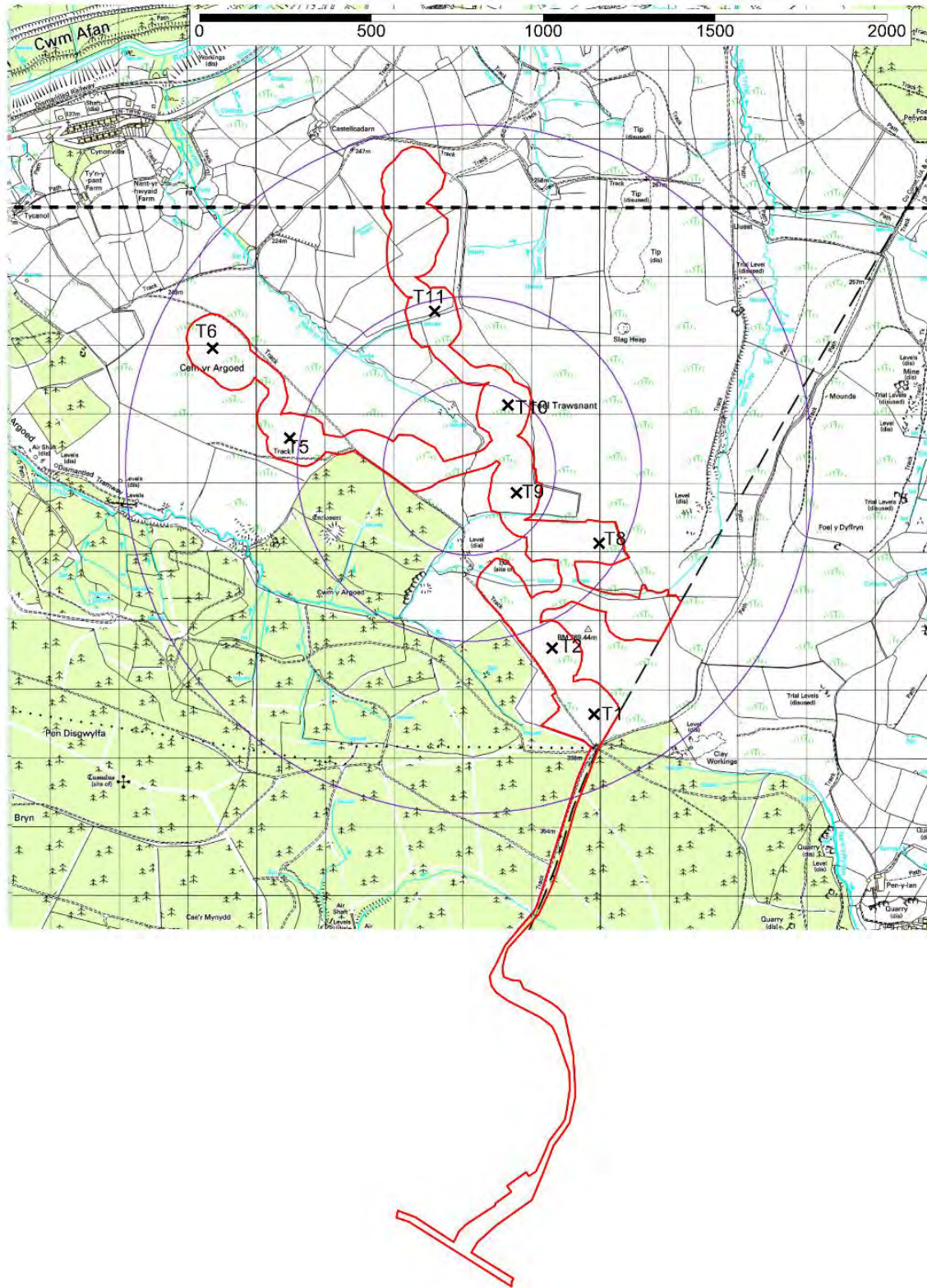
D06: Historical Map – 1988 (1:1,250 scale)

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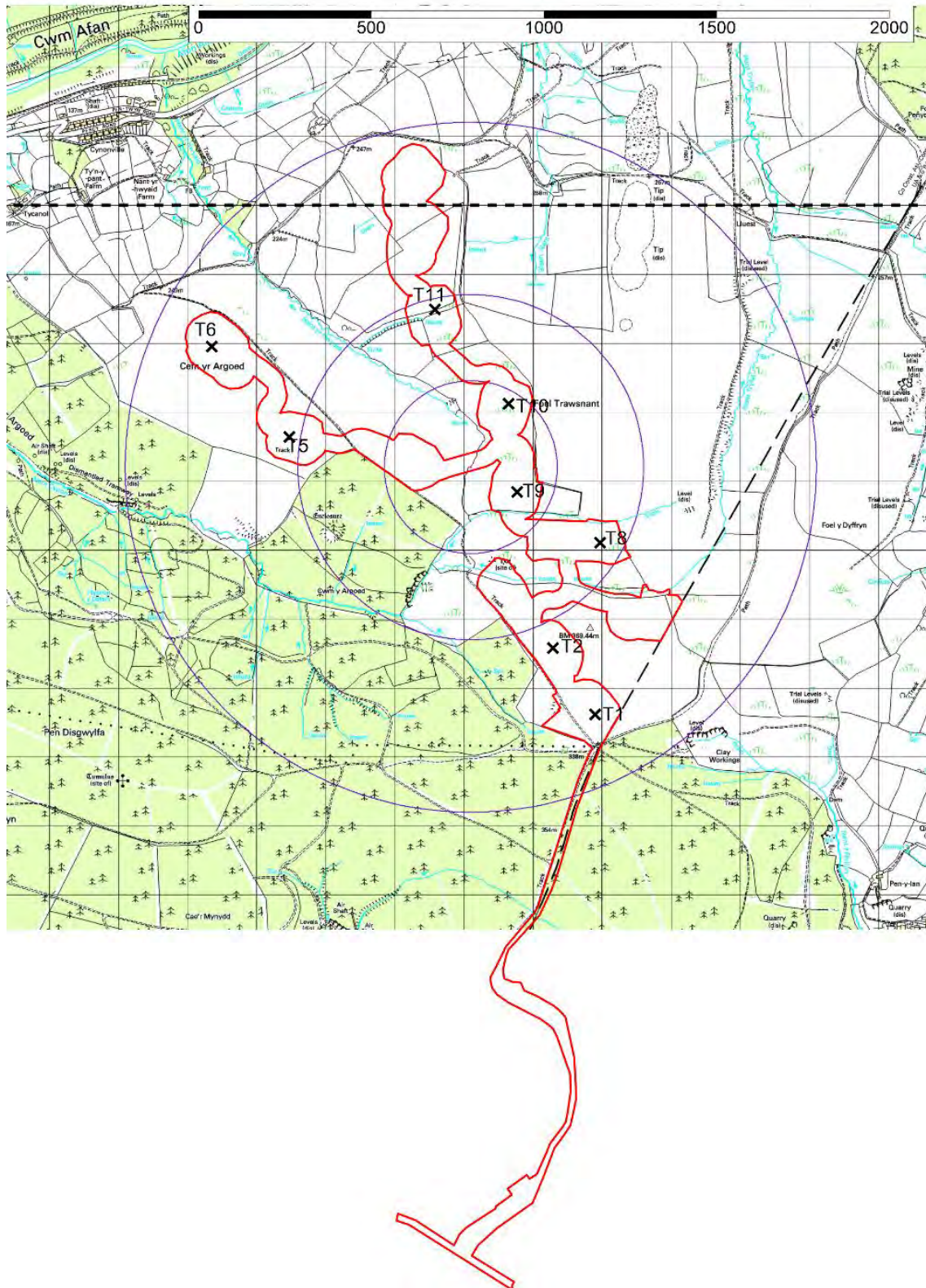
D07: Historical Map – 1990 (1:10,000 scale)

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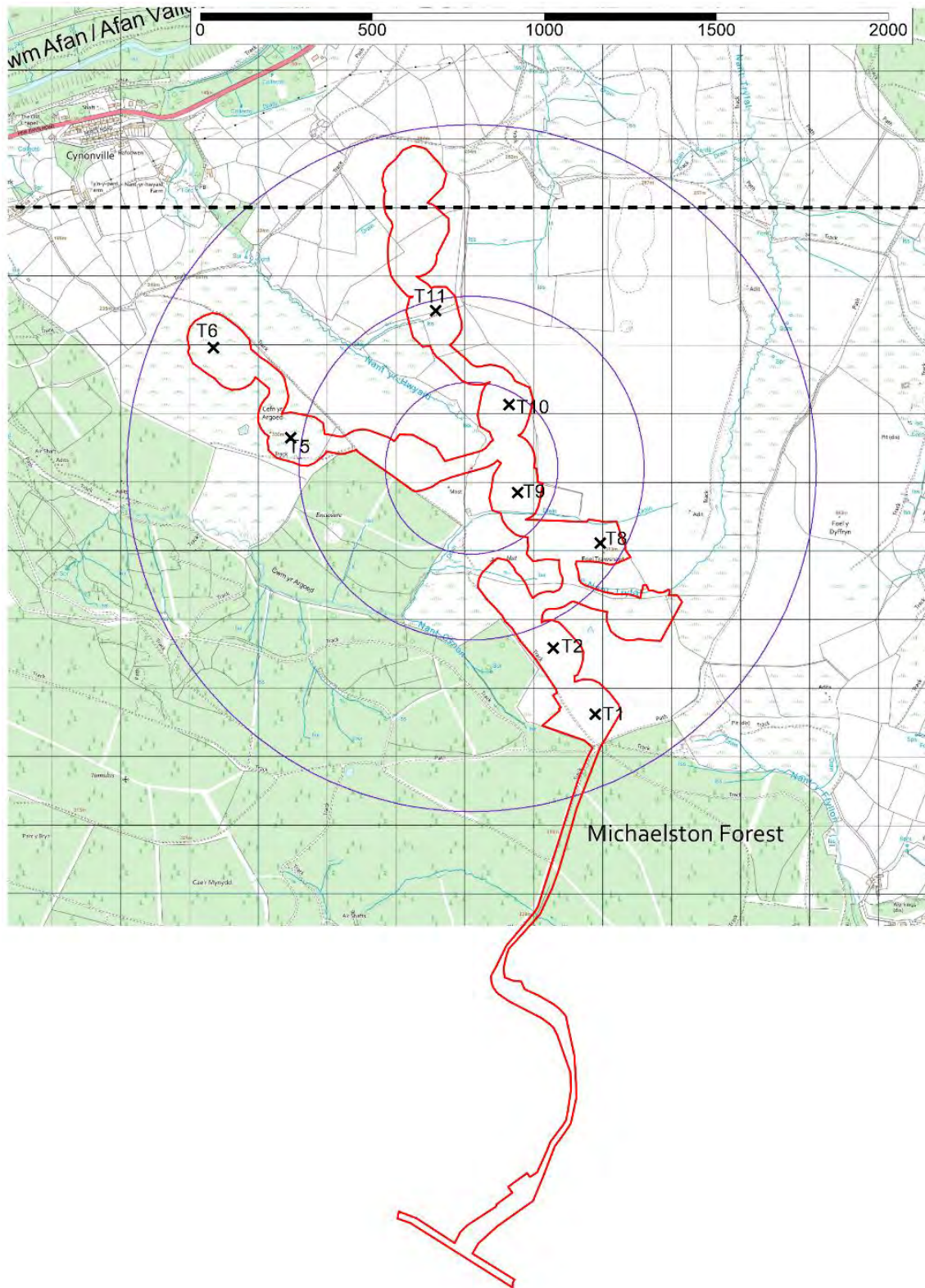
D08: Historical Map – 1999 (1:10,000 scale)

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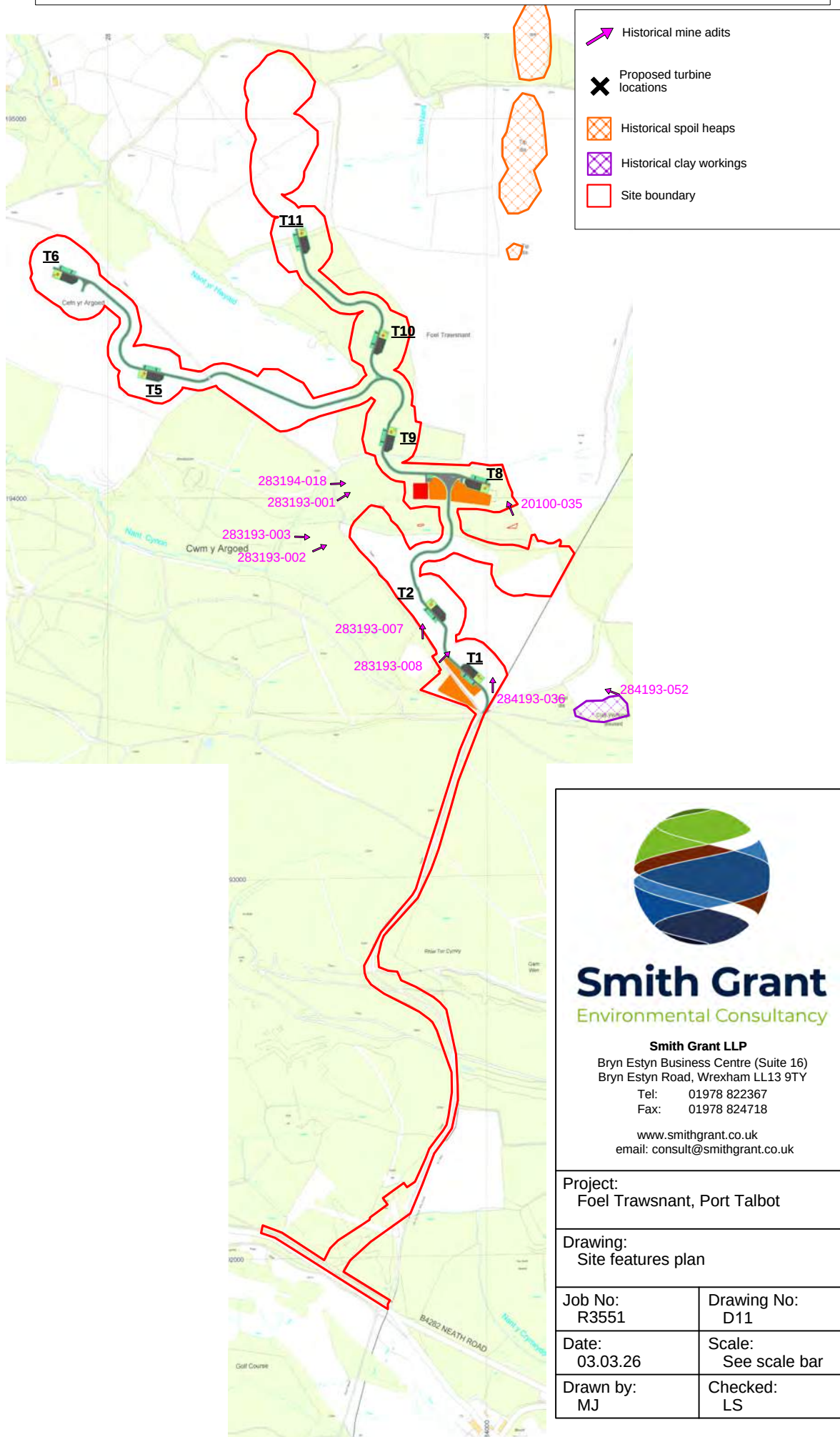
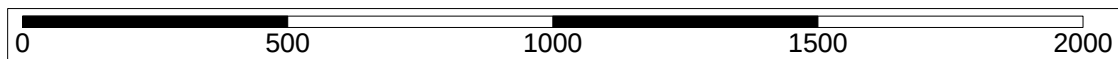


D09: Historical Map – 2006 (1:10,000 scale)

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D10: Historical Map – 2006 (1:10,000 scale)



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Project:
Foel Trawsnant, Port Talbot

Drawing:
Site features plan

Job No:
R3551

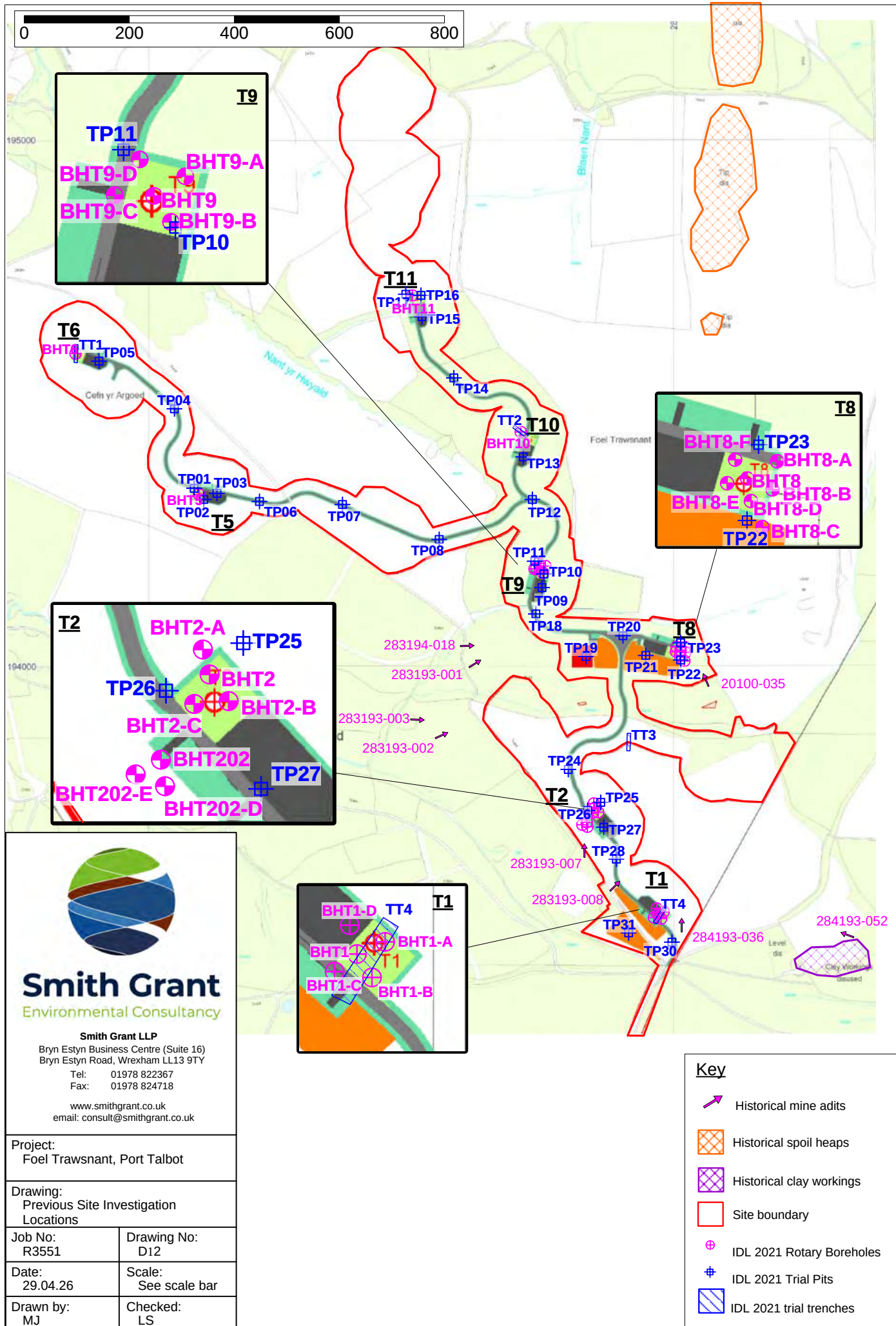
Drawing No:
D11

Date:
03.03.26

Scale:
See scale bar

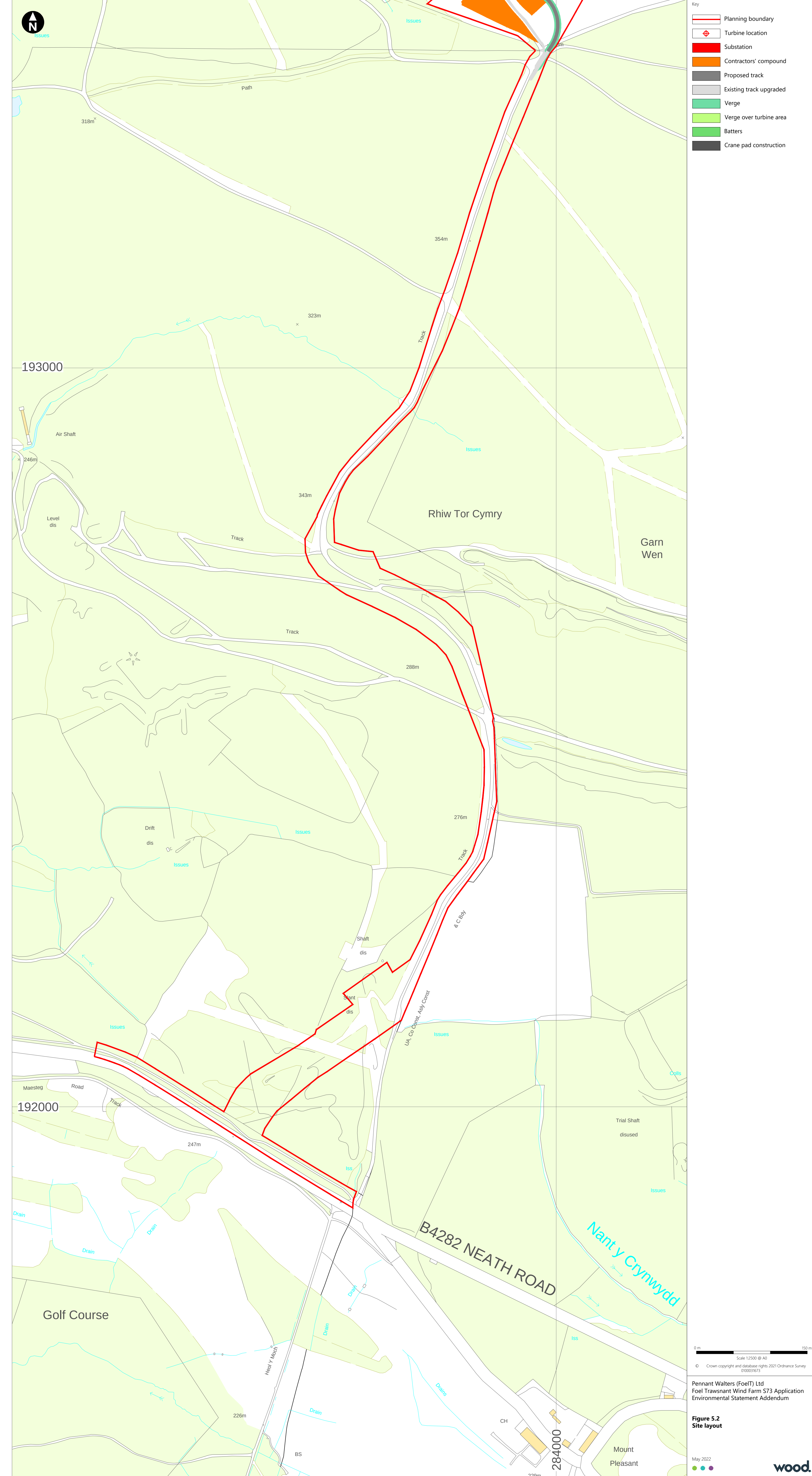
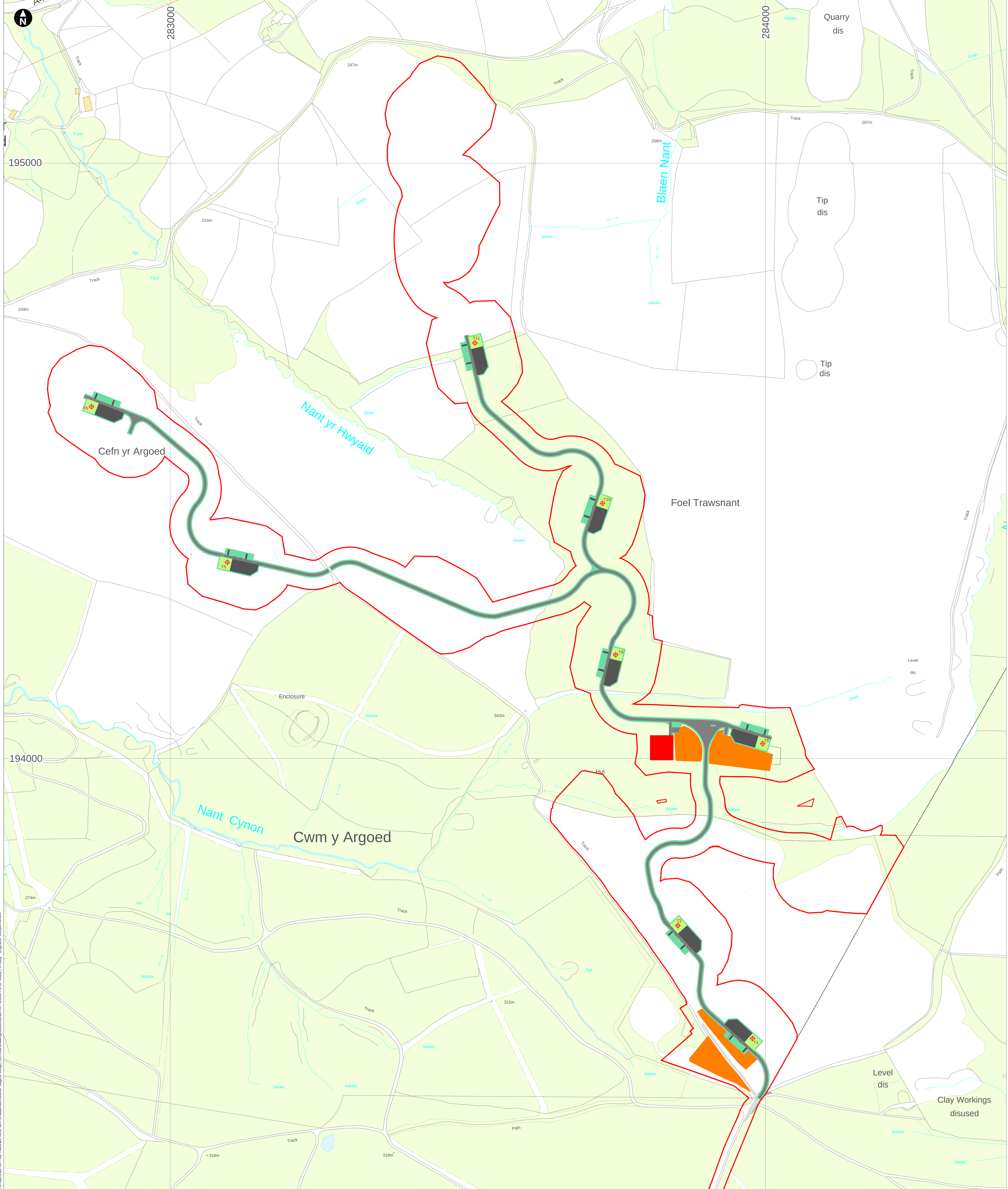
Drawn by:
MJ

Checked:
LS



APPENDIX A

Proposed Site Layout



Key

- Planning boundary
- Turbine location
- Substation
- Contractors' compound
- Proposed track
- Existing track upgraded
- Verge
- Verge over turbine area
- Batters
- Crane pad construction

0 m 100 m

Scale 1:2500 @ A3

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Pennant Walters (FoelT) Ltd
Foel Trawsnant Wind Farm S73 Application
Environmental Statement Addendum

Figure 5.2
Site layout

May 2022

wood

APPENDIX B

Photographic Record

R3547- Plas Ifan Care Home – Site Walkover

1.



08.04.26 – View looking south from existing access road to proposed site access

2.



08.04.26 – View north up the access track

3.



08.04.26 – View back south down the access track

4.



08.04.26 – Stream culverted beneath access track

5.



08.04.26 – View north up access track

6.



08.04.26 – View north up access track

7.



08.04.26 – View of curving section of access track

8.



08.04.26 – View of historical quarried area to the northeast of the access track

9.



08.04.26 – View of culverted stream beneath access track

10.



08.04.26 – Small ponds off the edge of the access track

11.



08.04.26 – View north up access track

12.



08.04.26 – Pond off the edge of the access track

13.



08.04.26 – View of locked main access gate to Site

14.



08.04.26 – Approximate location of T1

15.



08.04.26 – Approximate location of proposed contractor's compound

16.



08.04.26 – Historical remnants of mining legacy in the south of the development area

17.



08.04.26 – Historical remnants of mining legacy in the south of the development area

18.



08.04.26 – View north from southwest boundary of development area

19.



08.04.26 – Approximate location of T2

20.



08.04.26 – Approximate location of where proposed access road curves northeast

21.



08.04.26 – Approximate location of possible trial pit location and another locked access gate

22.



08.04.26 – View north across approximate area of T8 and compound areas

23.



08.04.26 – Approximate location of T8

24.



08.04.26 – Approximate area of proposed compound area southwest of T8

25.



08.04.26 – Approximate area of proposed compound area west of T8

26.



08.04.26 – Approximate area to the south of proposed compound area/proposed substation west of T8

27.



08.04.26 – Approximate location of the proposed substation area

28.



08.04.26 – Approximate area of T9

29.



08.04.26 – View northeast of off-site spoil heaps

30.



08.04.26 – Approximate location of T10

31.



08.04.26 - View northeast of off-site spoil heaps

32.



08.04.26 – Approximate location of T11

33.



08.04.26 – Approximate location of T6

34.



08.04.26 – Approximate location of where proposed access road to T6 curves south towards T5

35.



08.04.26 – View southeast towards T5

36.



08.04.26 – Approximate location of T5

37.  08.04.26 – View eastwards across	38.  08.04.26 – Approximate location of access road travelling east from T5
39.  08.04.26 – View northeast	40.  08.04.26 – Approximate location of access road travelling linking T5 to T9/T10
41.  08.04.26 – View of proposed access road travelling linking T5 to T9/T10	42.  08.04.26 – Outcrop of Jubilee fault and culvert located off-site

APPENDIX C

Groundsure Report (Including Historical Maps)

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

279012478_1_1

Customer Reference:

12826/RAH

National Grid Reference:

283620, 194240

Slice:

A

Site Area (Ha):

0.01

Search Buffer (m):

1000

Site Details:

Foel Trawsnant Windfarm

Client Details:

MR H Pritchard

Integral Geotechnique

Integral House

7 Beddau Way

Castlegate Business Park

Caerphilly

CF83 2AX

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	8
Hazardous Substances	-
Geological	9
Industrial Land Use	14
Sensitive Land Use	15
Data Currency	16
Data Suppliers	21
Useful Contacts	22

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes		Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 1	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 1	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 1		4	12	35

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 8			1	4
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 9	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 9	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 11		1	2	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 12	Yes	n/a	n/a	n/a
Mining Instability	pg 12	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production					
Points of Interest - Public Infrastructure	pg 14				4
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks	pg 15		1		
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	0	1	283620 194240
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	341	1	283400 194500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	412	1	283350 194550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	446	1	283300 194550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	457	1	283500 193800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	475	1	283350 193850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	482	1	283300 194600
	Nearest Surface Water Feature	A13SW (S)	121	-	283605 194120
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (NE)	0	2	283620 194240
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (NE)	0	2	283620 194240
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
1	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 377.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SE (S)	141	3	283657 194104

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 607.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Hwyaidd Catchment Name: Afan Primacy: 1	A13NW (N)	142	3	283593 194379
3	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SE (S)	148	3	283628 194092
4	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SE (S)	152	3	283621 194088
5	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SW (S)	285	3	283596 193956
6	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SW (S)	293	3	283619 193947
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SE (S)	295	3	283628 193946
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SW (S)	322	3	283499 193943
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A13SW (SW)	350	3	283312 194074
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A14SW (SE)	411	3	283997 194077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A14SW (E)	440	3	284030 194082
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A14SW (E)	444	3	284034 194082
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 225.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A18SW (N)	446	3	283479 194662
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 260.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Tryfal Catchment Name: Afan Primacy: 1	A13SE (SE)	471	3	283950 193905
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A8NW (SW)	473	3	283419 193812
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A8NW (S)	473	3	283464 193794
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A8NW (S)	521	3	283576 193722
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A7NE (SW)	564	3	283214 193850
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18SE (N)	570	3	283807 194779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8NE (S)	582	3	283631 193658
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 231.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8NE (S)	585	3	283629 193656
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 359.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Hwyaidd Catchment Name: Afan Primacy: 1	A17SE (NW)	617	3	283177 194668
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 210.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	631	3	283119 193857
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A7NE (SW)	631	3	283119 193857
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18SE (N)	637	3	283806 194849
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18SE (N)	641	3	283806 194852
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A18SE (N)	654	3	283694 194889
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 554.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A12SE (SW)	668	3	283015 193959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1366.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Tryfal Catchment Name: Afan Primacy: 1	A9NW (SE)	676	3	284196 193886
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A7NE (SW)	682	3	283035 193891
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	682	3	283035 193891
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	687	3	283025 193898
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18SE (N)	697	3	283823 194906
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	740	3	283162 193660
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	740	3	283162 193660
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 217.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8SW (S)	750	3	283403 193523
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 177.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	759	3	283217 193598

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A17NE (NW)	763	3	283282 194923
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	768	3	282986 193807
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	768	3	282986 193807
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8SE (S)	773	3	283778 193484
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8SE (S)	773	3	283778 193484
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18NE (N)	859	3	283860 195064
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18NE (N)	863	3	283861 195068
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18NE (N)	873	3	283857 195079
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 262.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blaen Nant Catchment Name: Afan Primacy: 1	A18NE (N)	876	3	283854 195084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Hwyaidd Catchment Name: Afan Primacy: 1	A17SE (NW)	894	3	282979 194863
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A17SE (NW)	897	3	282965 194852
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 363.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Hwyaidd Catchment Name: Afan Primacy: 1	A17SE (NW)	906	3	282973 194874
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 305.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A12SW (W)	949	3	282684 194085
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cynon Catchment Name: Afan Primacy: 1	A12SW (W)	960	3	282670 194105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	4	283620 194240
	Local Authority Landfill Coverage Name: Bridgend County Borough Council - Has supplied landfill data		728	5	284251 193878
52	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SE (SW)	418	-	283255 194038
53	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SE (W)	599	-	283065 194016
54	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SW (W)	792	-	282839 194112
55	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SW (W)	827	-	282801 194125
56	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1988	A18NE (N)	962	-	283813 195182

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: South Wales Upper Coal Measures Formation	A13NE (NE)	0	1	283620 194240
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	0	1	283620 194240
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	74	1	283593 194309
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	215	1	283594 194027
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (S)	379	1	283492 193884
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	503	1	283971 193881
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	536	1	283269 193835

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (SW)	674	1	283002 193973
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14SE (E)	846	1	284431 194000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	865	1	284427 194549
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	900	1	282842 193789
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (S)	903	1	283363 193375
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (SE)	973	1	284149 193424

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	BGS Recorded Mineral Sites Site Name: Foel Trawsnant Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156479 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (S)	247	1	283622 193994
58	BGS Recorded Mineral Sites Site Name: Foel Trawsnant Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156480 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	370	1	283498 193891
59	BGS Recorded Mineral Sites Site Name: Foel Trawsnant Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156498 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	385	1	283554 193861
60	BGS Recorded Mineral Sites Site Name: Argoed Colliery Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156482 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	603	1	283059 194019
61	BGS Recorded Mineral Sites Site Name: Argoed Colliery Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156481 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	836	1	282792 194132
62	BGS Recorded Mineral Sites Site Name: Lluest Location: Duffryn, Maesteg, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156747 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	905	1	284398 194701

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	BGS Recorded Mineral Sites Site Name: Lluest Location: Duffryn, Maesteg, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156837 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	956	1	284409 194779
64	BGS Recorded Mineral Sites Site Name: Blaen Nant Location: Duffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156526 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NE (N)	961	1	283812 195181
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (NE)	0	6	283620 194240
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	-	283620 194240
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	74	1	283593 194309
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	155	1	283586 194390
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	215	1	283594 194027
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	74	1	283593 194309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	74	1	283593 194309
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	215	1	283594 194027
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	Points of Interest - Public Infrastructure Name: Heap (Dis) Location: SA13 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	612	7	284069 194655
66	Points of Interest - Public Infrastructure Name: Refuse Tip (Disused) Location: SA13 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	801	7	284088 194889
66	Points of Interest - Public Infrastructure Name: Heap (Dis) Location: SA13 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	829	7	284090 194922
67	Points of Interest - Public Infrastructure Name: Refuse Tip (Disused) Location: SA13 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	943	7	284113 195043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Forest Parks Name: Not Given Multiple Area: N Area (m2): 8226578 Source: Forestry Commission	A13SW (SW)	233	8	283490 194047

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Bridgend County Borough Council - Environmental Health Department Natural Resources Wales Neath Port Talbot County Borough Council - Environmental Health Department	January 2020 June 2020 March 2015	Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 December 2020	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Natural Resources Wales Environment Agency - Welsh Region	February 2021 January 2021	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Neath Port Talbot County Borough Council - Environmental Health Department Bridgend County Borough Council - Environmental Health Department	August 2012 July 2015	Variable Variable
Local Authority Pollution Prevention and Controls Bridgend County Borough Council - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	July 2015 March 2014	Not Applicable Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bridgend County Borough Council - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	July 2015 March 2014	Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2021	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	January 2021 January 2021	Quarterly Quarterly
Water Abstractions Natural Resources Wales Environment Agency - Welsh Region	February 2021 January 2021	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	December 2021 October 2017	Quarterly Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2018	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	September 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South West Area Natural Resources Wales	January 2021 January 2021	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	April 2021 January 2021	Quarterly Quarterly
Local Authority Landfill Coverage Bridgend County Borough Council Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bridgend County Borough Council Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 September 2003	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Bridgend County Borough Council - Planning Department Neath Port Talbot County Borough Council - Planning Department	February 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents Bridgend County Borough Council - Planning Department Neath Port Talbot County Borough Council - Planning Department	February 2016 October 2015	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2021	Quarterly
Gas Pipelines National Grid	January 2021	
Points of Interest - Commercial Services PointX	March 2021	Quarterly
Points of Interest - Education and Health PointX	March 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2021	Quarterly
Points of Interest - Public Infrastructure PointX	March 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2021	Quarterly
Underground Electrical Cables National Grid	April 2021	

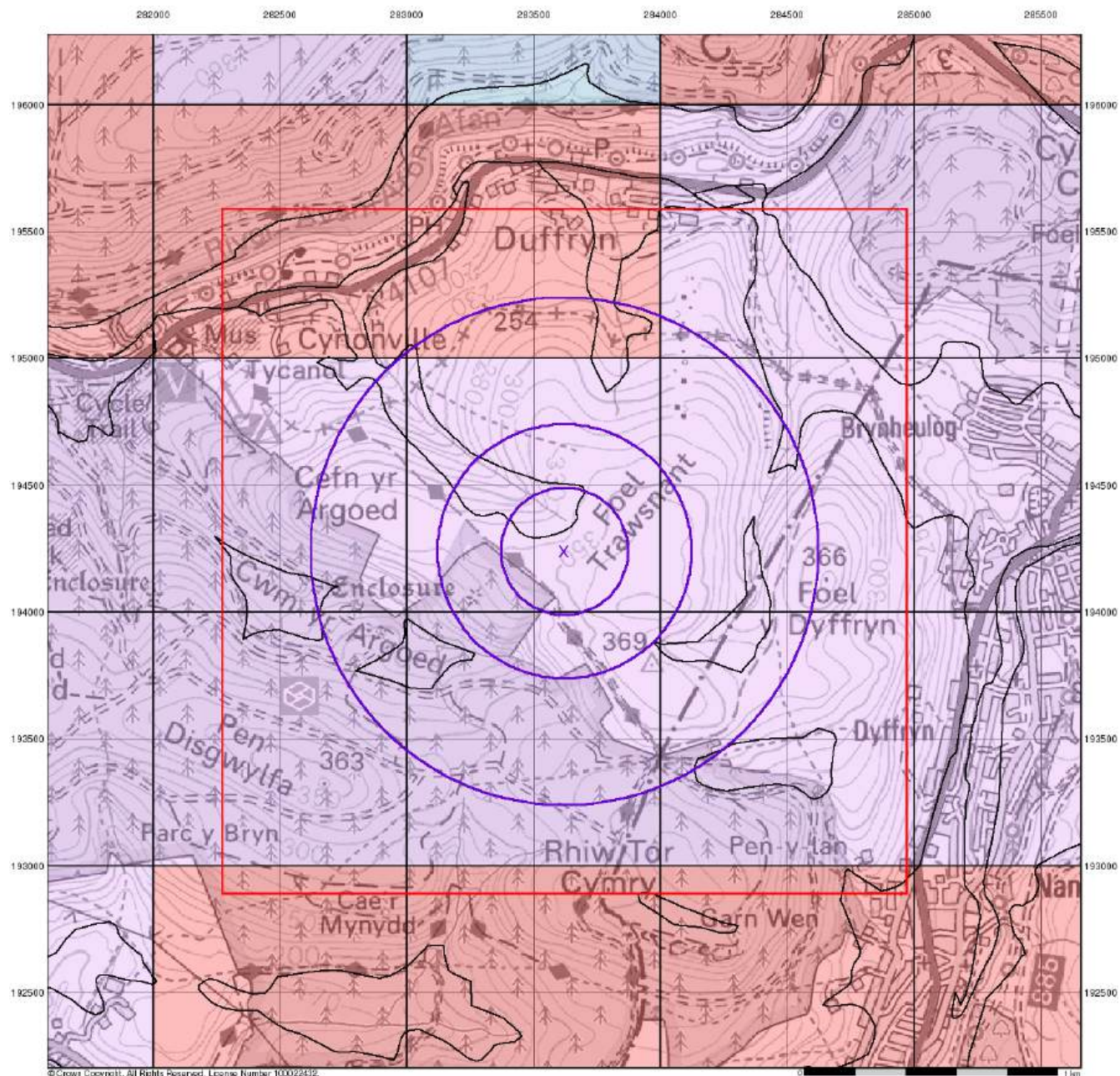
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Bridgend County Borough Council Neath Port Talbot County Borough Council - Planning Services	June 2020 June 2020	As notified As notified
Areas of Unadopted Green Belt Bridgend County Borough Council Neath Port Talbot County Borough Council - Planning Services	June 2020 June 2020	As notified As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Bridgend County Borough Council Neath Port Talbot County Borough Council	August 2018 August 2018	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2019 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	Neath Port Talbot County Borough Council - Environmental Health Department Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
5	Bridgend County Borough Council PO Box 4, Civic Offices, Angel Street, Bridgend, Mid Glamorgan, CF31 1LX	Telephone: 01656 643643 Fax: 01656 668126 Website: www.bridgend.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Forestry Commission 231 Corstorphine Road, Edinburgh, Midlothian, EH12 7AT	Telephone: 0131 334 0303 Fax: 0131 334 4473
9	Neath Port Talbot County Borough Council Civic Centre, Port Talbot, West Glamorgan, SA13 1PJ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Intégral Géotechnique

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

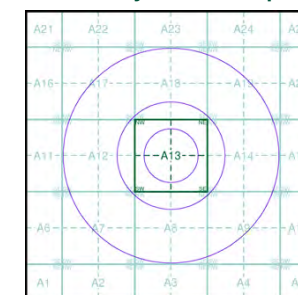
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

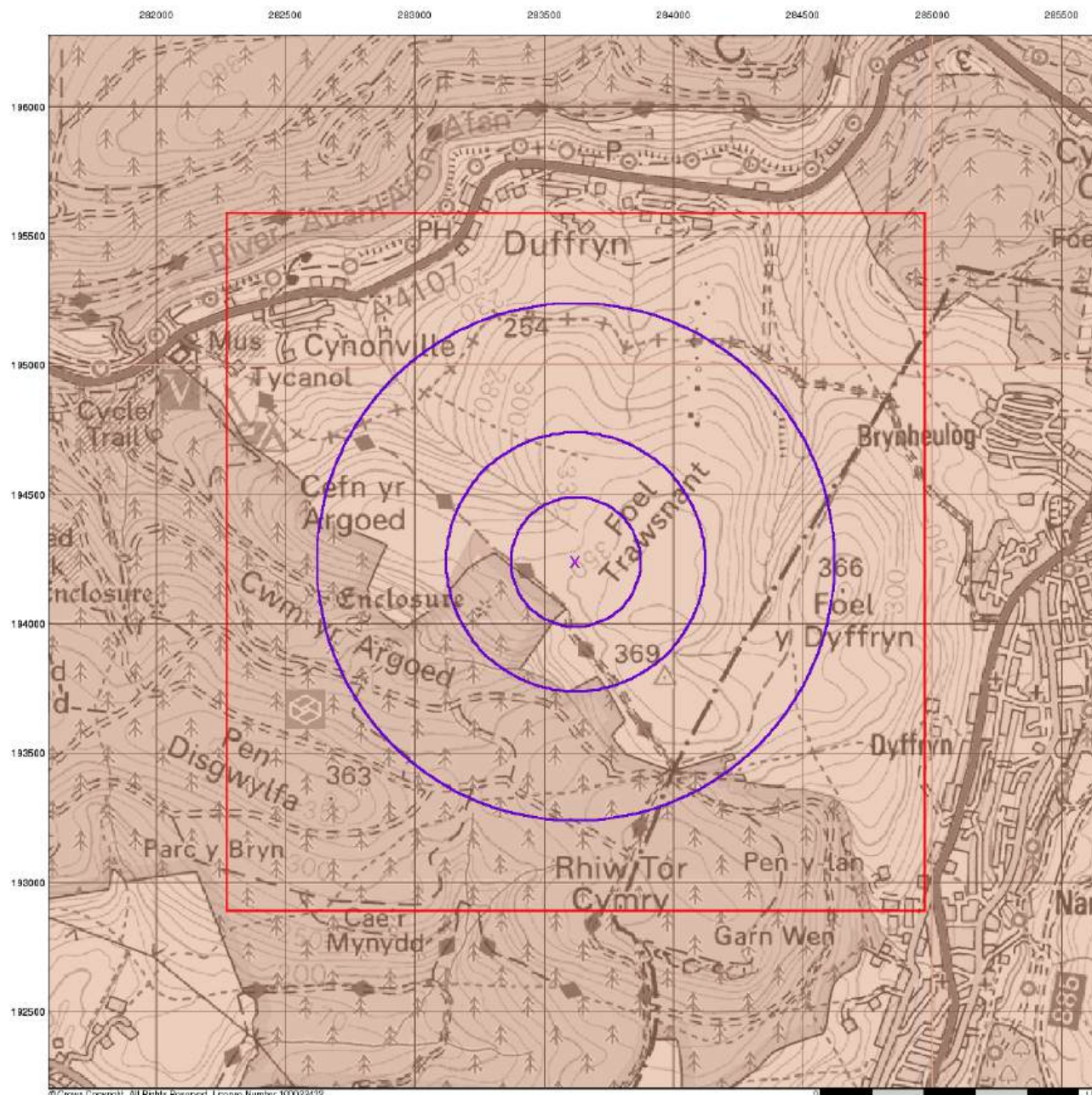
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 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Foel Trawsant Windfarm

Landmark
 INFORMATION GROUP

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



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Intégral Géotechnique

Bedrock Aquifer Designation

General

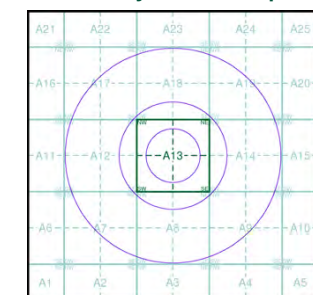
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

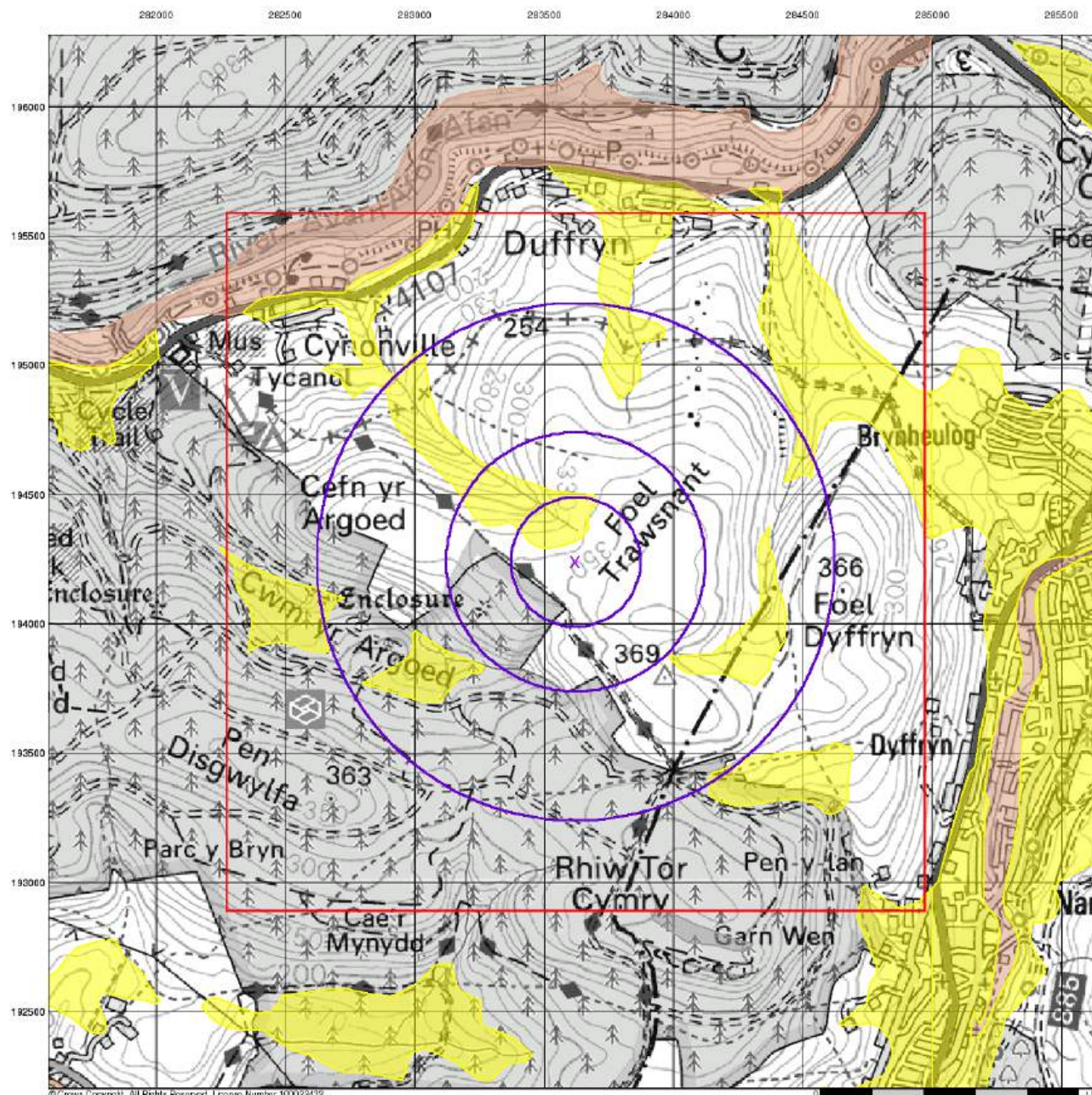
Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm

Landmark
 INFORMATION GROUP

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



Intégral Géotechnique

Superficial Aquifer Designation

General

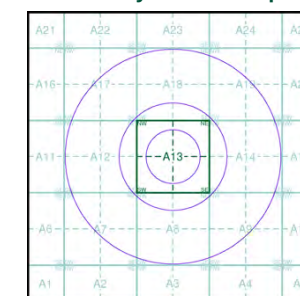
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

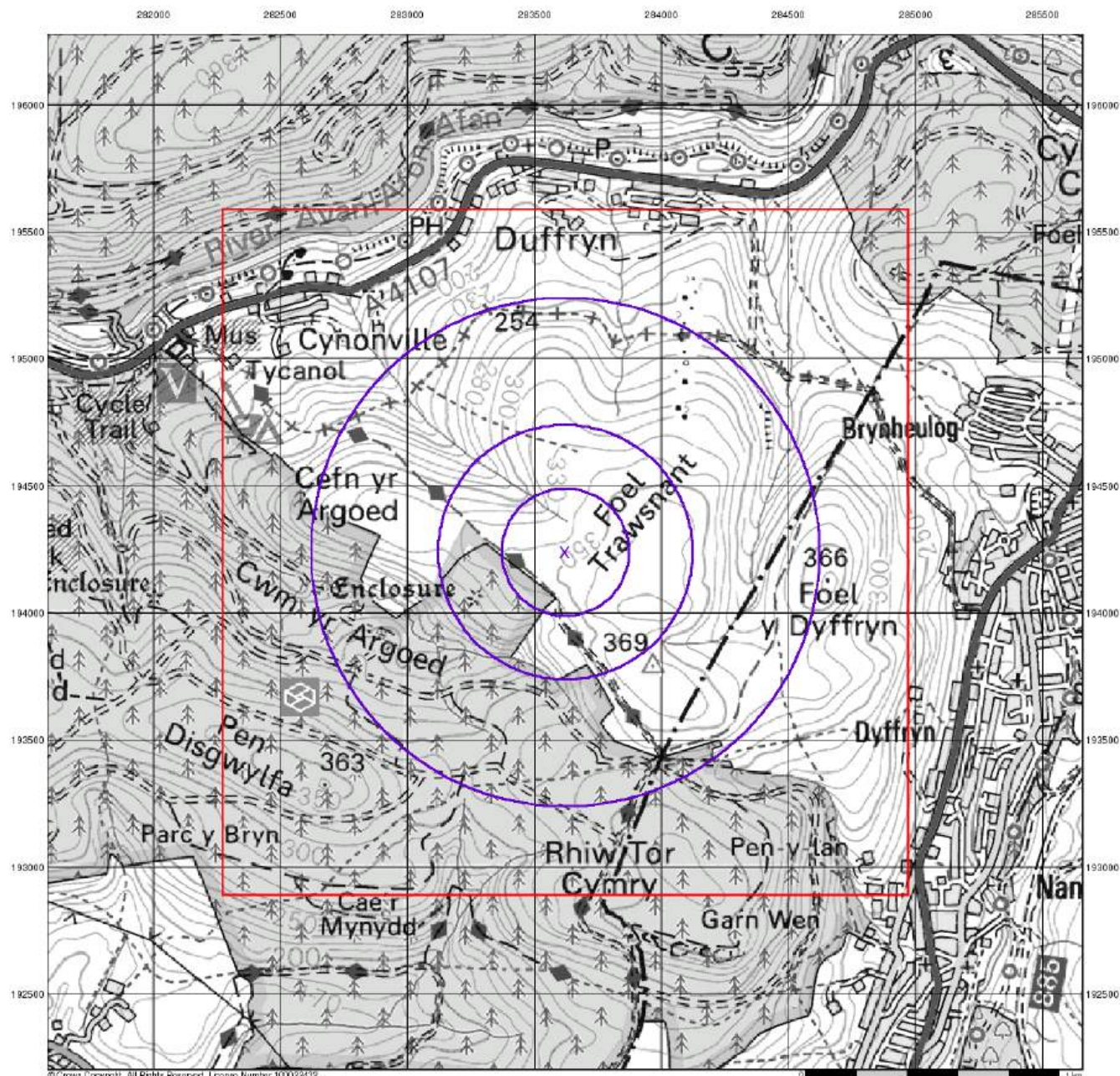
Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Intégral Géotechnique

Source Protection Zones

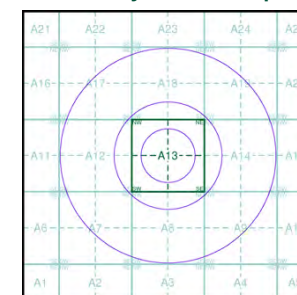
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

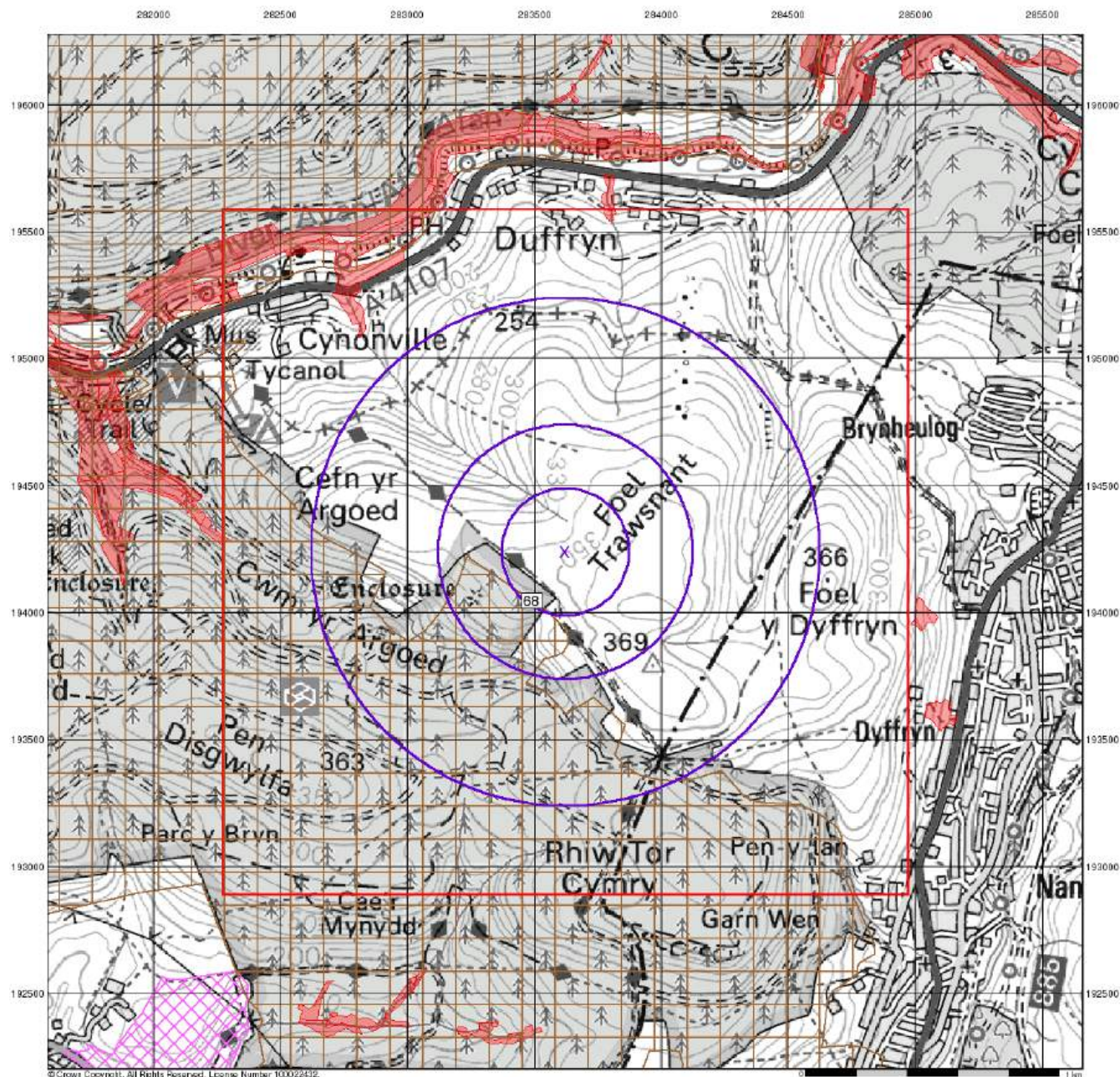
Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Intégral Géotechnique

Sensitive Land Uses

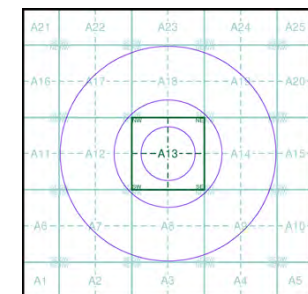
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

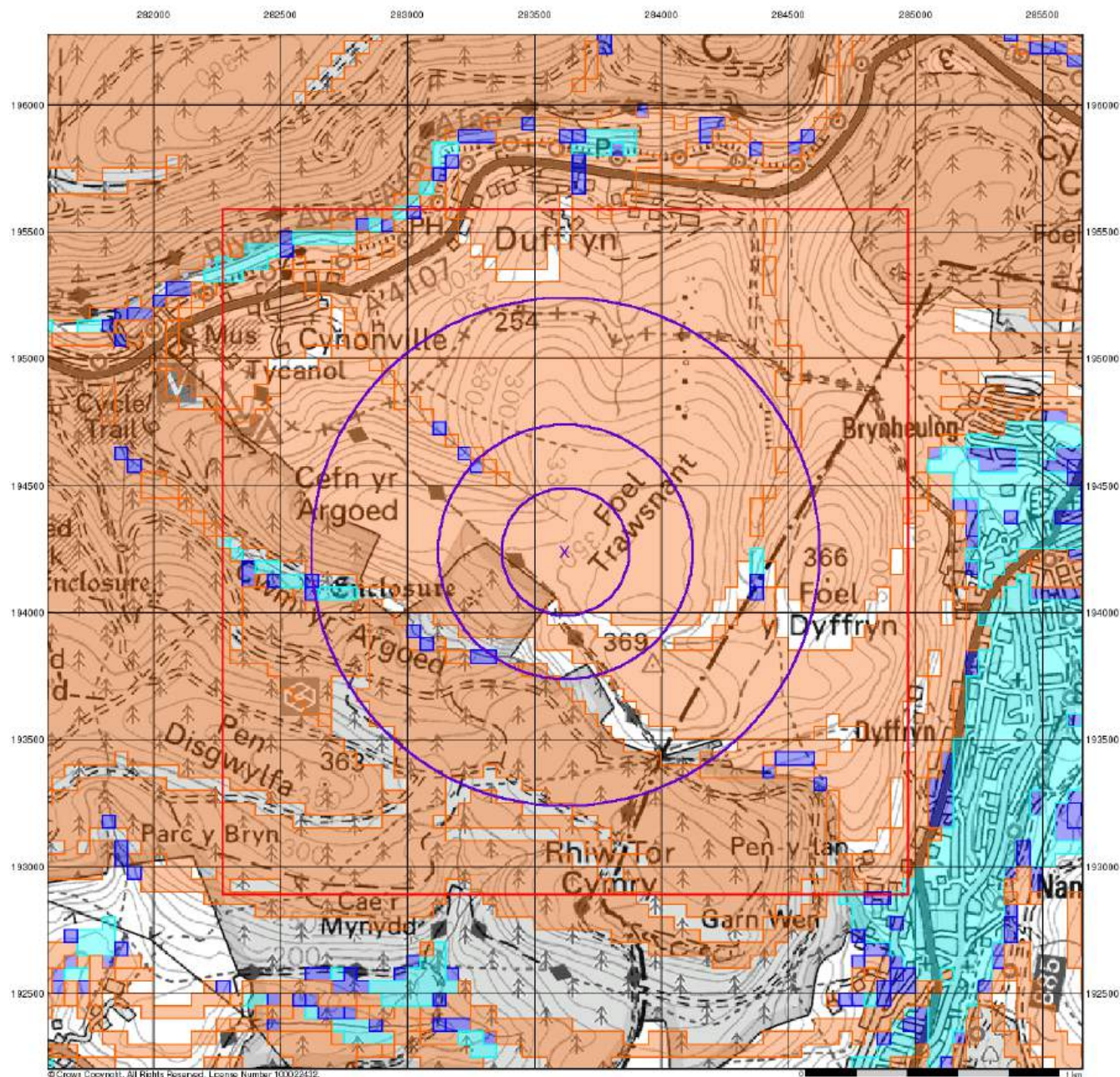
Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Intégral Géotechnique

BGS Flood GFS Data

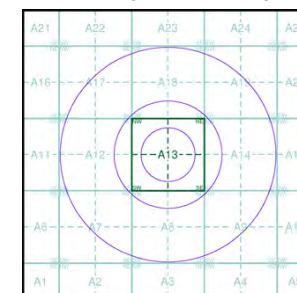
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Landmark
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General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

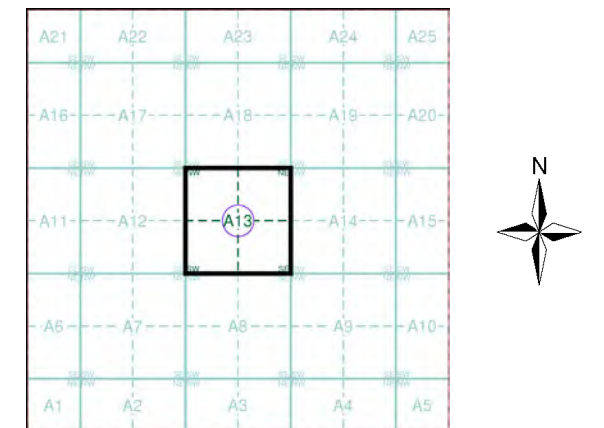
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

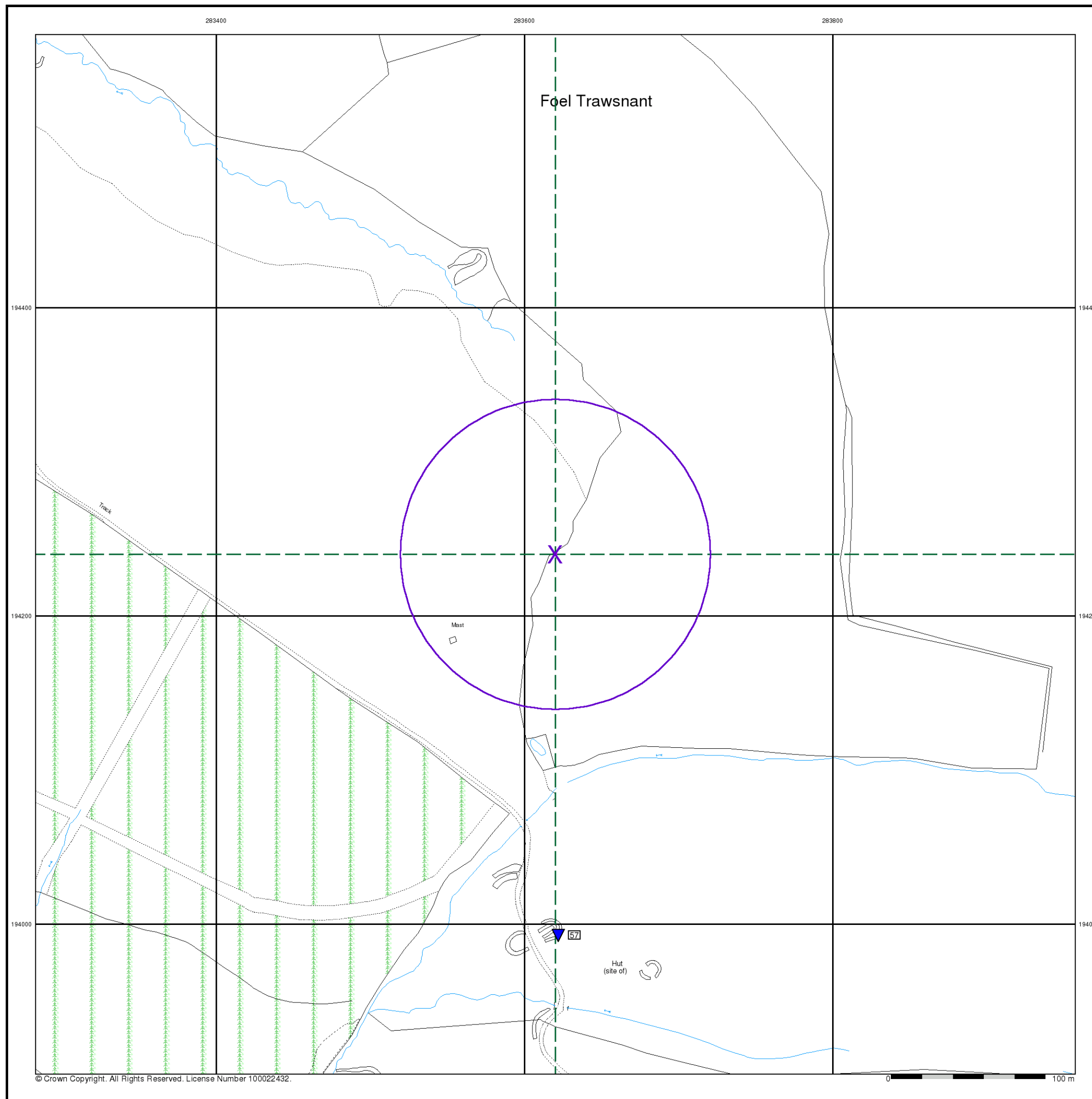


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Plot Buffer (m): 100

Site Details

Foel Trawsnant Windfarm

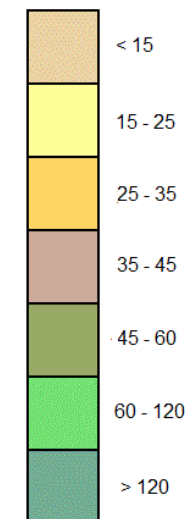


General

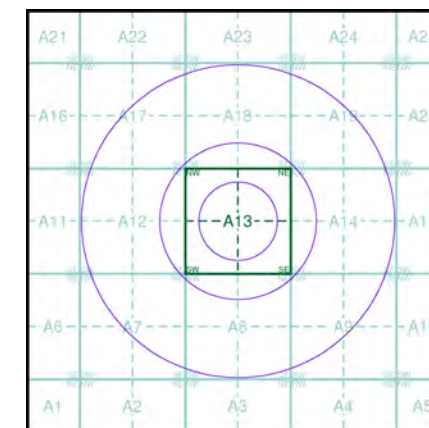
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

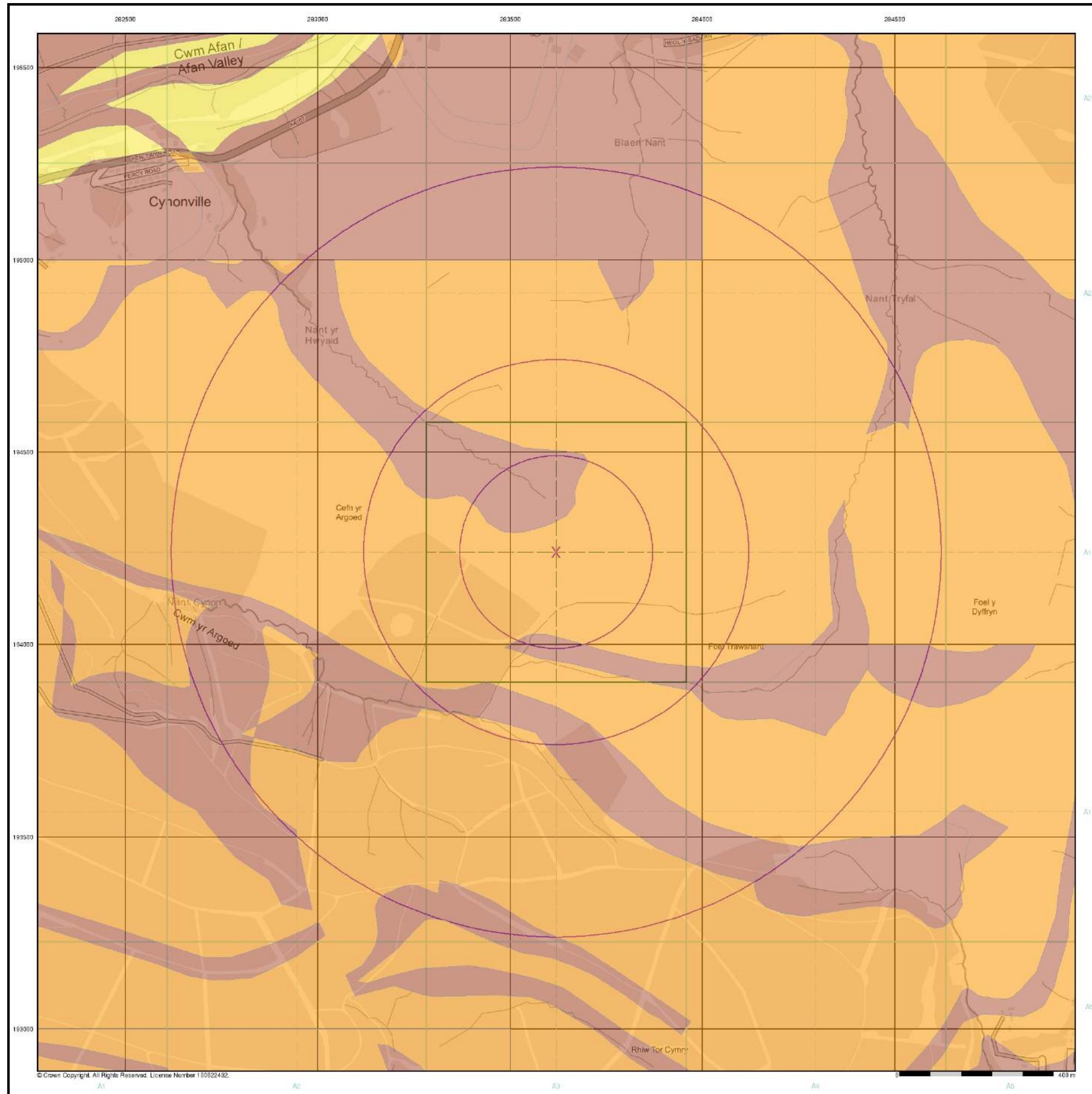


Order Details

Order Details: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



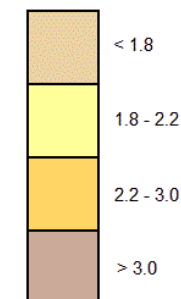
Intégral Géotechnique

General

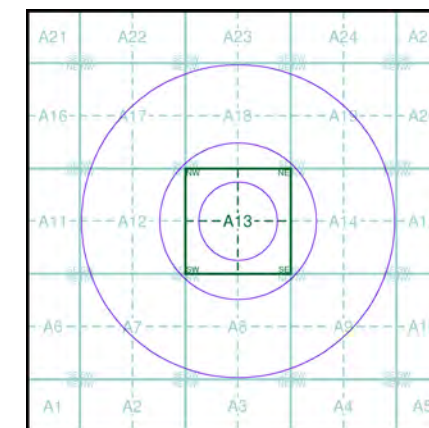
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm

Landmark
INFORMATION GROUP

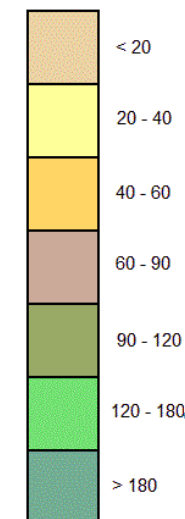
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

General

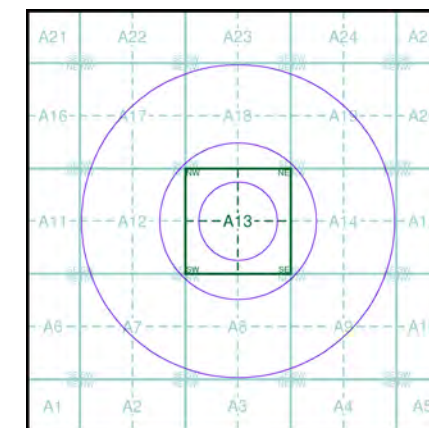
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm

General

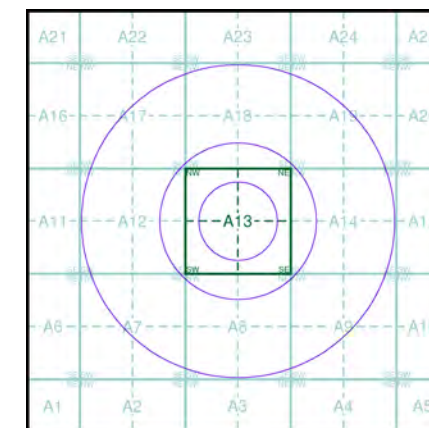
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

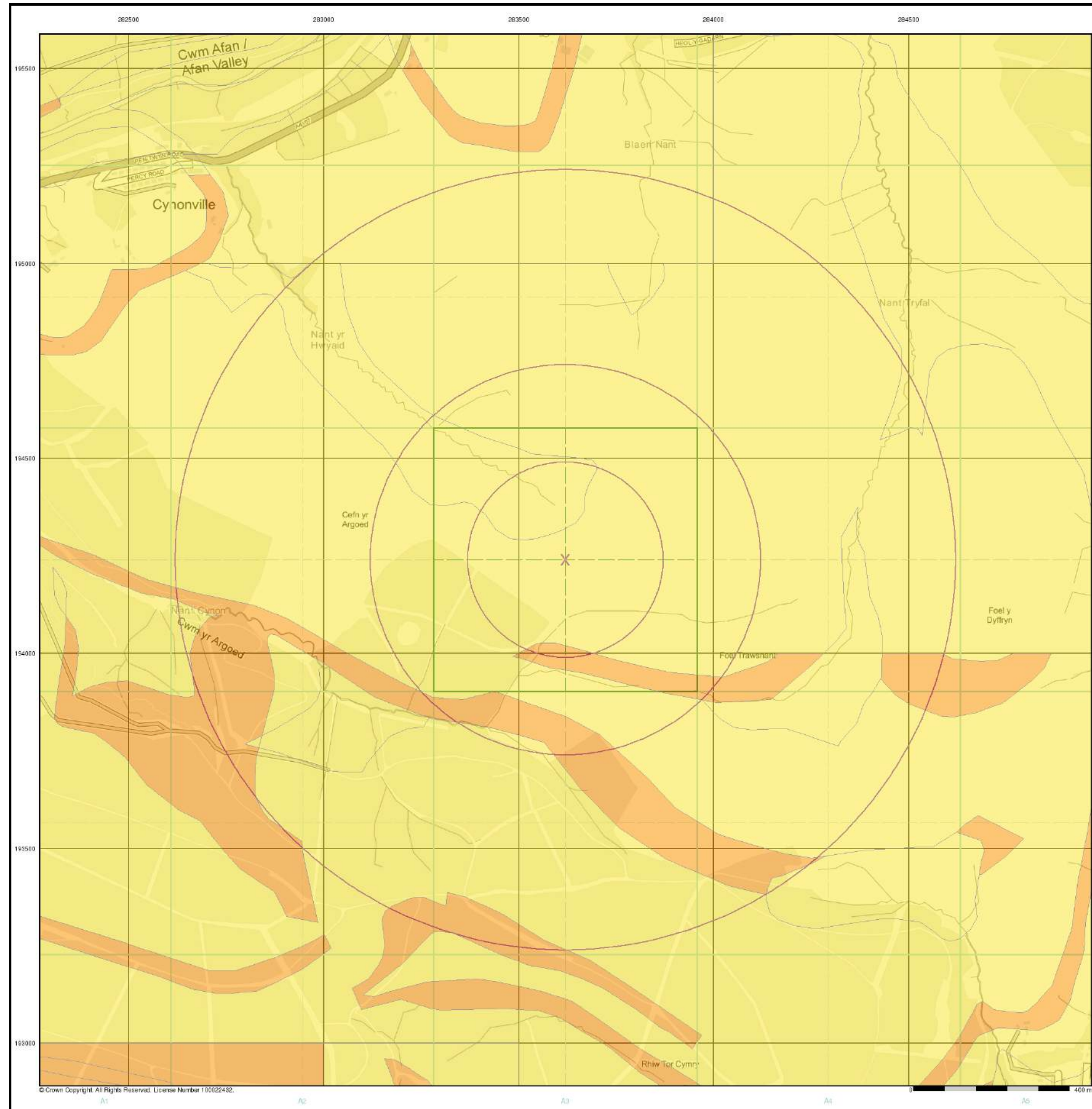


Order Details

Order Details: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



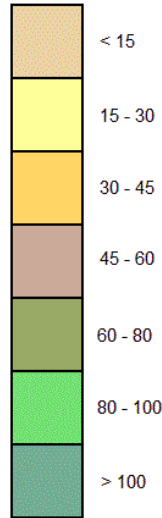
Intégral Géotechnique

General

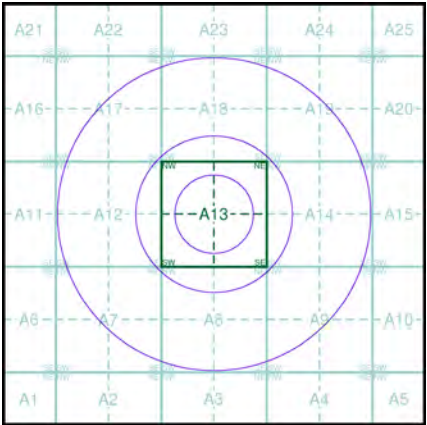
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

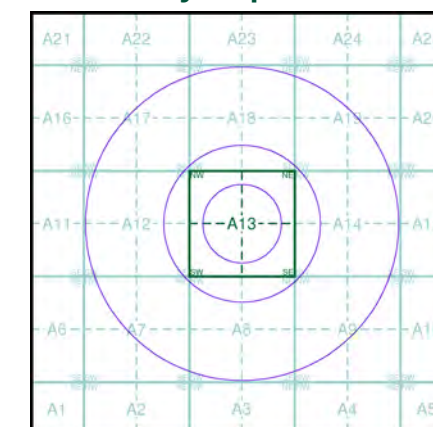
Foel Trawsnant Windfarm

Landmark
INFORMATION GROUP

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

Site Sensitivity Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm

Intégral Géotechnique

Industrial Land Use Map

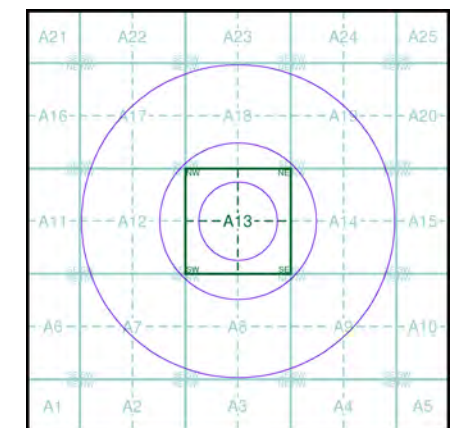
General

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

Industrial Land Use

-  Contemporary Trade Directory Entry
-  Fuel Station Entry
-  Gas Pipeline
-  Points of Interest - Commercial Services
-  Points of Interest - Education and Health
-  Points of Interest - Manufacturing and Production
-  Points of Interest - Public Infrastructure
-  Points of Interest - Recreational and Environmental
-  Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

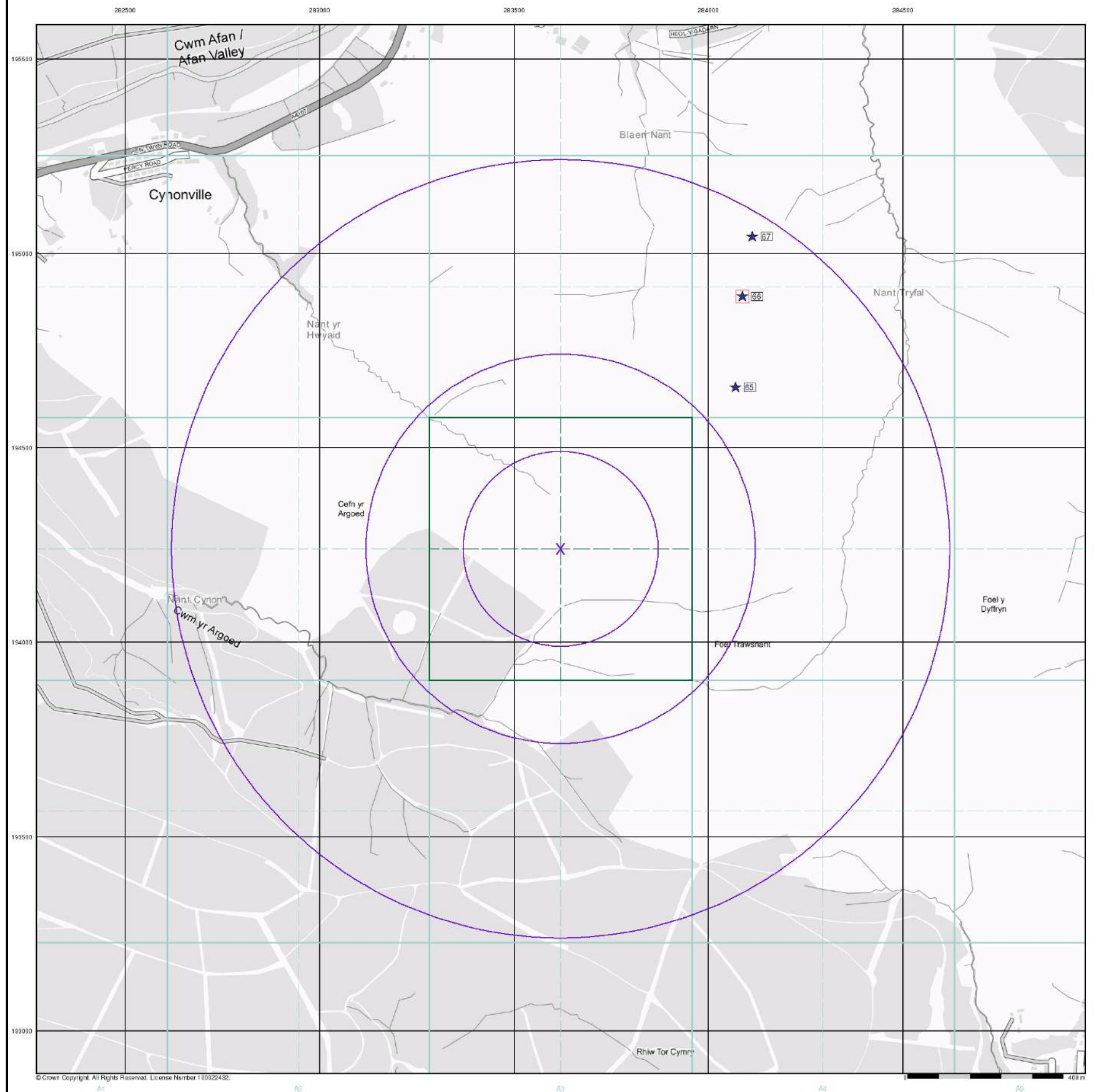
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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INFORMATION GROUP

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Web: www.envirocheck.co.uk



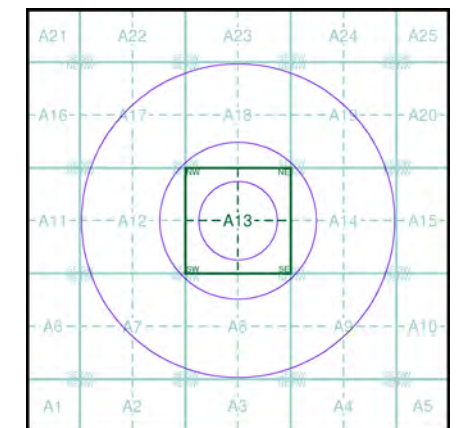
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

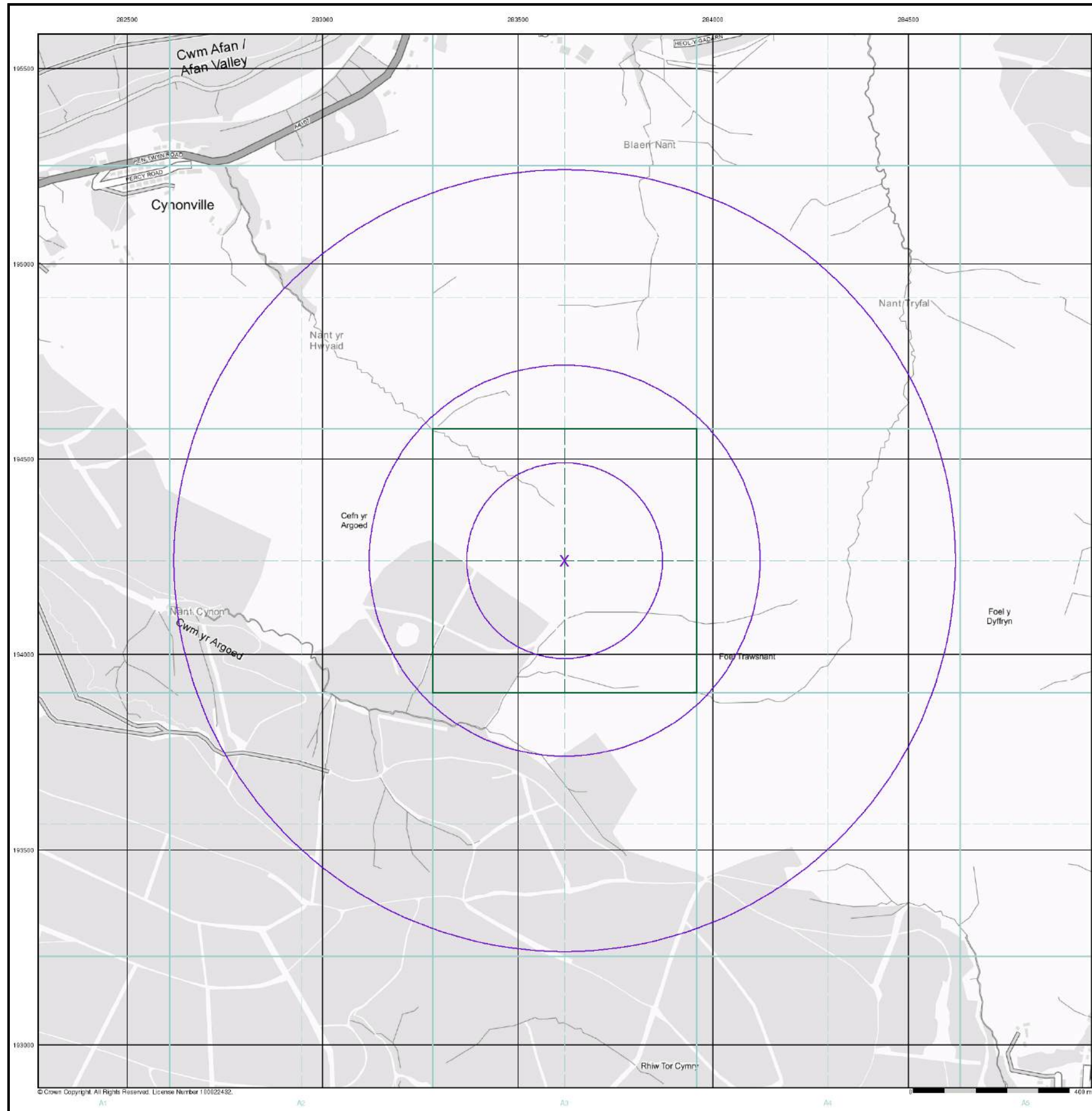


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



General

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

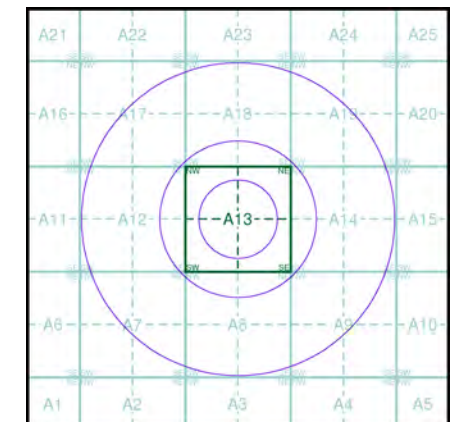
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

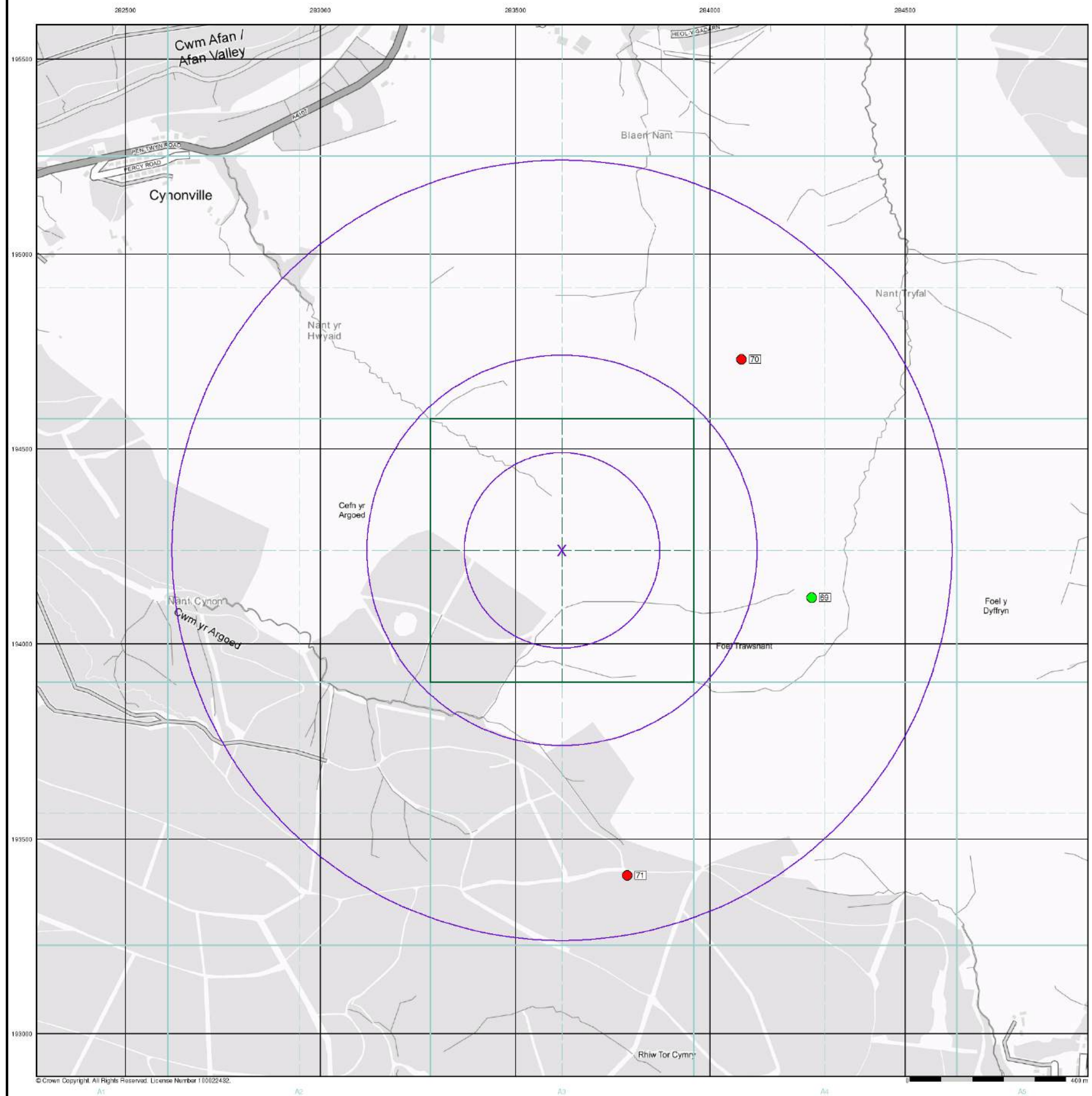


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



Intégral Géotechnique

General

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

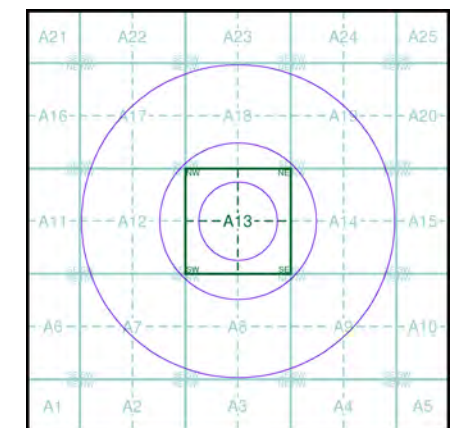
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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General

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

Risk of Flooding from Surface Water

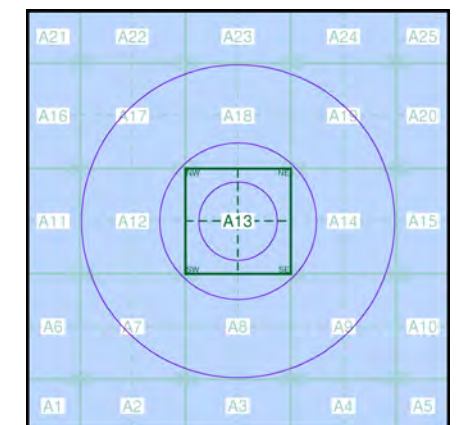
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EAN/RW Suitability Map - Slice A

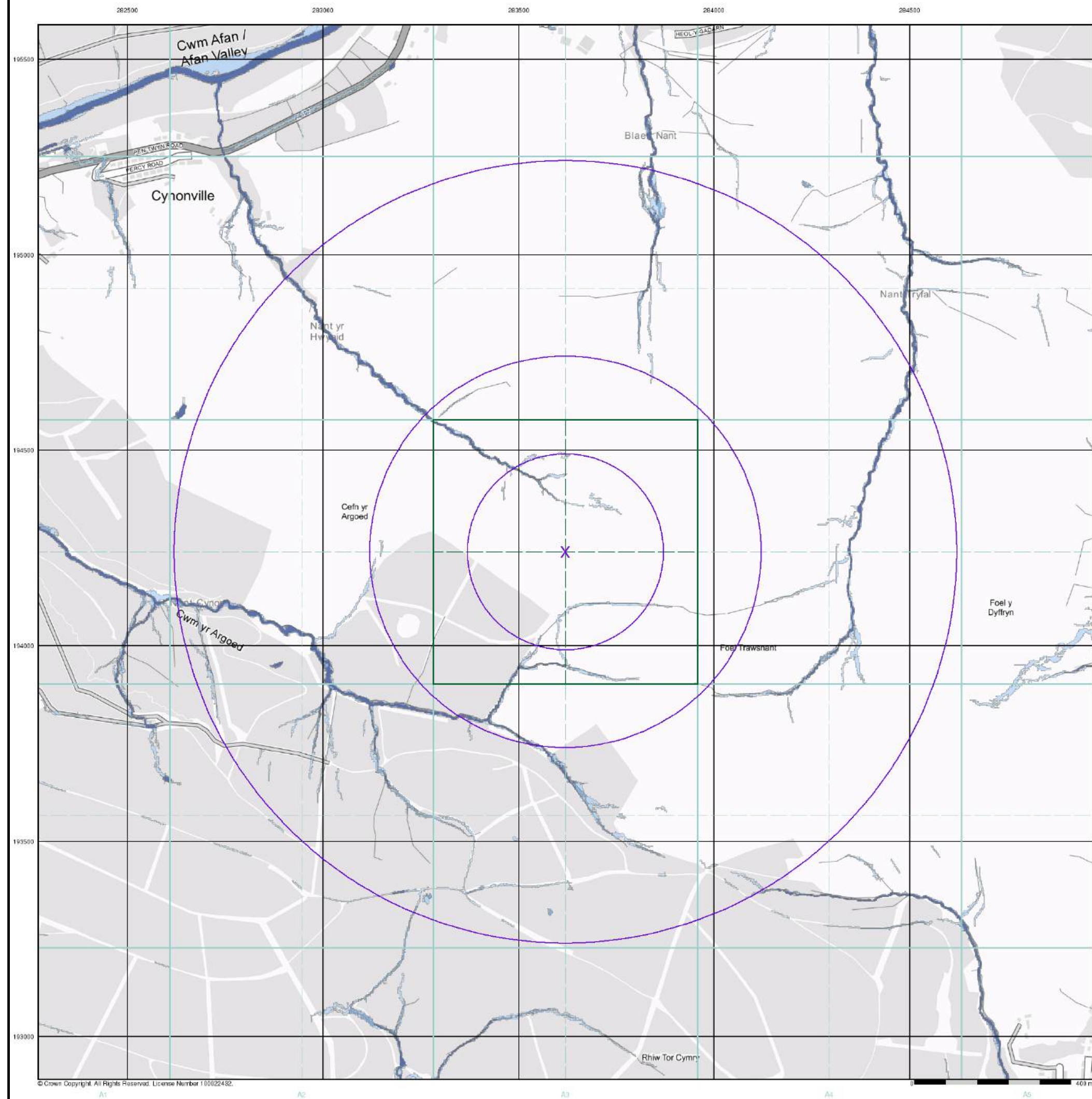


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	BD	Brithdir Member	Sandstone	Not Supplied - Westphalian
	BD	Brithdir Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Sandstone	Not Supplied - Westphalian
	LLFB	Llynfi Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	LLFB	Llynfi Member	Sandstone	Not Supplied - Westphalian
	SWUCM	South Wales Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		

Intégral Géotechnique

Geology 1:50,000 Maps

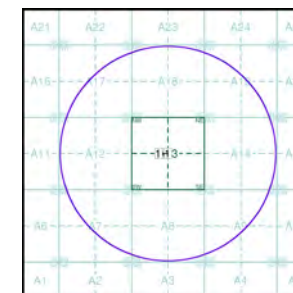
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	248
Map Name:	Pontypridd
Map Date:	1960
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

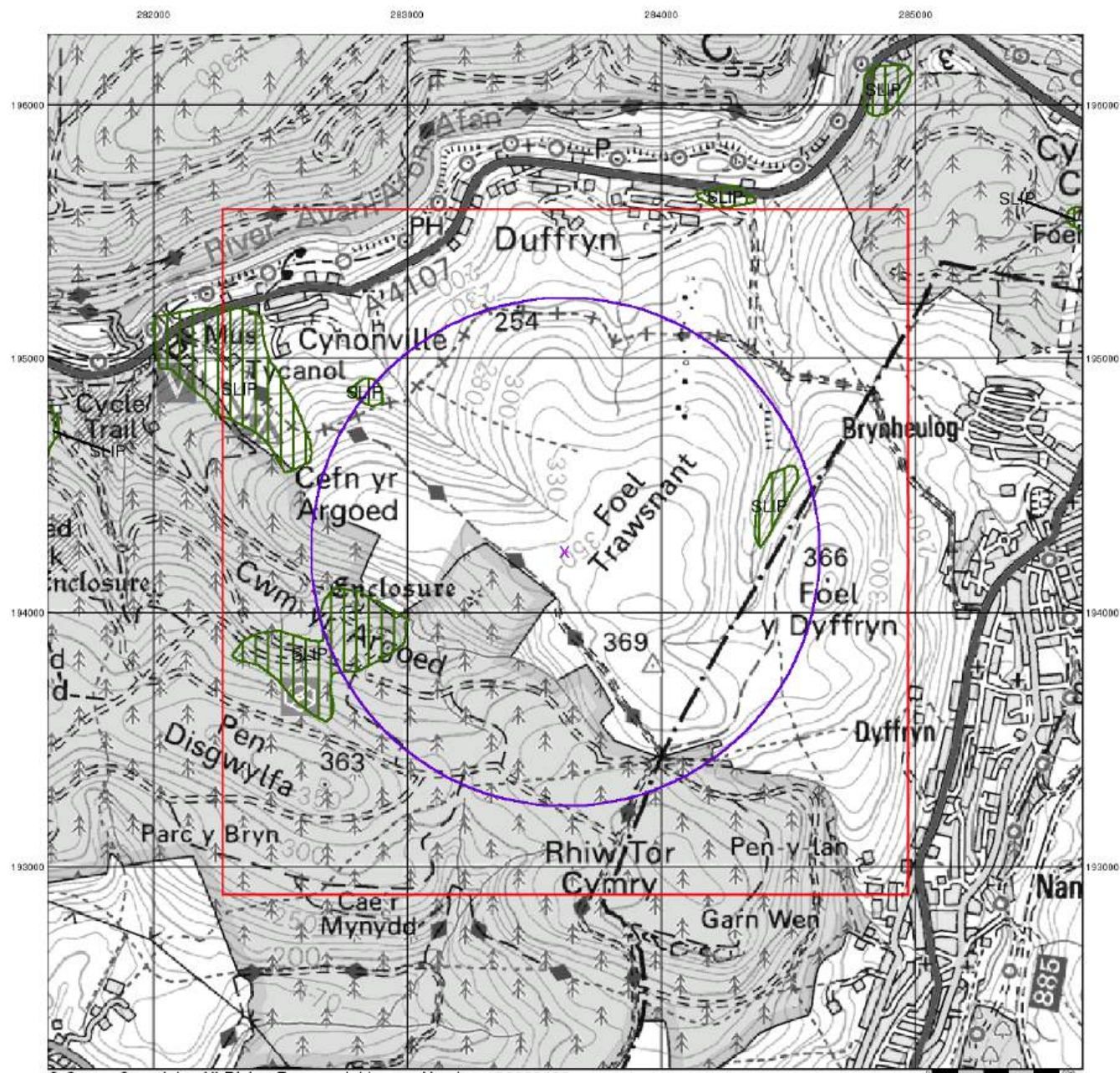


Order Details:

Order Number:	279012478_1_1
Customer Reference:	12826/RAH
National Grid Reference:	283620, 194240
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details:

Foel Trawsnant Windfarm



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Intégral Géotechnique

Artificial Ground and Landslip

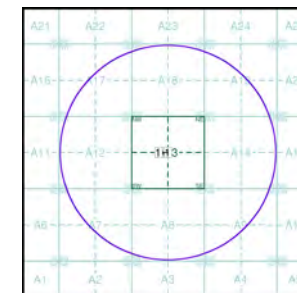
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

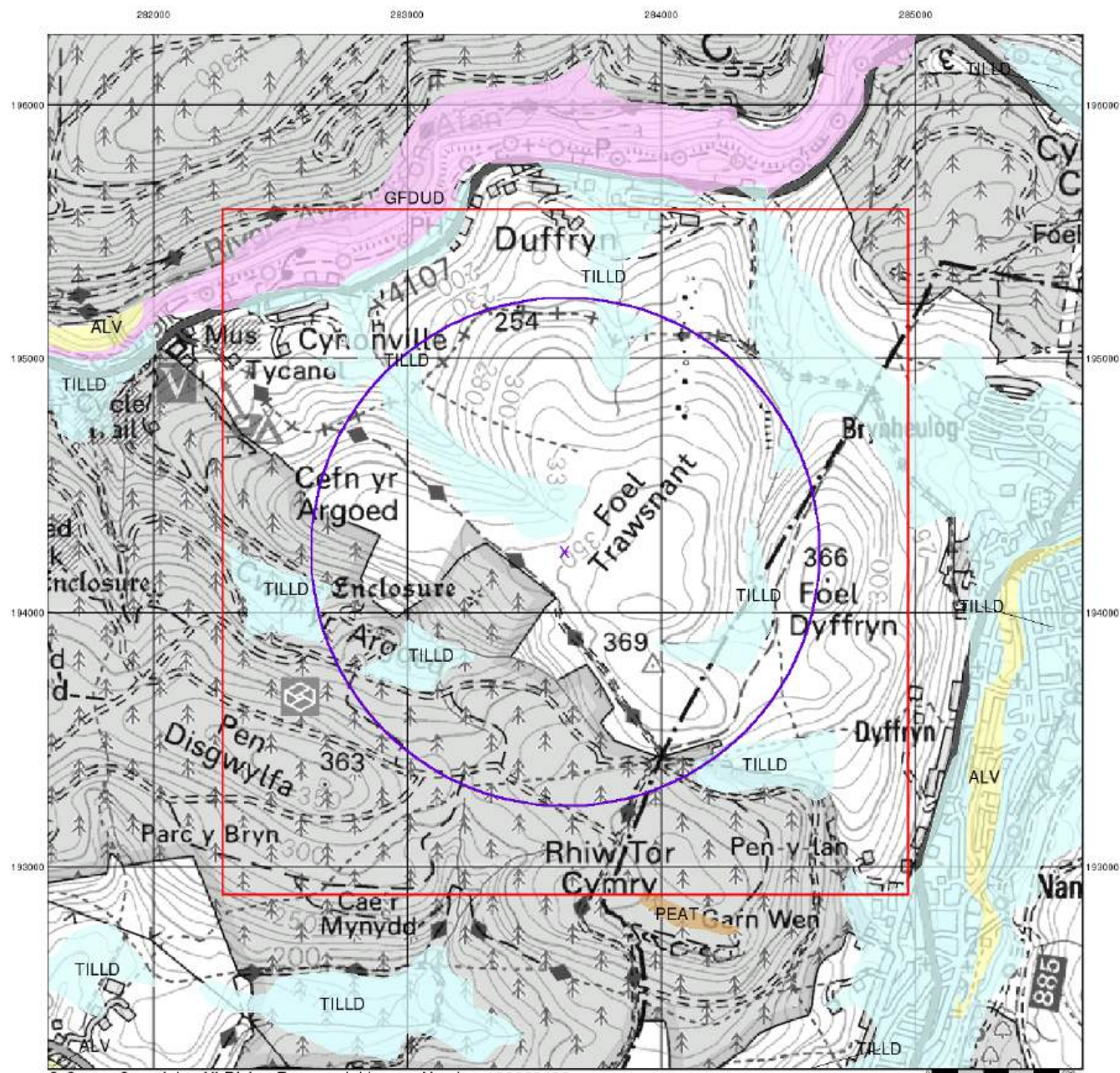
Order Number: 279012478_1_1
 Customer Reference: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details:

Foel Trawsnant Windfarm

Landmark
 INFORMATION GROUP

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Intégral Géotechnique

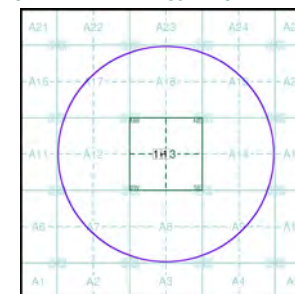
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

Order Number: 279012478_1_1
Customer Reference: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details:

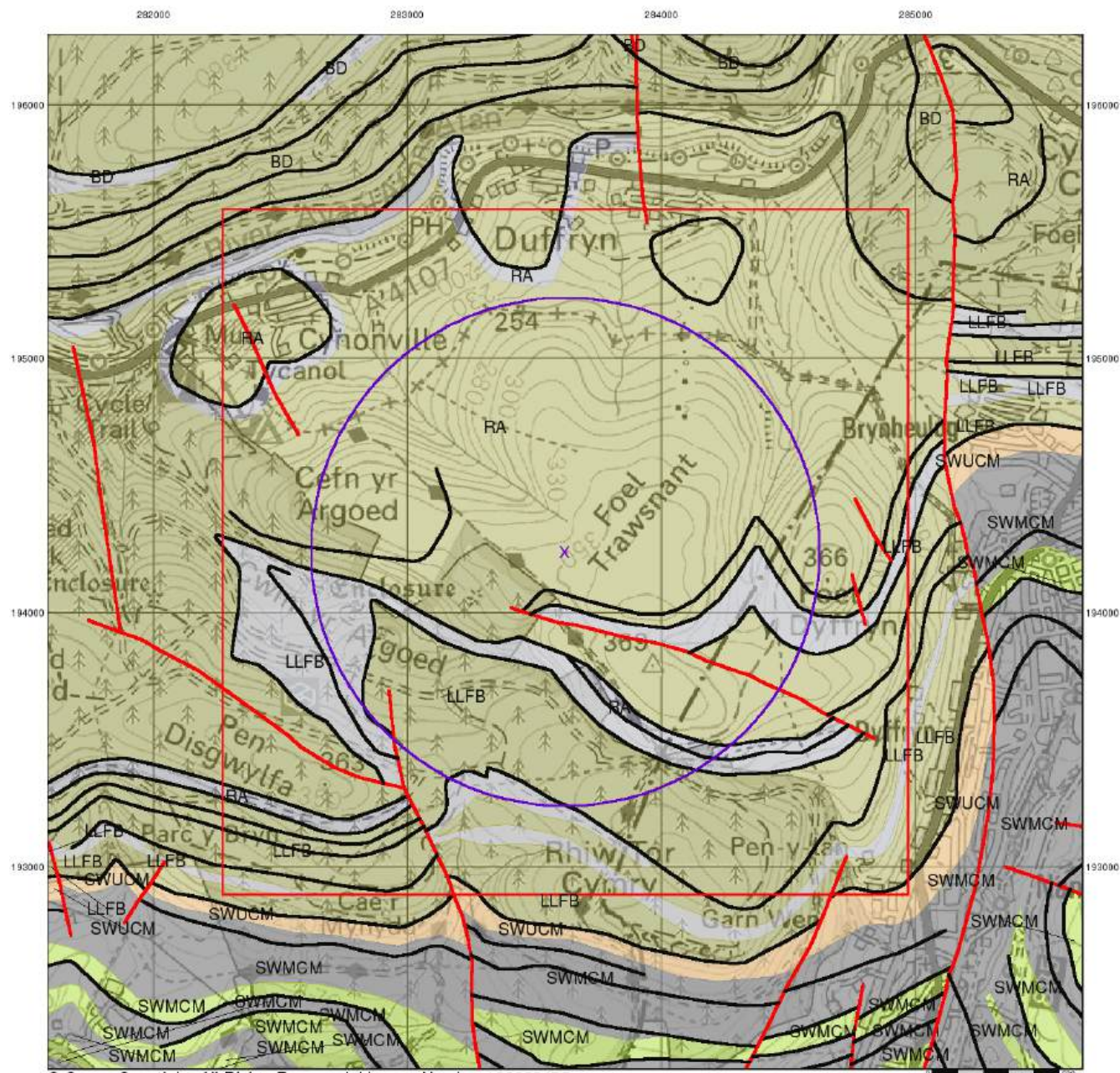
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v15.0 20-May-2021

Page 3 of 5



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Intégral Géotechnique

Bedrock and Faults

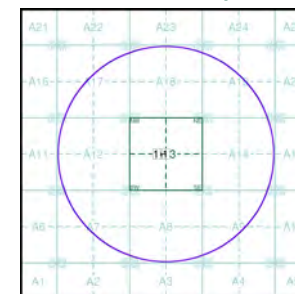
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

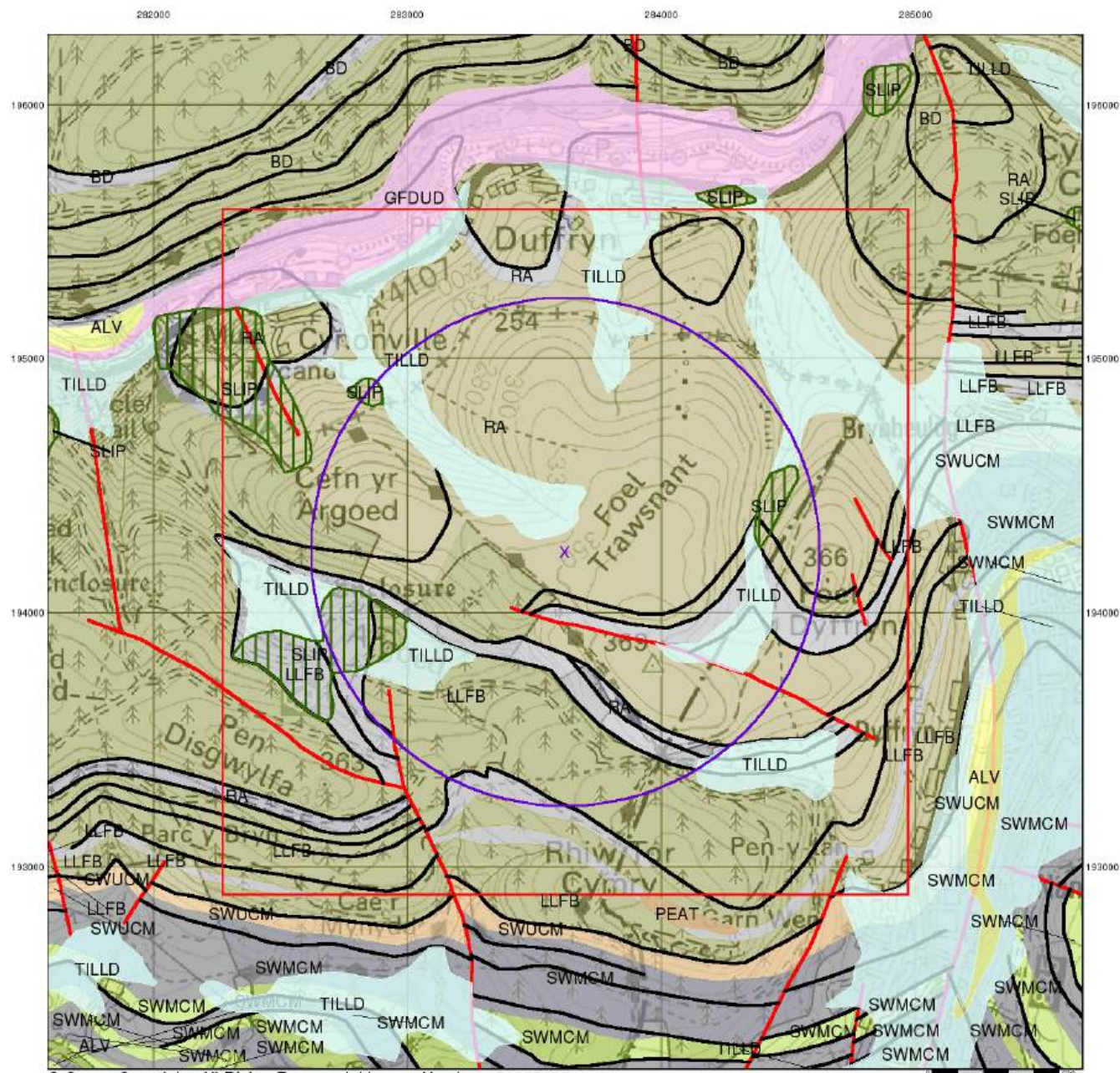
Order Number: 279012478_1_1
Customer Reference: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details:

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Intégral Géotechnique

Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

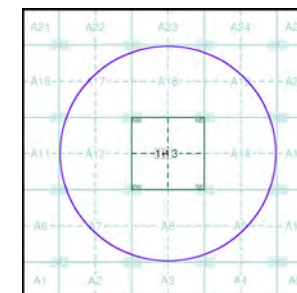
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 279012478_1_1
Customer Reference: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details:

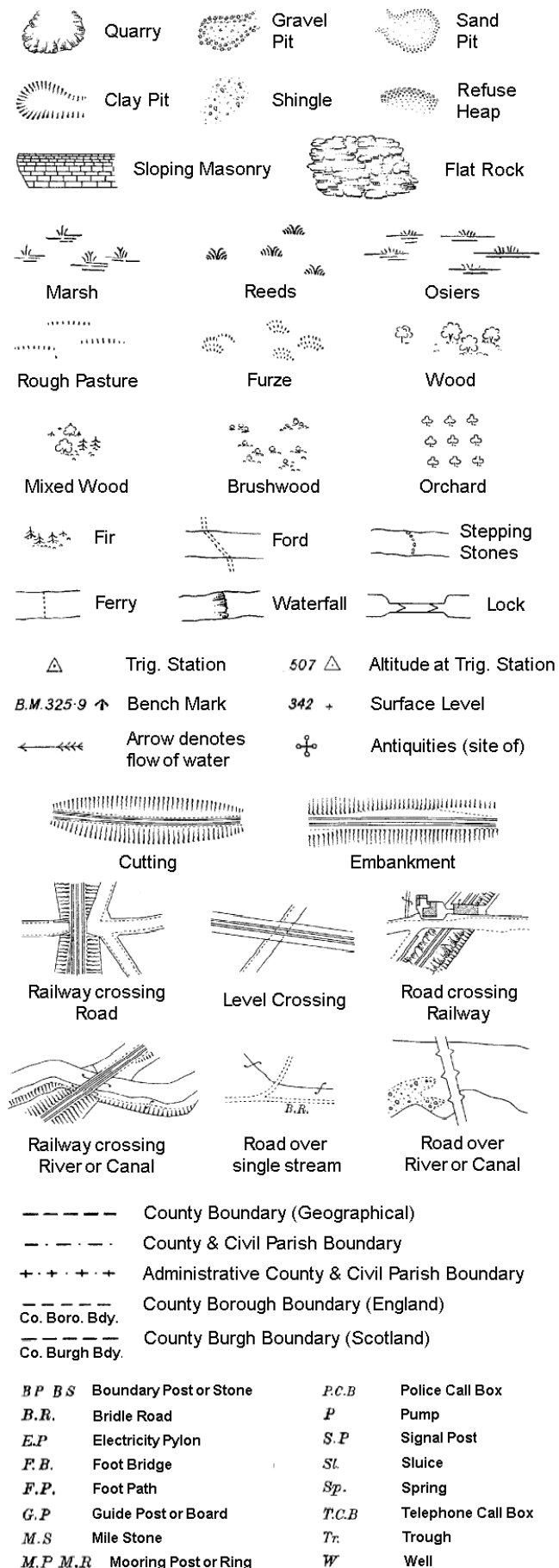
Foel Trawsnant Windfarm

Landmark
INFORMATION GROUP

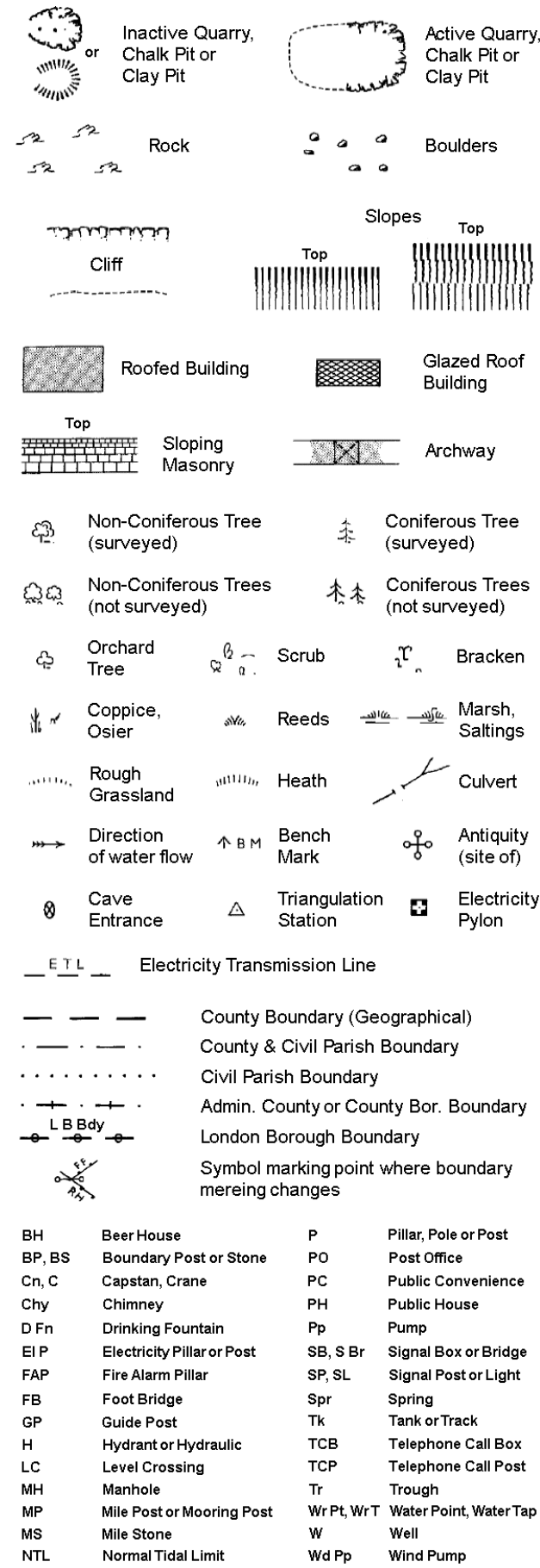
Tel: 0844 844 9952
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Historical Mapping Legends

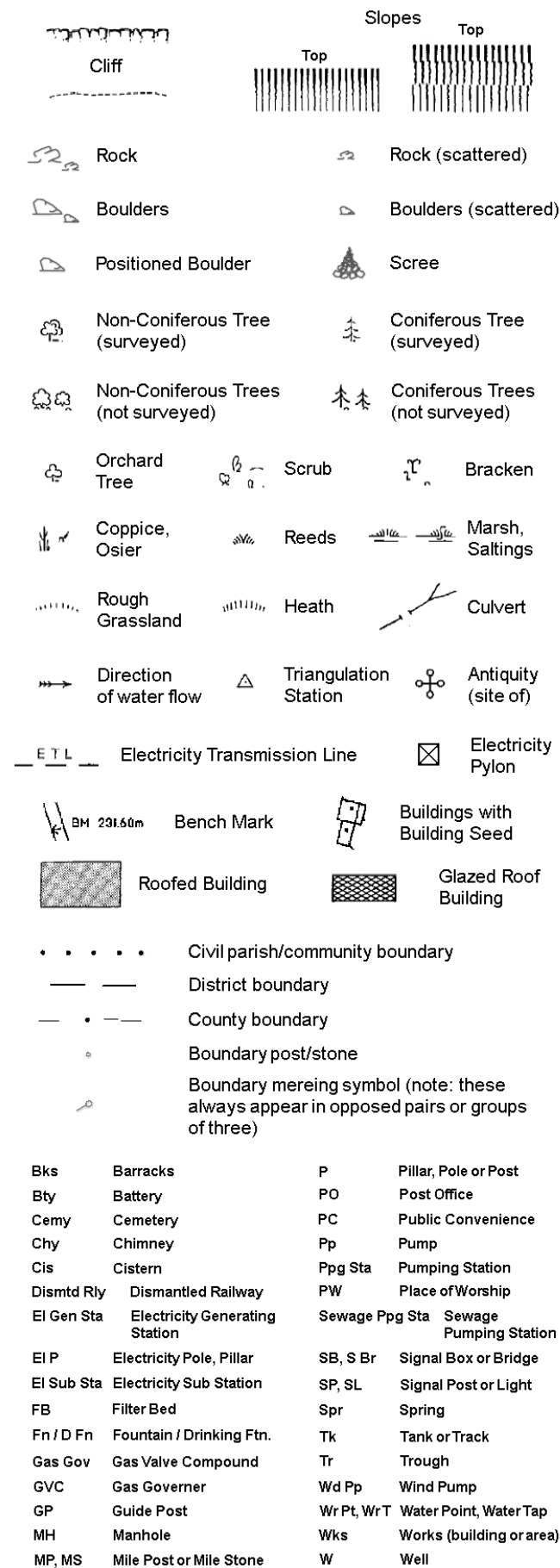
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

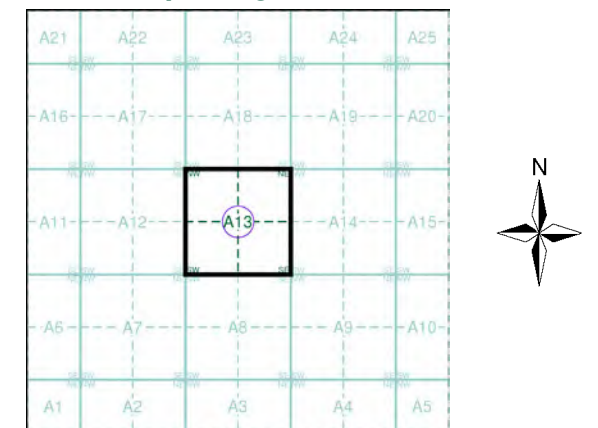


Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1877	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1918	4
Glamorganshire	1:2,500	1940	5
Ordnance Survey Plan	1:2,500	1962	6
Large-Scale National Grid Data	1:2,500	1993	7
Historical Aerial Photography	1:2,500	2000	8

Historical Map - Segment A13



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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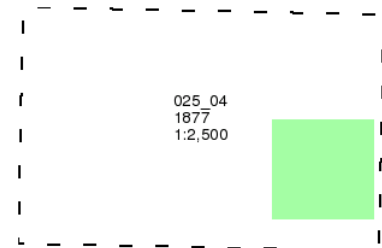
Glamorganshire

Published 1877

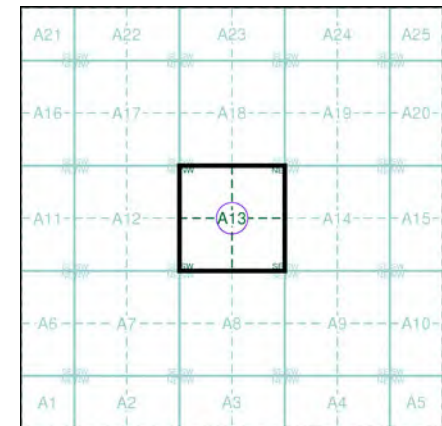
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

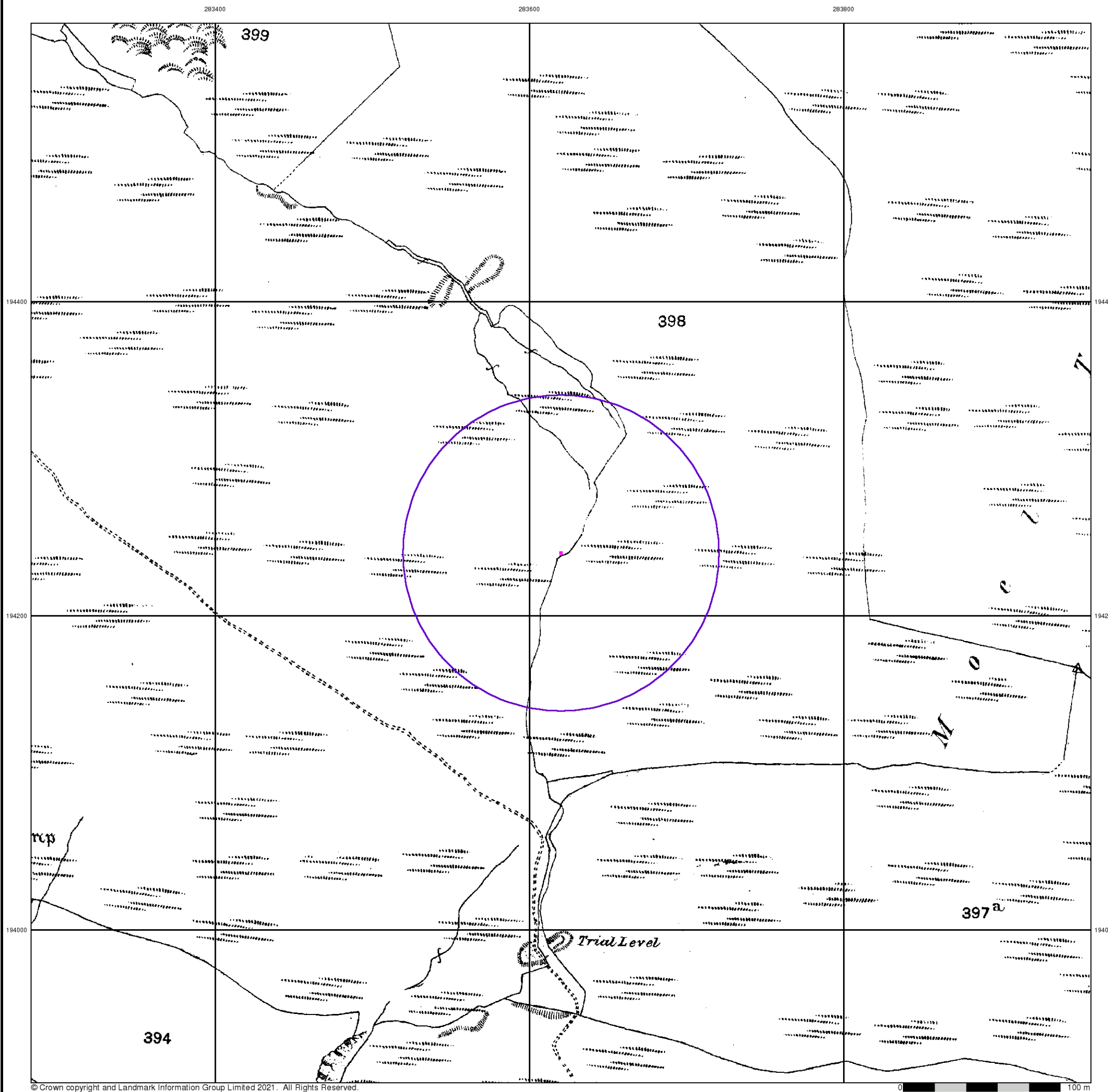
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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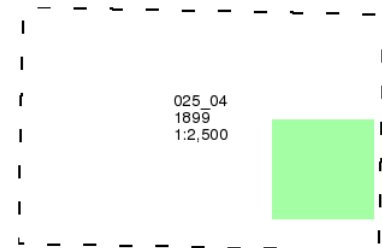
Glamorganshire

Published 1899

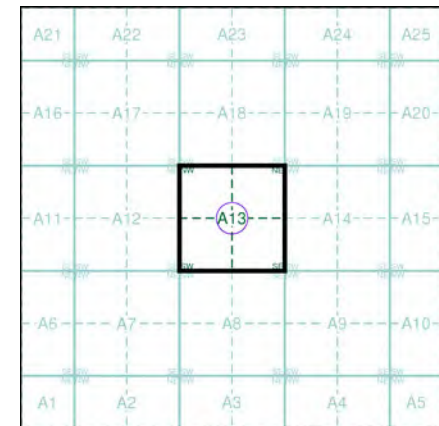
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

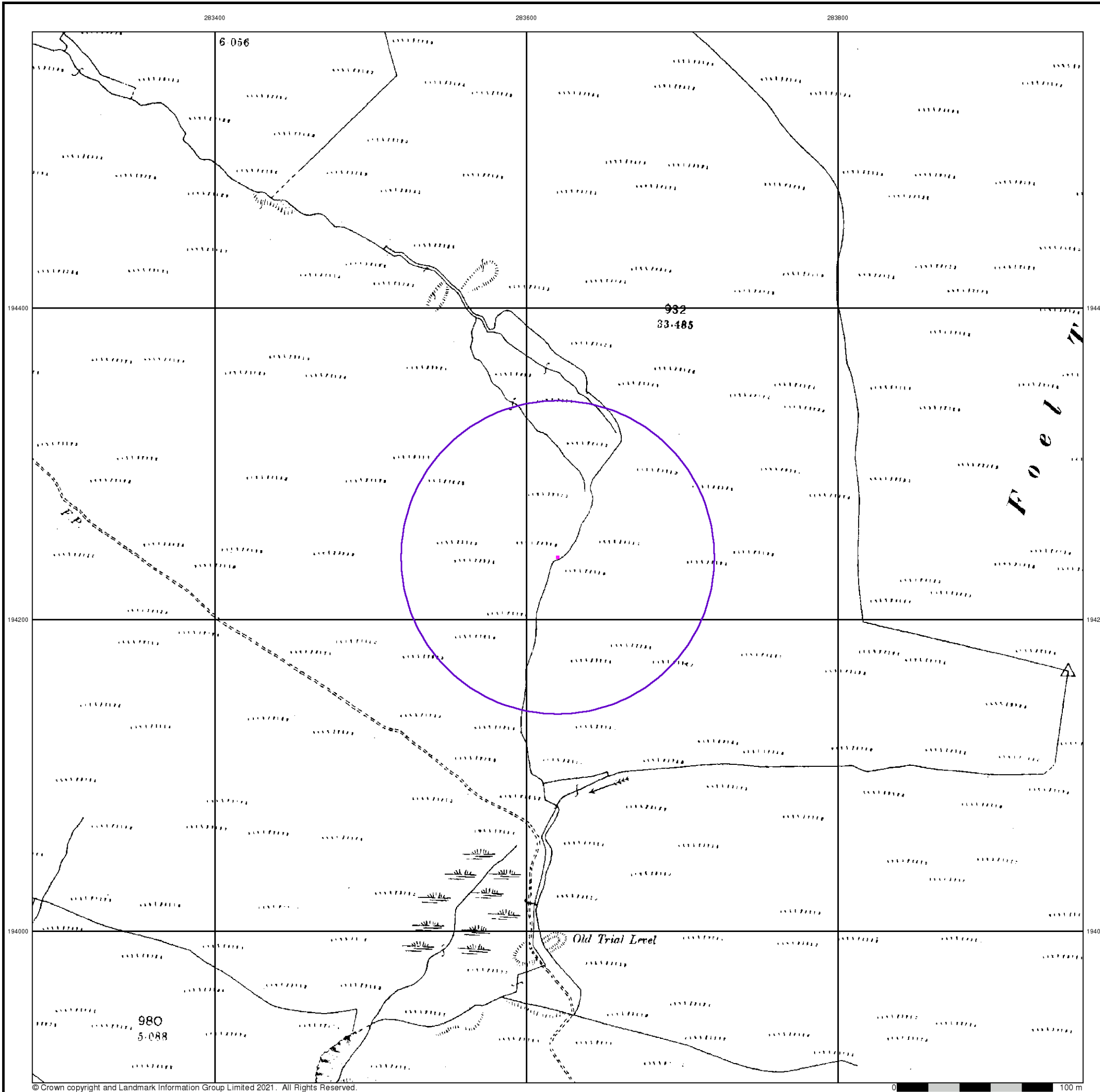
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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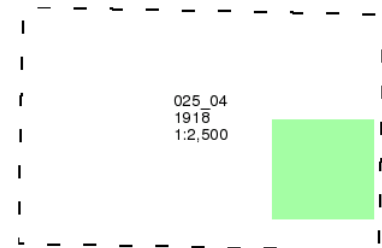
Glamorganshire

Published 1918

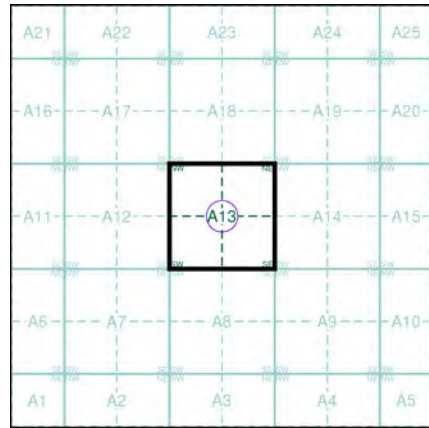
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

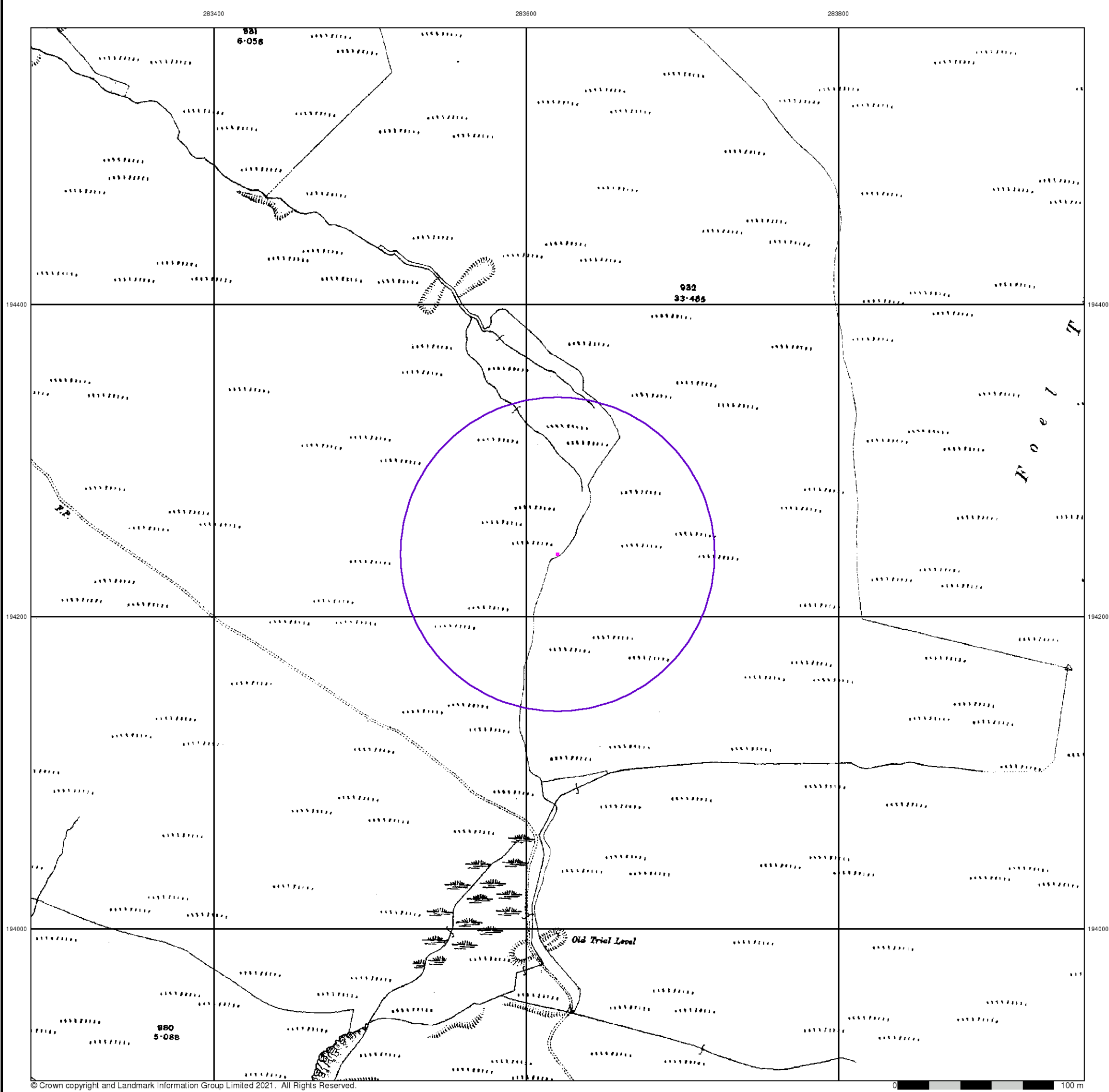
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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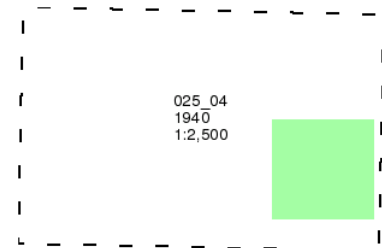
Glamorganshire

Published 1940

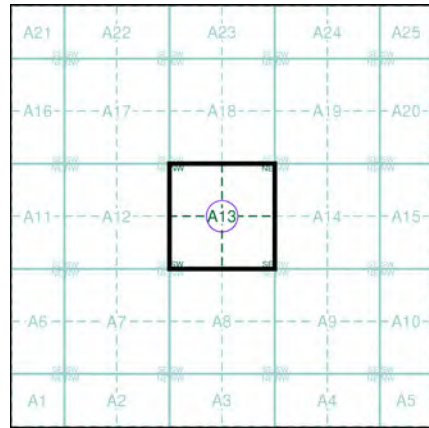
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

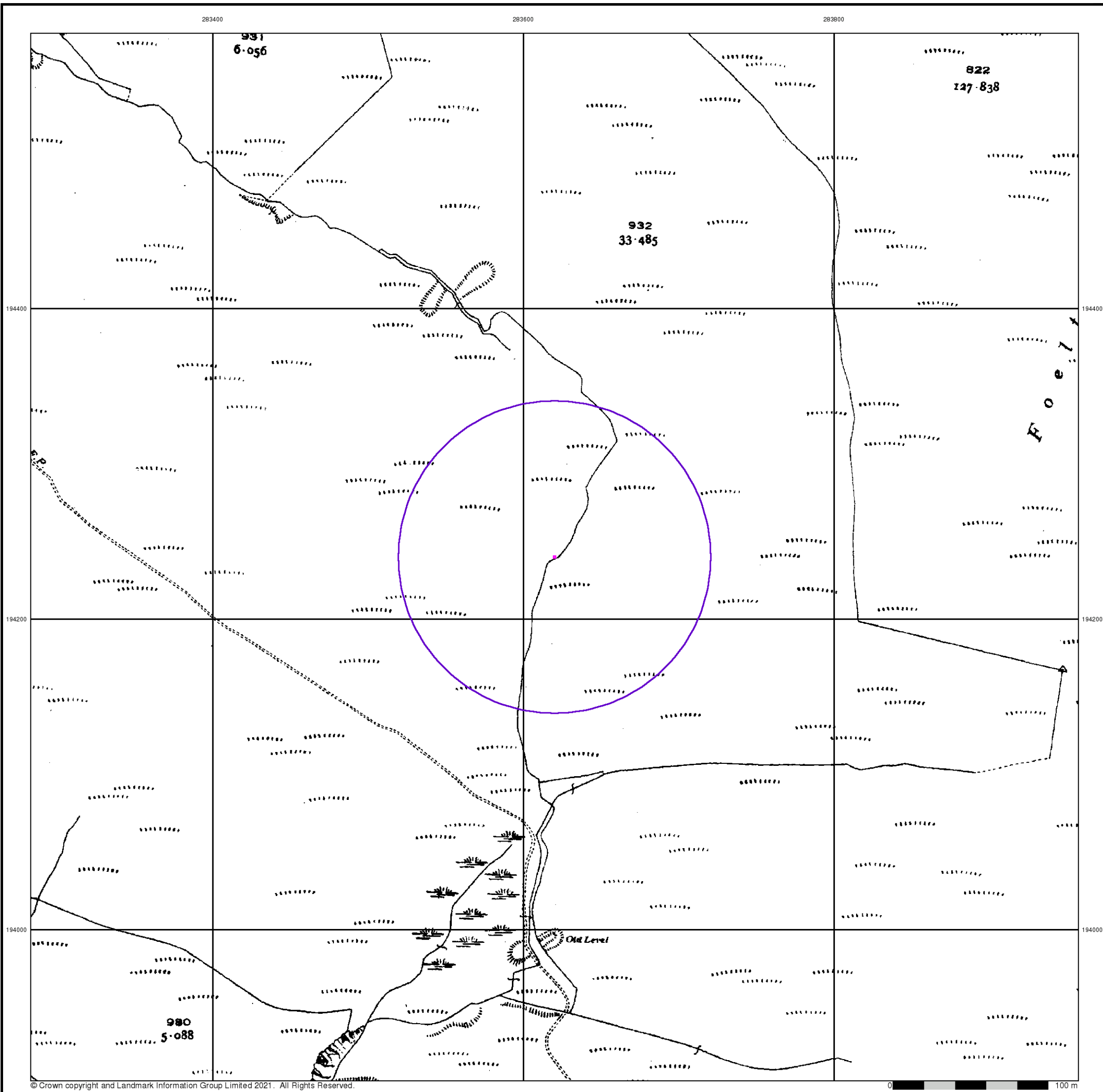
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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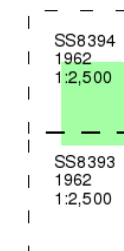
Ordnance Survey Plan

Published 1962

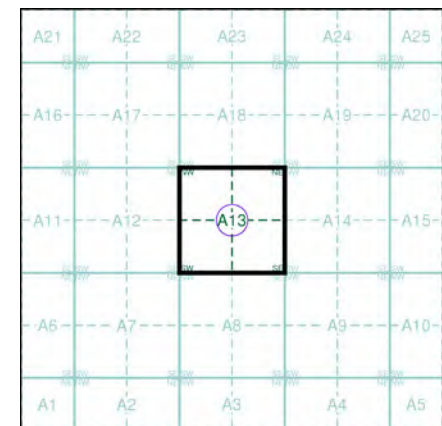
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

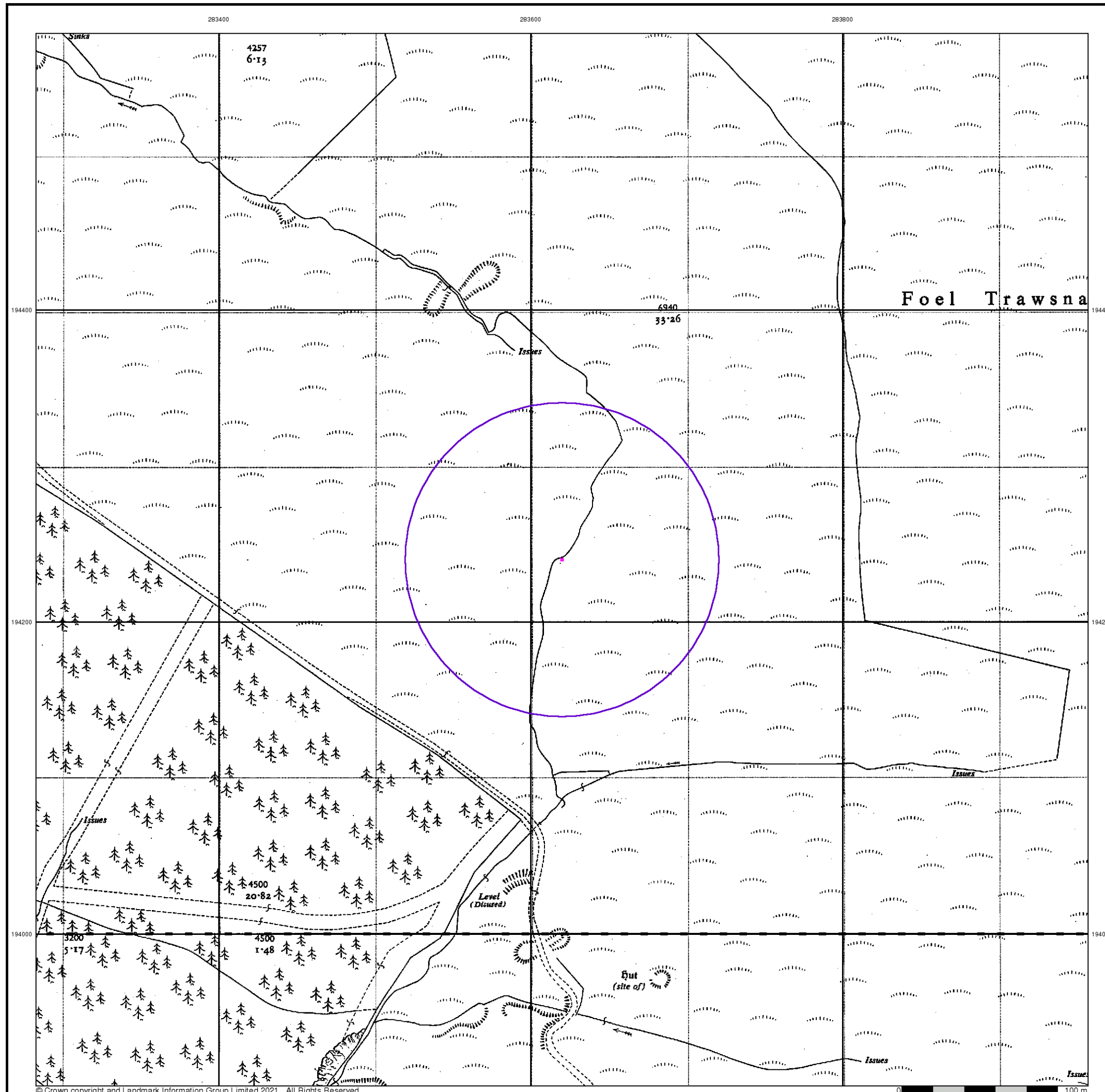
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

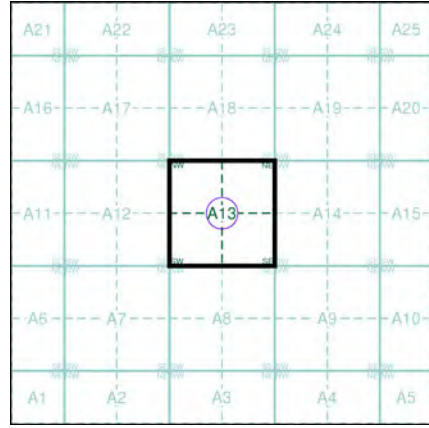
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

SS8394
1993
1:2,500

SS8393
1993
1:2,500

Historical Map - Segment A13



Order Details

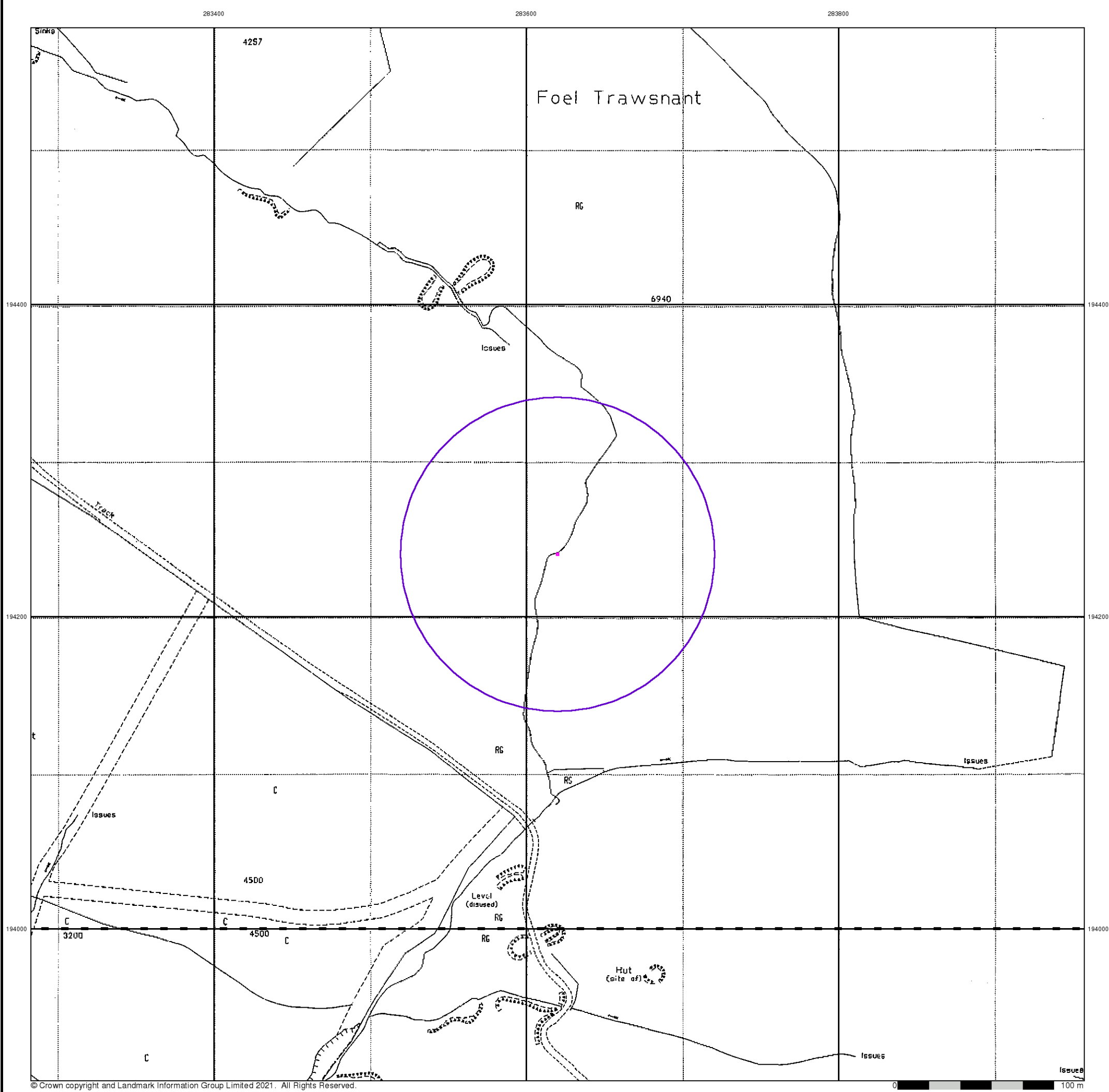
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Site Area (Ha): 0.01
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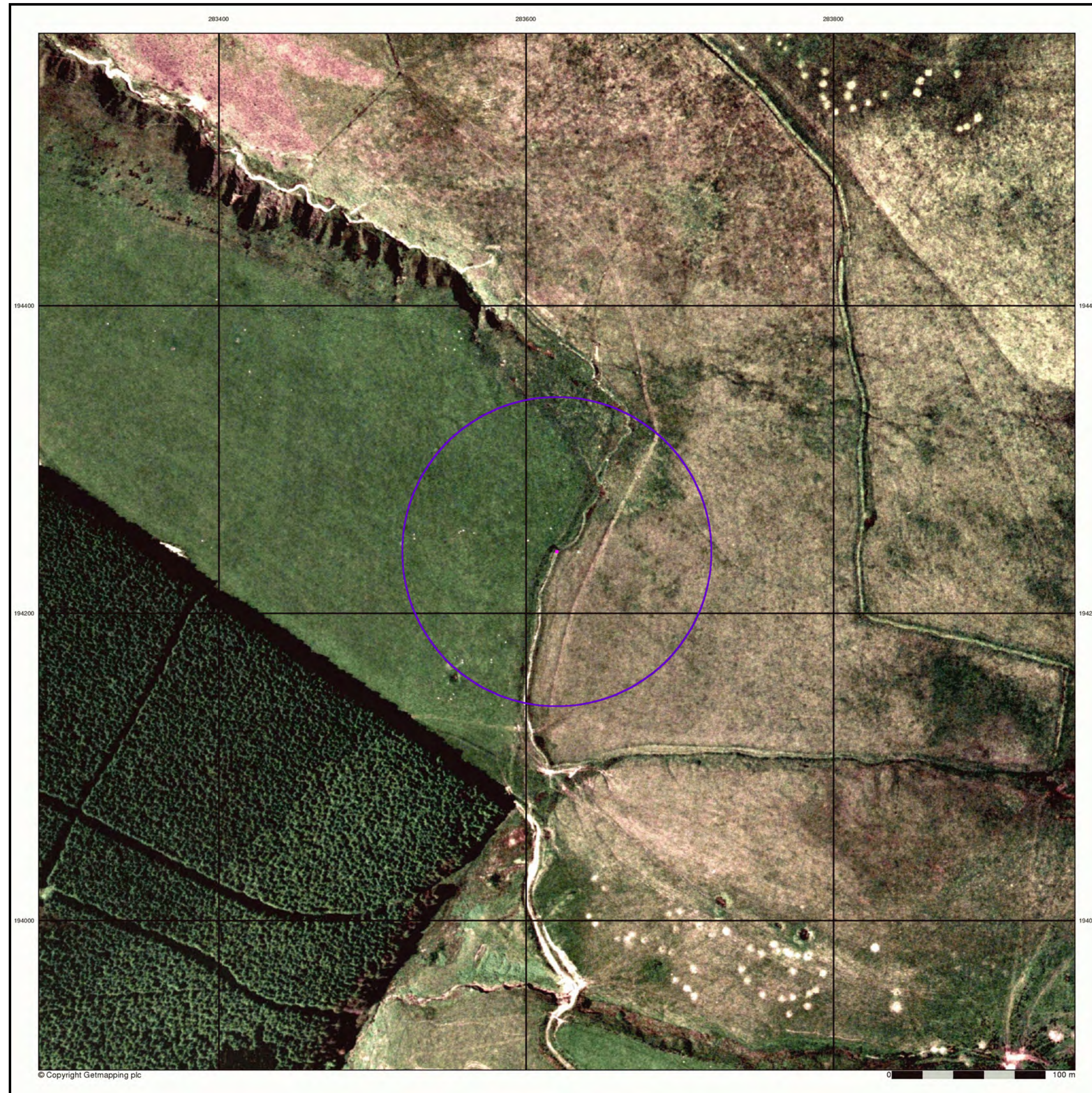
Site Details

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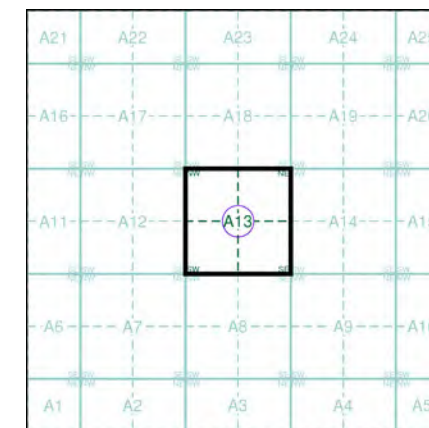


Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

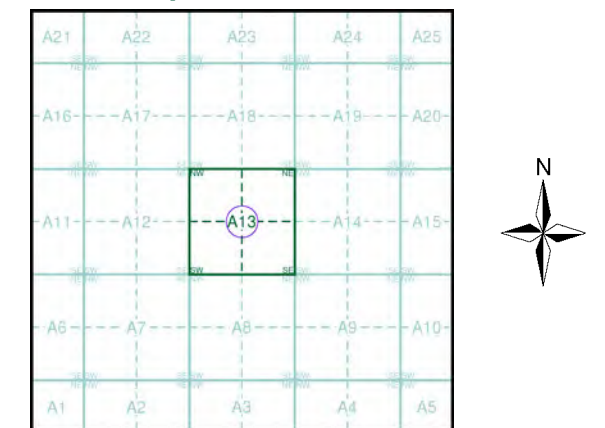
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1938 - 1951	5
Historical Aerial Photography	1:10,560	1949	6
Glamorganshire	1:10,560	1953	7
Ordnance Survey Plan	1:10,000	1964	8
Ordnance Survey Plan	1:10,000	1988	9
Ordnance Survey Plan	1:10,000	1990	10
10K Raster Mapping	1:10,000	1999	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2021	13

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsant Windfarm

Landmark
INFORMATION GROUP

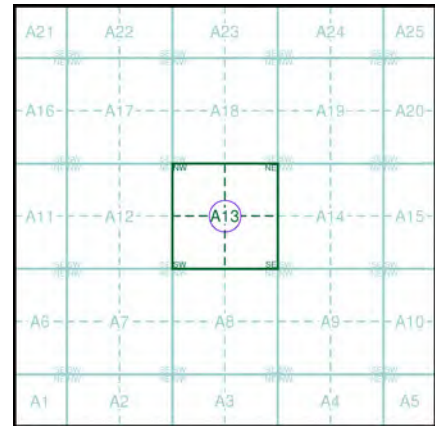
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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

Map Name(s) and Date(s)

01600 1884 1:10,560	01700 1884 1:10,560
02500 1884 1:10,560	02600 1884 1:10,560

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

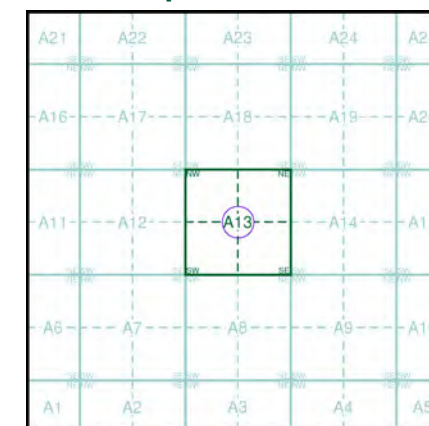
Foel Trawsant Windfarm

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

Map Name(s) and Date(s)

016SE 1900 1:10,560	017SW 1900 1:10,560
025NE 1900 1:10,560	026NW 1900 1:10,560

Historical Map - Slice A

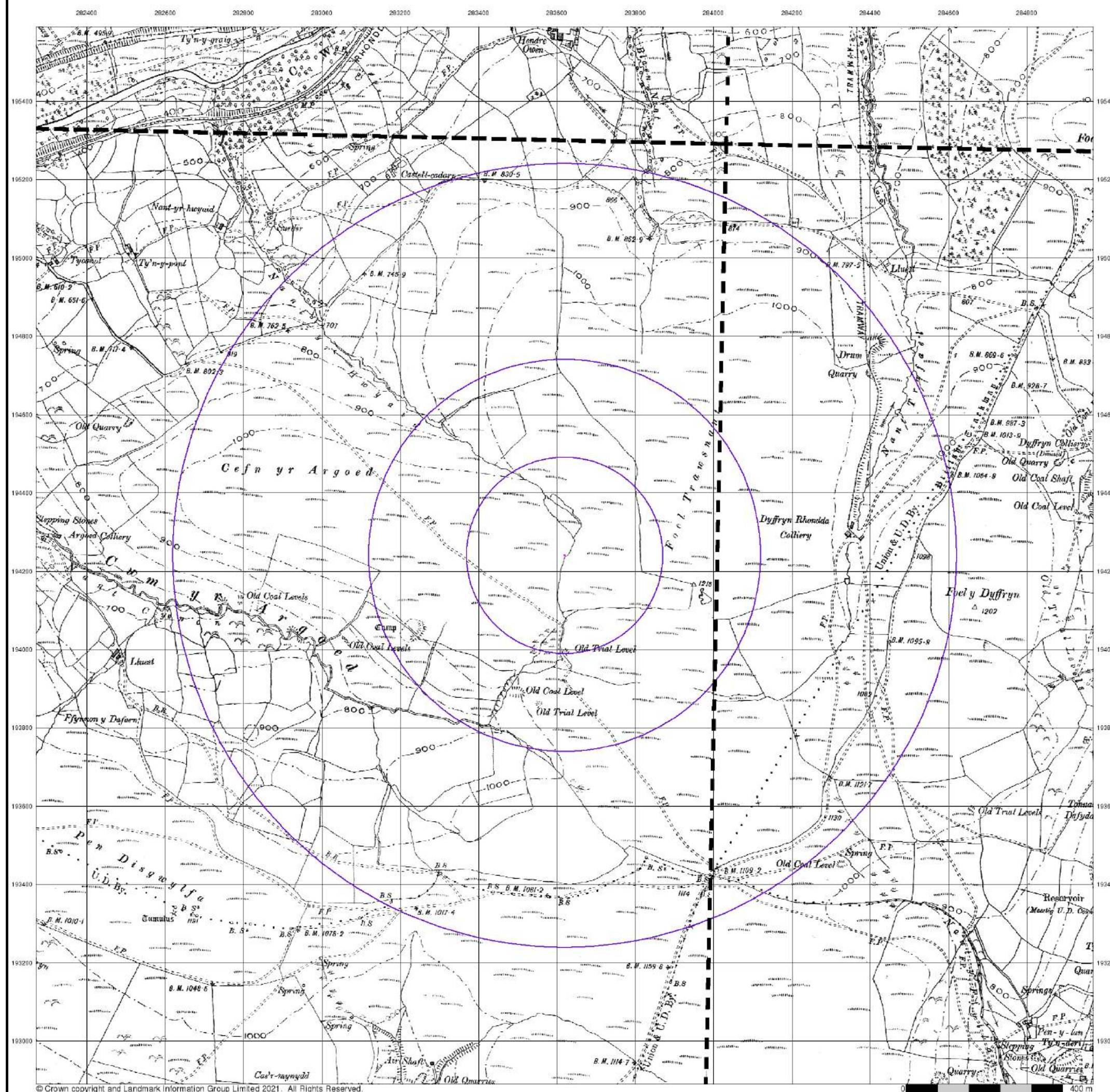


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsant Windfarm

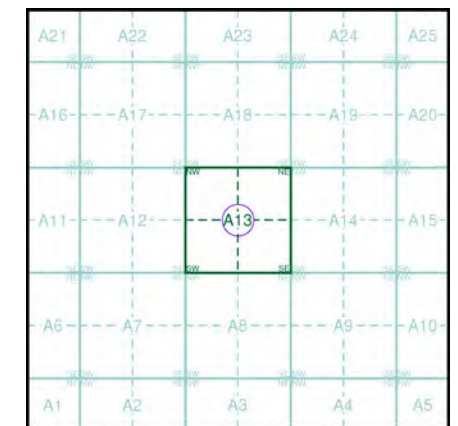


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

016SE 1921 1:10,560	017SW 1921 1:10,560
025NE 1921 1:10,560	026NW 1921 1:10,560

Historical Map - Slice A

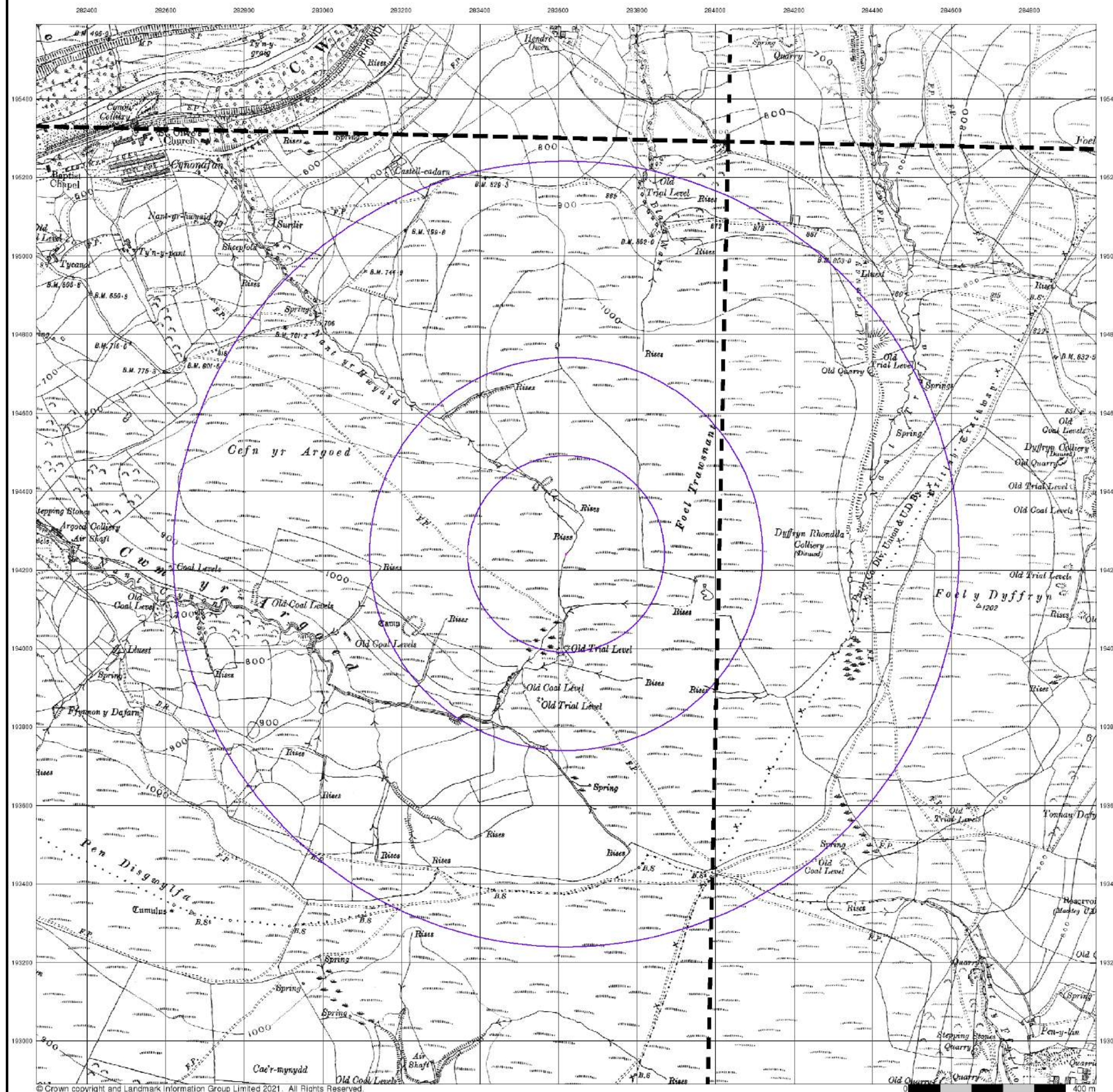


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Glamorganshire

Published 1938 - 1951

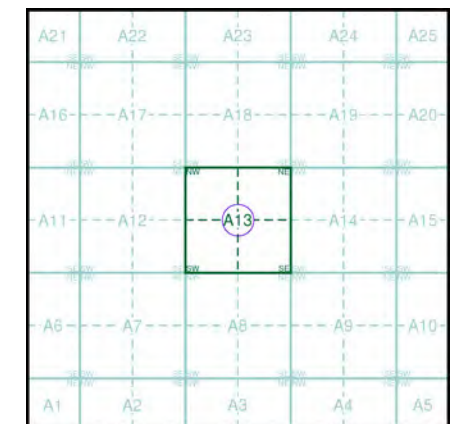
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

016SE 1951 1:10,560	017SW 1938 1:10,560
025NE 1951 1:10,560	026NW 1947 1:10,560

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Historical Aerial Photography

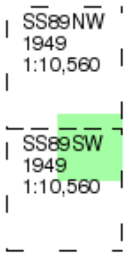
Published 1949

Source map scale - 1:10,560

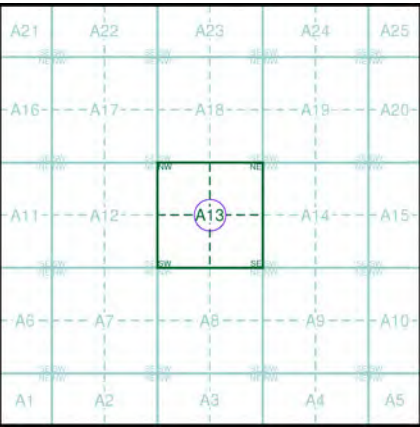
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the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

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

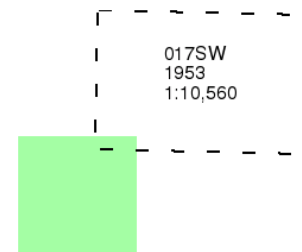
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

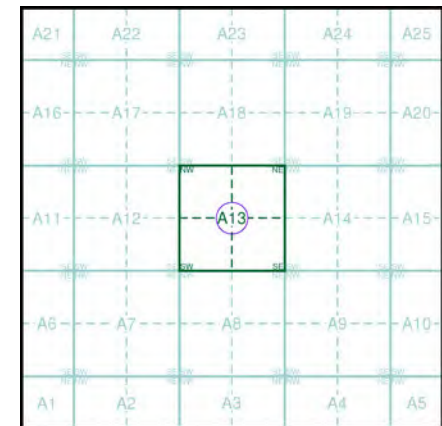
Foel Trawsnant Windfarm

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1964

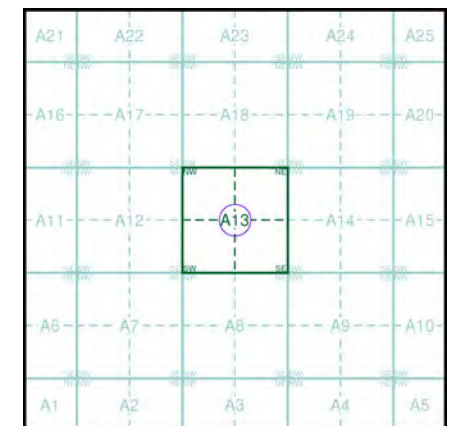
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS89NW	1964
SS89SW	1964

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1988

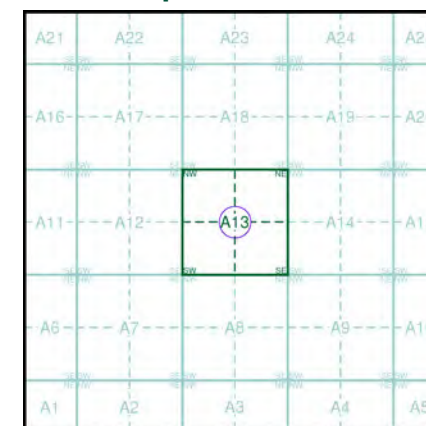
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS89NW	1988	1:10,000
SS89SW	1988	1:10,000

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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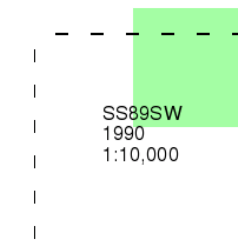
Ordnance Survey Plan

Published 1990

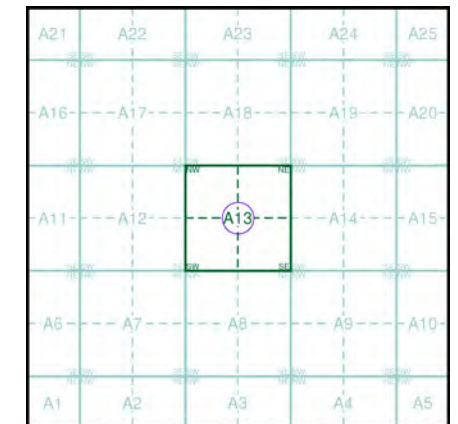
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm

10k Raster Mapping

Published 1999

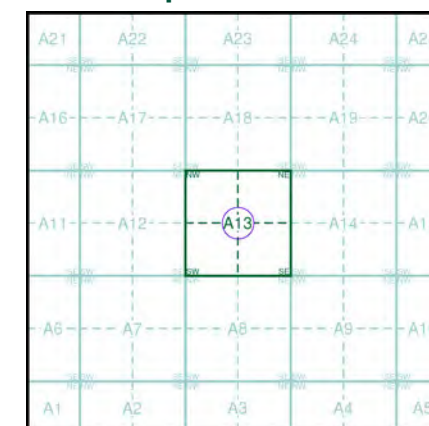
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS89NW	1999	1:10,000
SS89SW	1999	1:10,000

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm

10k Raster Mapping

Published 2006

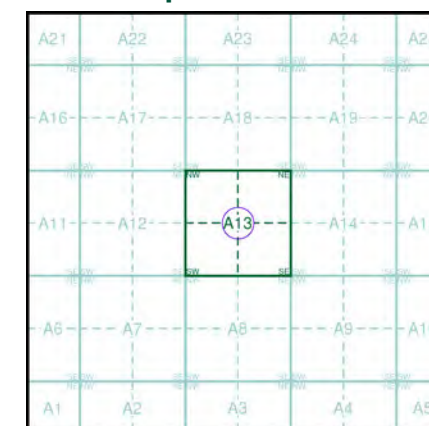
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS89NW	2006	1:10,000
SS89SW	2006	1:10,000

Historical Map - Slice A



Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



VectorMap Local

Published 2021

Source map scale - 1:10,000

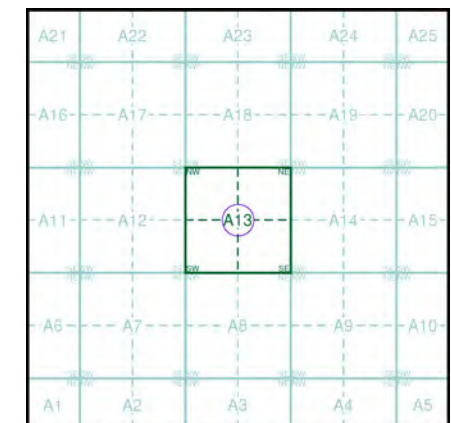
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SS89NW
2021
Variable

SS89SW	2021	Variable
--------	------	----------

Historical Map - Slice A



Order Details

Order Number:	279012478_1_1
Customer Ref:	12826/RAH
National Grid Reference:	283620, 194240
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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Landmark
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Historical Land Use Information (1:10,000)

General

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

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts			
Disturbed Ground			
General Quarrying			
Heap, unknown constituents			
Mineral Railway			
Mining and Quarrying General			
Mining of Coal & Lignite			
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits			

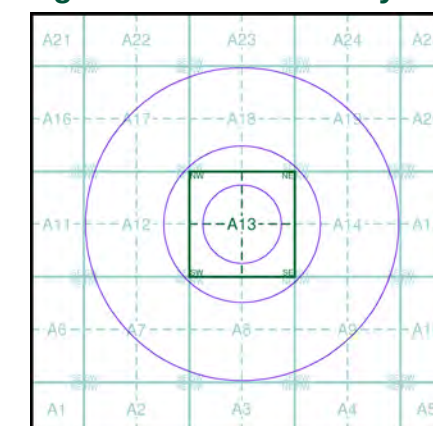
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)			
Former Marsh			

Mining Data

- Potential Mining Area
 BGS Recorded Mineral Site

Mining and Ground Stability - Slice A

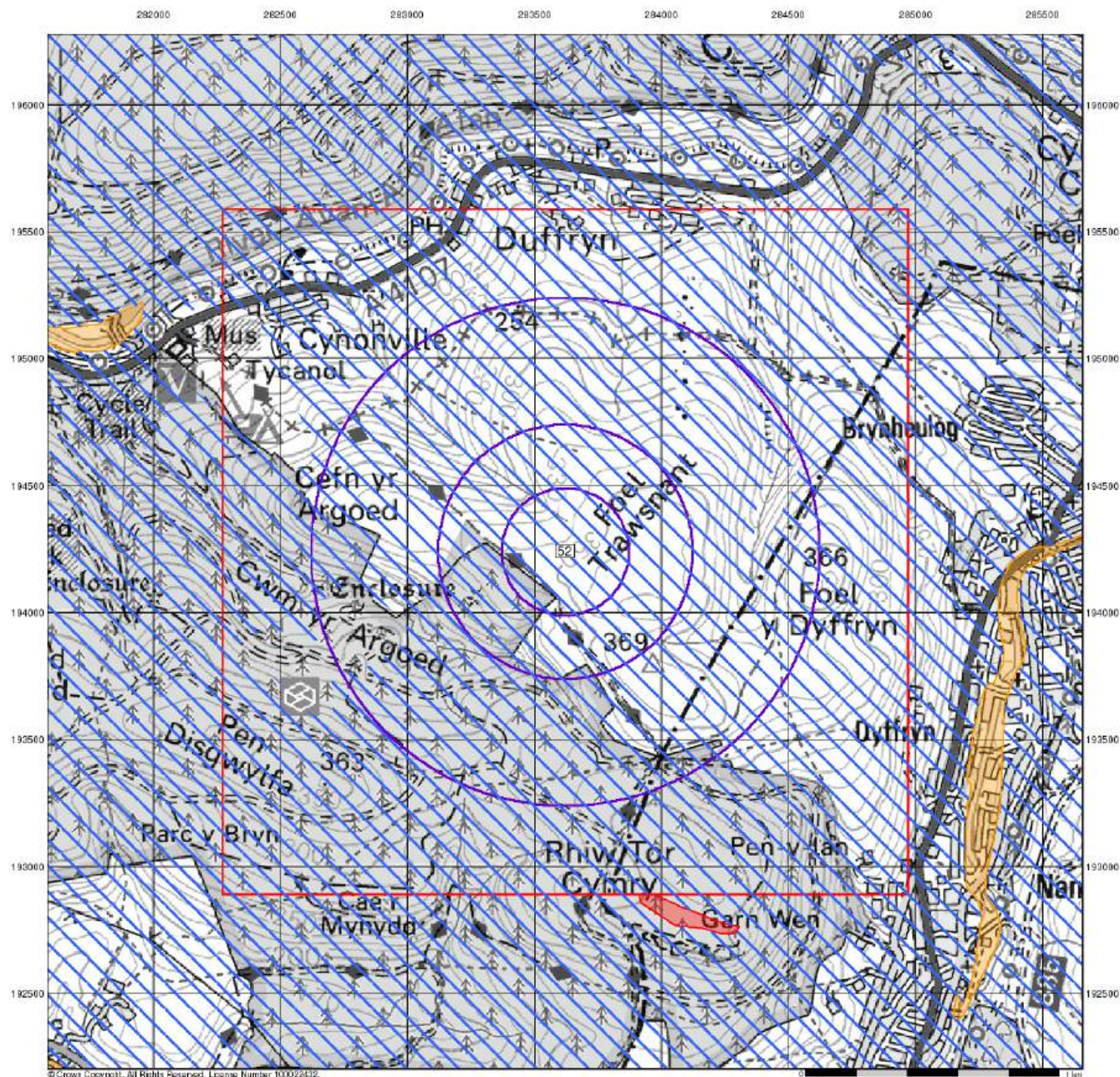


Order Details

Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Foel Trawsnant Windfarm



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Intégral Géotechnique

Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Collapsible Ground Stability Hazards

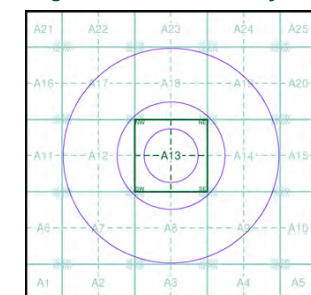
- High
- Low
- Moderate
- Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature

- | Point | Polygon |
|-------|---------|
| | |
| | |

Mining and Ground Stability - Slice A



Order Details

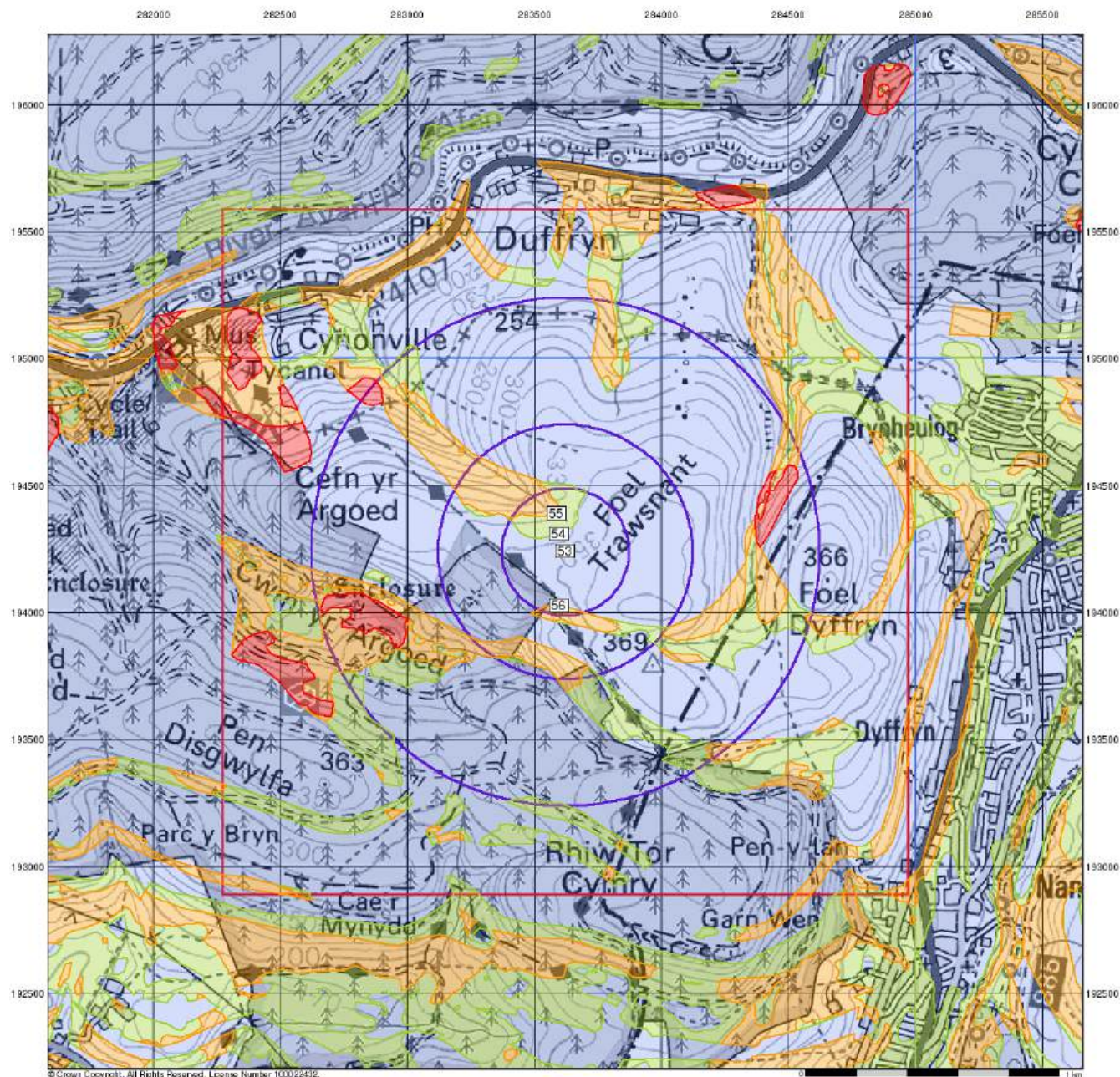
Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Intégral Géotechnique

Ground Stability Data (1:50,000)

General

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

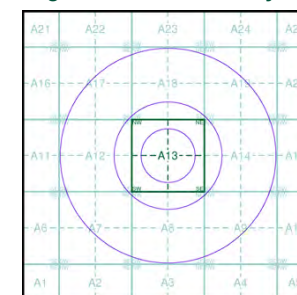
Potential for Landslide Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Ground Dissolution Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice A



Order Details

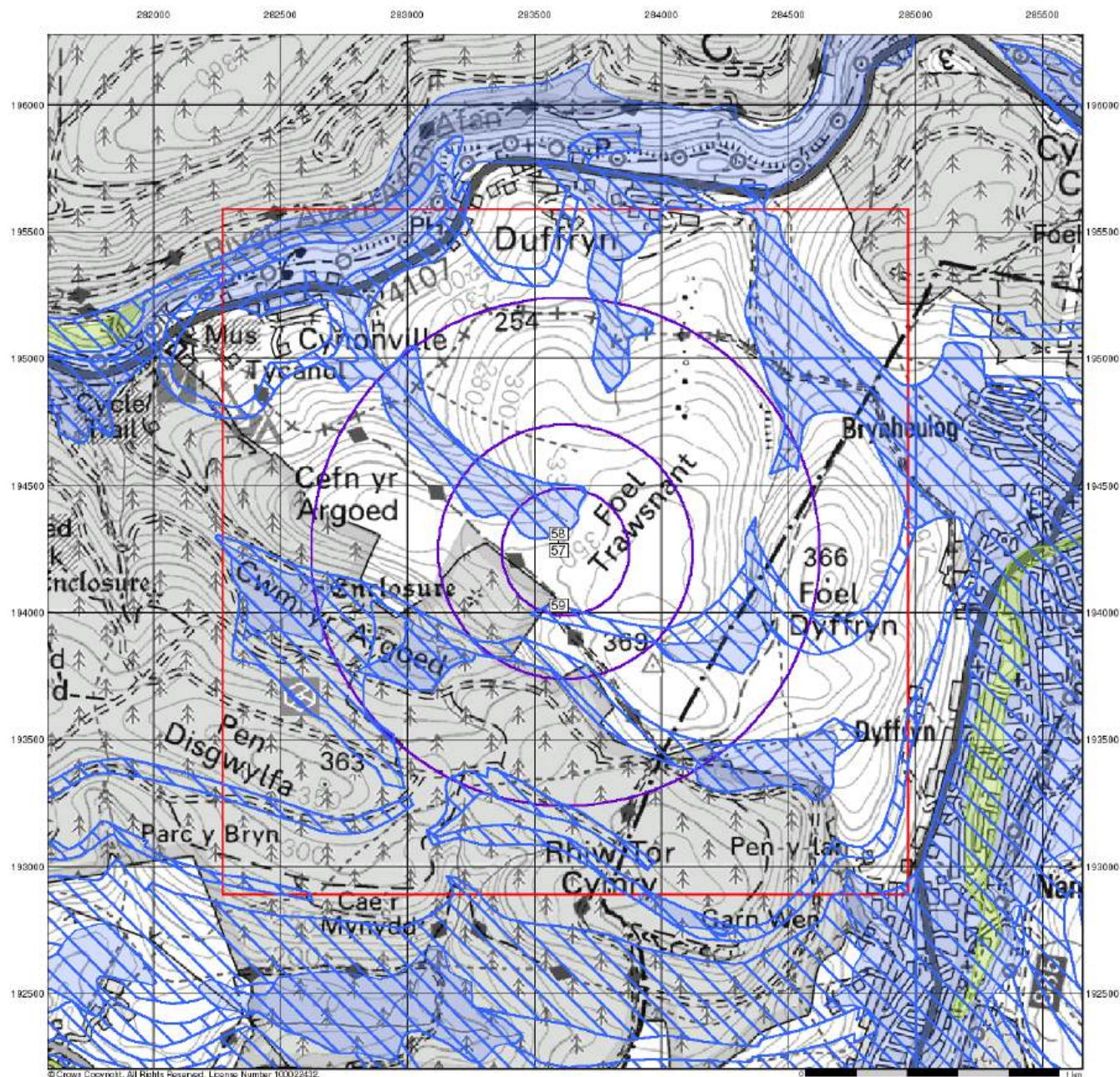
Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Intégral Géotechnique

Ground Stability Data (1:50,000)

General

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

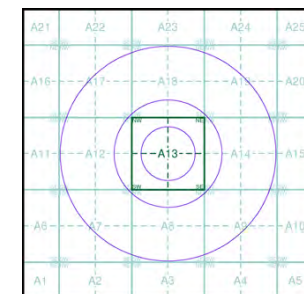
Potential for Running Sand Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- ▨ High
- ▨ Moderate
- ▨ Low
- ▨ Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number: 279012478_1_1
 Customer Ref: 12826/RAH
 National Grid Reference: 283620, 194240
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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

Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

279012478_1_1

Customer Reference:

12826/RAH

National Grid Reference:

283620, 194240

Slice:

A

Site Area (Ha):

0.01

Search Buffer (m):

1000

Site Details:

Foel Trawsnant Windfarm

Client Details:

MR H Pritchard
Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	-
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	5
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	7
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Historical Map List	8
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	9
Data Suppliers	10
Useful Contacts	11

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The brine subsidence data relating to the Droitwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1	2	5
Coal Mining Affected Areas	pg 2	Yes	n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability	pg 2	Yes	n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas	pg 2	3	2		15
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying	pg 5				1
Heap, unknown constituents	pg 5				5
Mineral Railway	pg 5				2
Mining & quarrying general	pg 5				2
Mining of coal & lignite	pg 5		1	3	5
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 5			1	4
Potentially Infilled Land (Water)					
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Salt Mining Related Features					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Foel Trawsnant Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156479 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (S)	247	1	283622 193994
2	BGS Recorded Mineral Sites Site Name: Foel Trawsnant Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156480 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	370	1	283498 193891
3	BGS Recorded Mineral Sites Site Name: Foel Trawsnant Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156498 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	385	1	283554 193861
4	BGS Recorded Mineral Sites Site Name: Argoed Colliery Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156482 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	603	1	283059 194019
5	BGS Recorded Mineral Sites Site Name: Argoed Colliery Location: Dyffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156481 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	836	1	282792 194132
6	BGS Recorded Mineral Sites Site Name: Lluest Location: Duffryn, Maesteg, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156747 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	905	1	284398 194701

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	BGS Recorded Mineral Sites Site Name: Lluest Location: Duffryn, Maesteg, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156837 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	956	1	284409 194779
8	BGS Recorded Mineral Sites Site Name: Blaen Nant Location: Duffryn, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156526 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NE (N)	961	1	283812 195181
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (NE)	0	2	283620 194240
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	3	283620 194240
	Non Coal Mining Areas of Great Britain No Hazard				
9	Potential Mining Areas Name: Argoed Ceased Operation: 1927 Commodity: Coal; Field; Wernddu; Wernddu Rider; Wernpistyll Rider; White Reference: 9094 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (NE)	0	4	283620 194240
10	Potential Mining Areas Name: Duffryn Gelly Ceased Operation: Not Supplied Commodity: Coal; Probably Wernddu Reference: Not Supplied Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Ed. Daniel and Co., Worcester Chambers, Swansea.	A13NE (NE)	0	4	283620 194240
11	Potential Mining Areas Name: Duffryn Rhondda Ceased Operation: 1925 Commodity: Coal; No.2 Rhondda or Wernddu Reference: 8205 Alternate: No. 2 Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (NE)	0	4	283620 194240
12	Potential Mining Areas Name: Drysiog Ceased Operation: 1866 Commodity: Coal; White; Clay; Jonah; Blackband Reference: Not Supplied Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Baldwins Ltd., 45 Wind Street, Swansea.	A13SW (S)	148	4	283617 194093

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Potential Mining Areas Name: Glynccorwg Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13SW (S)	148	4	283617 194093
14	Potential Mining Areas Name: Tonhir Ceased Operation: Not Supplied Commodity: Coal; White; Clay; Golden Reference: Not Supplied Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Conway Williams, Queen Street, Neath.	A8NW (S)	550	4	283608 193691
15	Potential Mining Areas Name: Garn Wen Ceased Operation: 1866 Commodity: Coal; White Reference: Not Supplied Alternate: Nos. 4, 6, 7, 9, 11 Name/Mine: Not Supplied Custodian: North's Navigation Collieries (1889) Ltd., Maesteg.	A8NW (S)	550	4	283608 193691
16	Potential Mining Areas Name: Bryn Mercantile Ceased Operation: 1927 Commodity: Coal; White; Black Band; Victoria; Jonah Clay Reference: 8371 Alternate: Daniel's Old Name/Mine: Drysiog Alternate: Drysiog Name/Mine: Not Supplied Custodian: Not Supplied	A8NW (S)	550	4	283608 193691
17	Potential Mining Areas Name: Tonhir Ceased Operation: 1928 Commodity: Coal; Golden Reference: 6847 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A8NW (S)	550	4	283608 193691
18	Potential Mining Areas Name: Llangynwyd Higher Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A9NW (SE)	675	4	283999 193682
19	Potential Mining Areas Name: Parc-y-Bryn Ceased Operation: 1922 Commodity: Coal; Field; Wernddu; Wernpistyll Rider; Wernpistyll; No.2 Rhondda Reference: 7420 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A7NE (SW)	688	4	283194 193700
20	Potential Mining Areas Name: Duffryn Rhondda Ceased Operation: 1925 Commodity: Coal; Field Reference: 8207 Alternate: No. 2 Name/Mine: Not Supplied Custodian: Not Supplied	A19SW (NE)	765	4	284025 194889
21	Potential Mining Areas Name: Cynon Ceased Operation: 1922 Commodity: Coal; Field; Wernddu or No.2 Rhondda Reference: 7590 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A17SE (NW)	777	4	283220 194906

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Potential Mining Areas Name: Duffryn Rhondda Ceased Operation: 1925 Commodity: Coal; Wernpistill Rider Reference: 8206 Alternate: No. 2 Name/Mine: Custodian: Not Supplied	A14NE (E)	833	4	284418 194478
23	Potential Mining Areas Name: Caerau Ceased Operation: 1927 Commodity: Coal; No.2 Rhondda Reference: 9495 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14NE (E)	833	4	284418 194478
24	Potential Mining Areas Name: Cynon Ceased Operation: 1905 Commodity: Coal; Wernddu Reference: Not Supplied Alternate: Not Supplied Name/Mine: Custodian: Forster Brown and Rees, Guildhall Chambers, Cardiff.	A12NW (W)	855	4	282810 194513
25	Potential Mining Areas Name: Drysiog Ceased Operation: Not Supplied Commodity: Coal; White; Clay; Jonah; Blackband Reference: Not Supplied Alternate: Nos. 1, 2, 3, 5, 6, 7, 8 Name/Mine: Custodian: Baldwins Ltd., 45 Wind Street, Swansea.	A8SW (S)	952	4	283600 193289
26	Potential Mining Areas Name: Garn Wen Ceased Operation: 1862-1890 Commodity: Coal; Clay Reference: Not Supplied Alternate: Nos. 3, 5, 6, 10, 12 Name/Mine: Custodian: North's Navigation Collieries (1889) Ltd., Maesteg.	A8SW (S)	952	4	283600 193289
27	Potential Mining Areas Name: Cwmavon Ceased Operation: Not Supplied Commodity: Coal; White; Clay; Jonah; Ironstone; Blackband Reference: Not Supplied Alternate: Nos. 5, 6, 7, 12 Name/Mine: Custodian: (i) Forster Brown and Rees, Guildhall Chambers, Cardiff. (ii) Lawrence, Davies and Causton, 6 Park Place, Cardiff.	A8SW (S)	952	4	283600 193289
28	Potential Mining Areas Name: Cwmavon Ceased Operation: 1866 Commodity: Coal; White; Tormynydd Reference: Not Supplied Alternate: No. 27 Name/Mine: Custodian: Baldwins Ltd., 45 Wind Street, Swansea.	A7NW (SW)	984	4	282792 193708

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	General Quarrying Use: Not Supplied Date of Mapping: 1900	A19SE (NE)	900	-	284390 194704
30	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1964	A19SW (NE)	605	-	284069 194645
31	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1964	A19SW (NE)	683	-	284062 194760
32	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1964	A19SW (NE)	775	-	284079 194864
33	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1951	A18NE (N)	965	-	283719 195200
34	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1964	A19NW (NE)	979	-	284092 195097
35	Mineral Railway Use: Not Supplied Date of Mapping: 1900	A14NE (E)	723	-	284338 194317
36	Mineral Railway Use: Not Supplied Date of Mapping: 1921	A12SW (W)	879	-	282749 194131
37	Mining & quarrying general Use: Not Supplied Date of Mapping: 1900	A19SE (NE)	914	-	284397 194722
38	Mining & quarrying general Use: Not Supplied Date of Mapping: 1884	A18NE (N)	962	-	283813 195182
39	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1884	A13SW (S)	250	-	283619 193990
40	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A8NW (S)	372	-	283498 193889
41	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1884	A8NW (S)	394	-	283547 193853
42	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A12SE (SW)	418	-	283255 194038
43	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A12SE (W)	599	-	283065 194016
44	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1964	A14SW (E)	642	-	284251 194129
45	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A14NE (E)	710	-	284328 194284
46	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A12SW (W)	792	-	282839 194112
46	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A12SW (W)	827	-	282801 194125
47	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SE (SW)	418	-	283255 194038
48	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SE (W)	599	-	283065 194016

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SW (W)	792	-	282839 194112
50	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SW (W)	827	-	282801 194125
51	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1988	A18NE (N)	962	-	283813 195182

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
52	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
53	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
54	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	74	1	283593 194309
55	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	155	1	283586 194390
56	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	215	1	283594 194027
57	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	74	1	283593 194309
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240
58	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	74	1	283593 194309
59	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	215	1	283594 194027
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	283620 194240

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Glamorganshire	025_04	1877
Glamorganshire	025_04	1899
Glamorganshire	025_04	1918
Glamorganshire	025_04	1940
Ordnance Survey Plan	SS8393	1962
Ordnance Survey Plan	SS8394	1962

The following mapping has been analysed for Historical Land Use Information (1:10,000):

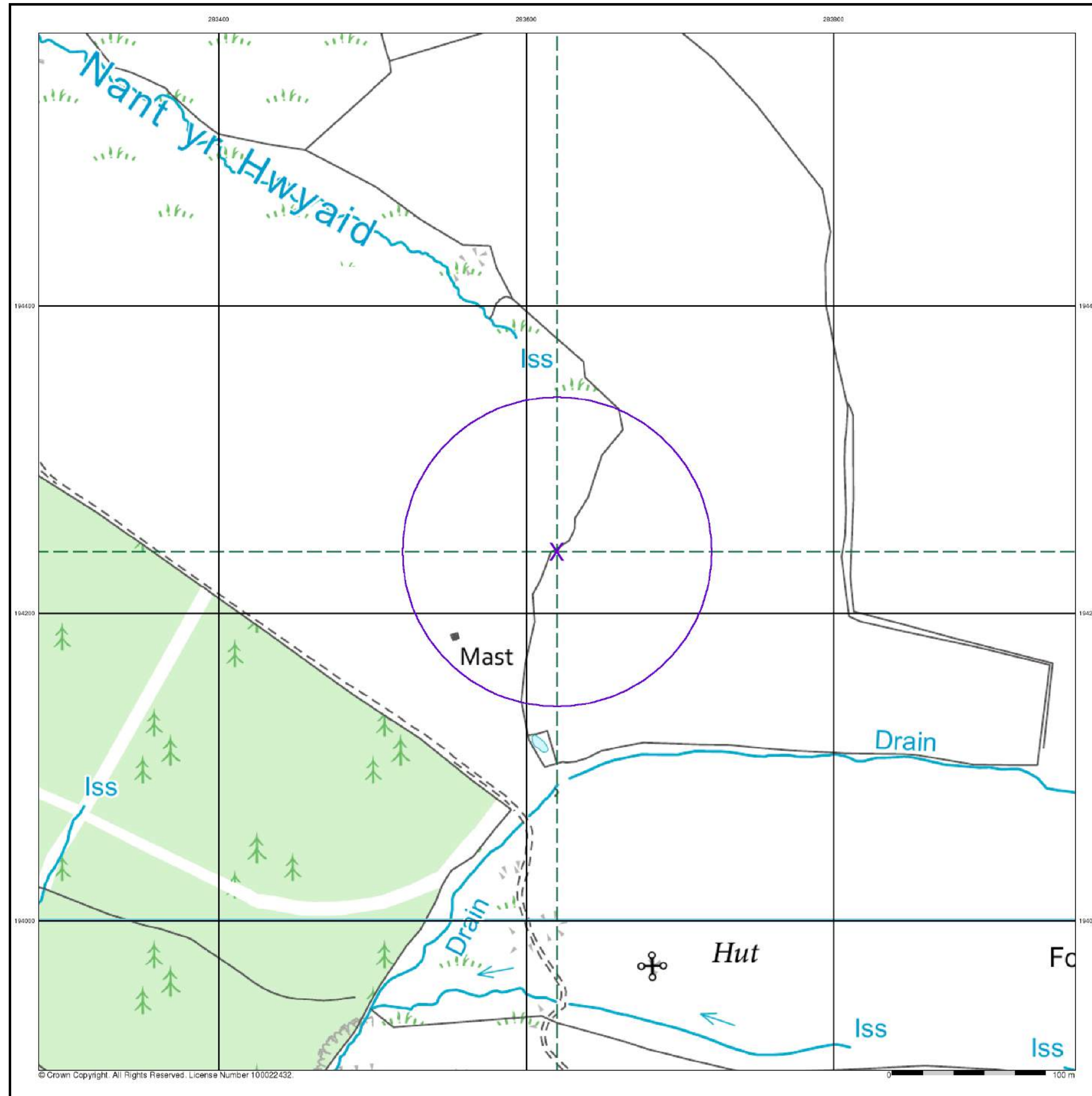
1:10,560	Mapsheet	Published Date
Glamorganshire	016_00	1884
Glamorganshire	017_00	1884
Glamorganshire	025_00	1884
Glamorganshire	026_00	1884
Glamorganshire	016_SE	1900
Glamorganshire	017_SW	1900
Glamorganshire	025_NE	1900
Glamorganshire	026_NW	1900
Glamorganshire	016_SE	1921
Glamorganshire	017_SW	1921
Glamorganshire	025_NE	1921
Glamorganshire	026_NW	1921
Glamorganshire	017_SW	1938
Glamorganshire	026_NW	1947
Glamorganshire	016_SE	1951
Glamorganshire	025_NE	1951
Ordnance Survey Plan	SS89NW	1964
Ordnance Survey Plan	SS89SW	1964
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SS89NW	1988
Ordnance Survey Plan	SS89SW	1990

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	November 2020	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Stantec UK Ltd	November 2020	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Stantec UK Ltd	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
3	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
4	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9960 Fax: 0844 844 9951 Email: customerservice@promap.co.uk Website: www.landmarkinfo.co.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Intégral Géotechnique

Historical Land Use Information (1:2,500)

General

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

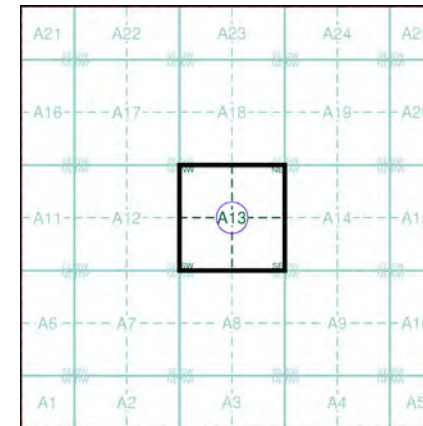
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	---	■

Mining and Ground Stability - Segment A13



Order Details

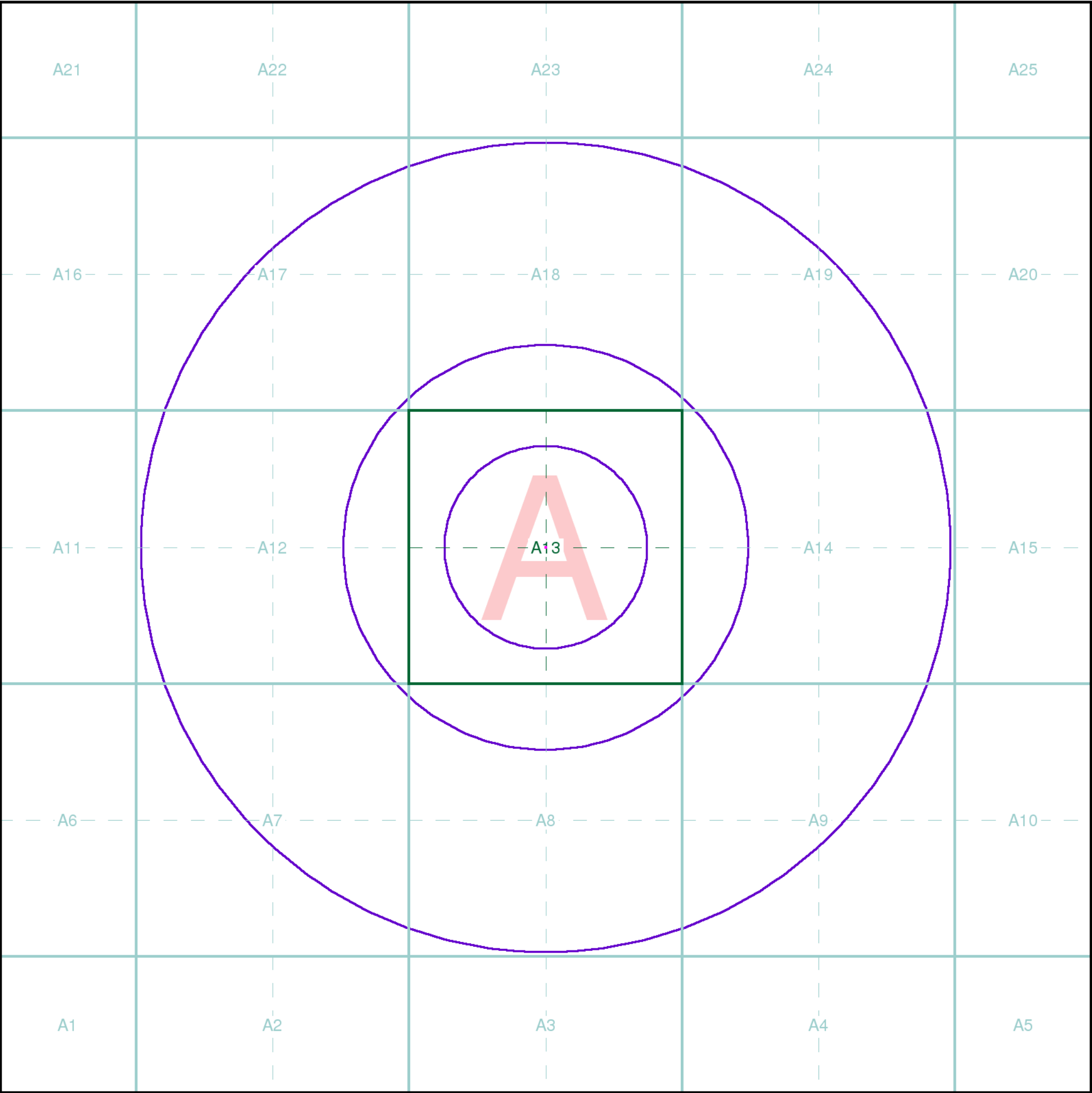
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Slice: A
Site Area (Ha): 0.01
Plot Buffer (m): 100

Site Details

Foel Trawsnant Windfarm

Landmark
INFORMATION GROUP

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



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details
MR H Pritchard, Integral Geotechnique, Integral House, 7
Beddau Way, Castlegate Business Park, Caerphilly, CF83
2AX

Order Details
Order Number: 279012478_1_1
Customer Ref: 12826/RAH
National Grid Reference: 283620, 194240
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details
Foel Trawsnant Windfarm

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

APPENDIX D

UXO Screening Report

UNEXPLODED BOMB RISK MAP



SITE LOCATION

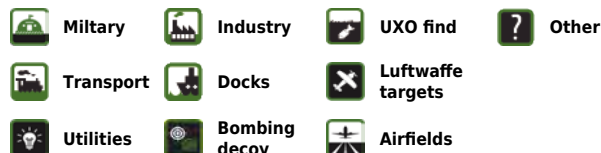
Map Centre: 283959,193926



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 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.

PA026326 — FOEL TRAWSNANT

DOCUMENT DETAILS

Site name:	Foel Trawsnant		
Reference:	PA026326	Client:	Smith Grant LLP
Date:	2 nd March 2026	Contact:	Meg Jones

RECOMMENDATION

While always prudent, a detailed desk study is not considered essential in this instance.

SUMMARY OF FINDINGS

Military Activity	No significant military activity affecting the Site has been identified. During WWII, 1No. rifle range was established 0.1km east of the Site. After WWII, it became disused.
WWI Bombing	Potential targets within approximately 5km of the Site: ▪ Transport infrastructure and public utilities. No readily available records have been found indicating that the Site was bombed.
WWII Bombing	The Site was located in Port Talbot Municipal Borough (MB), Glyncorrwg Urban District (UD), and Maesteg UD. Port Talbot MB officially recorded 91No. High Explosive (HE) bombs, with a density of 3.9 bombs per 405 hectares (ha). Glyncorrwg UD officially recorded 3No. HE bombs, with a density of 0.2 bombs per 405ha. Maesteg UD officially recorded no HE bombing. Potential targets within approximately 5km of the Site: ▪ Transport infrastructure and public utilities. ▪ Military training areas. ▪ Anti-Aircraft (AA) defences. No readily available records have been found indicating that the Site was bombed.
Bombing Decoys	None identified within 5km of the Site.

FURTHER INFORMATION

These findings are based on a cursory review of readily available records; caution is advised if you plan to action work based on this PDSA.

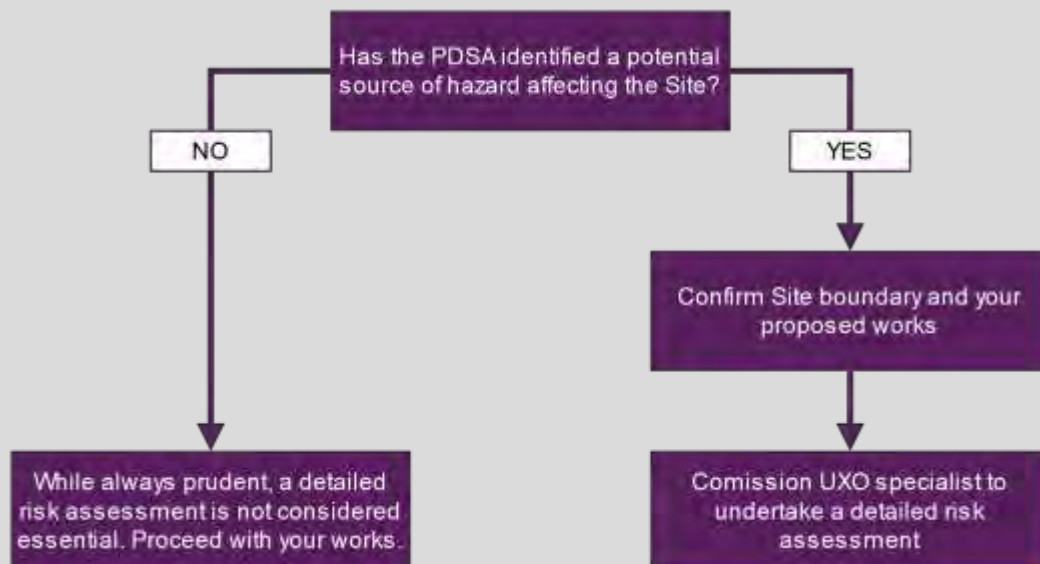
Where a potentially significant UXO hazard source has been identified on the Site, no further research has been undertaken. A detailed UXO desk study and risk assessment may identify other potential UXO hazard sources on the Site.

Visit www.zeticauxo.com to learn more about Zetica's detailed UXO desk studies and other UXO services. Click [here](#) for more information about the most common UXO hazard sources in the UK.

If you have any further queries, please don't hesitate to contact us at uxo@zetica.com or 01993 886 682.

NEXT STEPS

Follow the steps below to determine the appropriate course of action:



Potential UXO hazard identified? If the PDSA has identified a potential source of UXO hazard affecting your site, then a detailed UXO risk assessment is recommended.

No obvious source of UXO hazard? If the PDSA has not identified any obvious source of potential UXO, works can proceed.

It is good practice to raise awareness of the background UXO risk in the UK as part of a standard site induction. This will ensure that appropriate action is taken in the unlikely event that UXO is discovered.

Don't skip a stage: If you skip the detailed risk assessment stage, you could end up undertaking unnecessary work (e.g. trying to detect a UXO hazard that has already been removed).

Similarly, a detailed risk assessment might find that the UXO hazard is worse than expected and has a greater potential to cause harm, requiring a different mitigation approach than would otherwise be undertaken.

APPENDIX E

Risk Assessment Methodology

Contaminated Land Risk Assessment Methodology

Conceptual Site Model

Within the contaminated land risk assessment framework, a conceptual Site model (CSM) is developed which identifies the following three components:

- **Source of Contamination:** contaminant: hazardous substance that has the potential to cause adverse impacts;
- **Receptor:** target that may be affected by contamination: e.g. human health of existing or future site users whether they be residents, construction workers etc., occupants/users of site, water resources (rivers or groundwater), or structures;
- **Migratory Pathway:** a viable route whereby a hazardous substance may come into contact with the receptor.

Contaminant Linkage

A contaminant linkage is identified when there is a potential contaminant source, receptor, and pathway linkage between the two. The absence of one or more of each component (contaminant, pathway, receptor) would prevent a contaminant linkage being established.

During the contaminated land assessment, the potential 'significance' of this contaminant linkage is established within a risk assessment framework.

The identification of potential contaminant linkages is based on a Conceptual Model of the site, which is subject to continual refinement as additional data becomes available. The Environment Agency's Land Contamination Risk Management (LCRM) guidance (published October 2020, updated July 2023) uses a three staged risk-based approach including: Stage 1 risk assessment, Stage 2: Options Appraisal and Stage 3: Remediation and Verification.

Risk Assessment Framework

A "risk" is defined as:

The probability, or frequency, or occurrence of a defined hazard; and

The severity or magnitude (including the seriousness) of the consequences.

The UK's approach to the assessment of environmental risk is set out in by Ciria C552 'Contaminated land risk assessment. A guide to good practice' (Rudland D.J, Lancefield R.M & Mayell P.N, 2001). This has been adapted and is presented within Tables 1 to 3, below.

Table 1: Severity/Consequence of Risk

Severity	Description
Large	Acute risks to human health. Catastrophic damage to buildings/property (e.g. by explosion). Direct pollution of sensitive water receptors (or serious pollution of other controlled waters (Designated Main Rivers or Principal /Secondary A groundwater aquifers bodies). Acute effects on sensitive ecosystems or species
Medium	Harm to human health from chronic (long-term) exposure. Pollution of sensitive watercourses (controlled watercourses other than Main Rivers) (Secondary B aquifers) or pollution of other water bodies. Chronic effects on sensitive ecosystems or species. Significant damage to buildings or infrastructure.
Small	No significant harm to human health in either short or long term. No pollution of sensitive controlled waters, no more than slight pollution of non-sensitive waters. Damage to non-sensitive ecosystems or species. Requirement for protective equipment during site works to mitigate health effects. Minor damage to buildings or infrastructure.
Negligible	No harm to human health, ecosystems, buildings and infrastructure or pollution of water.

The probability of the risk occurring is classified according to criteria given in Table 2 below:

Table 2: Probability of Risk Occurring

Probability	Description
High likelihood	Contaminant linkage may be present, and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor.
Likely	Contaminant linkage may be present, and it is probable that the risk will occur over the long term.
Low Likelihood	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so.
Unlikely	Contaminant linkage may be present but the circumstances under which harm would occur are improbable.

An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 3 below:

Table 3: Comparison of Severity and Probability

Probability	Severity			
	Large	Medium	Small	Negligible
High Likelihood	Very High Risk	High Risk	Medium/Low Risk	Low Risk
Likely	High Risk	Medium Risk	Low Risk	Negligible Risk
Low Likelihood	High/Medium Risk	Medium/Low Risk	Low Risk	Negligible Risk
Unlikely	Medium/Low Risk	Low Risk	Low Risk	Negligible Risk

The various risk rankings provide guidance for recommended actions, whether this is:

Table 4: Description of the Classified Risks and Likely Action Required

Evaluated Risk	Recommended Actions
Very High Risk	Severe harm to a receptor may already be occurring, or there is a high likelihood that severe harm could occur from an identified hazard. Urgent investigation and remedial works / mitigation in the short term is likely to be required.
High Risk	Harm is likely to arise to a receptor from an identified hazard. Urgent investigation is required, and remedial works may be necessary in the short term and are likely over the long term.
Medium Risk	It is possible that harm could arise to a receptor from a hazard. However, it is 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. Limited 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.
Low Risk	It is possible that harm could arise to a receptor from a hazard, but there is a low likelihood of this hazard occurring and if realised, harm would at worst normally be mild.
Negligible Risk	There is a negligible possibility that harm could arise to a receptor. In the event of such harm being realised, it is likely to be mild or negligible.

APPENDIX F

Historical Mapping Table

Table 1 –Foel Trawsnant Historical Development Summary			
Feature	Map	Location	Description
On-site			
Open grassland	1884 to present day	Across Site	The Site appears to be open grassland of Foel Trawsnant from earliest available mapping (1884) with a track running through the access road portion of the Site in the south.
Off-site			
Pond	1884 to 1921	90m north of turbine 8	A pond is located within 90m of turbine 8. After 1921, it is no longer mapped.
Trial levels	1884 to 1964	50-140m west	Two trial levels are mapped to the west of the former location of turbine 6 with an old coal level being mapped 140m west in 1900. Another old coal level is mapped 330m to the east of turbine 1. By 1964, only the old trial level is mapped 50m to west and is labelled 'disused'. By 2006, none of these trial / coal levels are mapped.
Clay workings	1999 to 2025	275m east	An area of clay workings is mapped 275m to the east of turbine 1 in 1999 but is mapped as disused by 2021. This area is visible on satellite imagery in 2025 with differential plant growth to the surrounding area.
Dryffryn Rhondda Colliery	1900 to 1964	350m east	This is mapped as disused 350m east with an old quarry, old tramway, and old trial levels. From 1921, it is mapped as disused and most features relating to it are removed from mapping by 1964.
Spoil heaps	1938-1951 to 2021	380m Northeast	Spoil heaps are mapped (at their closest point) 380m to the northeast of turbine 10, extending further northwards away from Site. By 1999, they are mapped as disused tips and a slag heap. By 2021, only the outlines of the heaps remain. These relate to the Dryffryn Rhondda colliery.
Argoed Colliery	1900 to 1921	550m West / southwest	Air shafts and old coal levels are mapped to the southwest of turbine 6. The colliery is not mapped by 1921, but a dismantled tramway crosses the area and is mapped as a track by 2021.
Dryffryn Colliery	1884 to 2021	1km east	This colliery is mapped to the east, but no buildings are visible on the map. One coal level and three trial levels are mapped 950m to the east. In 1900 mapping this colliery is mapped as disused with an old quarry and further trial and coal levels. The only feature remaining on mapping by 2021 is 'pit (disused)'.

Note: Dates refer to dates provided on OS mapping; actual dates may differ

APPENDIX G

Coal Mining Report



The Coal
Authority

Resolving the **impacts** of mining

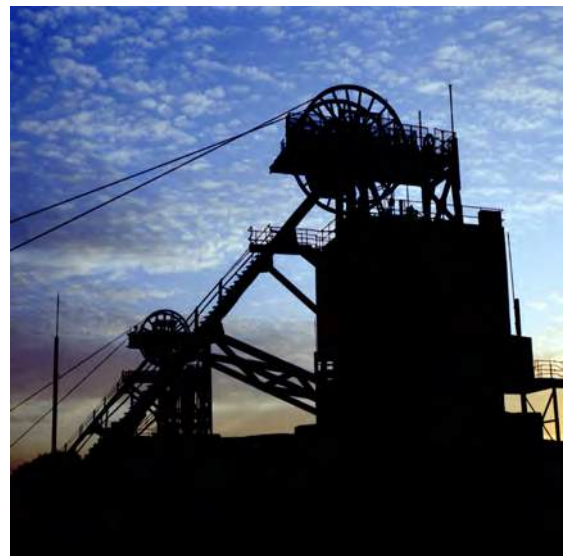
CON29M

Non-Residential Mining Report

FOEL TRAWSNANT PROPOSED WIND
FARM
S OF DUFFRYN AND NW OF
NANTFFYLLON
FOEL TRAWSNANT (NAME OF HILL)
NEATH PORT TALBOT

Date of enquiry: 19 April 2018
Date enquiry received: 19 April 2018
Issue date: 20 April 2018

Our reference: 51001821145001
Your reference:



CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Client name

WOOD. E & I

Enquiry address

FOEL TRAWSNANT PROPOSED WIND FARM , S OF
DUFFRYN AND NW OF NANTFFYLLON , FOEL
TRAWSNANT (NAME OF HILL) , NEATH PORT
TALBOT

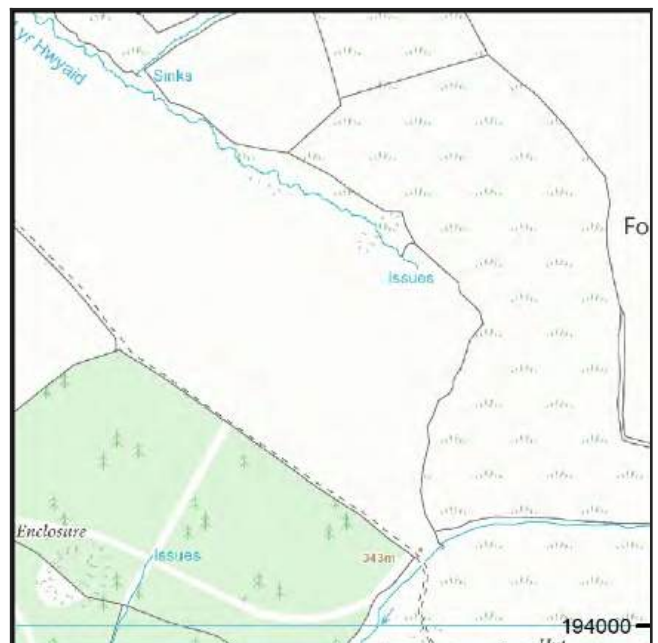
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NG18 4RG

www.groundstability.com

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Approximate position of property



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Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	Yes
13	Working facilities order	No
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

Further recommended reports
Mine entry interpretive report
Mine entry plan and data sheets

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 11 seams of coal at shallow to 780m depth, and last worked in 1980.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4. Mine entries

Within, or within 20 metres of, the boundary of the property there are 3 mine entries, the approximate positions of which are shown on the enquiry boundary plot.

Our records disclose the following information:

283193-008. No treatment details.

284193-036. Adit sealed with compacted brick rubble and backfilled with soil. 4.3m square fence erected. (CCD/92/34).

283193-007. No treatment details.

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

For an additional fee, the Coal Authority can provide a Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry/entries referred to in this report. It gives an opinion on the likelihood of mining subsidence damage caused from ground movement as a consequence of the mine entry/entries. It also gives details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining.

Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie for development sites and new build).

For further advice on how to order this additional information please visit www.groundstability.com.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. Coal mining subsidence

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

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

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

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

The property is in an area where notices to withdraw support were given in 1946, 1948, 1954, 1956 and 1975.

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

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. Payments to owners of former copyhold land

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

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

The Coal Authority own the copyright in this report and the information used is protected by our database right.

The boundary plot shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.groundstability.com.

If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken, these are available to view, free of charge, at our Head Office in Mansfield. To book an appointment please ring 01623 637225. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission of the owner must be sought. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before

beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

The map image is too large for this page and will be sent in a separate document

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VAT receipt

Issued by	The Coal Authority 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG
Tax point date	19 April 2018
Issued to	WOOD. E & I 25 CANADA SQUARE LONDON TOWER HAMLETS E14 5LQ
Property search for	FOEL TRAWSNANT PROPOSED WIND FARM S OF DUFFRYN AND NW OF NANTFFYLLON FOEL TRAWSNANT (NAME OF HILL) NEATH PORT TALBOT
Reference number	51001821145001
Date of issue	20 April 2018
Cost	£204.15
VAT @ 20%	£40.83
Total received	£244.98
VAT registration	598 5850 68

Enquiry boundary

Key

Approximate position of enquiry boundary shown



Disused adit

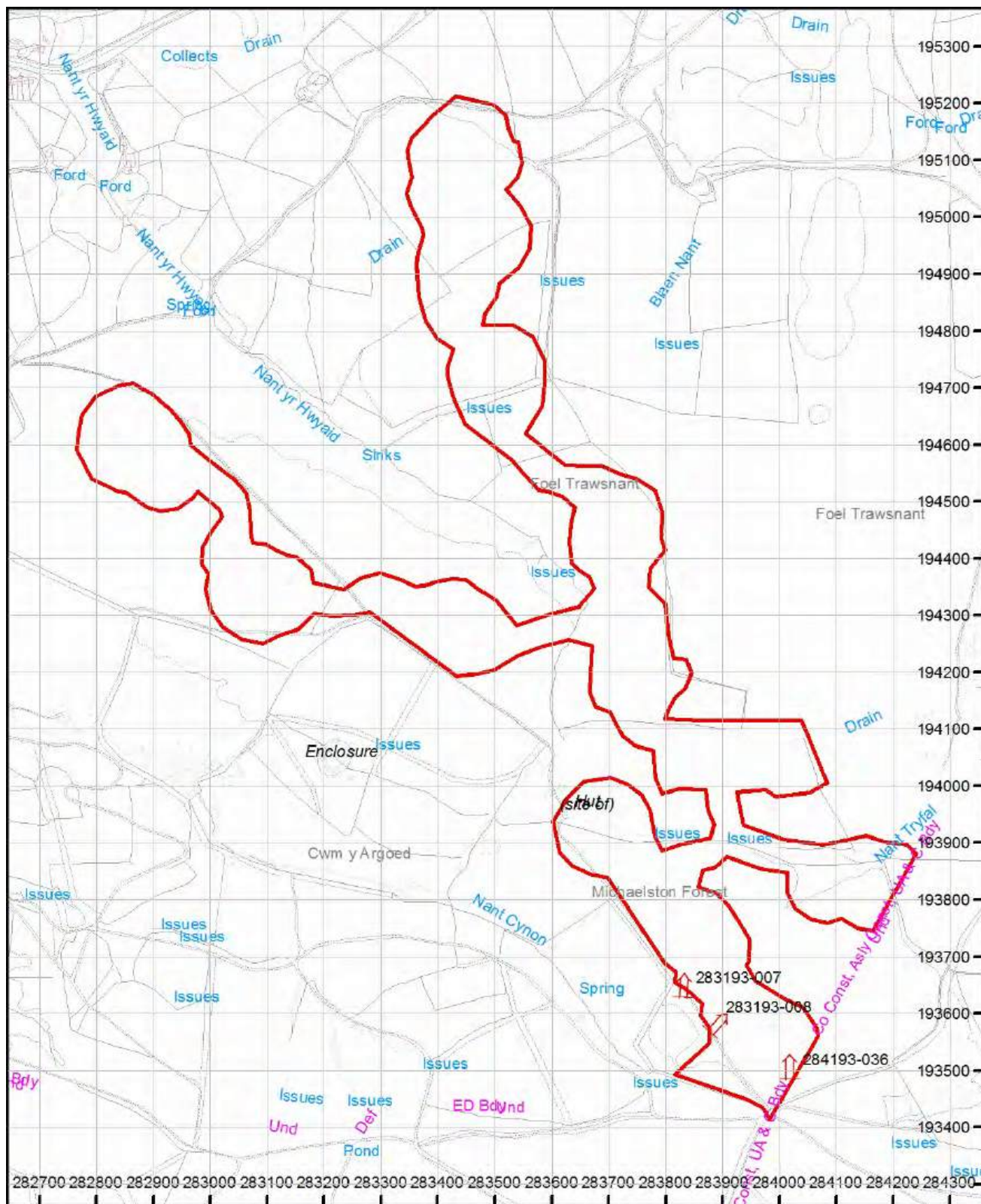
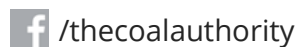


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