# Appendix 6A

Geotechnical Desk Study

Welsh Government

# Land at Nant Helen and Onllwyn Coal Washery

## Geotechnical and Geoenvironmental Desk Study

Issue | 18 December 2019

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

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**Ove Arup & Partners Ltd**
4 Pierhead Street
Capital Waterside
Cardiff CF10 4QP
United Kingdom
www.arup.com

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| | | Name | Jak Canham | Tim Wilkinson | Dan Raynor |
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| | | Name | Jak Canham | Tim Wilkinson | Dan Raynor |
| | | Signature |  |  |  |
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| | | **Description** | | | |
| | | | Prepared by | Checked by | Approved by |
| | | Name | | | |
| | | Signature | | | |
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# 1 Introduction

The Welsh Government is considering the development of a rail testing facility in South Wales. The aspiration is for the development of a nationally significant rolling stock and infrastructure testing facility (Hereafter referred to as the 'proposed development').

Celtic Energy's Nant Helen site and Onllwyn Washery, immediately to the north of Onllwyn village, has been identified as a potential site for the proposed development. The site is currently an operational opencast coal mine and coal washery. The proposed development would allow the site to be re-purposed once the opencast mining activities have ceased and the site has been restored.

Arup have been commissioned by the Welsh Government to undertake a desk study assessment for the proposed site near Onllwyn in Powys. This desk study includes a summary of the site's history and ground conditions, including topography, geology, hydrogeology, hydrology and the coal mining legacy at the site. A preliminary conceptual site model and preliminary engineering assessment is then presented, together with a summary of the identified geotechnical and geo-environmental risks and opportunities and recommendations for further work.

It is envisaged that 7km of cuttings and embankments will be constructed in two loops. Based on the complex topography of the site, the cuttings and embankments will likely require significant cut (~30m) and fill (~40m) earthworks to form the embankment level.

In addition to the track loops, it is envisaged that a platform environment, facilities for rail storage, train decommissioning areas and educational activities will also be included as part of the developed works. These are likely to be located both within the Nant Helen site and within the portion of the site currently occupied by the Onllwyn Washery.

# 2 Sources of Information

The following sources of information have been reviewed in the preparation of this report:

- British Geological Survey (BGS) published geological and hydrogeological mapping
- British Geological Survey (BGS) online GeoIndex viewer
- Published environmental information (Lle)
- Information contained within the 2011 Nant Helen Extension Environmental Statement
- Historical aerial photographs (Welsh Government)
- Historical and present-day mapping sets (Groundsure)
- Opencast completion plans and select underground working abandonment plans (provided by Celtic Energy)
- Groundsure EnviroInsight and GeoInsight reports
- Coal Authority online viewer
- Coflein, National Monuments Record of Wales

# 3 Site Location and Description

The Celtic Energy Nant Helen site is located approximately 20km north-west of Swansea, immediately south of the Brecon Beacons National Park (refer to Figure 1). The plan area of the site covers approximately 500 hectares and is located between the A4109 to the south, and the A4221 to the north-east To the north the site is bounded by an area of forestry and by forestry access tracks from the Brecon Road to the north-west. The majority of the site is located within the Powys county boundary however the southern boundary of the site lies along the Powys/Neath-Port Talbot county border and a small portion of the site lies within the county of Neath-Port Talbot.

The site boundary is shown on Figure 2. For ease of identification, throughout the report the site (as a whole) has been split into the main and the "washery" portions. The main portion refers to the central body of the site which contains the proposed rail test track whereas, the "washery" portion refers to the extension of the site to the southeast incorporating the Onllwyn Washery.

The topography of the site is shown on Figure 2. The northern site boundary starts at ~250m AOD in the north-western corner before dropping in an easterly direction to ~195m AOD. The land then climbs back up to the eastern arc of the site boundary which approximately follows the 250m AOD contour line. The southern site boundary also approximately follows the 250m AOD contour line and locally drops to ~235m AOD. The western arc of the site boundary rises up from 250m AOD in the south to 270m AOD in the south-western corner.

The topography of the site generally rises inwards from the site boundary. The central portion of the site sits at around 280m AOD with localised peaks reaching approximately 295m AOD. The "washery" portion of the site sits lower than the main portion of the site at roughly 230mAOD.

The Celtic Energy Nant Helen site is currently being used as an active open cast coal mine. The extreme west of the site contains the Nant Helen Extension opencast working which is typically 150m lower than the surrounding ground surface at its deepest point (refer to Figure 2). A series of access tracks are present across the site. These access tracks connect the current open cast workings in the west with the Onllwyn Washery located in the east of the site. The washery site accessed from the A4221 via a separate entrance, and is comprised several buildings, conveyer belts and material sorting facilities.

The central portion of the main site is dominated by a large 'Overburden Storage Area'. The overburden storage areas are understood to be spoil heaps placed above the natural ground level. The maximum height of the spoil material is understood to be approximately 80m above the natural ground surface.

## 3.1 Site Walkover

A site walkover was undertaken by an Arup geotechnical engineer on 28th November 2018 with a representative from Celtic Energy. Pertinent site walkover photographs are presented in Appendix A which should be referred to throughout

this section. Refer to Figure 3 for the approximate locations of the site walkover photographs.

The images presented in Appendix A include Photograph 1 showing the large overburden storage area. Photograph 3 shows the current Nant Helen Extension opencast site. Photographs 3, 4, 5 and 6 show examples of the material excavated during the opencast mining activities.

Photograph 1 was taken facing approximately NNW and shows the southern face of the large overburden storage area centrally located within the site. Photograph 1 also shows the electricity pylons that cross the southern portion of the site; the route of which is indicated on Figure 3.

Photograph 2 was taken facing approximately eastwards and shows a small pond type feature which is located on the current proposed track route. The western slope of the large overburden storage area is shown behind the pond feature.

Photograph 3 was taken facing northwest and looks down into the current Nant Helen Extension opencast mine extent. The depth of the excavation is evident (~150m) and a large lake feature is present at the base of the excavation. Assuming backfilling activity has been undertaken as shown by the batter slopes shown on the right-hand side of the photograph.

Photographs 3, 4, 5 and 6 show examples of the material excavated during the opencast mining activities. The material shown is predominantly gravel sized with larger cobble and boulder sized inclusions. Evidence of fracturing is present on many of the larger inclusions. The material is anticipated to be mudstone/siltstone and is dark in colour. This material is anticipated to be the non-coal bearing arisings excavated during the opencast mining activity and is likely to be indicative of the material used to backfill the opencast sites post completion.

Photograph 5 is facing roughly eastwards and shows the coal haul route running eastwards towards the centrally located site compound and offices. The land rising to the south (right-hand side of the photo) is the northernmost extent of the overburden storage area. The current proposed track route is anticipated to run eastwards from this point running through the southern edge of the forestry shown on the left-hand side of the photograph.

Photograph 6 is facing approximately ESE and is located along the coal haul route. The photograph shows the various stockpiles either side of the roadway. From review of the site context figure provided by Celtic Energy (Appendix H), this area is the coal stocking area. The coal stocking area is located atop the backfilled extent of the original Nant Helen opencast site. The site compound and offices are located over the horizon shown on photograph 6.

Photograph 7 shows four cylindrical tanks located to the northwest of the site compound and offices. These tanks display flammable warning signs and are anticipated to be fuel tanks used for the various motorised plant vehicles. A large motorised plant vehicle is shown to be parked behind the tanks.

Photograph 8 was taken facing NW and looks out over the eastern half of the main portion of the site. The land is shown to rise gently towards the northwest

with the forestry that borders the northern half of the site shown to be present lining the horizon on the left-hand side of the photograph.

Photograph 9 is facing approximately eastwards and looks back towards the Onllwyn washery site. The washery infrastructure is shown in the background with a large pond shown in the foreground beyond the road.

Photograph 10 is facing NW and looks in towards the centre of the site. The photograph shows the eastern extent of the electricity pylons and the left-hand portion of the horizon marks the anticipated southern extent of the second Onllwyn opencast site (refer to Section 9).

# 4 Site History

Historical features and constraints have been identified through a review of historical mapping sets (1876 - 2019) and historical aerial photography (1945 – 2019). The mapping sets have been purchased from Groundsure and are referenced accordingly; the mapping sets cover a range of scales from 1:1,250 to 1:10,560. The aerial photographs have been acquired from Welsh Government and provide a higher level of detail for portions of the site covered. Current online aerially imagery has also been reviewed to supplement the historical sources. The mapping source material reviewed is presented within Appendix B.

In general, the site has been subject to extensive surface and sub-surface coal mining activities over the past century. The majority of relevant features and potential constraints identified are related to the site's coal mining legacy. A detailed review of mining activity is discussed in further detail within Section 9 of this report.

Table 1 below provides a summary of each individual historical source reviewed. Refer to Figure 4, Figure 8 and Figure 9 throughout.

Table 1 – Summary of historical features and constraints

| Source | Notable features and alterations |
|---|---|
| 1876 / 1877 Historical Maps | The Gwaunclawdd and Abercrave Collieries are shown to the north of the site with the latter shown to be located within the site boundary. To the south of the Abercrave Colliery, numerous 'Old Quarry' and 'Old Coal Level' features are shown to be located within an area which appears to have been heavily worked. The Neath and Brecon Railway (Junction Line) is shown to run along the northern boundary of the site following a rough east to west alignment. The "Junction Line" forms a network with the Neath and Brecon Railway main line (see paragraph below) and links the Collieries located to the north of Mynydd Drum (Abercrave & Gwaunclawdd) to the Onllwyn Colliery and washery site to the south of Mynydd Drum.<br><br>To the south of the southern main site boundary, the Neath and Brecon Railway runs from southwest to northeast before crossing into the "washery" portion of the site. The majority of the southern portion of the main site is shown to be undeveloped moorland with localised marshy areas; the marshy areas feed several streams which flow in a southerly direction to converge with the River Dulais. A selection of cuttings and embankments, labelled as an "Old Tramway", is shown to cross the southern boundary of the site running along a rough east to west alignment. Based on review of |

| Source | Notable features and alterations |
|---|---|
| | the Transport Trust and Forest Fawr online sources, the Old Tramway believed to have originally formed part of the "Brecon Forest Tramroad". The portion of the tramroad that passes through the site was called the 'Claypon extension' and was constructed circa 1827. The extension linked the existing Brecon Forest Tramroad network, constructed circa 1819, to the "Drum Coal Levels" (located ~500m to the southeast of the site) and to the Swansea Canal. In 1859 the majority of the Brecon Forest Tramroad was incorporated into the Neath and Brecon Railway; however, the Claypon extension, which crossed Mynydd Drum, was abandoned.<br><br>An 'Old Coal Level (Entrance)' is shown to be located close to the southern boundary of the site. Numerous 'Old Quarries' are located towards the centre of the site, although these are all minimal in size.<br><br>The washery portion of the site is shown as predominantly undeveloped moorland. A tramway links the Onllwyn Colliery to the Neath and Brecon Railway main line which passes through the washery portion of the site. The tramway initially follows the same alignment (SW to NE) of the Neath and Brecon Railway before spurring off in an easterly direction once past the Onllwyn Station. The tramway then runs along the northern boundary of the washery site before turning to the south east and running along the north-eastern boundary of the washery site towards the Maes-y-marchog Colliery. The land to the north of the washery portion of the site is a marshy area marked as Gors Llwyn. |
| 1901/ 1903 Historical Maps | The Abercrave Colliery has increased in size and an additional colliery, the International Colliery, is shown to be located approximately 100m to the west of the Abercrave Colliery. The area to the south of the Abercrave Colliery is still shown to be heavily worked. Approximately 500m to the east of the Abercrave Colliery an 'Old Tramway' is shown. The tramway links a selection of 'Old Levels' and a singular 'Air Shaft' to the Neath and Brecon Railway (Junction Line). These workings are not named and are not shown on the mapping from 1876/77. The Gwaunclawdd Colliery is now shown in a new location approximately 500m to the east of the original location. The original site now contains an 'Old Shaft' and an 'Old Quarry'.<br><br>The southern portion of the main site has remained relatively unchanged. However, a tramway is now shown to links a singular coal level to the Dulais Colliery (marked as "Drym Colliery"); an air shaft, believed to be associated with the coal level, is shown to the north of the level (see Figure 8).<br><br>The Onllwyn Colliery has expanded and moved location to be situated within the site boundary. The Dulais Colliery (marked as "Drym Colliery") is shown within the site boundary to the north of the Neath and Brecon Railway main line which still runs through the washery portion of the site. The tramway identified within the washery portion of the site on the 1877 mapping is still present. A selection of 'Old Coal Levels', 'Old Quarries' and an 'Old Coal Pit' (all not shown on the 1877 mapping) are now present. |
| 1914 Historical Maps | The Abercrave Colliery is shown to have expanded eastwards with a new tramway linking to new drift mine located approximately 400m to the east of the main colliery site. The 'Old Tramway' linking to the 'Old Levels' and 'Air Shaft' identified on the 1901/03 mapping is no longer present. The 'Glynllech Colliery' is now shown immediately to the east of the 'Old Levels' with an associated tramway spurring from |

| Source | Notable features and alterations |
|---|---|
| | the colliery in a north-eastern direction linking to the Neath and Brecon Railway (Junction Line).<br><br>The tramway identified in the southern portion of the main site is no longer present. The remainder of the southern half of the site has remained unchanged.<br><br>The 'Drym Colliery' is now marked as the 'Dulais Colliery' and has grown considerably with multiple structures located to the north of the Neath and Brecon Railway. The majority of the washery portion of the site has remained unchanged. |
| 1945 Aerial Photographs | Extensive earthworks and stockpiles are shown to be surrounding the collieries along the northern boundary of the site (Abercrave, International, Gwaunclawdd and Glynllech).<br><br>Two distinct areas containing a number of depressions in the ground surface are shown on the aerial photograph in the southern portion of the site. These areas are in the same location as the coal levels and air shafts identified on the 1876/77 historical mapping sets. The frequency of the depressions is indicative of 'bell pitting' extraction methods refer to Figure 12 Extract from 1945 aerial photography showing potential 'bell pitting'<br><br>2 within Section 9.3.<br><br>The washery portion of the site is shown to have been developed with numerous rail tracks spurring from the Onllwyn Station in an easterly direction. The tramway identified on earlier historical sources is still present. A number of large stockpiles/spoil heaps are shown to be present within the washery portion of the site and to the west of the Onllwyn Colliery. |
| 1948 Historical Maps | The Glynllech Colliery is still shown however the tramway linking the colliery to the Neath and Brecon Railway (Junction Line) is no longer present; this suggests that the colliery is no longer operational. The Abercrave and International Colliery footprints have reduced in size and much of the interlinking rail tracks and tramways are no longer shown. The Gwaunclawdd Colliery is no longer shown.<br><br>No changes noted within the southern portion of the main site.<br><br>The Dulais Colliery is now labelled as disused and all the coal mining related infrastructure associated with the colliery that was previously shown is no longer present. The Onllwyn Colliery is still present. A 'Brickworks' is shown to be present within the washery portion of the site. The brickworks is located to the south of the existing rail tracks and assumed 'Washery' infrastructure. An 'aerial ropeway' is shown within the site and is believed to be associated with the spoil heaps shown to be present within the washery portion of the site. |
| 1951 Aerial Photographs | The Abercrave and International Collieries are shown to be present and the area of land previously occupied by the Gwaunnclawdd Colliery has been completely cleared of coal mining infrastructure; the only evidence of the colliery that remains are the earthworks located immediately to the south. The Glynllech Colliery is no longer shown. |

| Source | Notable features and alterations |
|---|---|
| | The first evidence of opencast coal mining activity is shown to be present within the southern half of the main portion of the site. These workings appear to have been recently filled are anticipated to be the original Onllwyn opencast site. The workings are shown to intersect the "Old Tramway" identified on the 1876/77 historical mapping; two sections of cuttings along the tramway alignment appear to have been filled with spoil which anticipated to have arisen from two of the opencast sites shown. The Onllwyn opencast sites shown appear to coincide with the locations of the "dimpling" noted from the 1945 photography; as a result, the "dimpling" (possible bell pitting extraction) is no longer shown on the 1951 photography. |
| 1965 Historical Maps | The Abercrave Colliery is still shown on the map, however many of the levels and drifts are labelled as 'disused' and the majority of rail and tramway infrastructure is no longer present.<br><br>The infrastructure within the washery portion of the site has increased in size and the plan extent of the stockpiles/spoil heaps in the east has grown. |
| 1975 Aerial Photographs | The land previously occupied by the numerous collieries located along the northern boundary of the site appears to have been completely reprofiled with no evidence of the collieries, or the worked land immediately to the south of the collieries, present. This is believed to be the result of the Abercrave/Gwaunton opencast coal mine (refer to Section 9.5).<br><br>Evidence of earthworks associated with the construction of the A4221 are shown to be located along the north-eastern boundary of the main portion of the site. |
| 1977 Aerial Photographs | A large opencast coal mine is shown to be present in the eastern half of the main portion of the site. This opencast site is anticipated to be the second Onllwyn opencast site and covers a much greater plan area than the original workings. The land to the southwest of the opencast site is covered with numerous stockpiles/spoil heaps. The A4221 is shown to have completed construction and borders the north-eastern boundary of the site.<br><br>The Onllwyn Colliery is no longer shown to be present. A large stockpile is now shown to occupy the original colliery site. The Neath and Brecon Railway line is still present and links to an extensive network of sidings which spur eastwards into the washery portion of the site. The washery has increased in size and the numerous pond features, shown on the most recent aerial imagery, are now present. The area of land to the east of the washery appears to be in the process of being filled with numerous stockpiles/spoil heaps present. |
| 1985 Aerial Photographs (Colour) | A distinct area of darker land is shown along the northern boundary of the site. This is anticipated to be associated with the backfilling of the Abercrave/Gwaunton opencast site; extensive forestry planting operations appear to have taken place within the areas which have been backfilled.<br><br>The larger Onllwyn opencast site is shown to have been backfilled with numerous man-made drainage features shown to be present across the surface. |
| 1987 / 1988 Historical Maps | The northern half of the main portion of the site is shown to be covered with forestry. A collection of disused levels and drifts are shown to be present. These are likely to |

| Source | Notable features and alterations |
|---|---|
| | have been associated with the Glynllech Colliery. The Onllwyn opencast site is labelled as disused workings.<br><br>No other major observable changes are shown with regards to the south of the main portion of the site or within the washery portion of the site. |
| 1989 Aerial Photographs | The main site compound is shown to be present centrally located within the main portion of the site. The first evidence of the Nant Helen opencast workings are shown to be present immediately to the west of the site compound. To the west of the opencast workings the "layer cake" overburden storage area is being formed; it is likely that the layer cake was formed with arisings from the original Nant Helen opencast workings.<br><br>Numerous pond features are present along the southern face of the overburden storage area and along the eastern and western edges of the Nant Helen opencast excavation. From review of the Site Context figure provided by Celtic Energy, see Appendix H, these pond features are labelled as water treatment areas. |
| 1995 Aerial Photographs (Colour) | The Nant Helen opencast excavation has progressed northwards with the existing void having been backfilled. The large overburden storage area, now located to the southwest of the opencast workings, is shown to have been completed to its present extent. |
| 2006 Aerial Photograph (Colour) | The Nant Helen Extension opencast coal mine is shown to extend westwards from the Nant Helen opencast coal mine identified in the 1989 and 1995 aerial photographs. The original Nant Helen opencast void appears to have been filled and the surface is now covered with numerous stockpiles. An access track runs westward through the stockpiles from the site compound to the Nant Helen Extension workings in the west.<br><br>The site of the original Nant Helen opencast appears to have been restored with a collection of small pond features and areas of vegetation present |
| 2009 Aerial Photograph (Colour) | The Nant Helen Extension opencast coal mine has grown westwards and the original extent has now been partially backfilled with what appears to be site-won material. No other major changes are noted between the 2006 and 2009 aerial photographs. |
| 2019 Online Aerial Imagery | The Nant Helen Extension opencast is shown to have reached its maximum extent. The extent of excavation shown on the 2006 aerial photograph has been backfilled and the majority of the 2009 extent has been partially filled with batter slopes falling westward into the open excavation.<br><br>The 'washery' portion of the site is shown to contain a varied array of coal processing infrastructure with a limited network of rail lines running along an east to west alignment towards the north of the site. The land to the north and east appears to be artificially raised industrial scrubland with minimal vegetation cover. The land to the south of the washery has a higher degree of vegetation. |

## 4.1 Summary

Although certain areas, particularly the area close to southern boundary of site, have been left relatively undeveloped, the majority of the site is shown to have been impacted by extensive coal mining activity. These activities include both

surface and sub-surface workings and have been identified from the earliest historical mapping to the present day.

Several historical collieries have been identified along the northern and southern boundaries of the site. The majority of the collieries were located on the lower slopes of Mynydd Drum and workings were accessed via both drifts and vertical shafts. The Abercrave and Gwaunclawdd Collieries were present on the earliest historical mapping from 1876/77 and the last evidence of the collieries disappeared following the absence of the Onllwyn Colliery on the 1977 aerial photography (refer to Section 9.4 for greater detail regarding underground mining).

The first evidence of opencast workings was identified on the 1951 aerial photography which showed workings believed to be associated with the first Onllwyn opencast site. The subsequent aerial photographs show evidence of the second Onllwyn, the Abercrave/Gwaunton, the Nant Helen and the Nant Helen Extension opencast sites. The depth and extent of the opencast sites appears to have increased from the shallow workings associated with the first Onllwyn opencast site to the deepest workings associated with the Nant Helen Extension works which are shown on the present day online aerial imagery.

Various rail tracks and tramways are shown to have crossed through and run along the boundaries of the site. The earliest of which was marked as an ‘Old Tramway’ on the historical mapping from 1876/77; from a review of information presented on the Transport Trust [19] and Forest Ffawr online sources [20], this tramway is believed to have formed part of the “Brecon Forest Tramroad”. The section that passes through the site was known as “Claypon’s extension” and was constructed circa 1827. The tramroad is a historically significant site and is a scheduled ancient monument alternatively known as “Tramroad at Ystradgynlais”.

A selection of other short tramways are shown to have been present within the site linking collieries like the Glynllech Colliery to the Neath and Brecon Railway (Junction Line).

The washery portion of the site has contained rail tracks/sidings and tramways since the earliest historical mapping and as the opencast coal mining activity increased towards the end of the 20$^{th}$ century the extent of coal mining washery infrastructure and stockpile/spoil heaps also increased.

# 5 Published Geology

The geology beneath the site has been interpreted through a review of published geological sources. These sources include the BGS 1:10,560 geological mapping (sheet SN 81 SW) [1], the BGS 1:50,000 geological mapping (Sheet 231) [2] and the BGS GeoIndex online viewer [3]. Refer to Figure 5 and Figure 6 throughout.

## 5.1 Made Ground

A region of artificial ground is shown to be present in the north of the site; based on review of documents provided by Celtic Energy, this is anticipated to be made ground associated with the backfilling of the Abercrave/Gwaunton opencast coal mine (refer to Section 9.5 for greater detail).

Although not shown on published geological sources, based on the known extent of opencast coal mining across the site, backfill made ground is anticipated to be encountered beneath much of the proposed track route. Based on observations made during the site walkover the material excavated during mining are generally granular (see Photographs 3, 4, 5 and 6).

## 5.2 Drift (Superficial Deposits)

Geological mapping of superficial deposits at 1:50,000 scale shows that the site is predominantly void of superficial material with only localised areas to the west and south of Devensian Till and an area of peat located centrally within the site. Deposits of Devensian Till and peat are also shown to be present beneath a small section of the washery portion of the site. The Devensian Till is noted to be of glacial origins and is labelled as boulder clay on the 1:10,560 geological map. Glacial till typically comprises a heterogenous mixture of clay, sand and gravel with large cobble and boulder inclusions of various size and shape (diamicton). The 1904 geological memoir for sheet 231 describes the glacial till deposits within the Dulais valley *"…Old Red* (sandstone) *in a stiff bluish matrix* (clay)*"* [4]. Peat typically comprises a partially decomposed mass of vegetation that has grown under anaerobic conditions, usually found in bogs or swamps.

It should be noted that the area of glacial till identified to the west of the site coincides with the known extent of the Nant Helen Extension opencast site (refer to Section 9.5). It is therefore likely that these deposits are no longer present and will have been incorporated within the extensive 'overburden storage areas' formed from the surplus material excavated during opencast mining activity.

The area of peat shown in the centre of the site is also unlikely to be present due to the fact that the plan extent of the peat coincides with the Nant Helen opencast site. It is not known whether these peat materials were stockpiled on site of disposed of offsite.

Given the location shown, the area of glacial till shown to the south is unlikely to have been impacted by the earthworks associated with opencast activities and is therefore likely to remain present.

The geological map shows glacial till deposits to be present in the eastern end of the washery portion of the site. Peat deposits are shown to encroach into the north of the washery site, but it is considered likely that these materials would have been removed from beneath developed areas.

## 5.3 Solid (Bedrock)

The majority of the site is underlain by solid geology of the South Wales Middle Coal Measures Formation. The remainder of the site is shown to be underlain by South Wales Lower Coal Measures Formation. The South Wales Coal Measures generally comprise rhythmic sequences of mudstones (commonly containing pyrite), siltstones, sandstones, grits, fireclays, seatearths and coals; the coals found in these measures tend to be amongst the thickest and most economically significant in South Wales. According to the geological memoir (Sheet Memoir 231) from 1988, nodular masses of pyrite, up to 0.15m thick, are often present within the Middle and Lower Coal Measures formations [5].

The Middle and Lower Coal Measures reach their maximum thickness of around 900m in the Swansea district and decrease in thickness towards the northeast and east with a thickness of around 425m near Merthyr Tydfil [5]. Based on the location of the site, and assuming a linear reduction in thickness, the thickness of the Middle and Lower Coal Measures Formations beneath the site is anticipated to be to the order of 700m.

Based on review of dip angles presented on the 1:10,560 geological mapping, the solid geology is anticipated to Have a regional dip in a west south-westerly direction at angles ranging from between $5^{o}$ and $15^{o}$ [1]. The sequence is folded with a syncline and anticline indicated to be present beneath the site and as a result of which the bedding dip angles will vary in these locations. Within the South Wales Coal Measures, there is the potential for instability within rock cuttings as a result of planar failure along bedding plans of weaker beds such as seatearths.

## 5.4 Linear Features

Five faults, three of which are named, have been identified to cross the site from review of published geological mapping. All of the faults are roughly aligned along a NNW to SSE alignment.

Refer to Figure 6 and Figure 11 throughout.

The easternmost fault, the Glyncorrwg Fault, is shown to pass through the washery portion of the site. The cross-mark on the 1:10,560 geological mapping indicates that the fault downthrows to the west [1]; the geological memoir for sheet 231 from 1904 suggests that the Glyncorrwg Fault has a downthrow of *"forty yards"* (~36.6m) [4]. Moving westwards, there is an unnamed fault (potentially associated with the Glyncorrwg Fault) which crosses into the eastern half of the main portion of the site that is also indicated to be downthrown to the west. The Chapel Fault is shown to cross through the eastern half of the site and is indicated to be downthrown to the east; the geological memoir for sheet 231 from 1904 suggests that the Chapel Fault is downthrown *"sixteen yards"* (~14.6m) eastwards [4].

To the west of the Chapel Fault is the Pwllau Bach Fault. The alignment of the Pwllau Bach Fault splits the main portion of the site roughly down the middle and

downthrows to the west. The downthrow is stated to be as much as *"eighty yards"* (~73.2m) within the 1904 geological memoir [4].

The Glyncorrwg, Chapel and Pwllau Bach Faults form part of a horst and graben formation which is shown to be located beneath the eastern half of the site. The final fault shown to cross into the site is also unnamed. The fault crosses into the north-western most corner of the main portion of the site and downthrows to the east.

Numerous coal seams are shown to outcrop within the boundary of the site. A review of the coal resource shown to be present beneath the site and the associated mining activities, both surface and sub-surface, is provided in Section 9 which focuses on mining.

# 6 Ground Conditions

The anticipated ground conditions beneath the site have been interpreted through review of borehole and trial pit logs from previously undertaken ground investigations. The logs have been sourced from information provided by Celtic Energy and BGS borehole scans accessed from the BGS online GeoIndex. The logs reviewed are provided within Appendix C and Appendix D.

The stratigraphy noted on each log is presented in Table 2 below before a summary of the anticipated ground conditions is provided. For the approximate locations of the borehole logs reviewed refer to Figure 5.

Table 2 – Borehole Logs from previous Ground Investigations

| Reference | Stratigraphy (m bgl) | Groundwater |
|---|---|---|
| Completion plan vertical sections | | |
| Onllwyn [1] (1949) | GL @ 261.2m AOD<br>Base of Nine Feet Seam @ 258.0m AOD – Coal Seam (3.2m bgl)<br>Base of Brass Seam @ 249.3m AOD – Coal Seam (11.9m bgl) | No groundwater remarks noted |
| Onllwyn [1] (1982) | GL @ 247.4m AOD<br>Base of Upper Peacock @ 242.3m AOD – Coal Seam (5.1m bgl)<br>Base of Peacock @ 232.5m AOD – Coal Seam (14.9m bgl)<br>Base of Bluers @ 198.4m AOD – Coal Seam (49m bgl) | No groundwater remarks noted |
| Nant Helen Geotechnical Boreholes [2, 3] | | |
| BH 2002 (1986) | GL @ 278.2m AOD<br>GL – 0.5: Peat<br>0.5 – 2: Clay<br>2 – 3.1: Till<br>3.1 – 3.4: Mudstone<br>3.4 – 3.5: Coal<br>3.5 – 5: Mudstone | No groundwater remarks noted |
| BH 2005 (1986) | GL @ 280.6m AOD<br>GL – 0.5: Peat<br>0.5 – 3.6: Till<br>3.6 – 4.5: Sandstone<br>4.5 – 4.75: Siltstone<br>4.75 – 6.8: Mudstone | No groundwater remarks noted |
| BH 2008 (1986) | GL @ 279.3m AOD<br>GL – 0.5: Peat | No groundwater remarks noted |

| Reference | Stratigraphy (m bgl) | Groundwater |
|---|---|---|
| | 0.5 – 1.0: Clay<br>1.0 – 3.6: Till<br>3.6 – 5.4: Mudstone | |
| BH 2009 (1986) | GL @ 282.5m AOD<br>GL – 0.45: Peat<br>0.45 – 1.45: Clay<br>1.45 – 3.7: Till<br>3.7 – 5.7: Mudstone | No groundwater remarks noted |
| BH 2010 (1986) | GL @ 277.2m AOD<br>GL – 0.2: Peat<br>0.2 – 1.05: Clay<br>1.05 – 2.4: Till<br>2.4 – 4.2: Mudstone<br>4.2 – 7: Siltstone<br>7 – 7.5: Sandstone | No groundwater remarks noted |
| BH 2011 (1986) | GL @ 271.7m AOD<br>GL – 0.2: Peat<br>0.2 – 1.8: Clay<br>1.8 – 3: Mudstone<br>3 – 3.4: Siltstone<br>3.4 – 6.4: Mudstone | No groundwater remarks noted |
| BH 2013 (1986) | GL @ 263.4m AOD<br>GL – 0.5: Peat<br>0.5 – 1.5: Clay<br>1.5 – 3.5: Till<br>3.5 – 4.1: Mudstone<br>4.1 – 4.5: Unknown strata<br>4.5 – 5.9: Mudstone | No groundwater remarks noted |
| BH 2018 (1986) | GL @ 253.0m AOD<br>GL – 1.6: Peat<br>1.6 – 2.6: Clay<br>2.6 – 3.6: Till<br>3.6 – 5.7: Mudstone | No groundwater remarks noted |
| BGS Borehole Scans | | |
| SN81SW30 (1989) | GL @ 236.48m AOD<br>GL – 6: MADE GROUND: Loose to medium dense black sand and gravel mudstone with coal in a black silty clay matrix (colliery waste)<br>6 – 7: MADE GROUND: Soft grey brown mottled orange and black silty clay with much gravel of weathered sandstone and mudstone<br>7 – 8.05: Grey highlight to completely weathered silty MUDSTONE very weak laminated and micaceous<br>8.05 – 8.65: Dark grey IRONSTONE with some SILTSTONE<br>8.65 – 8.9: Light grey slightly to moderately weathered fine SANDSTONE, strong massive to occasionally cross laminated<br>8.9 – 9.6: Grey and light grey interlaminated moderately weathered silty MUDSTONE and sandy SILTSTONE, moderately weak occasional grey sandstone bands<br>9.6 – 11: Grey moderately weathered silty to very silty MUDSTONE, moderately weak<br>11 – 11.95: Dark grey slightly weathered silty SANDSTONE, weak. Thin sub horizontal laminations<br>11.95 – 14.2: Dark grey slightly weathered very slightly silty MUDSTONE moderately weak to weak laminated. Becoming very carbonaceous with depth.<br>14.2 – 15.03: Vitreous COAL<br>15.03 – 16.08: Dark grey to grey slightly weathered silty MUDSTONE, moderately weak many carbonaceous plant remains | Groundwater level ranging between 3.45m and 7.2m bgl during drilling |

| Reference | Stratigraphy (m bgl) | Groundwater |
|---|---|---|
| | 16.08 – 19.7: Light grey slightly weathered clayey SILTSTONE moderately weak with occasional bands of thinly laminated silty mudstone.<br>19.7 – 21.65: Light to dark grey slighty weathered fine and medium SANDSTONE, strong massive with occasional cross bedding<br>21.65 – 22.3: Grey slightly weathered silty fine SANDSTONE moderately weak thin sub horizontal laminations very occasional plant remains and occasional sub vertical joints<br>22.3 – 25: Dark grey/black slightly weathered slightly silty MUDSTONE moderately to very weak. Often highly fragmented, often highly carbonaceous with occasional plant traces and occasional slickenside on joint surfaces<br>25 – 30: Open hole; Dark grey MUDSTONE | |
| SN81SW36 (1989) | GL @ 237.2m AOD<br>GL – 3.2: MADE GROUND: Medium dense black sands and gravel of carbonaceous silty mudstone and coal with occasional black silty clay matrix<br>3.2 – 3.4: Firm brown organic CLAY with many rootlets and some peat<br>3.4 – 5.8: Firm to stiff grey brown mottled orange and black silty sandy CLAY with much gravel and occasional cobble of sandstone and mudstone and occasional coal fragments<br>5.8 – 6.7: Firm grey brown silty clay with mudstone fragments<br>6.7 – 7.2: Grey brown highly weathered silty micaceous MUDSTONE weak laminated and fragmented some iron staining<br>7.2 – 9: Grey moderately to slightly weathered SILTSTONE moderately weak laminated sub horizontal to massive iron staining on 45º joint planes<br>9 – 11.59: Grey moderately weathered slightly silty MUDSTONE weak often highly fractured<br>11.59 – 12.4: COAL with 45-60º slickensided joint surfaces<br>12.4 – 13: Grey slightly weathered silty MUDSTONE moderately weak massive many carbonaceous plant remains<br>13 – 18: Grey slightly weathered SANDSTONE and MUDSTONE<br>18 – 23: Dark grey slightly weathered SILTSTONE | Seepage of groundwater noted at 3.2m bgl at the base of the made ground<br><br>Groundwater level ranging between 3.5m and 6.4m bgl during drilling |
| SN81SE4 (1977) | *GL not provided*<br>GL – 0.6: MADE GROUND: Stiff grey/brown stony clay with sandstone cobbles<br>0.6 – 3.9: MADE GROUND: Firm dark grey silty clay with coal fragments<br>3.9 – 5: Stiff brown and grey mottled sandy CLAY with mudstone fragments | Groundwater struck at 1.5m bgl which rose to 1.3m bgl after 10 minutes |
| SN81SE5 (1977) | *GL not provided*<br>GL – 0.2: Topsoil<br>0.2 – 0.5: MADE GROUND: Clay with coal wood and stones<br>0.5 – 1.5: MADE GROUND: Firm brown and grey mottled silty clay with sandstone and coal fragments<br>1.5 – 2.6: MADE GROUND: Stiff brown mottled silty clay with sandstone and coal fragments<br>2.6 – 3: MADE GROUND: Stiff dark grey shaly clay with coal fragments<br>3 – 4: Very stiff brown grey shaly CLAY with large angular sandstone fragments | Borehole dry |
| SN81SE6 (1977) | *GL not provided*<br>GL – 0.1: Topsoil<br>0.1 – 0.7: MADE GROUND: Coal and clay<br>0.7 – 2.5: MADE GROUND: Firm grey/brown sandy stony clay with mudstone fragments and disseminated coal particles<br>2.5 – 4: Stiff grey/brown sandy stint CLAY with mudstone and large sandstone fragments | Groundwater struck at 3.0m bgl. Standing water level was measured at 1.6m bgl. |
| SN81SW37 (1991) | *GL not provided*<br>GL – 0.8: Firm orange silty sandy CLAY with some fine and medium angular mudstone gravel and occasional coarse gravel and cobbles of sandstone | Slight groundwater seepage at 1.0m bgl within mudstone |

| Reference | Stratigraphy (m bgl) | Groundwater |
|---|---|---|
| | 0.8 – 1.9: Highly weathered grey and orange laminated MUDSTONE, very weak. Generally recovered as angular gravel size fragments in a clay matrix | |
| SN81SW38 (1991) | *GL not provided*<br>GL – 0.6: MADE GROUND: Grey shale and coal fragments with occasional brick and clinker<br>0.6 – 1.1: Firm grey and orange silty sandy CLAY with occasional fine gravel<br>1.1 – 1.8: Dark grey completely weathered MUDSTONE, recovered as clay with very occasional very weak mudstone lithorelicts<br>1.8 – 2: Highly weathered grey and orange laminated MUDSTONE, very weak. Generally recovered as angular gravel size fragments in a clay matrix. | Trial pit was dry throughout |
| SN81SW39 (1991) | *GL not provided*<br>GL – 0.25: MADE GROUND: Grey shale fragments with occasional gravel<br>0.25 – 0.45: Stiff orange and grey silty sandy CLAY with occasional fine sandstone gravel and occasional boulder<br>0.45 – 1.5: Grey and orange highly weathered laminated MUDSTONE, very weak. Recovered as gravel size fragments | Trial pit was dry throughout |

Notes

1. Detailed stratigraphy is not provided on the vertical sections shown on the opencast completion plans. Vertical sections have been reviewed to reveal the depth to coal seams.
2. The level of detail regarding 'Nant Helen Geotechnical Boreholes' is as presented on logs, refer to Appendix C. Logs reviewed to ascertain anticipated thicknesses of strata and depth to bedrock rather than for a detailed description of the materials encountered.
3. The boreholes appear to have been progressed in the same location as the large overburden storage area. Given the ground levels provided on the logs reviewed, it has been interpreted that these boreholes were progressed through the land currently underlying the large overburden storage area.

## 6.1 Interpretation

Made ground deposits are anticipated to be encountered beneath the majority of the proposed track route and within the washery portion of the site. The made ground backfill material anticipated to be present within the areas where opencast mining has been undertaken is likely to comprise gravel and cobble sized fragments of mudstone, siltstone and occasional sandstone.

Based on the descriptions provided in the logs reviewed, the made ground material anticipated to be encountered beneath the washery site is likely to comprise a mixture of varied granular backfill material within a cohesive clay matrix. The various gravel inclusions within the made ground were noted to be mudstone, sandstone, coal, clinker and wood. The thickness of this material is anticipated to range between 0.25m and 7m, although locally thicker deposits could be encountered in the locations of any stockpiles/spoil heaps within the washery site.

Natural superficial deposits of peat and glacial till are anticipated to be encountered beneath the southern portion of the site that has avoided opencast

activities and locally beneath the made ground materials anticipated to be encountered beneath the washery portion of the site.

In areas of the site that have not been subject to historical opencasting, peat deposits with thicknesses of circa 1-2m may be encountered. This material is anticipated to be soft/highly compressible and would need to be excavated and replaced with suitable earthworks fill or be subjected to ground improvement/treatment if it is encountered in the locations of proposed track alignment or the associated earthworks.

Glacial till deposits are also anticipated to be encountered in the locations that have not been subject to opencast mining activities within the main body of the site. The thickness of the glacial till material materials is likely to be limited (~3m) and discontinuous. No detailed descriptions of the glacial till material encountered were provided on the logs reviewed . Based on review of the published geological sources, glacial till typically comprises sand, gravel and cobble inclusions within a clay matrix.

Firm to stiff grey/brown clay with various mudstone, siltstone and sandstone gravel inclusions was encountered beneath the made ground deposits within the washery portion of the site. Based on the description and the published geological mapping, these materials are anticipated to be glacial till. Where encountered, the glacial till material beneath the washery portion of the site ranged between 0.2m and 2.4m thick. In some locations within the washery portion of the site, no natural superficial materials were encountered; in these locations the made ground material (described above) was encountered directly overlying the weathered bedrock.

As a result of the historical opencast workings within the site area, the depth to rockhead will vary greatly depending on location. Within the areas of the main site that have not been subject to opencast mining, the depth to rockhead is anticipated to be relatively shallow, with recorded depths ranging between 1.8m and 3.6m. However, in the locations that have been subject to opencast activity and have since been backfilled, the depth to rockhead could vary significantly over short distances (as detailed above). The bedrock material is anticipated to comprise interbedded mudstones and siltstones with occasional sandstone bands. The detailed descriptions from boreholes progressed within the washery portion of the site suggest that the mudstones and siltstones are slightly to moderately weathered and are moderately weak to strong. The materials are generally grey to dark grey in colour and occasionally micaceous. Where encountered close to surface, bedrock was recovered as highly weathered fragments of mudstone and sandstone within a clay matrix. Given this description, it is likely to be difficult to distinguish between the weathered head of bedrock and the overlying Glacial Till material.

From review of the vertical sections presented on the opencast completion plans for the Onllwyn site (1949), the base of the Nine Feet and Brass seams were encountered at 3.2m and 11.9m bgl ground level respectively. In addition, reference to the base of the Upper Peacock and Peacock seams were shown to have been encountered at 5.1m and 11.9m bgl respectively on the vertical section presented on the opencast completion plan for the Onllwyn site (1982). For

further detail regarding coal mining activity and the risk of shallow workings being present, reference should be made to Section 9 of this report.

Groundwater remarks were only provided on the logs reviewed within the washery portion of the site. The logs for the two deep boreholes reviewed within the washery portion of the site provided no indication of distinct groundwater strikes; however, the measured standing water level ranged between 3.45m and 7.2m bgl. Slight seepages and groundwater strikes were presented on the other logs within the washery portion of the site with some as shallow as 1.0m bgl. A detailed review of the groundwater beneath the site is provided in Section 8.3.

# 7 Hydrology

The hydrological features that pass through and surround the site have been identified through review of aerial online imagery and through review of the Groundsure EnviroInsight report (refer to Appendix E for the Groundsure report). The flow direction of the watercourses has been determined through interpretation of contours presented on the OS mapping covering the site area.

Figure 7 shows the location of identified hydrological features.

## 7.1 Watercourses

The site overlaps with three principal river catchments. The northern half of the main portion of the site sits within the Tawe catchment and contains several small unnamed streams which drain in a northerly direction towards the River Tawe. The River Tawe is the largest watercourse within the vicinity of the site and flows roughly from east to west approximately 500m to the north of the site boundary.

The Nant Llech, a tributary of the River Tawe, flows from east to northwest where it feeds into the Tawe and passes within 300m of the north-eastern site boundary. The Nant Llech is also an SSSI (refer to Section 10). A collection of small unnamed stream features to the northeast of the main portion of the site are shown to drain in a north-easterly direction towards the Nant Llech.

The southern half of the site sits within the Dulais catchment. The River Dulais flows roughly from east-northeast to west-southwest and runs through the washery portion of the site and along a portion of the south-eastern boundary of the main site.

The Nant Ystalwyn, a tributary of the Dulais, is shown to be fed by a selection of ponds which are located at the base of the large overburden storage area which is centrally located within the body of the main site. These ponds have been identified as water treatment areas and are fed by the drainage features present on the southern face of the large overburden storage area.

A collection of other tributary streams which originate within the central portion of the site flow in a southerly direction to their respective convergences with the River Dulais.

A small portion of the eastern half of the main portion of the site is shown to sit within the Pyrddin catchment. However, from review of OS mapping contours and the Groundsure EnviroInsight report, the drainage features within this portion of the site are anticipated to contribute to flows within the Dulais and not the Pyrddin (located ~1km to the east of the eastern site boundary). The drainage features identified appear to be man-made and initially flow in an easterly direction. Once they pass beneath Onllwyn Road the direction of flow turns south-westwards and runs parallel to the Onllwyn Road before feeding into a collection of ponds within the washery portion of the site. These ponds are located at the apparent source of the River Dulais and based on contours in the area are likely to feed into the flows within the Dulais.

One unnamed stream is shown to be located to the south of the washery portion of the site. From review of information presented within the Groundsure EnivoInsight report, this stream flows in an easterly direction before being culverted beneath the A4109 that borders the washery site to the south. The stream is then shown to re-emerge within the washery site before passing through another culvert beneath a section of the washery site. The stream eventually converges with the Camnant which in turn is a tributary of the Pyrddin.

As shown on the 'Site Context' figure provided by Celtic Energy (refer to Appendix H), several small pond features are shown to be located within the boundary of the site. Most of these appear to be 'water treatment areas', refer to Figure 7.

Through consultation with Celtic Energy it is understood that the easternmost water treatment area comprises ponds which are lined with a plastic liner. The water treatment areas that lie at the southern base of the large overburden storage area were constructed in 'virgin ground' and are possibly clay lined/sealed; if un-lined, it is likely that water is retained within these features due to the cohesive nature of the glacial till likely to be present in the area.

In addition to the water treatment areas, a collection of pond features are shown to be present in the area of 'restored land' above a portion of the Nant Helen opencast workings. It is understood that these ponds are an attempt to re-naturalise and create an ecological habitat post backfilling and are possibly lined with low permeability/cohesive materials.

# 8 Hydrogeology

This section of the report provides details on the anticipated hydrogeological regime beneath the site. Published hydrogeological sources have been reviewed alongside the Groundsure Report purchased for the site and data provided by Celtic Energy regarding groundwater levels beneath the site.

## 8.1 Hydrogeological Mapping

The information presented below has been based on review of the BGS 1:125,000 Hydrogeological Map of South Wales [6].

### 8.1.1 Drift (Superficial Deposits)

Till is a variable deposit of boulder clay and morainic drift. The principal lithology is unsorted stones of gravel, cobble and boulder within a silty clay matrix; however, in places lenses and more continuous bands of stratified sand and gravel are anticipated to be present. These predominantly granular lenses can act as localised perched aquifers however the main hydrogeological significance of till deposits is in limiting recharge to, and confining water within, underlying formations.

### 8.1.2 Solid (Bedrock)

The coal measures likely to be encountered beneath the site comprise rhythmic sequences of mudstones, siltstones, sandstones, grits, fireclays and coals. The South Wales Upper Coal Measures Formation (not shown to be present beneath the site) is known to contain large quantities of groundwater and form a multi-layered aquifer system with separate water bodies found within each sandstone horizon. The Middle and Lower Coal Measures (shown to be present beneath the site) tend to have lower porosities than the overlying Upper Measures with the highest values of porosity occurring in areas of intensive folding and faulting. However, the extensive disturbance and subsidence caused by mining in the South Wales region has resulted in hydraulic conductivity between the sandstone horizons comprising the South Wales Upper Coal Measures Formation and, locally, hydraulic conductivity exists between the Upper and Middle/Lower Coal Measures Formations.

The groundwater within the Middle and Lower Measures tends to contribute towards baseflow of rivers and usually emerges as springs at the bases of the subordinate sandstones. Groundwater yields from the Middle and Lower Coal Measures rarely exceeds 1l/s.

## 8.2 Aquifer Designations

The aquifer designations of the various geological strata identified to be present beneath the site have been ascertained through review of the Groundsure EnviroInsight report (refer to Appendix E).

The glacial till deposits shown to be present in the southern and western portion of the site are designated as a ‘Secondary Aquifer’. A ‘Secondary Aquifer’ designation is attributed to a stratum where it has not been possible to differentiate between a ‘Secondary (A)’ or ‘Secondary (B)’ designation. A ‘Secondary (A) Aquifer’ refers to a stratum defined as *“permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers”*. Whereas, a ‘Secondary (B) Aquifer’ refers to a stratum defined as *“predominantly lower permeability layers which may store and yield amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering”*. As identified on the hydrogeological mapping, granular lenses of sands and gravels within glacial till deposits can occasionally act as aquifers however, due to the cohesive nature of clays that are typical of glacial till, till deposits predominantly limit recharge to

and confine groundwater within underlying permeable stratum. It is therefore unlikely that the glacial till deposits located to the south of the site will form part of a large aquifer.

The deposits of peat shown to be present within the site are designated as 'unproductive strata'. Unproductive strata are defined as *"rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow"*.

The South Wales Coal Measures Formations (both Middle and Lower) shown to be present beneath the entirety of the site are both designated as 'Secondary (A) Aquifers' which are as defined above.

No principal aquifers are located beneath the site.

### 8.2.1 Abstraction Licenses

From review of the Groundsure EnviroInsight report, a singular groundwater abstraction license pertaining to a groundwater abstraction point ~800m to the northeast of the north-eastern boundary site is present. According to the date within the Groundsure report, this groundwater abstraction license is no longer active and the water abstracted was used for 'General Farming and Domestic' purposes.

However, it should be noted that opencast dewatering operations are known to be in operation which will be artificially lowering the groundwater level in the vicinity of the Nant Helen Extension opencast site.

A total of eight surface water abstraction licenses are held within a 700m radius of the northern boundary of the site. Six of these licenses pertain to abstraction points along the River Tawe or unnamed tributaries of the Tawe and are all designated as 'historical' suggesting that the licenses are no longer in effect. The remaining two surface water abstraction licenses pertain to two abstraction points from a reservoir at Gwaunclawdd Farm (not covered on the figures). These are also noted as 'historical' which suggest the licenses are no longer in effect.

## 8.3 Groundwater Levels

The groundwater levels beneath the site have been interpreted through review of ground investigation logs held by the BGS and through review of documents provided by Celtic Energy. It should be noted that the groundwater data presented on the logs held by the BGS is limited in nature and only pertains to the washery portion of the site.

Groundwater remarks presented on the BGS logs reviewed suggests that the groundwater level within the washery portion of the site sits between 3.45m and 7.2m below ground level. Shallower strikes and slight seepages were also noted as shallow as 1.0m bgl.

No indication of groundwater strikes were provided on the logs reviewed within the main body of the site. However, within the Environmental Statement submitted for the expansion of the Nant Helen Extension opencast site in 2011,

details regarding groundwater levels in the locale of the opencast area were provided (refer to Appendix H). It should be noted that these boreholes were not located within the boundary of the site.

Extensive exploratory drilling was undertaken by British Coal in the late 1990s in the location of the Nant Helen Extension opencast. It should be noted that these boreholes are located to the west of the western site boundary and do not pertain to the site directly. The boreholes were progressed through the known workings within the "Nine Feet" and "Brass" seams and the water levels within each were recorded. The groundwater level within these workings was recorded to be standing at approximately 126m AOD beneath the easternmost extent of the Nant Helen Extension opencast site and approximately 100m AOD at the westernmost extend of the Nant Helen Extension opencast site (refer to Appendix H). Based on current LiDAR elevation data, this would put the groundwater level between ~170m below current ground level (east) and ~50m below current ground level (west); the disparity in these levels is due to the existing Nant Helen Extension void in the west and the overburden storage area to the east.

These levels are corroborated by two piezometers which were also installed by British Coal during the ground investigation in the 1990s. These piezometers indicate that the groundwater level to the west of the Nant Helen Extension site was between 109m AOD and 99m AOD (refer to Appendix H).

Through consultation with Celtic Energy, it has been determined that current dewatering operations within the Nant Helen Extension opencast site aims to maintain the water levels at approximately 100m AOD. As highlighted in the Environmental Statement for the Nant Helen Extension opencast, the lowest projected level of excavation within the Nine Feet seam could be as low as 76m AOD (refer to Appendix H). As dewatering would be required to reach this depth, it is likely that the groundwater level would be locally reduced to a similar level. Post completion of opencast excavation in the area it is possible that the groundwater levels will re-bound to a similar level that was encountered within the boreholes progressed during the British Coal ground investigation in the 1990s (between ~100m AOD and ~120m AOD).

In addition, there are numerous adits that allowed access to workings within the Nine Feet and Brass seams to the west of the site. The lowest of which, the Cwm Du adit, underdrains the opencast workings within the Nant Helen Extension site. The Cwm Du adit has an invert level of 93.6m AOD where it discharges to the River Tawe (refer to Appendix H).

The hydrogeological regime beneath the site is anticipated to be complex and highly varied across the site. As highlighted in the 2011 Environmental Statement, there is evidence that the Nant Helen Extension site is under-drained by existing adits. This is likely to also be the case for the other areas of opencast working which have excavated through underground workings in the past; the groundwater levels within these regions is likely to be heavily dependent on the outflow capacity of the adits and secondary permeability of the underlying bedrock. In order to gain an appreciation for the groundwater levels in the various areas of opencast, identification of the likely under-draining adits (potentially through review of a comprehensive set of mine abandonment plans and/or a future site

visit) coupled with deep intrusive ground investigation including subsequent groundwater monitoring would likely be required.

It should also be noted that there are numerous surface water features that appear to originate within the site, particularly in the southern half. The levels (~250m AOD) of the ponds and the headwaters of the streams are unlikely to represent an overall piezometric surface for the site and instead are likely to represent locally perched groundwater controlled by areas of geology with low permeability (e.g. shallow impermeable bedrock or cohesive superficial deposits (both natural and made ground)).

# 9 Coal Mining

The entirety of the proposed site is situated within a Coal Authority 'Development High Risk Area'. A 'Development High Risk Area' is defined as an *"area which contains one or more recorded coal mining related features which have the potential for instability or a degree of risk to the surface from the legacy of coal mining operations"* [8]. These *"features"* typically include mine entries (shafts and adits) and shallow coal workings (recorded and probable).

New development in areas defined as high risk needs to demonstrate that the development will be safe and stable taking due account of former coal mining activities. This section of the report aims to highlight the particular features and constraints associated with mining activities in the area and identify 'risk zones' along the proposed route where the risk of subsidence on account of shallow workings is considered greatest. The features and risk zones are marked on Figures 8 and 9 which should be referred to throughout.

The sources reviewed during the preparation of this report are presented in Section 2 above; however, with regards to the information presented in this section of the report it should be noted that the basis of many of the findings is sourced from primary data sources such as BGS geological plans (various scale ranges), historical mapping sets and historical aerial imagery. The findings presented within the primary data sources have then been supplemented with data from secondary sources such as Coal Authority data and records provided by Celtic Energy.

## 9.1 Outcrops

As identified in the Published Geology section above, the site is primarily underlain by South Wales Middle and Lower Coal Measures Formations. Numerous coal seam outcrops associated with the aforementioned formations, both observed and inferred, have been identified from review of BGS published geological sources (refer to Figure 6). It should be noted that there is a discrepancy between the seam outcrops shown on the BGS published geological mapping and the seam outcrops shown on the Coal Authority online viewer. As the BGS published geological mapping is considered to be the primary data source, the locations of the seam outcrops shown on the BGS published geological mapping have been assumed to take precedence within this report.

The site is roughly split in half by the Pwllau Bach Fault along a north to south centrally located axis. Significant outcropping of seams within the South Wales Middle Coal Measure Formation is shown to the west of the Pwllau Bach Fault on the published geological mapping sources. The "Soap" seam is shown to outcrop along an east to west alignment from the Pwllau Bach Fault in the east to the site boundary in the west. Moving down through the Middle Coal Measures sequence, with the outcrops progressing northwards, and following a similar alignment, are shown for the "Stwrin", "Rock", "Little", "Four Feet", "Nine Feet" and "Brass" seams. To the north of the "Brass" seam the outcrop of the Amman Marine Band is shown to be located which marks the boundary between the Middle and Lower Coal Measures Formations. No outcrops are shown in the southern portion of the site to the west of the Pwllau Bach Fault. This is likely due to the dip of the solid geology ($5^{o}$ – $15^{o}$, WSW – SW) shown on the 1:10,560 geological mapping and the similar dip of the topography also towards the southwest.

Between the Pwllau Bach Fault and the Chapel Fault, the observed and partially inferred outcrops of the "Nine Feet" and "Brass" seams are shown on the published geological mapping reviewed. The outcrops of both are shown to follow a north to south alignment before turning $90^{o}$ to run along an east to west alignment. To the south of the site within the bounds of the Pwllau Bach and Chapel faults, the inferred and partially observed outcrops of the "Cornish", "Lower Eighteen Feet" and "Stwrin" are shown to be present.

To the east of the Chapel fault (downthrow to the east) the "Nine Feet" and "Brass" seam outcrops are once again shown to be present within the site boundary. The alignments of both are shown as observed and are believed to have been mapped during the opencast mining activity located in the eastern half of the main portion of the site. The outcrops of the "Cornish" and "Stwrin" seams are shown to be located to the south of the site; the "Lower Eighteen Feet" outcrop is not shown to the east of the Chapel fault and instead the outcrops of the "Lower Four Feet" and "White Four Feet" seams are shown to be located between the outcrops of the "Cornish" (north) and "Stwrin" (south).

To the north of the Chapel fault in the north-eastern corner of the main portion of the site, the outcrops of the "Upper Bluers", "Middle", "Lower" and "Bryn" seams are shown to be present situated along an east to west alignment. An anticlinal axis is shown to manipulate the alignment of the "Upper Bluers" seam outcrop. All of these outcrops refer to seams located within the South Wales Lower Coal Measures Formation.

To the east of the Glyncorrwg Fault the inferred outcrops of the "Upper Bluers", "Grey" and "New" coal seams are shown to be present beneath the washery portion of the site. These inferred outcrops are shown to be situated along an approximate southeast to northwest alignment.

Through review of the BGS geological memoir for the site area (Sheet Memoir 231) and the Nant Helen old workings file provided by Celtic Energy, the anticipated sequencing of the seams within each formation has been determined and is presented in Table 3 below. In addition, from review of the various sources, inconsistency regarding naming of the various seams has been noted and so the other names (and deviations of the same seam, e.g. "Four Feet" and "Lower Four

Feet") associated with each seam are also noted in Table 3. Typical seam sections have been identified through review of the Nant Helen old workings file provided by Celtic Energy.

Table 3 – Interpreted coal seam sequencing

| Seam | Other names | Typical seam section |
|---|---|---|
| South Wales Middle Coal Measures | | |
| Soap | Two Feet-Nine | - |
| Stwrin | Two Feet-Nine | - |
| Four Feet | Upper Four Feet, Lower Four Feet, White Four Feet, White, Stwrin | 0.9m |
| Eighteen Feet | Lower Eighteen Feet, Six Feet, Black | - |
| Cornish | Red Vein, Two Feet | 0.76m |
| Harnlo | - | - |
| Nine Feet | Big | 2.7 – 3.0m |
| Brass | Bute, Peacock | 0.9 – 1.4m |
| South Wales Lower Coal Measures | | |
| Yard | Lower Peacock, Lower Brass | - |
| Bluers | Blewers, Upper Bluers, Lower Bluers, Seven Feet | 0.6 – 0.85m |
| Rhyd | Five Feet, Little Brass | 0.75m |
| Grey | Gellideg | 0.66m |
| Middle | Gellideg | 0.63m |
| New | Lower | 0.69m |
| Bryn | Gnapiog | 0.5m |

## 9.2 Collieries

The following information for each of the identified collieries has been gathered from the Welsh Coal Mines website [9]. The information contained is not necessarily complete but identifies the seams worked by each colliery and provides information regarding years of operation. A short paragraph is provided on each colliery before the seams worked are listed; the seams are listed from shallowest to deepest based on published geological sequencing.

The approximate locations of each colliery are shown on Figure 4. The locations of the collieries have been determined through a review of historical mapping and photographic sources and not from information presented on the Welsh Coal Mines website.

## Abercrave Colliery

The Abercrave Colliery was opened in 1872 and predominantly worked the "Eighteen Feet" seam and lower measures seams beneath the site. By 1923 the colliery was working the "Big Vein" (also known as "Nine Feet"), "Four Feet" and "Peacock" seams. The Abercrave Colliery was closed in 1967 [9].

Operational years: 1872 - 1967

Seams worked:
Middle Coal Measures
Four Feet
Eighteen Feet
Big (Nine Feet)
Peacock (Brass)

Lower Coal Measures
*Lower measures seams**

**no distinction between indivual seams within the Lower Coal Measures is provided in the source material.*

## International Colliery

Records suggest that the International Colliery was opened in 1893 and was operated by the French Anthracite Company. The colliery is shown to have worked the "Four Feet", "Nine Feet", "Peacock" and "White" seams. The International Colliery was absorbed into the Abercrave Colliery in 1913 and both were eventually closed in 1967 [9].

Operational years: 1893 - 1913

Seams worked:
Middle Coal Measures
White (Four Feet)
Nine Feet
Peacock (Brass)

## Gwaunclawdd Colliery

The Gwaunclawdd ("Gwaun Clawdd" or "Gwaun-y-clawdd") Colliery was opened in 1864 as an anthracite drift mine. The colliery produced anthracite from the "Big" (also known as "Nine Feet"), "Lower", "Brass" and "Four Feet" seams. The colliery was closed in 1938 [9]. From review of historical mapping sources, the Gwaunclawdd Colliery moved from its original site to a new site approximately 500m to the east between 1877 and 1903, refer to Figure 4.

Operational years: 1864 - 1938

Seams worked:
Middle Coal Measures
Four Feet
Big (Nine Feet)
Brass

Lower Coal Measures
Lower (Gellideg)

## Onllwyn Colliery

Developed in the 1840's, the Onllwyn Colliery was originally a collection of drift mines situated in the upper Dulais valley working the "Big" (also known as "Nine Feet"), "Red Vein" and "Peacock" seams. Detail suggesting working of the "Brass", "Eighteen Feet", "White" and "Bluers" seams is also provided on the Welsh Coal Mines website. The various drift mines were closed between 1962 and 1964 [9].

Operational years: circa 1840 - 1964

Seams worked:
Middle Coal Measures
White (Four Feet)
Eighteen Feet
Red Vein
Big (Nine Feet)
Peacock (Brass)

Lower Coal Measures
Bluers

## Dulais Colliery

The Dulais Colliery (also referred to as Drym Colliery) was originally an anthracite slant (drift) mine built along the Neath and Brecon Railway; the colliery was located to the west of the Onllwyn Colliery. In 1905 a shaft was sunk to work the "Bluers" seam within the Lower Coal Measures. In 1930 the Dulais Colliery was working the "Peacock" seam and in 1935 the workings included the "New" seam. The drift mines associated with the "New" and "Bluers" seams were abandoned in 1917 and the "Nine Feet" seam was abandoned in 1926 (Note: no details regarding the initiation of workings within the "Nine Feet" seam are provided). The Dulais Colliery was closed prior to Nationalisation in 1947 [9].

Operational years: circa 1905 – circa 1947

Seams worked:
Middle Coal Measures
Nine Feet
Peacock (Brass)

Lower Coal Measures
Bluers
New (Gellideg)

## Hendre Ladis Colliery – Ynyscedwyn Colliery

*Note, neither of these collieries are shown on Figure 4. The Hendre Ladis Colliery was located approximately 1km to the west of the western site boundary and the Ynyscedwyn Colliery (which absorbed the Hendre Ladis) was located approximately 1.4km to the west of the western site boundary.*

The Hendre Ladis Colliery, circa 1840, originally comprised a singular steeply inclined drift mine owned by the Ynyscedwyn Iron Company. No details of seams worked, whilst under the name "Hendre Ladis", are provided. Towards the end of the 19th century the colliery was absorbed by the Ynyscedwyn Colliery. The

'Ynyscedwyn Slant' (drift mine) worked the "Big" (also known as "Nine Feet") and "Peacock" seams. The Ynyscedwyn Colliery was closed by the National Coal Board in 1967/8 [9].

Operational years: circa 1840 - 1968

Seams worked: Middle Coal Measures
Big (Nine Feet)
Peacock (Brass)

**Seven Sisters Colliery**

The first of two shafts at the Seven Sisters Colliery was sunk in 1872. The two shafts were sunk to the "Nine Feet" seam which was encountered 183m below surface level. A list from 1923 shows that the "Four Feet" and "Brass" seams were being worked alongside the "Nine Feet" seam. The Seven Sisters Colliery was closed in 1963/4 [9].

Operational years: 1872 - 1964

Seams worked: Middle Coal Measures
Four Feet
Nine Feet
Brass

**Glynllech Colliery – Cwm Tawe Colliery**

Although no records of the Glynllech/Cwm Tawe Colliery are presented on the Welsh Coal Mines website, from review of historical mapping sources (Groundsure OS) the colliery is shown to be present to the north of the main site. The colliery is first shown on the 1914 mapping and is absent on the 1948 mapping suggesting a short period of operation.

Based on the location of the Glynllech Colliery and interpretation of published geological mapping, the Glynllech Colliery is anticipated to have worked the "Bluers", "Middle" and "Lower" seams; all of which sit within the South Wales Lower Coal Measures Formation.

## 9.3 Mine Entries

Based on review of the Coal Authority online viewer a total of 95No. mine entries have been identified within the site boundary. Sixty-four of the entries, both shafts and adits, are shown to be located within the main portion of the site. Thirty-one mine entry locations are shown to be present within the "washery" portion of the site [8]. The majority of the entry locations within the main portion of the site have been plotted on Figure 8 based on review of opencast completion plans and abandonment plans provided by Celtic Energy. However, the entry locations within the washery site were not shown on the source material provided by Celtic Energy.

In the north-western portion of the site a total of 24No. mine entries have been identified; seven of these entries are shown to be shafts (no depths provided) and the remaining seventeen are shown to be adits [8]. Based on the location, these

entries are anticipated to have been associated with the Abercrave and International Collieries; it should be noted that these entries have most likely been excavated out during the opencast mining activities associated with the Abercrave/Gwaunton opencast site (1973) and are therefore are unlikely to still be present (refer to Figure 9).

In the north-eastern portion of the site a total of 28No. mine entries are shown to have been present; nine of the entries have been identified as shafts and the remaining nineteen entries pertain to adits. Of the nine shafts identified, depths for three of the shafts were provided and range between 5.5m and 9.15m. Based on review of historical mapping, these entries are likely to have been associated with the Glynllech/Cwm Tawe Colliery. Two of the adits shown are located within the extent of the Abercrave/Gwaunton opencast site and have likely been excavated out. However, the majority are shown to be located in an area that has not been opencast and are therefore both the shafts and associated mine workings are still potentially present. No details on any 'treatment' (e.g. backfilling) of the entries in this location are provided on the Coal Authority online viewer.

A total of 12No. mine entries were identified to be present within the south of the site. Six of these entries pertained to shafts with known depths ranging between 3.6m and 4.6m and the remaining six entries were shown to be adits. These entries are likely to be associated with the Dulais Colliery and based on review of abandonment plans, the entries accessed the "Nine Feet" and "Brass" workings.

The presence of coal seams at shallow depth beneath the ground surface (both in the north and south of the site) means that they could be worked by bell pitting. Bell pitting as a method of extraction was often prevalent in areas where mineral deposits that are near-surface and shafts rarely extended beyond 10-12m in depth. From review of historical aerial photography from 1945, surface depressions have been identified that could be the result of bell pitting activities, see Figure 12 below.



Figure 12 Extract from 1945 aerial photography showing potential 'bell pitting'

A total of 31No. mine entries were identified to be present within the washery portion of the site. As the locations of these entries were not shown on any of the materials provided by Celtic Energy, the locations of these entries are not shown on Figure 8. The thirty-one entries within the zone include eight recorded shafts and twenty-three recorded adits. No depths were provided for the shafts identified on the Coal Authority viewer.

## 9.4 Underground Workings

Through review of abandonment plans provided by Celtic Energy (see Appendix F), the plan area extent and anticipated depth to workings for identified coal seams have been reviewed. It should be noted that the Coal Authority online viewer shows that the majority of the site is underlain by some form of underground workings. Abandonment plans held by the Coal Authority for these workings have not yet been acquired. (It is recommended that the available abandonment plans are acquired and reviewed as part of a more detailed desk study assessment).

Given the age and geographical location of the workings, 'partial extraction' methods are anticipated to have been used. As a result, residual voids associated with mining roadways and open stalls are likely to be present in the worked seams lying beneath the site.

Based on the '10t rule of thumb' (noted within CIRIA C758D) corresponding to 10 times the thickness (t) of an assumed unsupported high void/mining roadway [10]. If a 2m thick void is assumed – corresponding with the typical dimensions of a mining rowadway, the risk of subsidence associated with potential mining related voids is genrally considered to be sufficiently high to require mitigation or treatment when workings <20m below rockhead are anticipated to be present.

This bedrock cover value has been applied to the underground working plans reviewed to determine where the greatest risk of subsidence currently lies.

Table 4 – Underground workings summary table

| ID | Description | Level (mAOD) | Depth to workings (m below current rock head) |
|---|---|---|---|
| A | Workings within the 'Nine Feet' seam anticipated to be associated with the Hendre Ladis/Ynyscedwyn Colliery. | Not provided | >>20 [1] |
| B | Workings within the 'Brass' seam anticipated to be associated with the Hendre Ladis/Ynyscedwyn Colliery. | Not provided | >>20 [1] |
| C | Workings within the 'Brass' seam anticipated to be associated with the Seven Sisters Colliery. | Not provided | >>20 [1] |
| D | Workings within the 'Nine Feet' seam anticipated to be associated with the Seven Sisters Colliery. | 93.87 | 169 |

| ID | Description | Level (mAOD) | Depth to workings (m below current rock head) |
|---|---|---|---|
| E | Workings within the 'Nine Feet' seam anticipated to be associated with the Dulais Colliery. | 245.36 (Adit entry level) | <20 [2] |
| F | Workings within the 'Peacock' (Brass) seam known to be associated with the Dulais Colliery. | 192.14 – 276.78 | 5 - 25 |
| G | Unnamed adit believed to be associated with the Dulais Colliery. 'No Coal' notation on abandonment scan suggest it was a trial adit which was not progressed further. | 243.84 (Adit entry level) | <20 [2] |
| H | Unnamed workings (assumed to be Bluers Seam within the Lower Coal Measures) anticipated to be associated with the Dulais Colliery. | 143.43 – 176.78 | 87 - 97 |

Notes

1. Although depth to working and/or working levels were not provided on the plans used to identify these workings, based on the level provided on the plan to identify the level of working 'D', the depth to these workings is anticipated to be far greater than the 20m below rockhead range identified as highest risk within CIRIA C758D.
2. No in seam levels are provided. The depth to workings has been assumed to be less than 20m due to the limited plan area extent of the workings that spread from the adit entry points which are shown to be situated at surface level.

As highlighted in Table 4 above, underground workings at depths shallower than 20m below the current anticipated rock head are anticipated to be present. This particularly applies to workings 'E', 'F' and 'G' (refer to Figure 8).

It should be noted that cuttings (~10m) are currently proposed through the area that is anticipated to be underlain by workings 'E', 'F' and 'G'. These cuttings will lower the rock cover and in some instances underground workings may be encountered during excavation of the cuttings currently proposed (refer to Figure 11).

In these locations there is a risk of subsidence as a result of collapsed underground mine workings; in order to mitigate against the risk of subsidence, remedial actions such as grouting of voids may be required.

## 9.5 Open Cast Coal Mining

In addition to the extensive deep mine working continued beneath the site up until ~1966, the site has also been subject to extensive opencast coal mining activity from as early as 1946. From review of opencast completion plans (see Appendix G) and review of historical aerial photography, the various opencast sites have been identified and are shown on Figure 9.

A summary of the opencast sites identified is provided in Table 5 below; the operational years and an estimate of the maximum depth of excavation is also tabulated. The depth of excavation has been determined through review of opencast completion plans, where available, and current levels ascertained from online OS elevation data.

The depths of excavation provide indicative figures for the depth of fill material which is now present within the opencast sites that have been backfilled post completion of opencast activity. The backfill material is likely to comprise the non-coal bearing site won rock arisings which have been excavated during opencast working.

Table 5 – Opencast workings summary table

| Name | Operational Years | Maximum depth of excavation |
|---|---|---|
| Onllwyn | 1946 – 1949 | ~15m |
| Cefn Byrle [1, 2] | 1952 – 1953 | - |
| Abercrave / Gwaunton [1] | 1963 – 1973 | ~40m |
| Onllwyn | 1972 – 1982 | ~82m |
| Nant Helen | 1986 – 1999 | ~130m |
| Nant Helen Extension | 2002 - Present | ~150m |

Notes

1. Completion plans for the Cefn Byrle and Abercrave/Gwaunton opencast sites were not provided.
2. The existence of the Cefn Byrle opencast site has been determined through review of the 'History of Coal Mining' figure contained within the Nant Helen Extension Environmental Statement from 2011. Refer to Appendix H.

Refer to Figure 11 for an illustrative geological section which passes through the Onllwyn (1972-1982) and Nant Helen (1986-1999) opencast workings. The depths of the workings shown have been interpreted through review of the relevant opencast completion plans.

It should be noted that the extent of the Abercrave/Gwaunton opencast site shown on Figure 9 has been determined through review of figures provided within the Nant Helen Extension Environmental Statement (refer to Appendix H) rather than abandonment plans.

## 9.6 'Risk Zones'

A preliminary risk assessment has been undertaken in order to identify particular 'risk zones' along the proposed track route. The risk zones aim to highlight where the risk of subsidence as a result of shallow mine working collapse is highest. The

risk zoning has been primarily based on the areas that have are anticipated to have not been subject to opencast mining activity.

The risk zones are shown on Figures 8 and 9.

'Risk Zone A' is located in the south-eastern quarter of the main portion of the site. The zone covers the sections of proposed track from the western border of the second Onllwyn opencast site (1982) in the east to the eastern border of the Nant Helen opencast site (1999) centrally located within the site. There is a risk of subsidence in this zone due to the known presence of underground workings at shallow depth within the "Nine Feet" and "Brass" seams (see workings 'E', 'F' and 'G' on Figure 8); based on review of abandonment plans (provided by Celtic Energy), some of these workings are potentially as shallow as 5m below the current anticipated rock head and are therefore within the 20m below rockhead range which poses a crown-holing subsidence risk as determined from review of the CIRIA C758D guide. As highlighted in Section 9.4, as cuttings in the range of ~10m are proposed in this region of the site, the rock head cover is likely to be reduced and in some cases, workings are anticipated to be exposed by the proposed cuttings. In addition, potential 'bell pitting' activities have been identified within this zone from review of historical aerial photographs which further increases the risk of potential subsidence in this zone.

'Risk Zone B' is located in the north-eastern quarter of the main portion of the site. The zone covers the section of proposed track between the northern border of the second Onllwyn opencast site (1982) in the east to the eastern boundary of the Abercrave/Gwaunton opencast site (1973) located in the north of the site. There is a risk of subsidence in this zone due to the presence of numerous shaft and adit mine entries associated with the Glynllech/Cwm Tawe Colliery. Although a comprehensive set of abandonment plans for this region of the site have not yet been reviewed, there is the potential that shallow underground workings will be present in this area on account of the numerous shafts and adits; the depths of the shafts in this region (~5.5 – 9.15m) also indicate the potential presence of shallow workings within the 20m below rockhead range determined from review of the CIRIA C758D guide.

'Risk Zone C' is located in the south-western quarter of the main portion of the site. The zone covers the section of proposed track which runs from the southern border of the Nant Helen opencast site (1999) to the southern boundary of the Nant Helen Extension (2002 – present) located along the westernmost border of the site. There is a risk of subsidence in this zone due to the known presence of underground workings beneath the proposed track route. It should be noted that the risk of subsidence in this zone isn't considered to be as great as it is in zones 'A' and 'B' as the workings are anticipated to be much deeper than the 20m below rockhead range determined.

'Risk Zone D' covers the washery portion of the site. The zone has not been defined further as the exact locations of the shaft and adits identified to be present within the washery portion of the site could not be confirmed through review of opencast competition plans or abandonment plans provided by Celtic Energy. It is likely that Coal Authority data will have to be purchased in this region to cross

check the recorded locations of the mine entries shown on the Coal Authority online viewer.

It is recommended that a comprehensive set of abandonment plans are purchased and a ground investigation (including both intrusive and non-intrusive works) is scoped and undertaken to confirm the potential presence of shallow workings within the zones identified. If identified, remedial actions such as grouting of voids may be required in order to mitigate the risk of subsidence.

# 10 Sensitive Land Uses

Through review of information presented within the Groundsure EnviroInsight report, the following sensitive land uses have been identified within a 500m buffer of the site the site boundary. Refer to Figure 10 for the locations of the sensitive land uses identified.

Table 6 – Sensitive land uses

| Sensitive Land Use | Name | Location |
|---|---|---|
| National Parks | Brecon Beacons | 85m (NE) |
| Sites on Special Scientific Interest (SSSI) | Gorsllwyn, Onllwyn | 19m (NE) |
| | Nant Llech | 111m (N) |
| Ancient Woodland | Ancient semi natural woodland | On site |
| | Plantation on ancient woodland site | On site |
| Scheduled Ancient Monuments | "Tramroad at Ystradgunlais" *(a.k.a. Brecon Forest Tramroad – Claypons Extension)* | On site |
| | Bryn Llechwen ring cairn | 90m (SW) |

The border of the Brecon Beacons National Park is located approximately 85m to the NE of the northern site boundary.

The Gorsllwyn SSSI covers an area of approximately 40 hectares and comprises an upland mire located on a col between the Pyrddin and Dulais valleys. The peatlands within the mire are surrounded by an area of acidic grassland. The Gorsllwyn is deemed to be of interest as the mire landscape is rare with few other examples of this formation known in mid and south Wales.

The Nant Llech is a mountain stream that flows through a steep-sided valley of special interest on account of its rich variety of woodland species, cliff plant communities and Westphalian rock exposure. The site has been deemed critical for understanding the stratigraphy of the South Wales Coalfield due to the exposed sequence of over 120m of rock strata.

Through review of information presented within the Groundsure EnviroInsight report, multiple areas of 'ancient semi-natural woodland' and 'plantations on ancient woodland sites' have been identified. A small portion of the track route is shown to pass through an area of 'plantation on an ancient woodland site'. As set out in the National Planning Policy Framework (February 2019), *"development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland… ) should be refused, unless there are wholly exceptional reasons…"*. However, as the areas identified refer to areas of 'ancient semi-natural woodland' and 'plantations on ancient woodland sites', it is anticipated that these will have limited impact on the planning process for the future developments.

The 'Tramroad at Ystradgynlais' (also referred to as the Brecon Forest Tramroad – Claypon's Extension) is a Scheduled Ancient Monument and was built in the 1830s to link the Brecon Forest Tramroad and the Swansea Canal with the Drum Colliery.

The Bryn Llechwen ring cairn is also a Scheduled Ancient Monument and is located approximately 90m to the southwest of the western site boundary.

# 11 Preliminary Conceptual Site Model

The following section details a preliminary conceptual site model. The conceptual site model highlights the potential sources of contamination, identifies the potential receptors and sets out the potential pathways which would allow for a pollutant linkage to form.

## 11.1 Sources

The potential sources identified are highlighted in individual sub-sections below. It should be noted that the presence of potentially contaminated ground and groundwater beneath the site can only be confirmed through intrusive ground investigation and subsequent chemical analysis of geo-environmental samples gathered. The following identified contaminants for each identified source are purely indicative.

**Made Ground**

Based on review of the BGS online GeoIndex, review of borehole logs from previous ground investigations and from review historical mapping/photographs, made ground deposits are anticipated to be encountered beneath the majority of the proposed track route. The made ground materials are anticipated to comprise material used for infilling of the various opencast sites (refer to Figure 11). This material is likely to comprise gravels, cobbles and occasional boulders of mudstone, siltstone and sandstone (refer to photographs 3, 4, 5 and 6 in Appendix A).

No chemical testing on the made ground (fill) materials has been undertaken to date. This material is unlikely to be impacted by significant contamination; however, given the extensive usage of motorised plant in opencast mining

activities over the past 75 years there is the potential to encounter localised pockets of hydrocarbon (TPHs) contamination as a result of spillages.

As previously highlighted within this report, the site has been impacted by both sub-surface and surface coal mining activities. The Abercrave/Gwaunton opencast mine excavated the area previously occupied by the Abercrave, International and Gwaunclawdd Collieries. There is the potential that contaminants associated with coal mining activities could be encountered within the backfill in these locations. Contaminants arising from the coal mining infrastructure and activity in the area may be present; typical contaminants may include various metals, metalloids, sulphates, PAHs, TPHs and asbestos.

**Rail/Tram Lines**

The Neath and Brecon Railway (main and junction lines) have been identified to have run adjacent to the northern (junction line) and southern (main line) site boundaries through review of historical mapping and historical aerial photographs. In addition, three tramways (including the Brecon Forest Tramroad) have been identified to have crossed into the site through review of historical mapping and historical aerial photographs. Potential contaminants associated with rail/tram lines typically include various metals, TPHs, PCBs, PAHs, herbicides, ferrous residues, metal fines, ash, sulphates and asbestos.

**Fuel Tanks**

From review of site walkover photographs (see Photograph 7), a group of four large cylindrical tanks were identified to be present close to the site compound and offices centrally located within the site.

These tanks are likely to be fuel tanks or at the very least contain some form of hydrocarbon-based substance due to the nature of the flammable warning signs observed to be present. The tanks are above ground however, there is the potential that spillages and leakages may have occurred and as a result the soils and groundwater present in this location could potentially be impacted by hydrocarbon contamination.

**Pollution Incidents**

From review of the Groundsure EnviroInsight report, two pollution incidents have been recorded by the NRW within the site; an additional two pollution incidents were recorded <5m away from the site boundary taking the total to four. All four of the incidents were located within or within the direct vicinity of the washery portion of the site. The pollution incidents are detailed below.

In 2013 a pollution incident was recorded within the washery portion of the site (E: 283823, N: 210346). The pollutant was identified as ‘Coal’ and the impact to water was categorised as Category 2 (significant impact). No impact to land or air was recorded (both Category 4).

In 2001 a pollution incident was recorded within the washery portion of the site (E: 285452, N: 210250). The pollutant was identified as ‘Sewage Materials’ and the impact to water was categorised as Category 3 (minor impact). No impact to land or air was recorded (both Category 4).

In 2014 a pollution incident was recorded 1m to the south of the washery portion of the site (E: 285288, N: 210222). The pollutant was identified as 'Construction and Demolition Materials and Wastes' and the impact to both land and air was categorised as Category 3 (minor impact). The impact to water was not categorised.

In 2001 a pollution incident was recorded 4m to the northeast of the washery portion of the site (E: 285503, N: 210298). The pollutant was identified as 'Sewage Materials' and the impact to water was categorised as Category 3 (minor impact). No impact to land or air was recorded (both Category 4).

The pollution incidents presented above are anticipated to have had a localised impact to the soils and groundwater beneath the washery portion of the site. However, given the categorisation of these incidents the level of contamination is anticipated to be minor.

**Landfills**

No landfill sites have been identified within the site. From review of the Groundsure EnviroInsight report, the following historic landfills, see are located within 1km of the site boundary:

Table 7 – Historic Landfill sites – NRW Dataset

| Name | Direction and distance from site | Type of Waste Accepted | Year of Closure |
|---|---|---|---|
| Moorside Villas | 473m (NW) | Commercial<br>Household | 1974 |
| Cowlbren | 612m (N) | Unknown | Unknown |

As neither of these landfills impact the site directly, the risk of encountering potential contamination associated with these two locations is considered to be negligible.

## 11.2 Receptors

The following potential receptors have been considered within the preliminary conceptual site model.

**Human**

- Construction workers/maintenance workers

  During the construction of the proposed cuttings and embankments, construction workers will be exposed to the soils and groundwater present beneath the site.

  Post construction, maintenance workers have the potential to be exposed to the soils and groundwater present beneath the site if works involving excavation activity is required.

- Site users

Post construction, site users are anticipated to include train drivers and maintenance workers carrying out works on the proposed test track. The train drivers are not considered to be vulnerable as they are highly unlikely to come into contact with soils and groundwater found beneath the site.

- Site neighbours

  Site neighbours includes people living in the various towns and villages that surround the site. This is particularly relevant to residents of Onllwyn which directly borders the site.

**Environmental**

- Surface Water

  Numerous surface water features have been identified to pass through the proposed site. These features are all small streams which are tributaries of the larger streams and rivers that surround the site.

- Groundwater

  The South Wales Coal Measures Formations that lie beneath the site are designated as Secondary (A) Aquifers. There are no known groundwater abstraction licenses within 500m of the site boundary however there may be unlicensed groundwater abstraction points surrounding the site.

## 11.3 Pathways – Pollutant Linkages

For a pollutant linkage to exist, an identified pathway has to be present to link a source to a receptor. The pathways identified have been split between human and environmental receptors and are presented below.

**Human**

- Ingestion of soils, soil dust and groundwater

  During construction, construction workers and site neighbours have the potential to come into contact with contaminated soils through ingestion of soils and soil dust.

  Post construction limited migration of soils and soil dust is anticipated to occur and therefore the likelihood of site neighbours to come into contact with potentially contaminated soils is negligible. However, maintenance workers have the potential to come into contract with contaminated soils through ingestion of soils and soil dust.

- Dermal exposure to soils, soil dust and groundwater

  During construction, construction workers are likely to experience dermal exposure to potentially contaminated soils, soil dust and groundwater. In addition, site neighbours also have the potential to experience dermal exposure to potentially contaminated soil dust that migrates from the site works.

  Post construction, maintenance workers are likely to experience dermal exposure to potentially contaminated soils, soil dust and groundwater.

- Inhalation of particulate matter and soil vapours

  During construction, construction workers and site neighbours have the potential to be impacted by contaminated soils through inhalation of particulate matter and soil vapours.

  Post construction, particulate matter and soil vapour is unlikely to migrate and therefore the risk of exposure to sit neighbours is considered to be negligible. However, there is a residual risk of exposure to maintenance workers.

**Environmental**

- Leaching and vertical/lateral migration

  The various excavation works currently proposed have the potential to introduce preferential flow paths for groundwater from the potentially contaminated superficial material (made ground) to the Secondary (A) Aquifer of the underlying solid geology.

- Surface run-off

  Breaking the ground, moving materials and formation of temporary storage stockpiles of made ground/fill may result in increased contaminant mobilisation due to increased exposure to rainfall. As this material has the potential to be contaminated, there is therefore the risk of surface run-off from the earthworks migrating migrate to the various surface water features that originate within the site.

- Direct discharge as a result of dewatering

  During the earthworks there may be a need to dewater the excavations. The removed water could be discharged to the wider site drainage or ground and, if contaminated, could potentially impact the receiving controlled water receptors.

# 12 Unexploded Ordnance

A preliminary risk assessment for the presence of buried unexploded ordnance (UXO) covering the site has been undertaken in accordance with CIRIA C681. The preliminary risk assessment has not been carried out by a UXO specialist and the assessment has been based on a desktop review of historical information regarding site location and previous site development.

## 12.1 The Site

The site is approximately 500 hectares in plan area. The site lies roughly ~20km to the northeast of Swansea and is bordered by the town of Ystradgynlais to the west and the village of Onllwyn to the east.

The site boundary roughly sits at around 250m AOD with the land rising towards the centre of the site. The majority of the central portion of the site is at around 295m AOD with localised artificially raised areas of land reaching 335m AOD. The “washery” portion of the site sits lower than the main portion of the site at roughly 230m AOD.

Based on review of current online aerial photography, the main portion of the site is shown to be a moorland type area with significant evidence of opencast mining activity. The majority of the active opencast evidence is present to the west of the main portion of the site although areas of land that appear to have been backfilled opencast sites are present in the east of the site. The centre of the main portion is shown to contain artificially raised "overburden storage area/layer-cake" spoil heaps. These areas of land are significantly raised compared to the surrounding area with the largest

The "washery" portion of the site is shown to contain a varied array of coal processing infrastructure with a limited network of rail lines running along an east to west alignment towards the north of the site. The land surrounding the coal processing infrastructure appears to be raised industrial scrubland with minimal vegetation cover.

## 12.2 Geology

Based on review of published geological sources, the site is shown to have a limited and discontinuous cover of superficial deposits. Glacial till deposits, covering a minimal plan area, are shown to be present along the southern and western boundaries of the site. Glacial till material tends to comprise a heterogenous mixture of predominantly clay sized material, with sand, gravel and larger cobble and boulder sized inclusions. In addition, a small peat deposit is shown to be present within the central portion of the site.

## 12.3 Proposed Works

The proposed earthworks include comprehensive cut and fill activities to form a range of embankments and cuttings; the embankments and cuttings are required to form the base for a rail test track facility. Based on current ground levels it is anticipated that cuttings of up to ~30m deep and embankments of up to ~40m high will likely be required. The majority of the cuttings proposed are through backfilled opencast sites with a few sections of rock cut anticipated.

## 12.4 Site History

Based on review of aerial photography from 1945, the main portion of the site is shown to be free from any major development and appears to comprise moorland with numerous small fluvial valleys originating from the centre of the site. Significant coal mining activity is shown along the northern boundary (Abercrave, Gwaun Clawdd and Ynyscedwyn Collieries) and the southern boundary (Onllwyn, Dulais and Seven Sisters Collieries). A linear alignment of minor cuttings and embankments is shown to cross along the southern boundary of the site. From review of historical mapping this alignment is labelled as an 'Old Tramway'; the tramway is labelled 'Old' on the earliest available historical mapping from 1876 which suggests that the tramway had long been disused at the time of WWII. The "washery" portion of the site contains the Onllwyn Washery with multiple rail lines and stockpiles present.

Post WWII, the site has undergone significant opencast mining activities. The progression of opencast activity has progressed from east to west with the earliest opencast site, Onllwyn (1949), being located beneath the eastern boundary of the main portion of the site and the most recent opencast site, Nant Helen Extension (2002 - present), being located beneath the western boundary of the site. The "washery" portion of the site appears to have remained relatively unchanged since WWII with a slight reduction coal processing infrastructure noted; a raised portion of the industrial scrubland to the north of the Onllywn Washery has possibly been formed from the stockpiles noted from the 1945 aerial photography.

## 12.5 Evidence of previous military land-use

The site located has historically been used for coal mining with no evidence of military use in the direct vicinity of the site. From a review of potential military sites collated on the Coflein website, no major military targets have been identified within a 10km radius of the site [18].

Swansea is located approximately 20km to the southwest of the site. Swansea was a target of major Luftwaffe bombing raids during WWII and was the most heavily bombed location in South Wales. However, given the distance, it is unlikely that the site will have been impacted by Luftwaffe bombing raids targeted at Swansea.

## 12.6 Potential for aerially delivered ordnance

The Zetica regional unexploded bomb risk map for Glamorgan shows that the site is located within a low bomb risk map. In addition to the regional unexploded bomb risk map, a bespoke unexploded bomb risk map for the site has been freely downloaded from the Zetica website, see Figure 13 below.

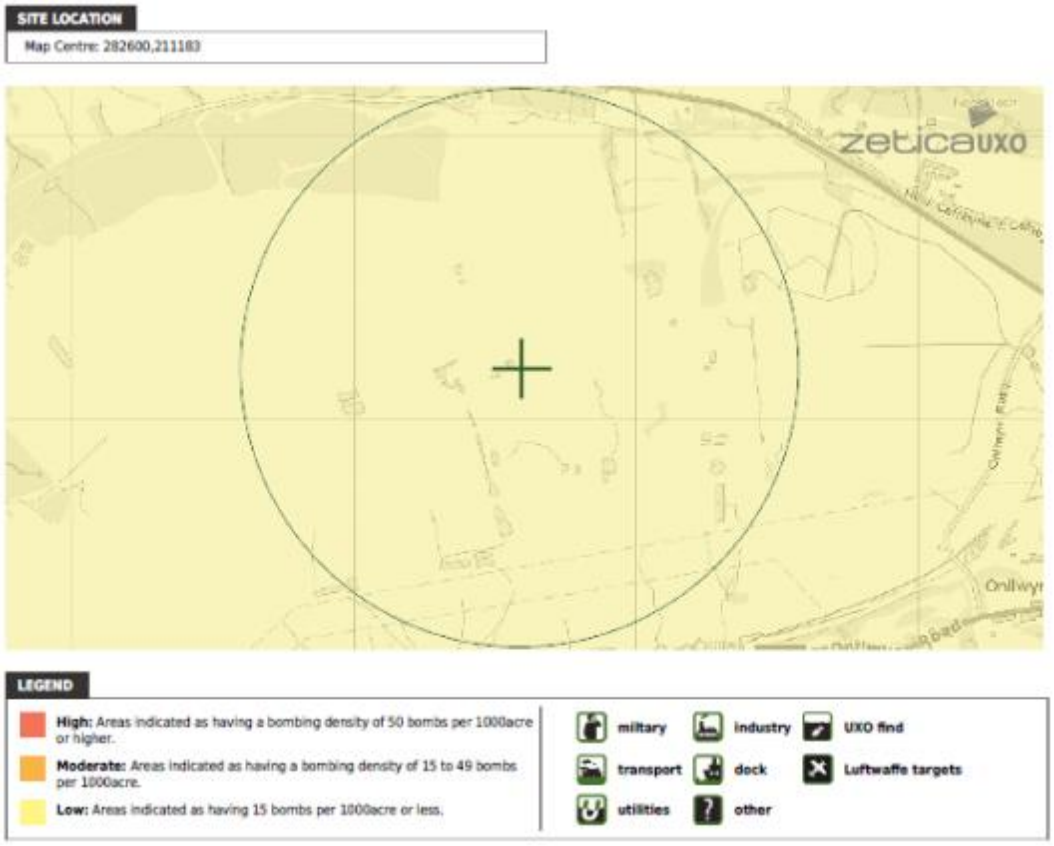



Figure 13 Zetica Unexploded Bomb Risk Map

As shown above, the site sits within a low risk area. A low risk area is defined as an *"area indicated as having 15 bombs per 1000 acres or less"*. As set out by Zetica, a low risk area suggests that there is no greater probability of encountering UXO than anywhere else in the UK. Therefore, the potential for aerially delivered ordnance is low.

## 12.7 Consideration of mitigating factors

The predominantly firm nature of the glacial till superficial geology and reported lack of superficial geology in some areas of the site, means that had any aerially delivered ordnance been dropped it is highly likely to have detonated upon impact. Also, given the general absence of soft superficial deposits, other than areas of peat in the central areas of the site it is likely that any UXO would have been discovered on the ground surface and dealt with.

No previous military land use was identified within a 10km radius of the site. The collieries and rail infrastructure present surrounding the site at the time of WWII do represent a potential target for WWII Luftwaffe bombing raids. However, given the localised nature of Luftwaffe bombing raids in Wales (primarily concentrated on Swansea, Cardiff and Milford Haven), it is unlikely that the collieries surrounding the site would have been targeted.

The extensive nature of post WWII development to the site, primarily regarding opencast mining activity, further reduces the risk of UXO encounter. This is particularly relevant when considering that the majority of cuttings currently

proposed pass through areas of previously backfilled opencast sites. The remaining cuttings are proposed through areas where superficial deposits are anticipated to be minimal. The areas of peat which were historically present will generally have been worked out during the open-casting operations that historically took place on the site.

## 12.8 Conclusions and recommendations

Based on the preliminary UXO risk assessment detailed above, the risk of UXO encounter beneath the site is considered negligible. As a result, a detailed UXO risk assessment is not deemed to be required.

# 13 Preliminary Engineering Assessment

From the information available, a preliminary geotechnical and geo-environmental assessment has been undertaken to identify the potential constraints at the site.

The engineering assessment has considered issues regarding settlement, the earthworks proposed, the potential for material re-use, issues regarding groundwater and potential foundation options for the structures proposed.

## 13.1 Settlement

A literature review regarding the estimation of settlement at the site was undertaken using the following documents:

- BRE Report – Building on Fill: Geotechnical Aspects (3rd edition)[13];
- BRE Information Paper IP 5/97 – Building on Fill: Collapse Compression on Inundation [14];
- BRE Information Paper IP 15/85[15];
- British Coal Opencast: State of the Art Review of The Compaction of Opencast Backfill. Report No. 90CPC/GEO/095 dated March 1997 by Scott Wilson Kirkpatrick (3 vols) [16];
- Building on uncompacted dumps in the Rhenish brown coal area of the Federal Republic of Germany. Lange S. 1986 [17].

For opencast backfills such as the ones on site, the mechanisms of ground movement include:

- long term creep settlement – most settlement occurs;
- settlement due to inundation;
- heave movements associated with inundation and/or stress relief;
- movements as a result of load imposition.

The primary factor affecting magnitude of these settlements is degree of compaction. Uncompacted fills (e.g. by end tipping in thick layers) show the most settlement. Other controlling factors which need to be considered include backfill properties (e.g. particle size and shape, grading, particle strength hydraulic properties), shape, depth and extent of excavation, location of spoil mounds, haulage roads and hydrogeological effects.

### 13.1.1 Creep settlement

Most settlement occurs during and soon after backfilling. Assuming that the majority of backfill is granular; major settlements are likely to have occurred almost immediately upon backfilling.

Further movement then occurs gradually and is known as long term creep settlement, the rate of movement decaying linearly when plotted on a log-time scale. The slope of the graph of movement versus log time is known as the logarithmic creep compression parameter, α.

For opencast backfills containing sandstone/mudstone rockfill, conservatively assumed to have been non-engineered (i.e. has had no systematic compaction), this parameter typically lies in the range 0.9% to 1.5% [13]. This range of α values have been used to determine the likely rate of creep settlement occurring in the areas of opencast that have since been backfilled.

In addition, following the BRE building on fill guidance [13], a less conservative logarithmic creep compression parameter value of 0.34% for the Nant Helen opencast site has been calculated for engineered (i.e. heavy vibrating roller compaction) sandstone/mudstone rockfill. The backfill has been assumed to be dry ($\therefore \sigma_v' = \sigma_v$).

| | | |
|---|---|---|
| Sandstone/mudstone rockfill | Heavy vibrating roller | 0.13 $\sigma'_v$ |
| Sandstone/mudstone rockfill | No systematic compaction | 0.9–1.5 |

The creep settlement has been estimated for various values of a logarithmic creep compression parameter (α) using the equation below.

$$\alpha = \Delta s/[H \log (t_2/t_1)]$$

Where, '$\Delta$s' refers to the settlement of an embankment of height 'H' between times '$t_2$' and '$t_1$'.

A general assessment of the magnitude and timescale of future movements, considered sufficient to establish the feasibility of development plans, has been made using desk study information on the geometry/depth, age, type and hydrogeological regime of the backfill, together with settlement monitoring records.

Refer to Figure 14 for the estimated rate of creep settlement for different α values for the Nant Helen opencast site. The Nant Helen opencast site was chosen to illustrate the potential rates of creep settlement as the site represents the deepest of the backfilled sites (~130m).

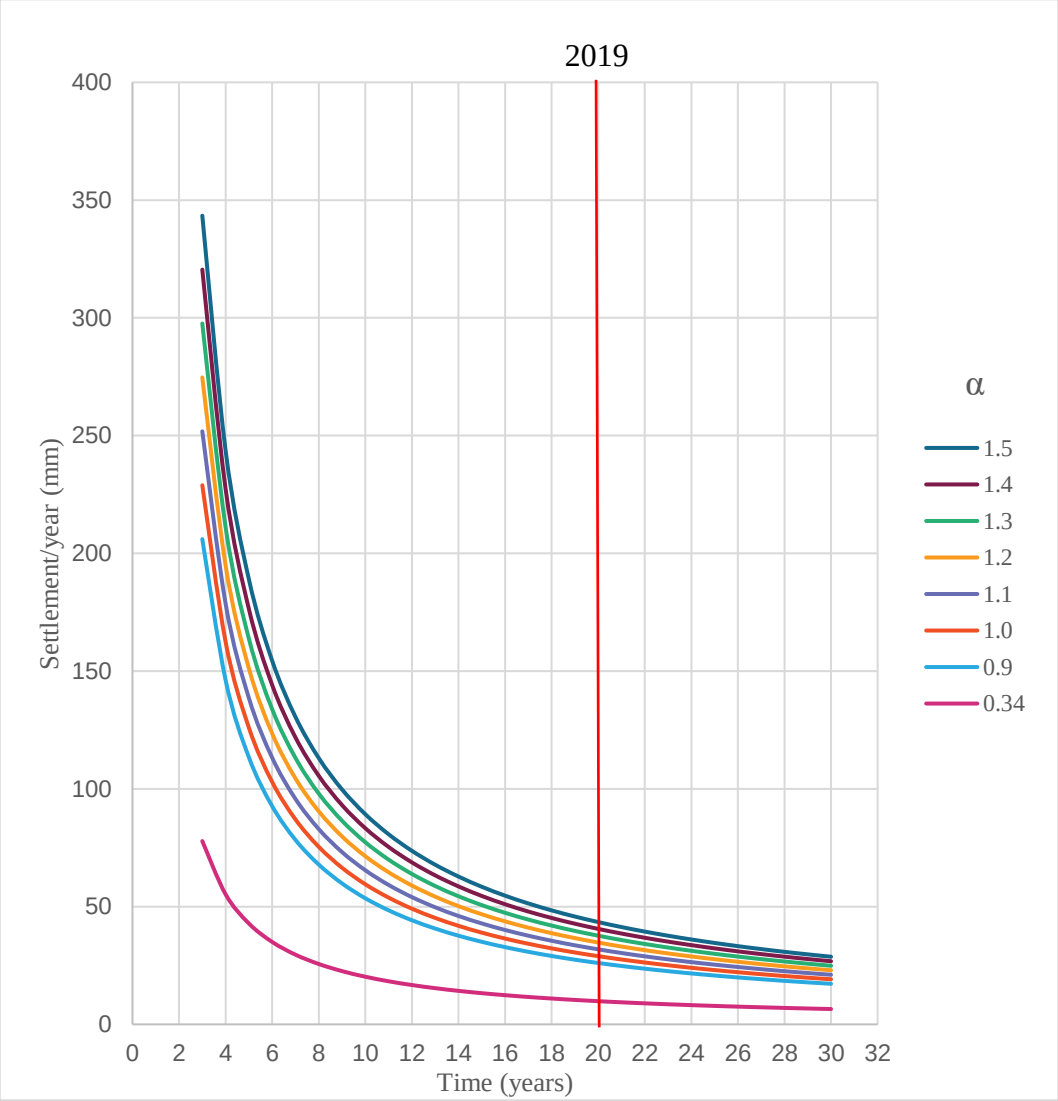



Figure 14 Creep settlement rate for different α values (Nant Helen 1999)

For all alpha values, based on this assessment the current creep settlement rate is anticipated to be in the range of 10-50mm per year.

As highlighted in Figure 14 above, the risk of creep settlement is considered to be greatest within the areas that have been recently been backfilled. This risk particularly pertains to the Nant Helen Extension site beneath the western boundary of the site where the opencast void is yet to be backfilled.

The detailed design of remediation works and foundation solutions will need to consider the effects of specific features such as spoil mounds, sloping sides of excavation, potential “hard spots” at edge of excavation and hydrological/ hydraulic features in the proposed development.

A suitable scope of ground investigation works will need to be undertaken to provide information on the detailed geotechnical properties of the backfill.

### 13.1.2 Inundation settlement of fill following the rebound of the groundwater level

Inundation settlement occurs relatively rapidly following inundation of susceptible fill materials by groundwater or surface water. Sensitivity to inundation settlement depends on air voids content prior to saturation. Inundation settlement is negligible when air voids are less than 5% and of small magnitude when air voids are less than 10%. On the other hand, linear strains of the order of 3% to 5% have been measured in many loose fills [14].

This is likely to affect the western part of the site mainly, where dewatering activities are currently being undertaken to allow for the excavations within the Nant Helen Extension opencast site. Once dewatering is ceased, the groundwater levels in this region will rebound to a certain level. Given the general lack in groundwater information for the site, this rebound will have to be monitored to determine the level to which groundwater will rise post completion of opencast working. This monitoring should be undertaken site wide; initially to gain an appreciation for the groundwater level currently beneath the site and to then measure the change in groundwater level, if any, that occurs once the dewatering measures are stopped.

As inundation settlement can be mitigated somewhat through control of air voids within the fill material, opportunities to minimise this risk during the filling of the current opencast voids located to the west of the site should be fully explored.

### 13.1.3 Potential differential

There is the potential for differential settlements to occur along the proposed track route. This is due to the fact that the areas of backfill will settle whereas the areas that have not been subject to opencast working are unlikely to settle.

There is likely to be a degree of differential settlement within the areas of backfill themselves. This is due to the fact that total settlement is dependent on the thickness of fill; as the thickness is not constant, the areas with greater thicknesses of fill will settle more than those with a shallower thickness.

In order to mitigate against differential settlements at the surface, improvement of near surface materials could be considered. It should be noted however that this would not eliminate total settlements. Improvement of near surface materials could be achieved by:

1. Excavating and recompacting
2. High Energy Impact Compactions (HEIC) (likely to improve the upper ~3m)
3. Dynamic Compaction (likely to improve the upper ~10m)
4. Surcharge
5. Grouting

Alternatively, a rigid base to track bed could be proposed. This would mitigate against the risk of minor differential settlements but would likely require comprehensive piled foundations, which would not be a feasible solution for the deeper areas of fill.

As settlement is likely to occur at the highest rate within the areas that have most recently been backfilled, altering the proposed alignment to avoid the most recent areas of opencast mining would minimise the risk of differential settlement. Ideally the alignment should be altered to avoid the areas of recently backfilled material where possible.

### 13.1.4 Heave

Elastic heave movements can occur when cuttings are formed through fill material or on removal of surcharge mounds. Heave can also result from the swelling of near surface deposits caused by water ingress and seasonal moisture content changes.

The risk of heave should be considered in any areas where removal of material from the large overburden storage areas is proposed or any areas where extensive cuttings are proposed.

## 13.2 Proposed Earthworks

The extent and size of cuttings and embankments required is dependent on the proposed track level. The slope angles of the cuttings and embankments are dependent on material. Based on the anticipated nature of the material used for the embankments and cuttings, and the anticipated groundwater regime across the site, the following slope gradients have been estimated to ensure stability with adequate factors of safety:

- Embankments – 1:3
- Cuttings (coal measures) – 1:1
- Cutting (backfill) – 1:2.5

It should be noted that the slope angles for the cuttings and embankments proposed here are indicative only, and should be verified following ground investigation on the basis of stratigraphy, material and mass properties and the results of groundwater monitoring.

### 13.2.1 Areas at Risk of Shallow Mine Workings

The risk zones identified in Section 9 of this report highlight the areas where opencast working has not been undertaken and shallow mine workings may be present. Within such areas of shallow mine workings, the development proposals may be susceptible to impacts from potential subsidence events. Excavation of cuttings would reduce the thickness of cover over the workings, increasing the risk that ‘crown hole’ collapse could propagate to the surface and affect the proposed development.

For example, in 'Risk Zone A' workings <20m below the existing rockhead are anticipated. Workings within this range present the highest risk of subsidence as a result of roadway collapse. Given the age of the workings, roadway collapse may occur due to the degradation of supports present at any time.

The cuttings are likely to reduce the depth to workings, and in some cases expose wokrings, due to the removal of material. This is likely to bring more workings within the 20m (particularly in 'Risk Zone A') range which has been highlighted as highest risk.

Engineering measures are likely to be required to effectively lower the risk of shallow working related subsidence within risk zones. This could include bulk infilling of mining voids such as grouting of voids (or use of gravel where drainage pathways need to be maintained), or use of high strength geogrids to temporarily or permanently span potential subsidence features.

## 13.3 Potential for Material Re-use

An assessment of the suitability of material re-use in the construction of the numerous embankments proposed will be necessary as part of the scope of ground investigation works. From review of the site walkover photographs, much of the made ground fill material anticipated to be encountered within the backfilled opencast sites is likely to comprise gravels, cobbles and occasional boulders of mudstone, siltstone and sandstone. This material is expected to be predominantly granular, predominantly comprising the non-coal bearing material that has been excavated during opencast working.

This material is also likely to be representative of the material that would be generated during the excavation of the cuttings required through areas of previously unworked Coal Measures Formations.

From a geotechnical perspective, this material is likely to be suitable for re-use subject to processing to reduce the maximum particle size and achieve a suitable grading, and removal of any coal that may still be present.

The glacial till natural superficial material is also likely to be geotechnically suitable for re-use in the formation of the embankments required.

The deposits of peat are likely to be unsuitable for reuse as a fill material. Furthermore, if present, it is likely that any peat present in at grade sections or beneath the proposed embankments will have to be excavated and removed from the areas or treated prior to construction.

The geotechnical suitability for material re-use, can only be confirmed through geotechnical sampling and subsequent testing of the materials present within the opencast areas that have been backfilled.

From a geo-environmental perspective, the potential contaminative nature of made ground fill material must be assessed in order to determine the suitability for re-use. Human health and controlled waters risk assessments will be required to determine the geo-environmental suitability for re-use.

## 13.4 Groundwater

As discussed in Section 13.1.2, further understanding of groundwater levels beneath the site is required to inform assessment of inundation settlements.

Groundwater has the potential to impact the settlement in the areas of backfill and affect the proposed cuttings. It is recommended that a ground investigation is undertaken to ascertain the groundwater level beneath the site.

## 13.5 Foundation Options – Structures proposed

In addition to the track loops, it is envisaged that a platform environment, facilities for rail storage, train decommissioning areas and other testing facilities may also be included as part of the developed works.

The proposals are likely to comprise the construction of numerous structures of various sizes. These structures may be located within the main area of the site and also within the washery portion of the site.

In the main portion of the site outside any areas of historical opencast activity it may be feasible to found buildings on pad or raft foundations with the glacial till or on top of the relatively shallow bedrock.

The layout of the development should consider the risks presented by ongoing settlement of the backfill.

It may be feasible to found buildings within the areas of previous opencast activity on pad and raft foundations. This is subject to future ground investigation of the ground conditions and careful consideration of the potential magnitude of settlements; in-particular, the differential settlement that may occur within the backfilled opencast workings. Understanding the location of the historical workings will be important for assessment of potential variations in settlement across the site.

Regardless of ongoing settlements, any heavily loaded buildings in these areas may require the use of piled foundations or some form of ground improvement to limit potential settlements under loading to acceptable limits.

As highlighted within the ground conditions section of this report, artificial material (made ground) overlying natural superficial material (predominantly glacial till, potential for peat) is likely to be encountered within the washery portion of the site. The depth to weathered rockhead is anticipated to vary, up to depths of 7.0m bgl based on the logs reviewed. The descriptions from boreholes progressed within the washery portion of the site suggest that the bedrock is comprised of mudstones and siltstones which are slightly to moderately weathered and are moderately weak to strong.

Based on the anticipated ground conditions in the washery portion of the site, it is possible that piled foundations may be required; however, it should be noted that the foundation type is highly dependent on the loading of the structures proposed. For example, smaller structures with lower loading may be able to be founded on pad or raft foundations.

The subsidence risks associated with shallow mine workings will need to be considered as part of the foundation selection regardless of the foundation type selected some form of mine workings treatment or mitigation is likely to be required within identified risk zones.

The extent of ground treatment and foundation selection will need to be reviewed once more detailed assessment of mining risks and ground investigations have been undertaken.

It is recommended that the development masterplan is developed to minimise risks associated with potential total and differential settlement associated with former backfilled opencast areas, potential mining related subsidence associated with shallow underground mine workings.

# 14 Geotechnical Risk Register

The Geotechnical Risk Register has been established and will be updated as the scheme progresses and when constraints or opportunities are identified.

Table 8 – Geotechnical Risk Register

| Hazard | | Consequence | Mitigation Measures |
|---|---|---|---|
| 1. | Differential settlement between areas of undisturbed ground and infilled ground. | Potential for structural damage and serviceability issues with the test track and associated structures and infrastructure. | Ground investigation and testing to better understand the make-up of infill – determine geotechnical design parameters for undisturbed and infilled ground.<br>Monitor existing ground movements in order to test theoretical information regarding ongoing ground movements in areas of backfilled opencast workings.<br>Monitor groundwater and undertake detailed hydrogeological risk assessment to understand potential changes in the hydrogeology and potential for future inundation settlement. |
| 2. | Continuing total and differential settlement of infilled areas (associated with backfilled former opencast works). | | Develop masterplan and detailed design taking account of areas of higher risk and avoiding these where possible. |
| 3. | Inundation settlement of the infilled areas due to groundwater rebound once dewatering stopped as a result of changes in groundwater regime due to installation of new drainage/soakaways. | | Ensure that foundation solutions for structures make due allowance of potential ground movements during design life. |
| 4. | Inundation settlement of the infilled areas due to creation of new drainage paths e.g. installation of drainage across the site. | | Design for ground movements e.g. ensure flexible joints in any drainage pipes, incorporate suitable gradients for drainage runs to minimise risks of drainage backing up in the event of differential ground movements occurring. |
| 5. | Potential for significant ground heave in areas of deep cuttings. | | Design for regular maintenance, e.g. tamping of track as part of overall development strategy. |
| 6. | Shallow underground coal workings and associated mine entries, including shafts and adits have been identified to be present beneath sections of the proposed cuttings and embankments | Potential subsidence as a result of underground working of mine entry collapse leading to failure of track and potential train derailment in the permanent case. | Comprehensive review of all available mine abandonment plans pertaining to workings that are closest to the surface of rockhead (~20m below rockhead). |

| Hazard | | Consequence | Mitigation Measures |
|---|---|---|---|
| | | Risk of encountering underground workings or intact coal seams in the areas of proposed cut. This will need to be considered both in terms of developing safe construction methodologies and permanent works to ensure stability and safety of the final earthwork. | Undertake ground investigation comprising a mixture of intrusive and non-intrusive (e.g. non-intrusive gravity surveys) works in order to locate potential shallow mine workings.<br><br>If shallow mine workings are identified, mitigatory measures such as grouting of voids may be required to negate the risk of subsidence beneath the proposed track route. |
| 6. | Oversteep slope angles in proposed cuttings and earthworks | Failure of earthworks:<br>Cutting – material on the tracks causing derailment<br>Embankment – failure of embankment and track causing derailment. | Ground investigation – design geotechnical parameters and slope stability calculations. |
| 7. | Encountering potentially hazardous material from historical and current mining activities within the infilled areas. | Risk of encountering made ground which is potentially hazardous to human health and controlled waters. | Undertake ground investigation and sub-sequent sampling on geo-environmental samples gathered to determine the type and degree of contamination if present. |
| 8. | Potential for instability within rock cuttings or beneath embankments as a result of failure along discontinuities and weak bedding layers within the coal measures (such as coal seat earths). | Large scale instability of rock cuttings. | Design appropriate cutting slopes and if necessary incorporate stabilisation measures such as rock anchors. |
| 9. | Pyrite is known to be present within the Coal Measures bedrock. | Pyrite containing bedrock can present aggressive conditions to concrete foundations. | Undertake ground investigation and subsequent aggressivity testing of samples gathered to determine the potential threat to concrete foundations. |

# 15 Conclusions and Recommendations for Further Work

Through undertaking this desk-based study of the 'Land at Nant Helen and Onllwyn Coal Washery' site the following conclusions have been made.

As identified through review of published geological sources, whilst the majority of the site is shown to have limited natural superficial soil cover, localised areas of glacial till and peat are likely to be encountered.

The superficial material is underlain by the South Wales Lower and Middle Coal Measures Formation. A significant number of coal outcrops are present within the site boundary. A number of approximately North-South trending faults cross the site. The solid geology beneath the site is likely to be complicated on account of the various anticline and syncline features which have been identified through review of published geological mapping sources.

The site has been significantly impacted by both opencast and underground coal mining activity. Large areas of the site have been subject to opencast mining activity. Most of the former opencast areas have been backfilled. The depth of backfill pertaining to each has been estimated from review of opencast completion plans with ~130m of backfill material likely to be present within the original Nant Helen opencast site. The Nant Helen Extension opencast site has reached depths of up to 150m, however this site is yet to be backfilled. The backfill material is likely to be settling at variable rates due to the varied depths of deposition and the assumed 'non-engineered' backfilling methods.

From review of limited abandonment plans provided by Celtic Energy, localised areas of shallow underground mine workings are present; in places these workings are anticipated to be within 20m of rock head. Based on review of the coal mining information provided on the site, four risk zones (A through D) have been identified. These risk zones cover the sections of proposed track where underground workings are likely to be present at less than 20m depth below rockhead; essentially these zones pertain to the sections of the track that are shown to lie on land that has not been opencast previously.

Numerous watercourses are shown to flow through and originate from certain sections of the main portion of the site. These watercourses are predominantly small in nature and are tributaries to the River Tawe, Dulais River and River Pryddin that surround the site. Multiple pond features have been identified within the site; these features are a mixture of natural and man-made features. The majority of the site is not at risk of flooding with only a very small section at the easternmost corner of the washery portion of the site being at risk.

The groundwater level beneath the site is relatively unknown as the Nant Helen Geotechnical borehole logs reviewed provided no information regarding the groundwater level. However, from review of the Nant Helen Extension Environmental Statement from 2011, the groundwater level in the west of the site was previously recorded to sit at around 120m AOD; this suggests that

groundwater is at around 170m below ground level in this location. Due to the extensive nature of the underground workings anticipated beneath the site, it is likely that the site is underdrained by these workings particularly by adit mine entries discharging to the River Tawe to the north of the site. Shallow groundwater strikes were recorded in the borehole scans reviewed pertaining to boreholes within the washery portion of the site.

The preliminary conceptual site model has identified the potential for certain pollutant linkages to be formed during future site works. These linkages pertain to the potentially contaminated nature of materials that will be encountered beneath the site. The level of contamination is yet to be assessed however a number of potential sources, primarily based on the site's industrial past, have been identified.

Following a preliminary unexploded ordnance (UXO) risk assessment, the risk of encountering UXO beneath the site is considered to be negligible. As a result, a detailed UXO risk assessment is not likely to be required.

## 15.1 Settlement Monitoring

In order to better understand the potential settlements that are occurring within the areas of opencast workings which have since been backfilled, settlement monitoring using permanent ground markers installed at surface is recommended. The monitoring information would be useful and would be supplemented with intrusive ground investigation as the project progresses.

Settlement monitoring will be useful to ascertain the current rate of ongoing creep settlement within the areas of backfill and potentially monitor settlements which occur post-inundation once dewatering activity associated with the current opencast workings is ceased. Groundwater level monitoring will be required to determine the rebound of the groundwater level that occurs once dewatering measures are stopped. The scope of settlement monitoring should be developed to allow an assessment of potential total and differential creep movements over the design life of the development to be better understood and provide greater certainty regarding the potential impacts of this; the monitored settlements can then be compared with the theoretical 'creep movements' determined as part of this study.

## 15.2 Detailed Mine Workings Study

Given the extensive nature of underground working shown to be present beneath the site it is recommended that an additional study is undertaken to provide a comprehensive review of the underground workings that are likely to be present beneath the site.

Through consultation with the Coal Authority, a total of 42No. abandonment plans have been identified in relation to the shallow workings beneath the site. It is recommended that these plans are purchased at a later date and a comprehensive review of the shallow workings recorded beneath the site is undertaken. This review would allow for the areas that are potentially at risk of subsidence to be

much better understood and will better inform the scope of ground investigation ultimately proposed.

## 15.3 Ground Investigation

It is recommended that ground investigations are undertaken. This ground investigation is likely to require both intrusive and non-intrusive works in order to ascertain information on the site that is currently lacking. Ground investigation is required to;

- Confirm the ground and groundwater conditions beneath the site, including the different areas of former opencast workings - primarily focusing on the current proposed track route. In-situ testing and geotechnical sampling with subsequent testing will be required to determine the geotechnical properties of the materials encountered which will then feed into the design of the cuttings and embankments proposed;
- Investigate the composition and in-situ properties of the fill material within the backfilled opencast sites which are located beneath the proposed track route. This is required to be able to better understand the potential settlements that are likely to arise as a result of long term creep settlement. Investigation of the groundwater level within these areas and interpretation of the change in groundwater level, post completion of all opencast activity, will help inform the likely inundation settlements that could occur as a result;
- Identify the potential presence and significance of contaminated ground and groundwater beneath the site. Geo-environmental testing with subsequent chemical analyses will be required to allow suitable risk assessments to be undertaken both for the discharge of planning conditions and for the design and specification of any necessary site remediation works required;
- Determine the depth to underground workings, if present, beneath the proposed track route through intrusive investigation (probing) and potentially also geophysical methods (e.g. Gravity surveys or magnetic surveys to locate shaft locations). If identified information will need to be suitable to allow for the design of treatment measures such as grouting of mining related voids. The information should also be sufficient to allow an assessment to be made of the potential impacts of mine-workings treatment on the hydrogeological regime.

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# Figures

Figure 1 Site Location Plan

Figure 2 Outline Scheme Earthworks Proposals

Figure 3 Site Walkover Photo Locations

Figure 4 Select Historical Features

Figure 5 Solid and Drift Geology

Figure 6 Linear Geological Features

Figure 7 Hydrological Features

Figure 8 Identified Extents of Below Ground Workings

Figure 9 Identified Extents of Opencast Workings

Figure 10 Sensitive Land Uses

Figure 11 Illustrative Geological Section

The following figures have been included in the main body of the report.

Figure 12 Extract from 1945 aerial photography showing potential ‘bell pitting’

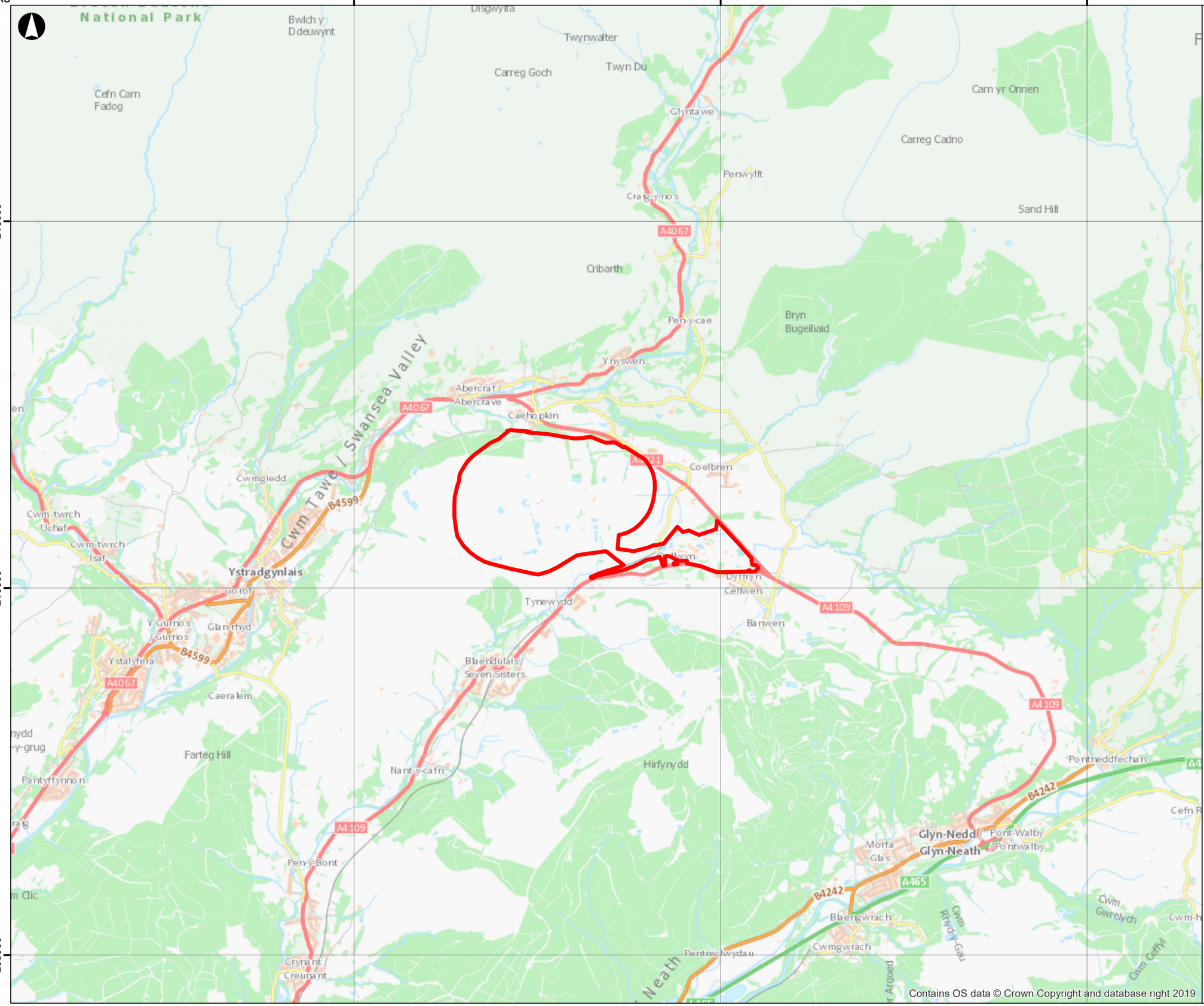
Figure 13 Zetica Unexploded Bomb Risk Map

Figure 14 Creep settlement rate for different α values (Nant Helen 1999)

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## Legend

Site Boundary

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Coordinate System: British National Grid

Metres

0 500 1,000 2,000

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Drawing Title
**Site Location Plan**

Scale at A3
**1:50,000**

Role
**Geotechnical**

Suitability
**For Information**

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**264904**

Rev
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Name
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A4067 A4221 A4109

Garth Garw-Leisiau Abercrave Wood Ynyswen Glyn House Nant y Ffin
Tanyrallt Hennoyadd Rd Abercraf / Abercrave Heol Tawe St David's Church Glyn-Llech-Isaf
Cefn-Coed-Uchaf Cefn-Coed-Isaf Station Rd Bronwydd Glyn-Llech-Uchaf
Cwm Cwtch Caehopkin Heol-Y-Gwyddau Heol-Y-Gwyddau
Gwaun-Clawdd Gwaun-Y-Gilfach Nant Llech Henrhyd Cottage
Dol Henrhyd Heol Cefnbyrle / Cefnbyrle Rd Coelbren Brynawelon
Blaen-Y-Maun Onllwyn Rd Onllwyn Nantbley Adv Heol Gader
Main Rd Dyffryn Cellwen School Rd Nant Cellwen
Coedwig-Y-Bryn Nant Ystalwyn Tynewydd Blaen Nantcellwen Nant Melyn

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## Legend

- Site Boundary

**Indicative Extent of Proposed Earthworks**

- Cuttings
- Embankments
- Figure 11 Section Line

Coordinate System: British National Grid

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**Outline Scheme Earthworks Proposals**

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Role
**Geotechnical**

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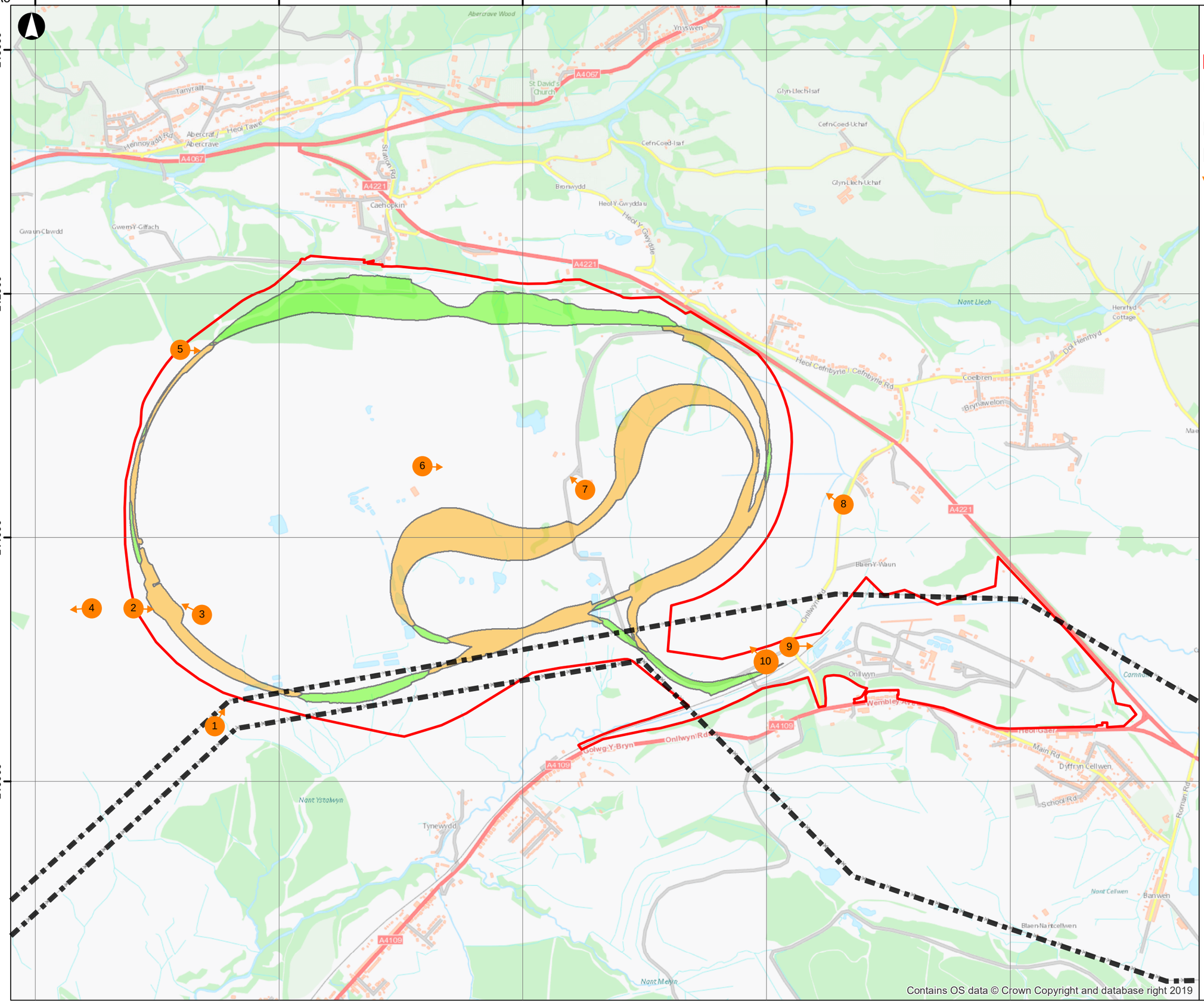
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## Legend

- Site Boundary

**Indicative Extent of Proposed Earthworks**

- Cuttings
- Embankments
- # Photo Location
- Overhead Electricity Cables

Coordinate System: British National Grid

Refer to Appendix A for site walkover photographs.

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Role
**Geotechnical**

Suitability
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Gwaunclawdd Colliery

Gwaunclawdd Colliery

Neath and Brecon Railway (Junction Line)

International Colliery

Abercrave Colliery

Unnamed Colliery

Glynllech/Cwm Tawe Colliery

Tramway

Tramway

Brecon Forest Tramroad

Neath and Brecon Railway

Dulais/Drym Colliery

Onllwyn Colliery

Seven Sisters Colliery

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## Legend

- Site Boundary
- Rail & Tram Lines
- Collieries

**Indicative Extent of Proposed Earthworks**

- Cuttings
- Embankments

Coordinate System: British National Grid

Colliery locations and rail/tram line routes have been determined through review of OS historical mapping (Groundsure).

Refer to Figure 8 and Figure 9 for the identified extents of underground workings and opencast workings respectively.

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Drawing Title
**Select Historical Features**

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Role
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Suitability
**For Information**

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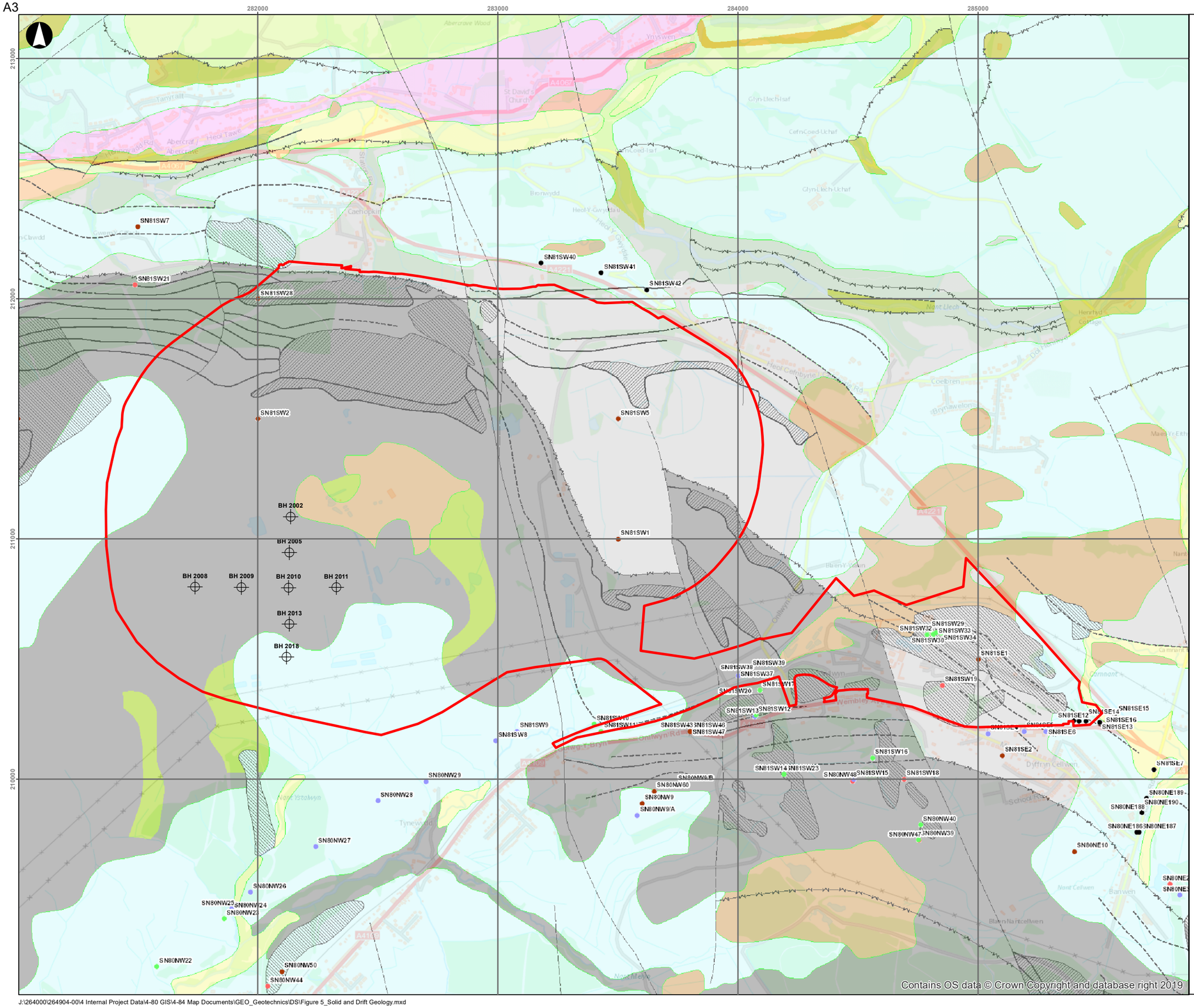
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**Legend**

- Site Boundary

**Published Geology**

- Made Ground
- Alluvium
- Peat
- Glaciofluvial Deposits
- Glacial Till
- South Wales Middle Coal Measures Formation - Mudstone, Siltstone and Sandstone
- South Wales Middle Coal Measures Formation - Sandstone
- South Wales Lower Coal Measures Formation - Mudstone, Siltstone and Sandstone
- BGS Borehole Scans
- Nant Helen Geotechnical Boreholes (1986)

Coordinate System: British National Grid

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Drawing Title
**Solid and Drift Geology**

Scale at A3
**1:15,000**

Role
**Geotechnical**

Suitability
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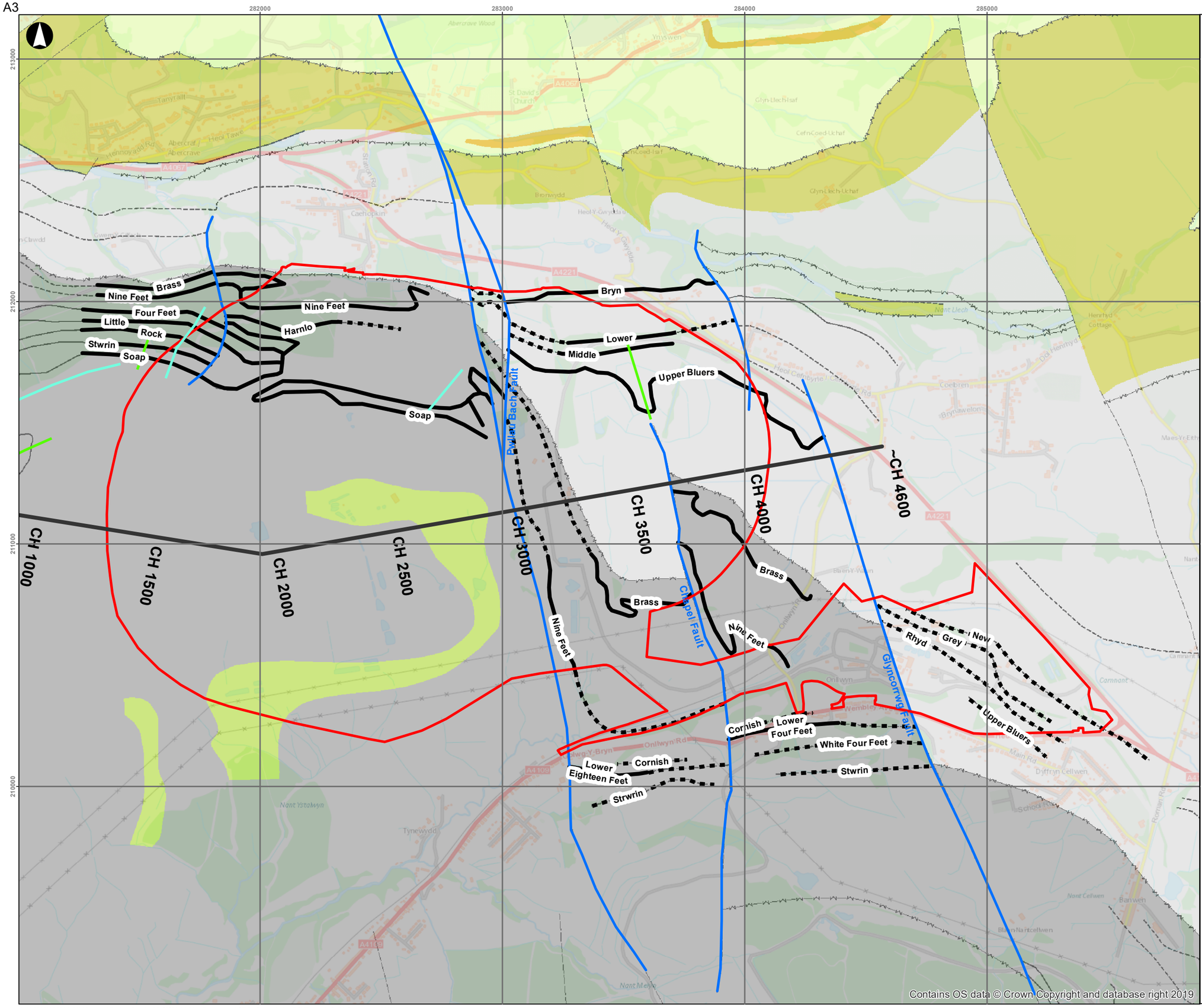
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## Legend

- Site Boundary

**Coal Seams**

- *Observed*
- *Inferred*

**Published Geology**

- South Wales Middle Coal Measures Formation - Mudstone, Siltstone and Sandstone
- South Wales Middle Coal Measures Formation - Sandstone
- South Wales Lower Coal Measures Formation - Mudstone, Siltstone and Sandstone
- Faults
- *Anticlinal axis*
- *Synclinal axis*

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Drawing Title
**Linear Geological Features**

Scale at A3
**1:15,000**

Role
**Geotechnical**

Suitability
**For Information**

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Drawing No
**Figure 6**



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River Tawe

Nant Llech

Restored Pond Feature

Water Treatment Area

Water Treatment Area

Water Treatment Area

Camnant

Nany Ystalwyn

River Dulais

Abercrave Wood
Onbarth
Ynyswen
St David's Church
Glyn-Llech-Isaf
Cefn-Coed-Uchaf
Cefn-Coed-Isaf
Glyn-Llech-Uchaf
Tanyrallt
Tanygarn St
School Rd
Heol-Tawe
A4067
Hennoyadd Rd
Abercrave/Abercrave
Station Rd
Heol-Y-Gwyddde
Bronwydd
Heol-Y-Gwyddau
Morgan St
Davies St
Gaehopkin
Gwaun-Clawdd
Gwern-Y-Gilfach
Nant Llech
Henrhyd Cottage
Dol Henrhyd
Heol Cefnbyrle / Cefnbyrle Rd
A4221
Coelbren
Brynawelon
Blaen-Y-Waun
Onllwyn Rd
Onllwyn
Abbey Ave
Camnant
A4109
Dyffryn Cellwen
Main Rd
Highland Cres
School Rd
Roman Rd
Nant Ystalwyn
Northerwaun Uchaf
Nant Melyn
Heol-Y-Waun
Heol-Y-Fainmary St
Nant Llwyn
Banwen
Blaen-Nantcellwen

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## Legend

- Site Boundary
- Surface Water Features
- Culverted Watercourses
- Existing Water Treatment

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Drawing Title
**Hydrological Features**

Scale at A3
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Role
**Geotechnical**

Suitability
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**Figure 7**

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Gwaunclawdd Colliery

Gwaunclawdd Colliery

International Colliery

Unnamed Colliery

Abercrave Colliery

RISK ZONE B

Glynllech/Cwm Tawe Colliery

RISK ZONE C

CH 3000

CH 3500

CH 4000

~CH 4600

RISK ZONE A

RISK ZONE D

CH 1000

CH 1500

CH 2000

CH 2500

G

H

E

F

B

A

C

C

D

Onllwyn Colliery

Seven Sisters Colliery

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## Legend

- Site Boundary
- Shafts
- Adits
- Collieries
- Cuttings
- Embankments

**Old Workings**

- Brass
- Peacock (Brass)
- Nine Feet
- Big (Nine Feet)
- Unnamed

- Risk Zones — *Risk of subisdence on account of potential shallow workings*
- Figure 11 Section Line

Old workings have been geo-referenced from files provided by Celtic Energy. The extents shown are for indicative purposes only.

Coordinate System: British National Grid

Metres

0 400 800

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|---|---|---|---|---|
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Project Title
**Land at Nant Helen and Onllwyn Coal Washery**

Drawing Title
**Identifed extent of below ground workings**

Scale at A3
**1:15,000**

Role
**Geotechnical**

Suitability
**For Information**

Arup Job No
**264904**

Rev
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Drawing No
**Figure 8**

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A3

282000 283000 284000 285000

213000 212000 211000 210000

Gwaunclawdd Colliery

Gwaunclawdd Colliery

International Colliery

Unnamed Colliery

Abercrave Colliery

RISK ZONE B

Glynllech/Cwm Tawe Colliery

Abercrave/Gwaunton

Nant Helen Extension

Nant Helen

CH 1000

CH 1500

CH 2000

CH 2500

CH 3000

CH 3500

CH 4000

~CH 4600

Onllwyn

RISK ZONE A

Onllwyn

Onllwyn Colliery

Dulais/Drym Colliery

RISK ZONE C

Seven Sisters Colliery

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## Legend

- Site Boundary
- Collieries
- Shafts
- Adits
- Cuttings
- Embankments

**Opencast Sites**

- *Onllwyn (1946-1949)*
- *Abercrave/Gwaunton (1963-1973)*
- *Onllwyn (1972-1982)*
- *Nant Helen (1986-1999)*
- *Nant Helen Extension (2002-2006)*
- *Nant Helen Extension (2006-2009)*
- *Nant Helen Extension (2009-2019)*
- Cefn Bryle License Area *(1952-1953)*
- Risk Zones *Risk of subsidence on account of potential shallow underground mine workings*
- Figure 11 Section Line

Opencast site extents have been determined through review of Opencast abandonment plans provided by Celtic energy and cross-referenced with historical aerial photography provided by the Welsh Government. The extents shown are for indicative purposes only.

Coordinate System: British National Grid

Metres

0 400 800

| Rev | Date | By | Chkd | Appd |
|---|---|---|---|---|
| P1 | 22-11-2019 | JC | TW | DR |

ARUP

4 Pierhead Street
Cardiff CF10 4QP
Tel +44 29 2047 3727 Fax +44 29 2047 2277
www.arup.com

Client
**Welsh Government**

Project Title
**Land at Nant Helen and Onllwyn Coal Washery**

Drawing Title
**Identified extents of opencast workings**

Scale at A3
**1:15,000**

Role
**Geotechnical**

Suitability
**For Information**

Arup Job No
**264904**

Rev
**P1**

Drawing No
**Figure 9**

12/12/2019 16:57:48

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A3

281000 282000 283000 284000 285000

213000 212000 211000 210000

Brecon Beacons

NANT LLECH

GORSLLWYN, ONLLWYN

Ancient Semi Natural Woodland

Plantation on Ancient Woodland Site

Ancient Semi Natural Woodland

Plantation on Ancient Woodland Site

Tramroad at Ystradgynlais

Bryn Llechwen ring cairn

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## Legend

- Site Boundary
- National Parks
- Sites of Special Scientific Interest
- Ancient Woodland
- Scheduled Ancient Monuments

**Indicative Extent of Proposed Earthworks**

- Cuttings
- Embankments

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Coordinate System: British National Grid

Metres
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11/12/2019 16:03:50

ARUP

13 Fitzroy Street
London W1T 4BQ
Tel +44 20 7636 1531 Fax +44 20 7580 3924
www.arup.com

Client
**Welsh Government**

Project Title
**Land at Nant Helen and Onllwyn Coal Washery**

Drawing Title
**Sensitive Land Uses**

Scale at A3
**1:15,000**

Role
**Geotechnical**

Suitability
**For Information**

Arup Job No
**264904**

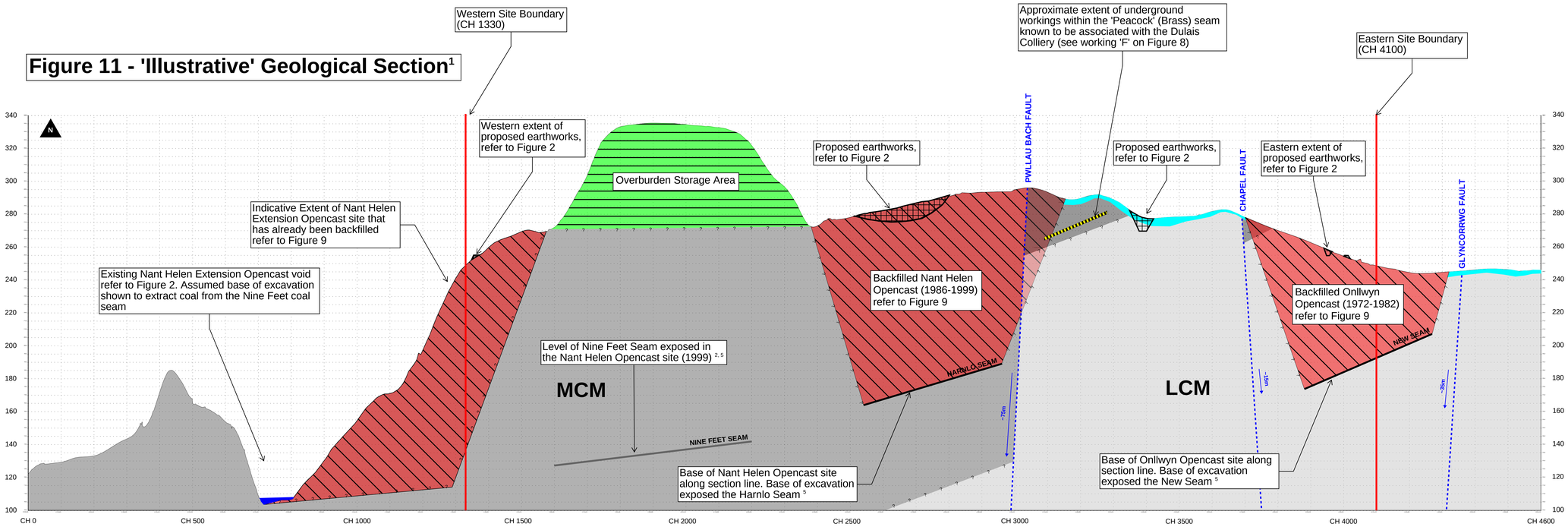
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Name
**Figure 10**

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# Figure 11 - 'Illustrative' Geological Section[1]




**LEGEND**

**Geology**

- Glacial Till
- South Wales Middle Coal Measures (MCM)
- South Wales Lower Coal Measures (LCM)
- Faults
- Coal Seams

**Workings**

- Overburden Storage Area
- Backfilled Opencast
- Underground Workings
- Proposed Earthworks (Cuttings and Embankments)

**NOTES**

1. This figure is for illustrative purposes only and has been included to highlight the anticipated geology beneath the site and the depths of the various opencast sites within the Land at Nant Helen and Onllwyn Coal Washery site.

2. The level of the Nine Feet Seam exposed pertains to a section of the Nant Helen opencast site which is offset approximately ~400m to the north of the long section shown.

3. Ground surface level from LiDAR data.

4. Fault orientations displayed for indicative purposes only. Fault displacements and directions indicated on each fault.

5. Coal Seams shown refer to those used to determine the indicative extents of opencast excavation. For an indication of the overlying and underlying seams within each formation refer to Table 3.

6. As stated within Section 5.3 of thisproposed earthworks, refer to figure 2 report, the solid geology beneath the site is anticipated to dip between 5° and 15° in a west-south-westerly direction.

7. Groundwater level not indicated on figure due to the anticipated complex and varied nature of the hydrogeological regime and the lack of current groundwater data held within the site. Refer to Section 8 of the report.

**SCALE**

V 1: 1000 @ A0

H 1: 5000 @ A0

# Appendix A

Site Walkover Photographs



Photograph 1



Photograph 2



Photograph 3



Photograph 4




Photograph 5



Photograph 6



Photograph 7



Photograph 8



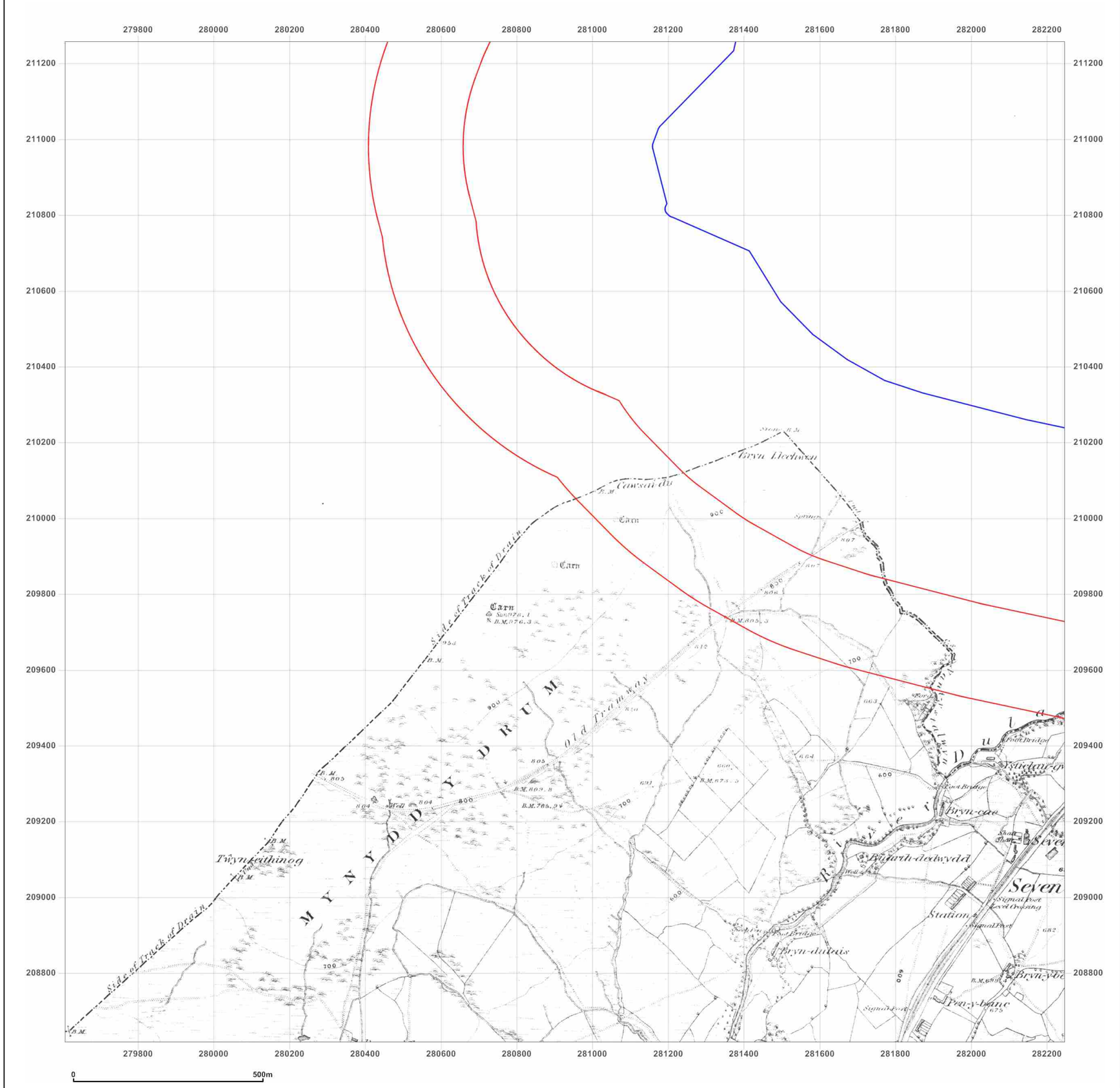

Photograph 9



Photograph 10

# Appendix B

Groundsure Historical Maps




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211100.677756288

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**Grid Ref:** 280926, 209937

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

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

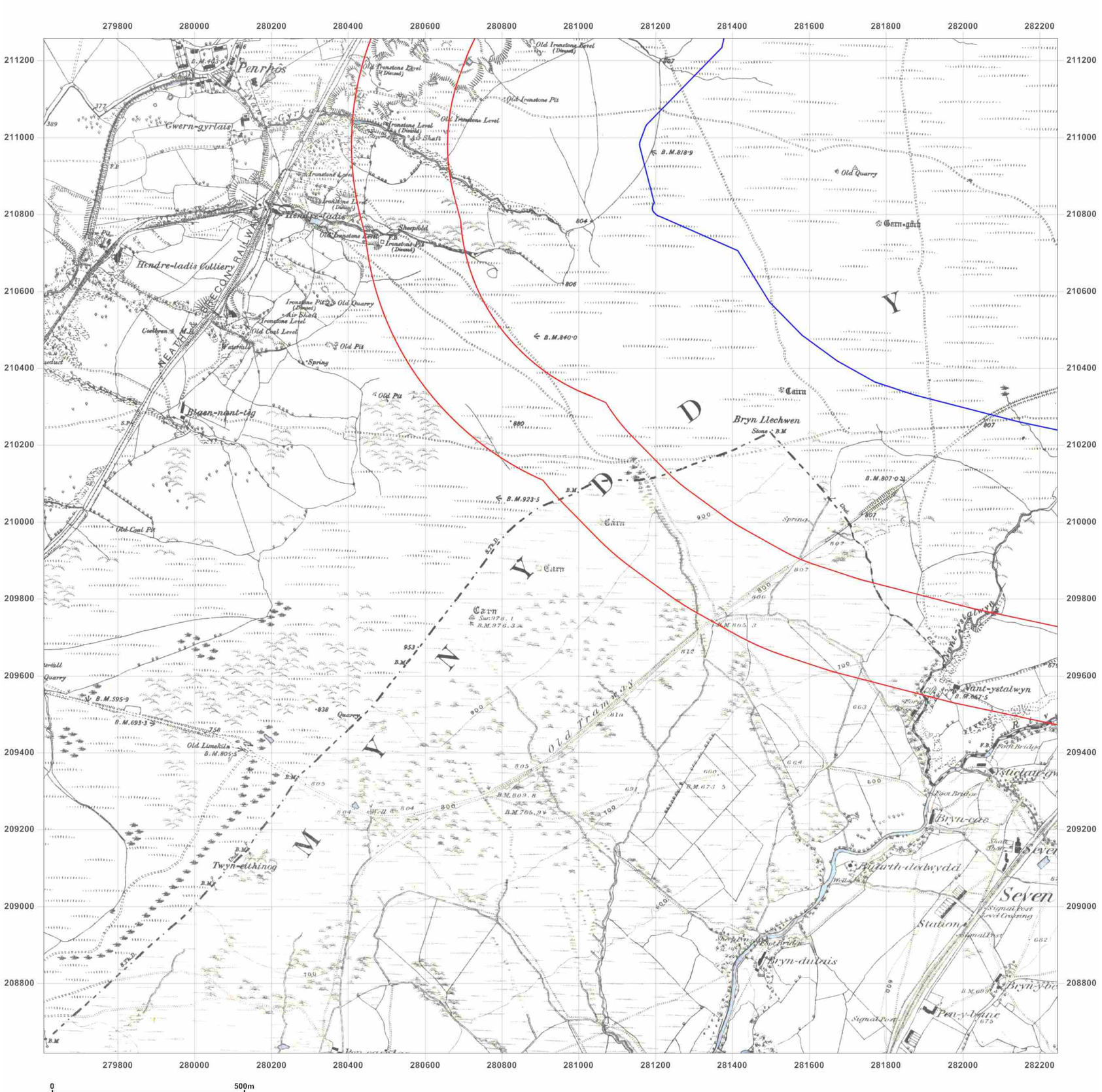
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Revised 1877
Edition N/A
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Levelled N/A

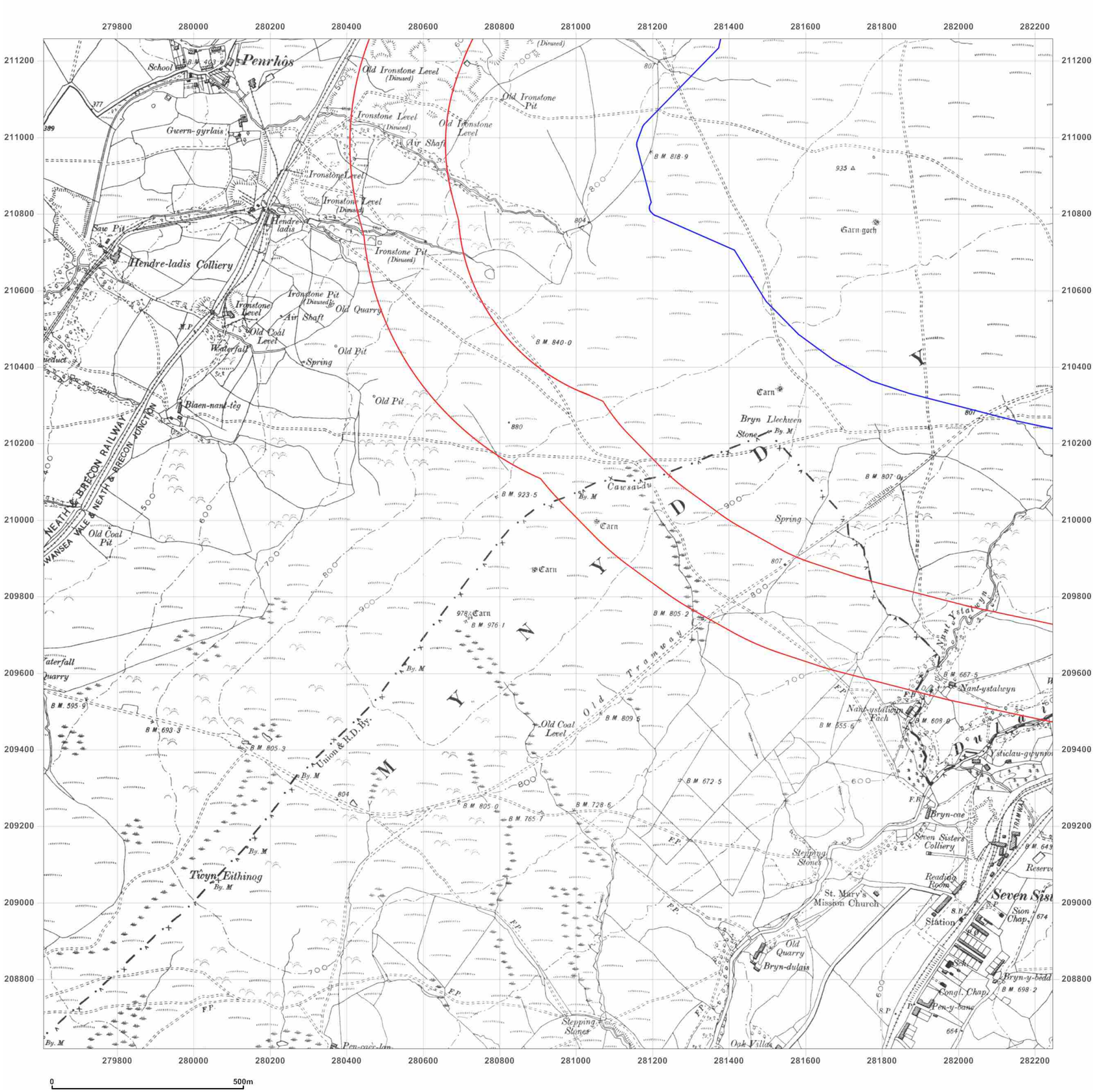
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Revised 1901
Edition N/A
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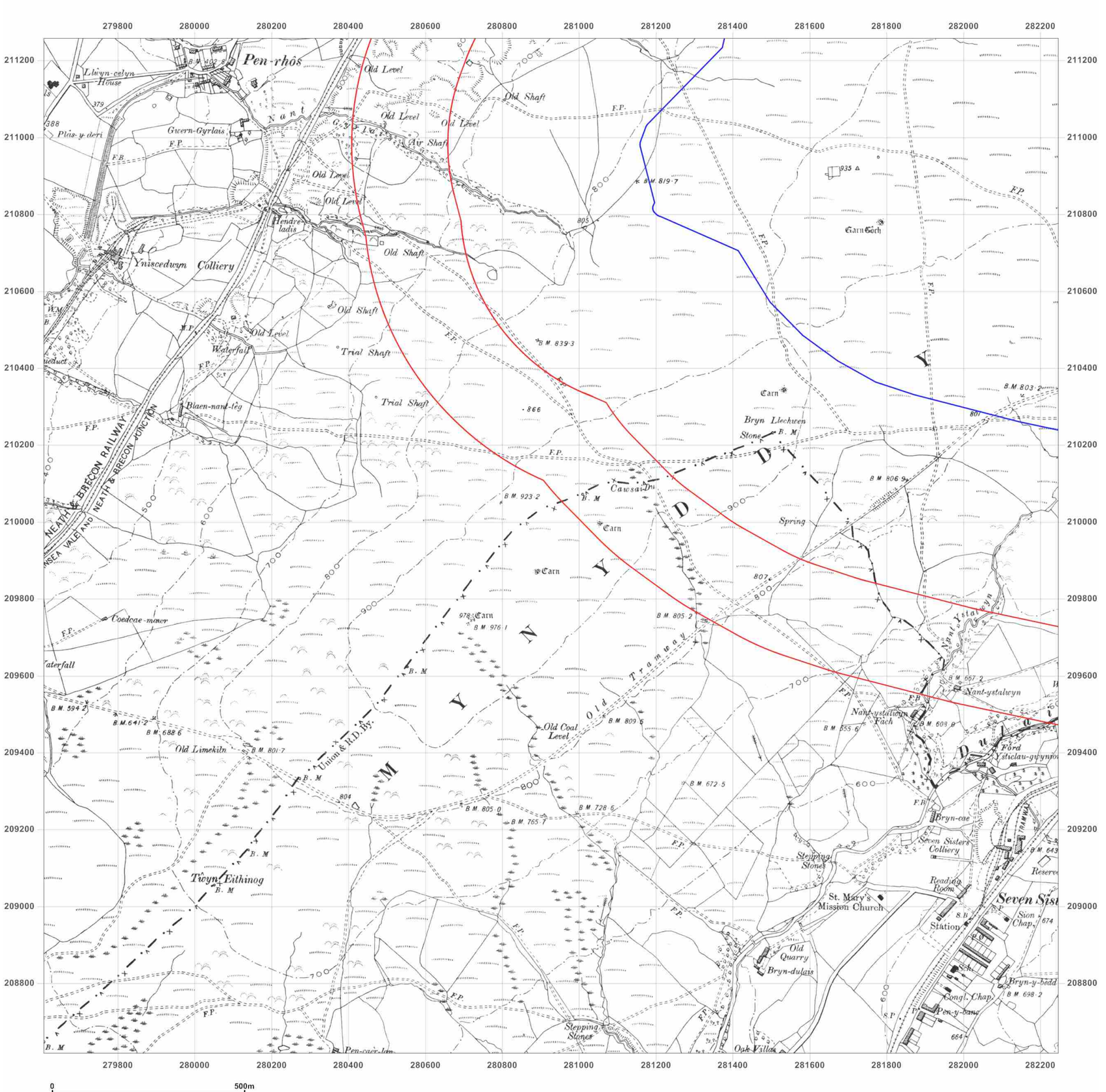
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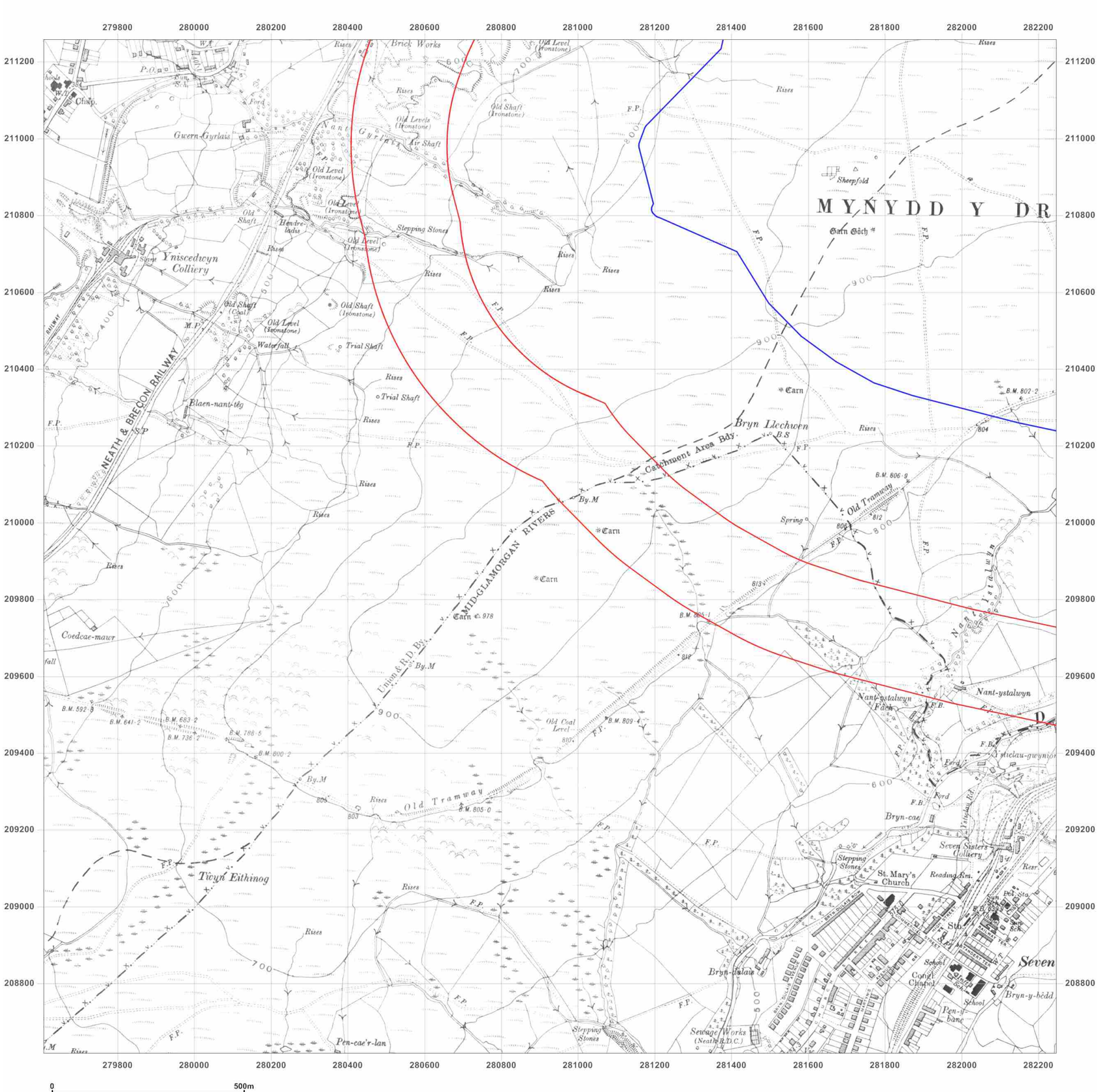
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Revised 1914
Edition N/A
Copyright N/A
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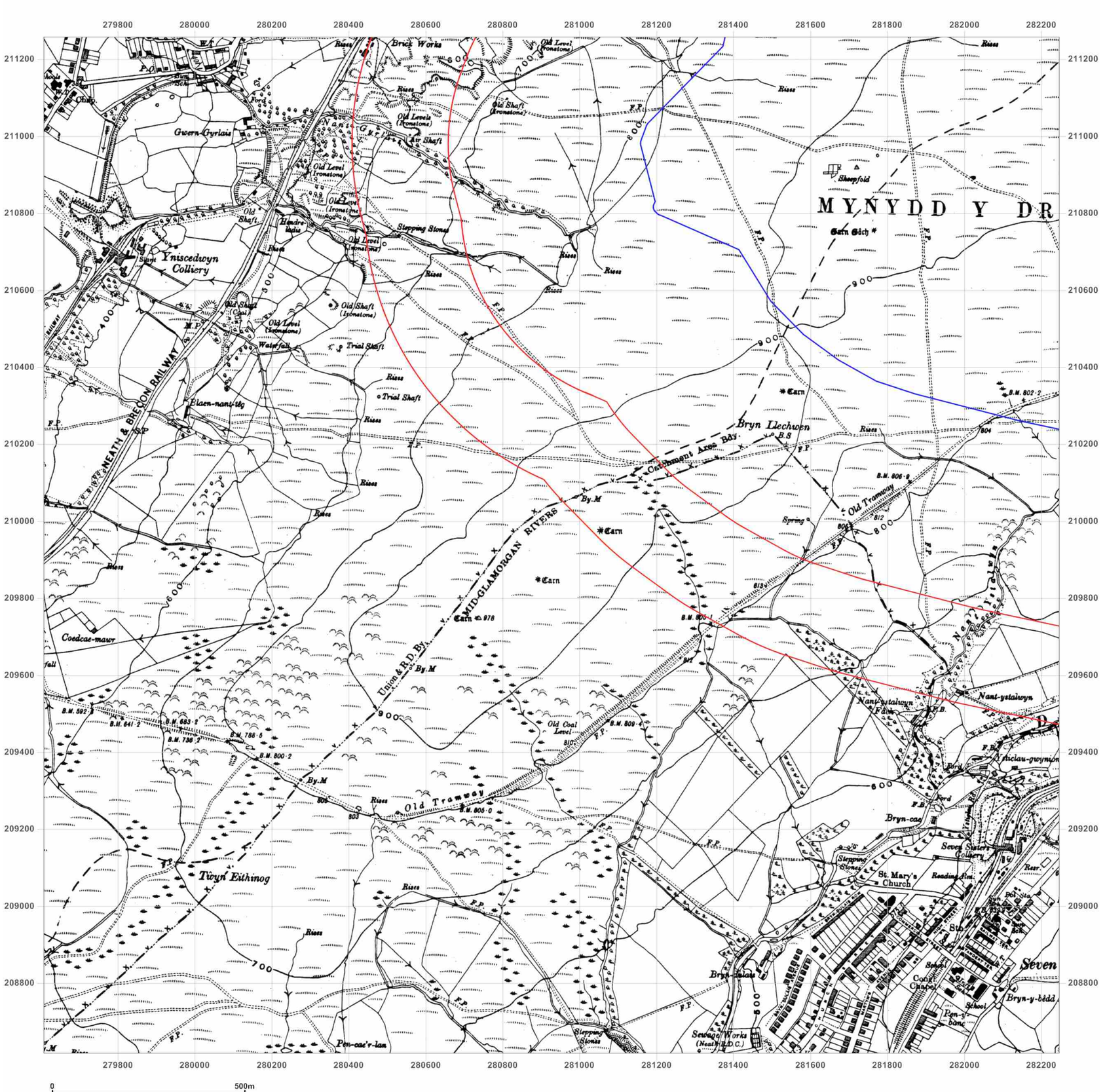
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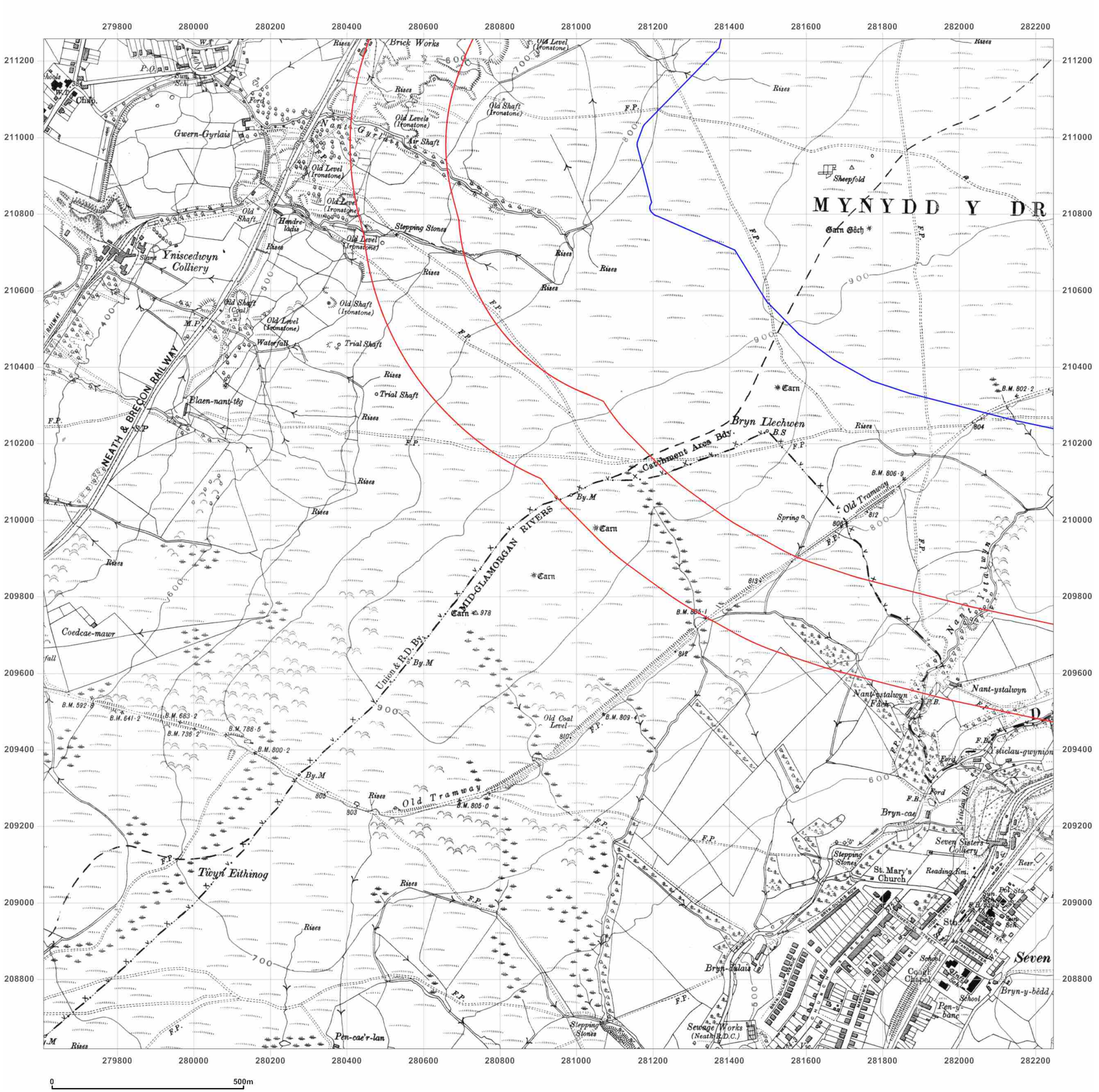
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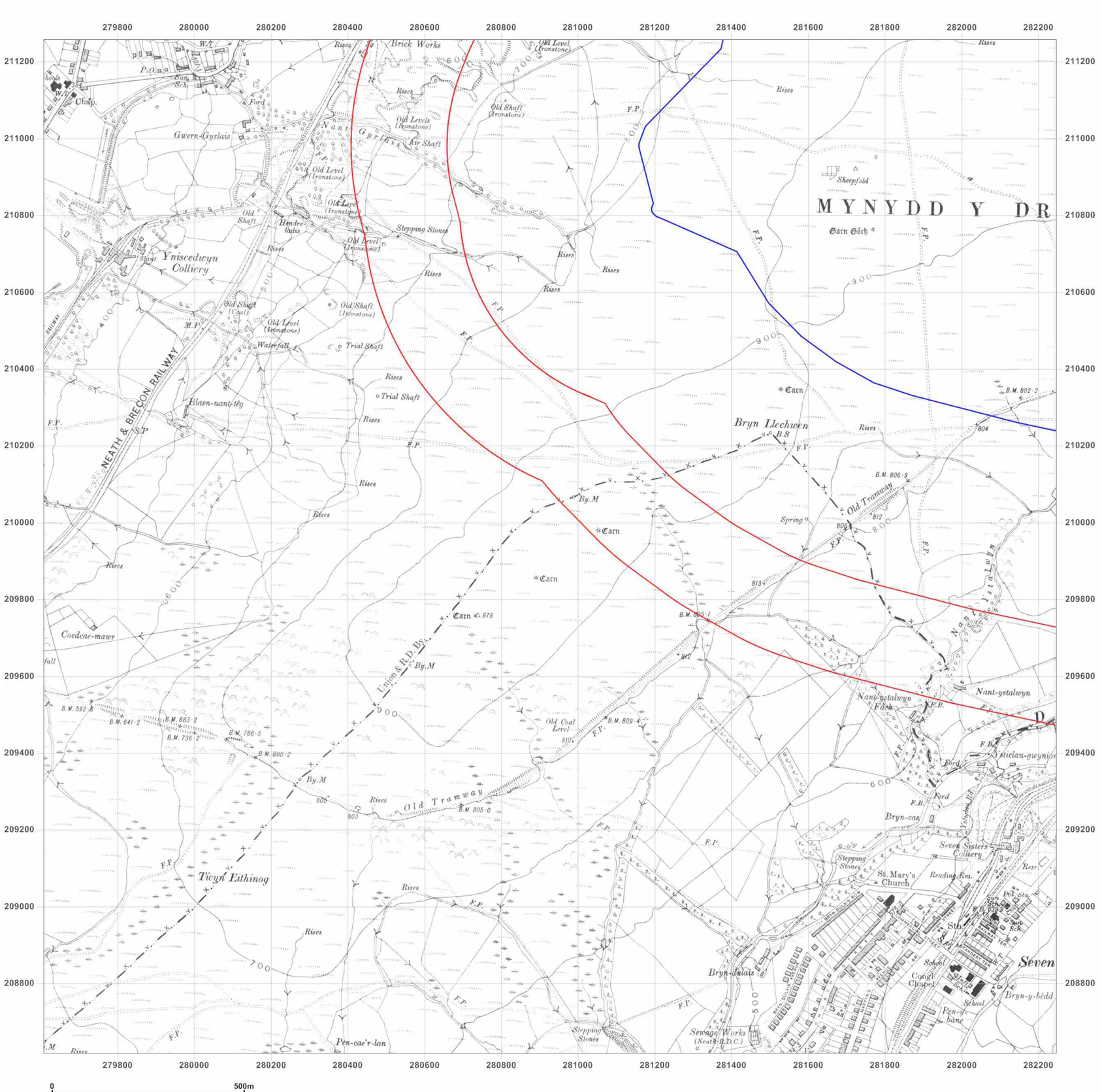
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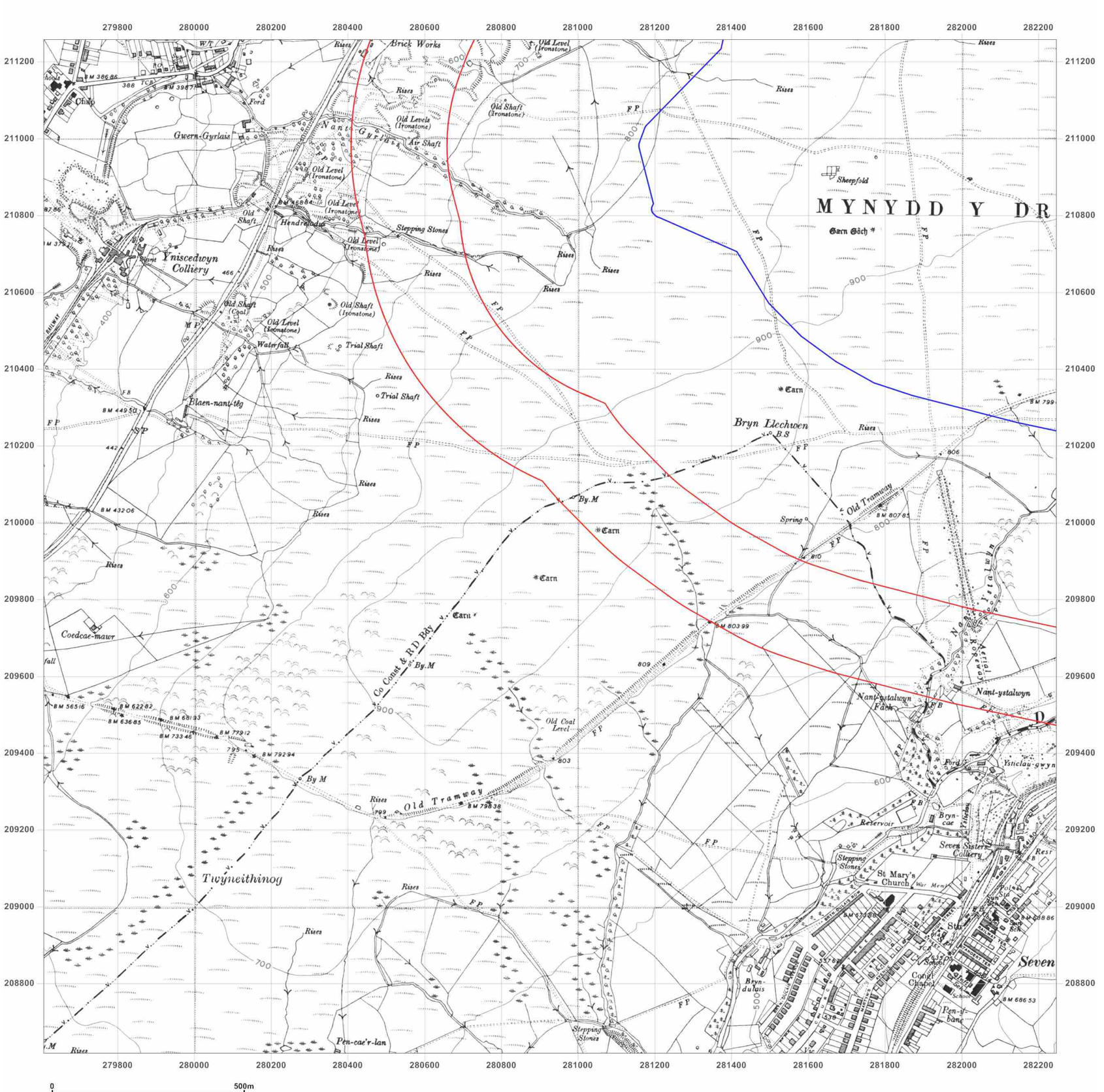
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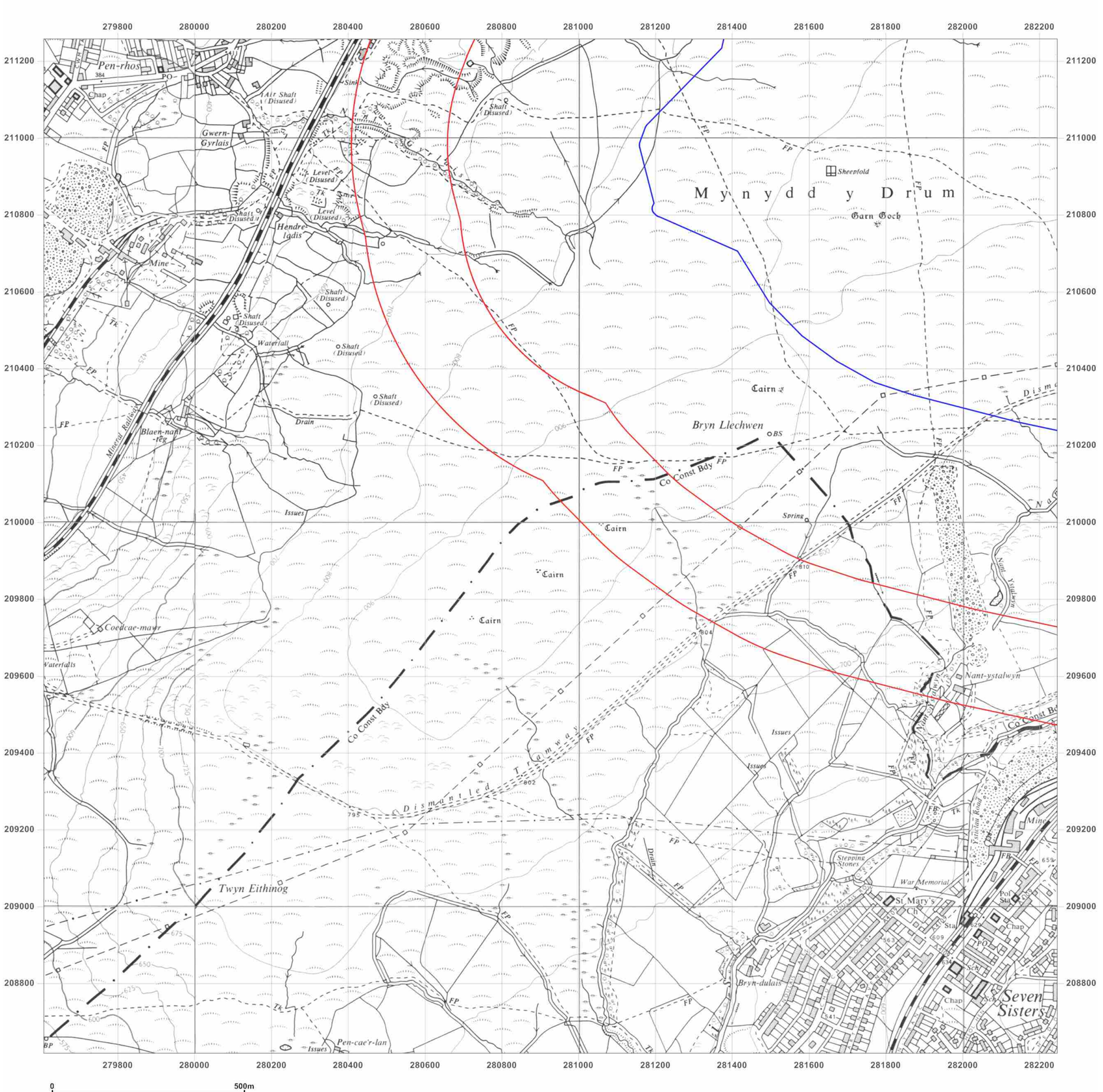
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Copyright N/A
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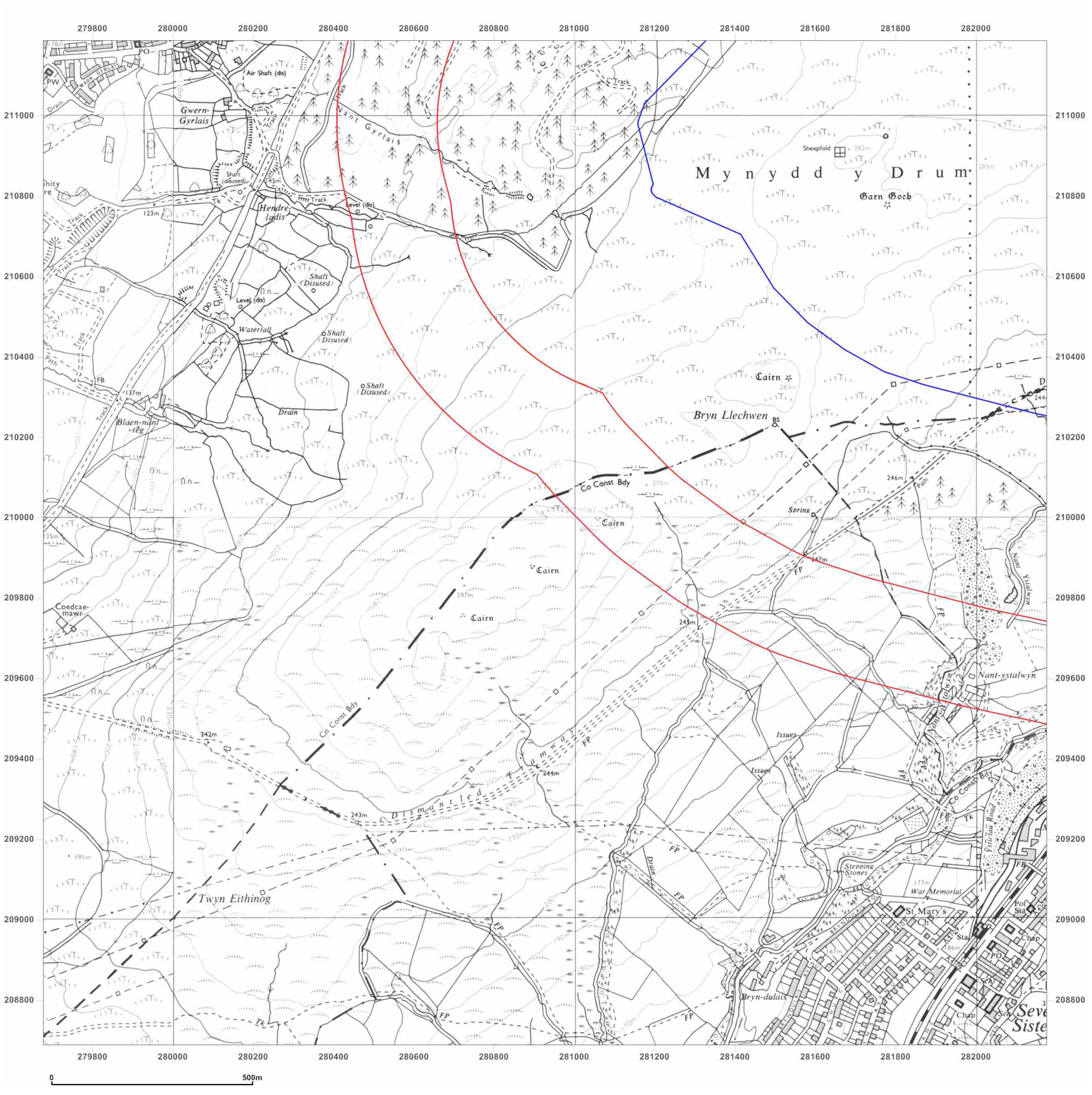
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Levelled N/A

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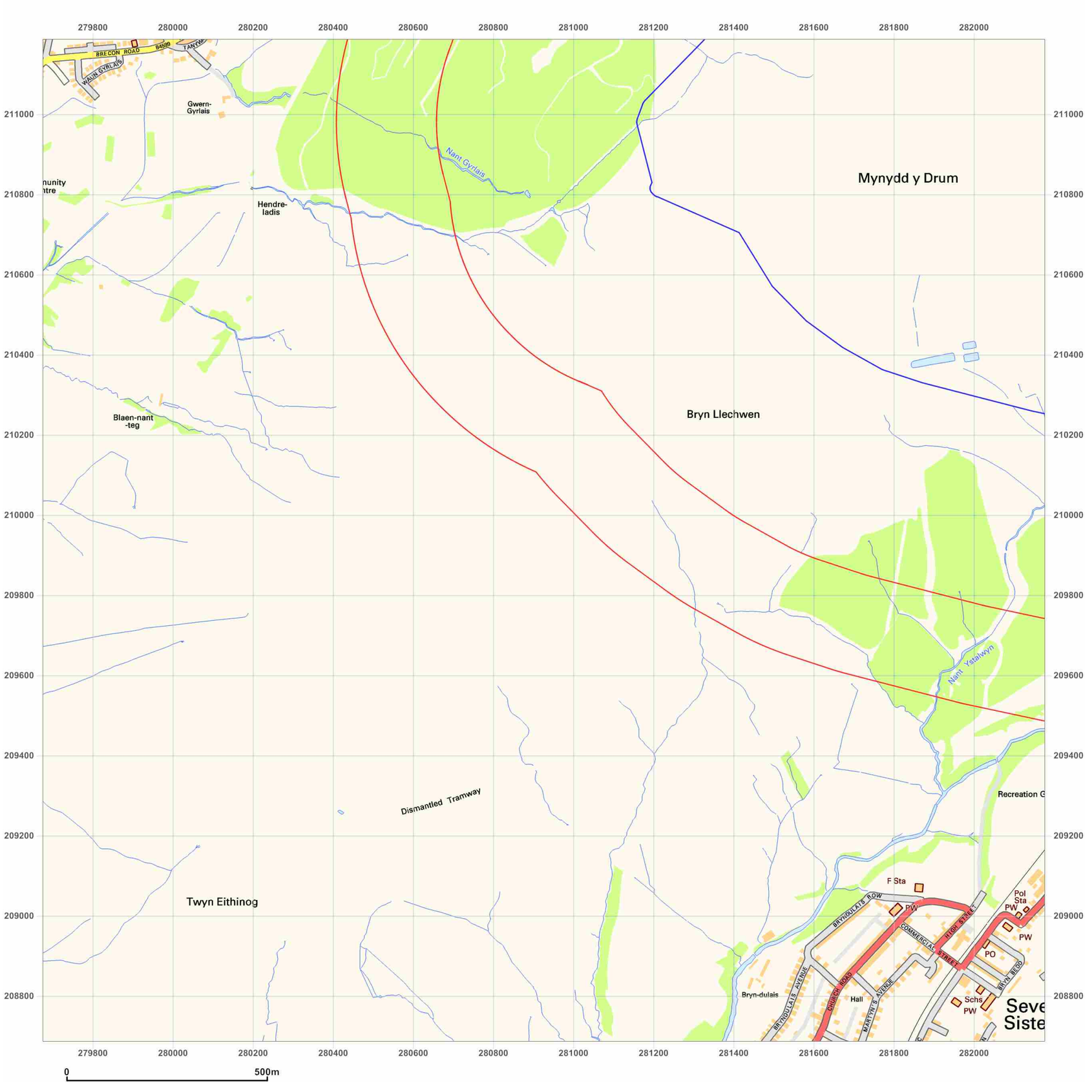
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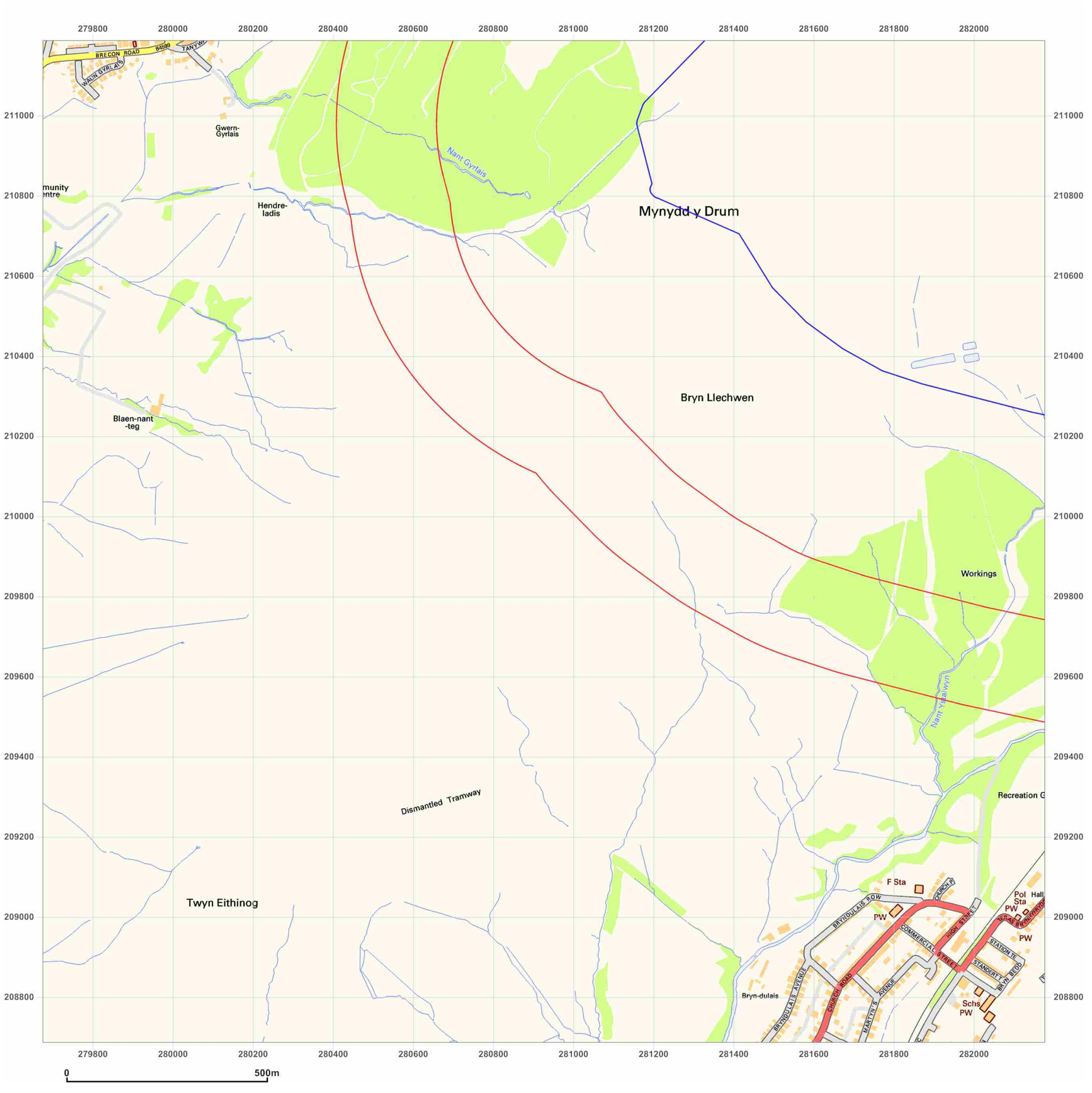
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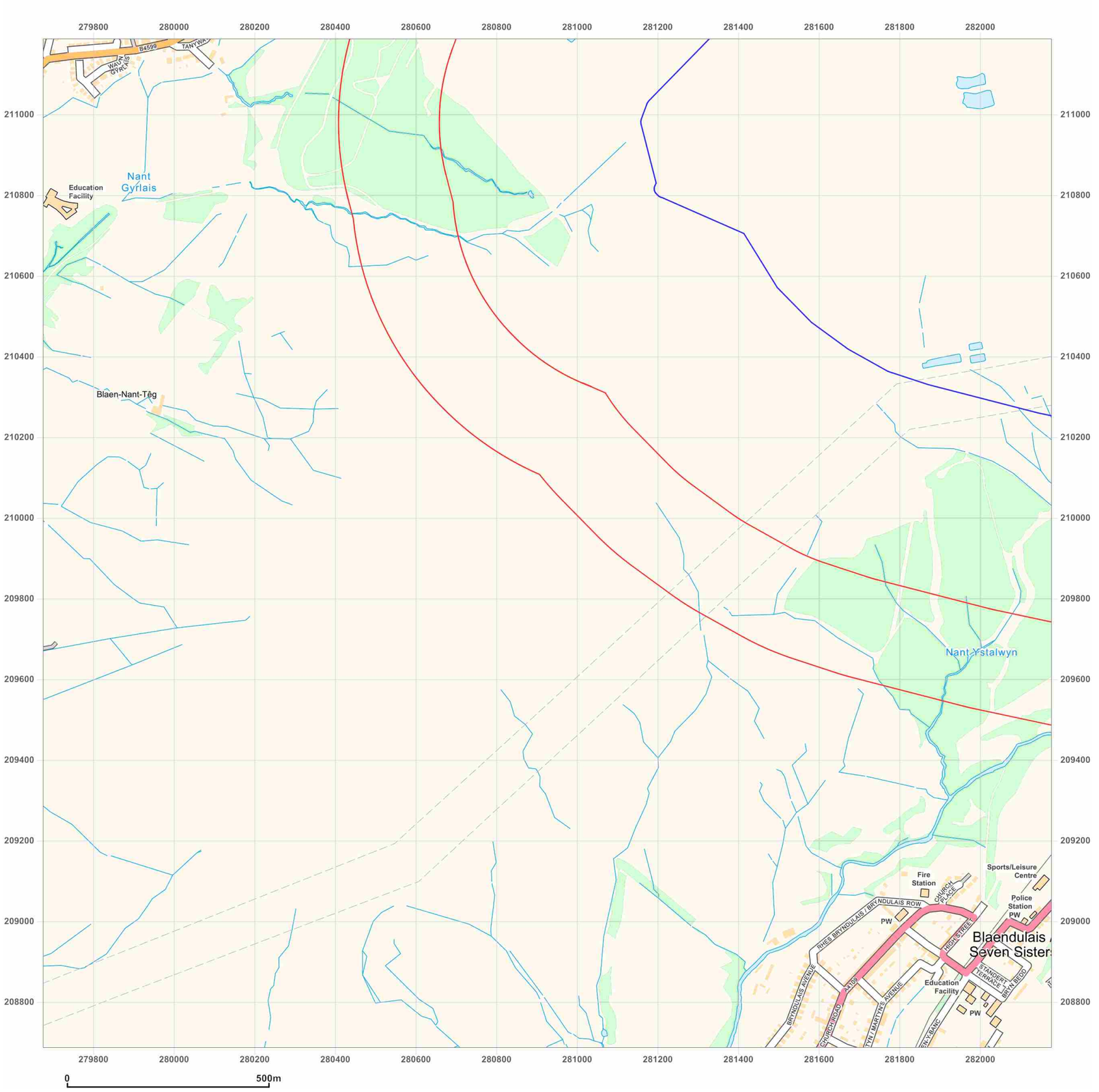
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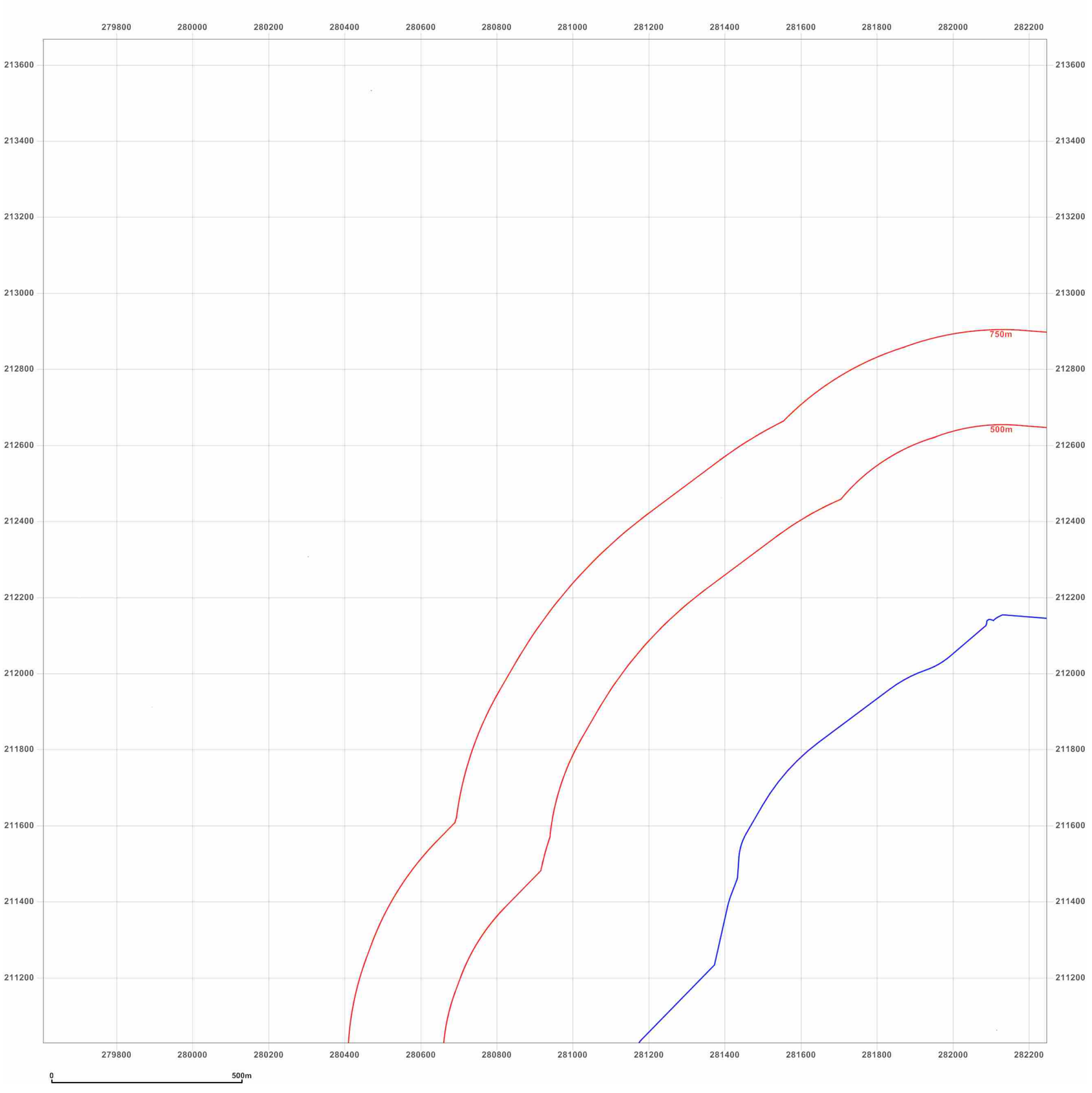
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**Printed at:** 1:10,560

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

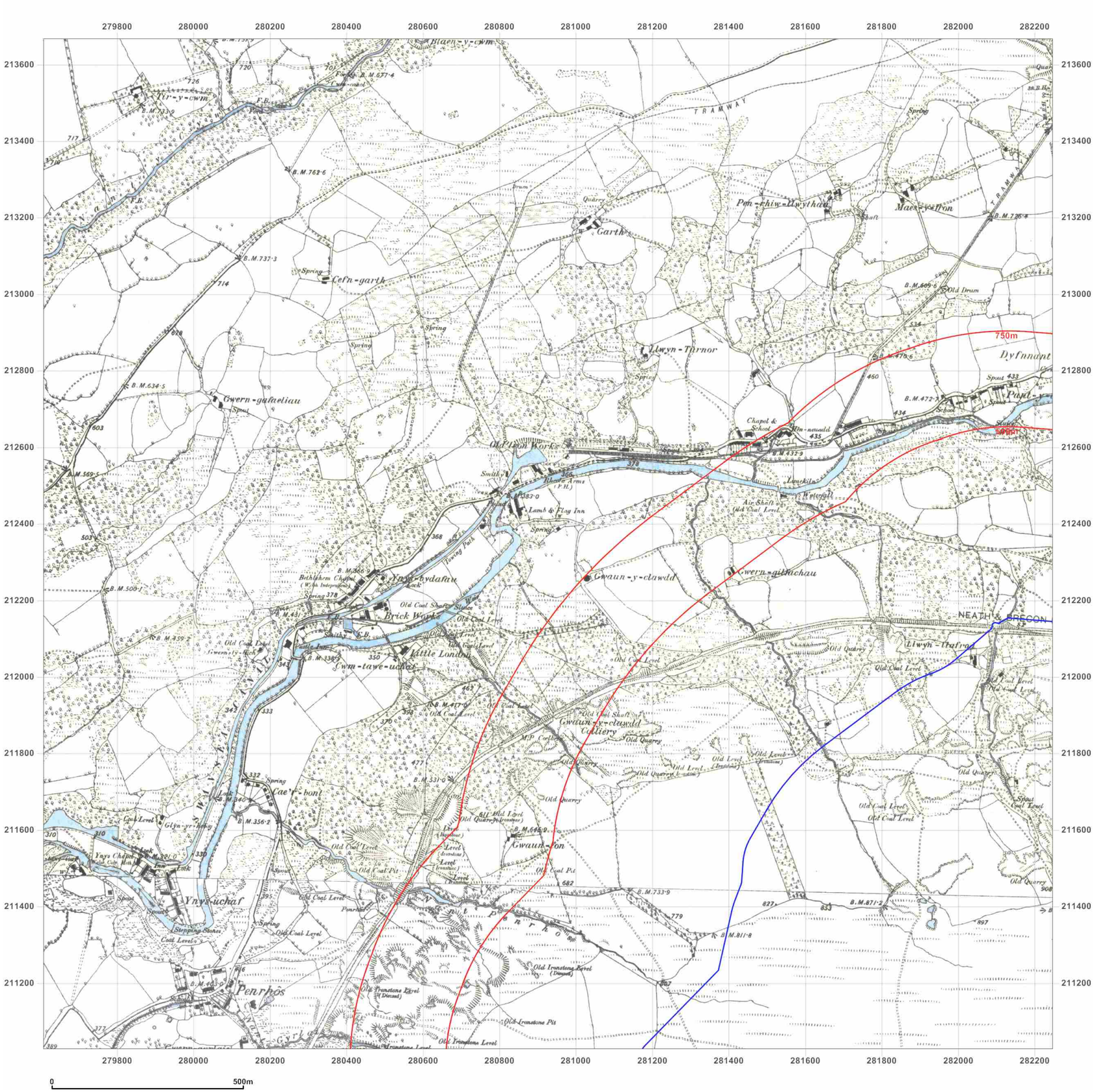
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Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

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

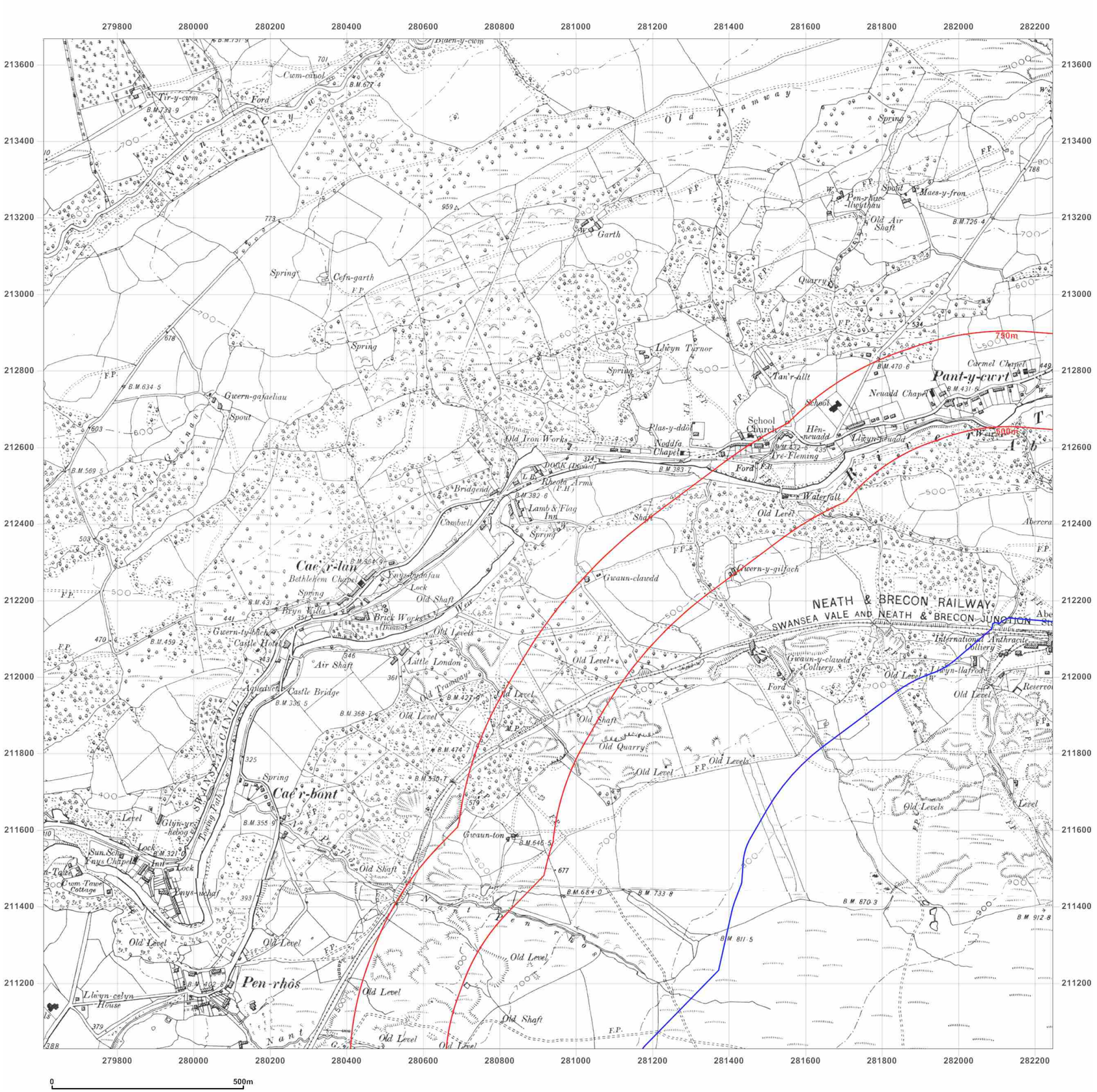
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

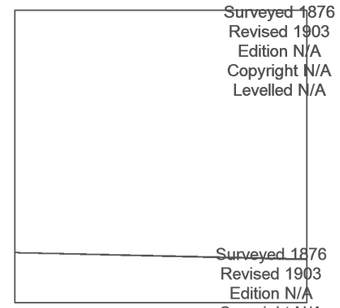
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**Map date:** **1903**

**Scale:** 1:10,560

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

N
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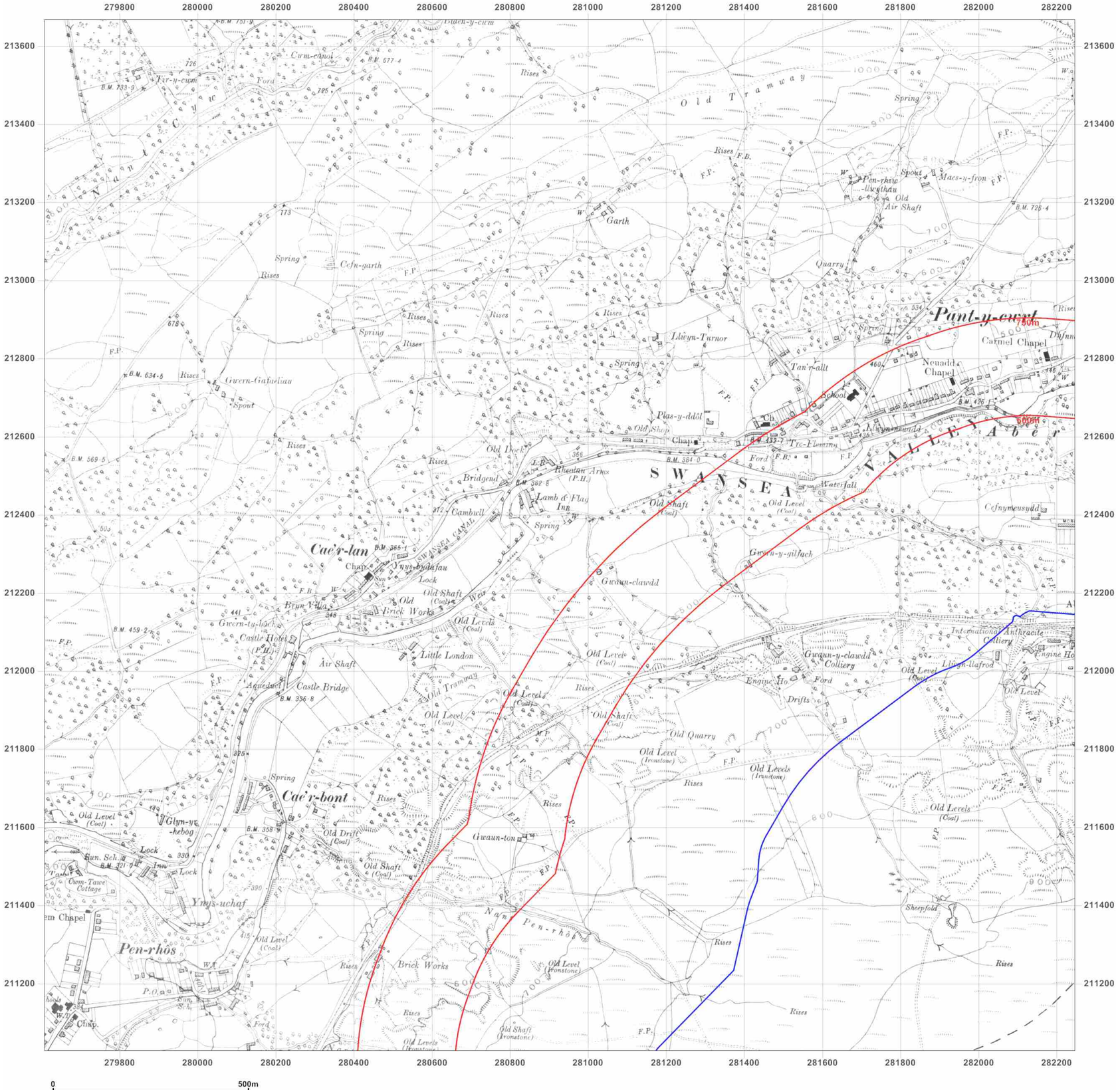

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**Site Details:**

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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** County Series

**Map date:** **1914**

**Scale:** 1:10,560

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

N
W E
S

Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

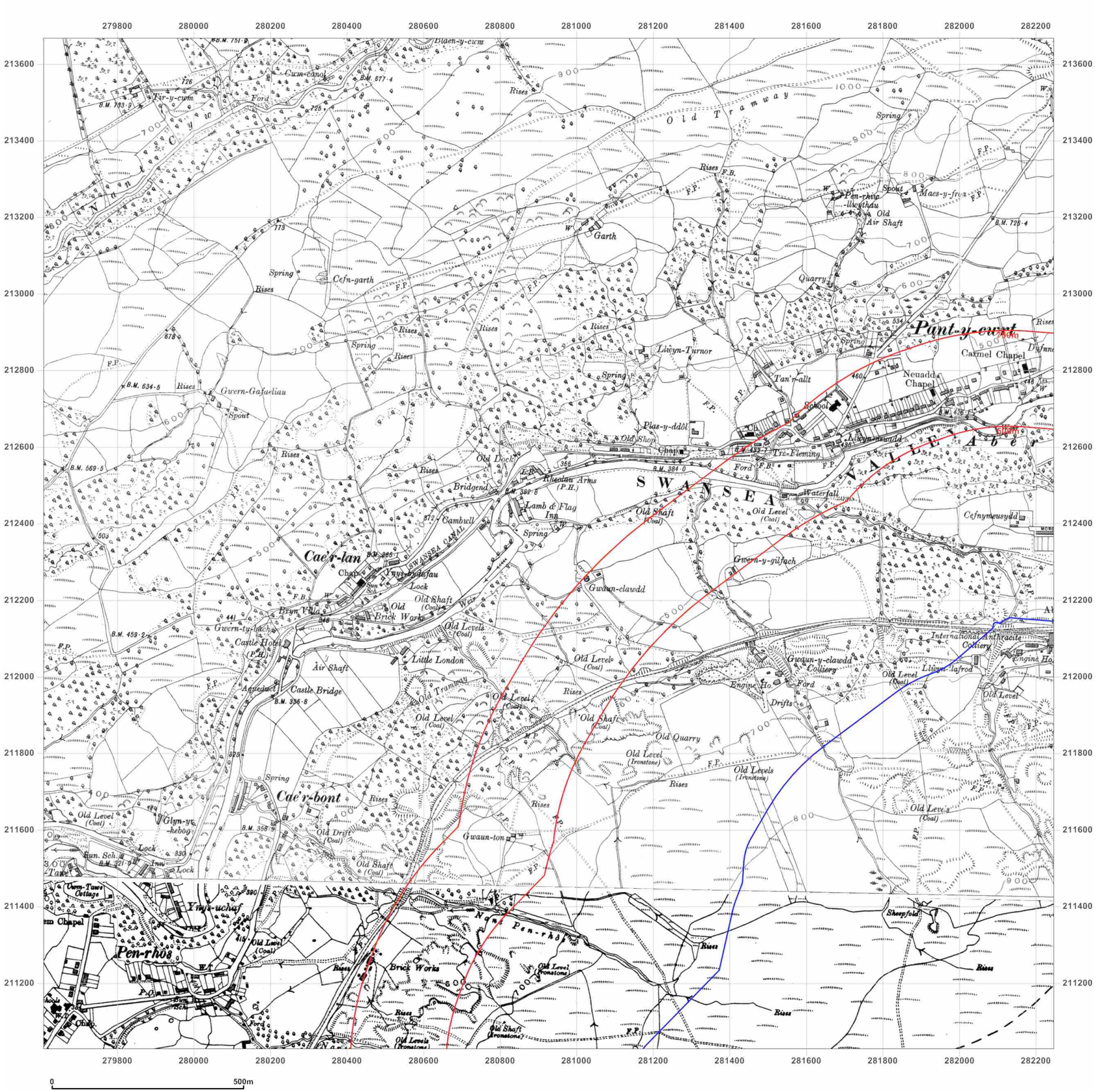
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

N
W E
S

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

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

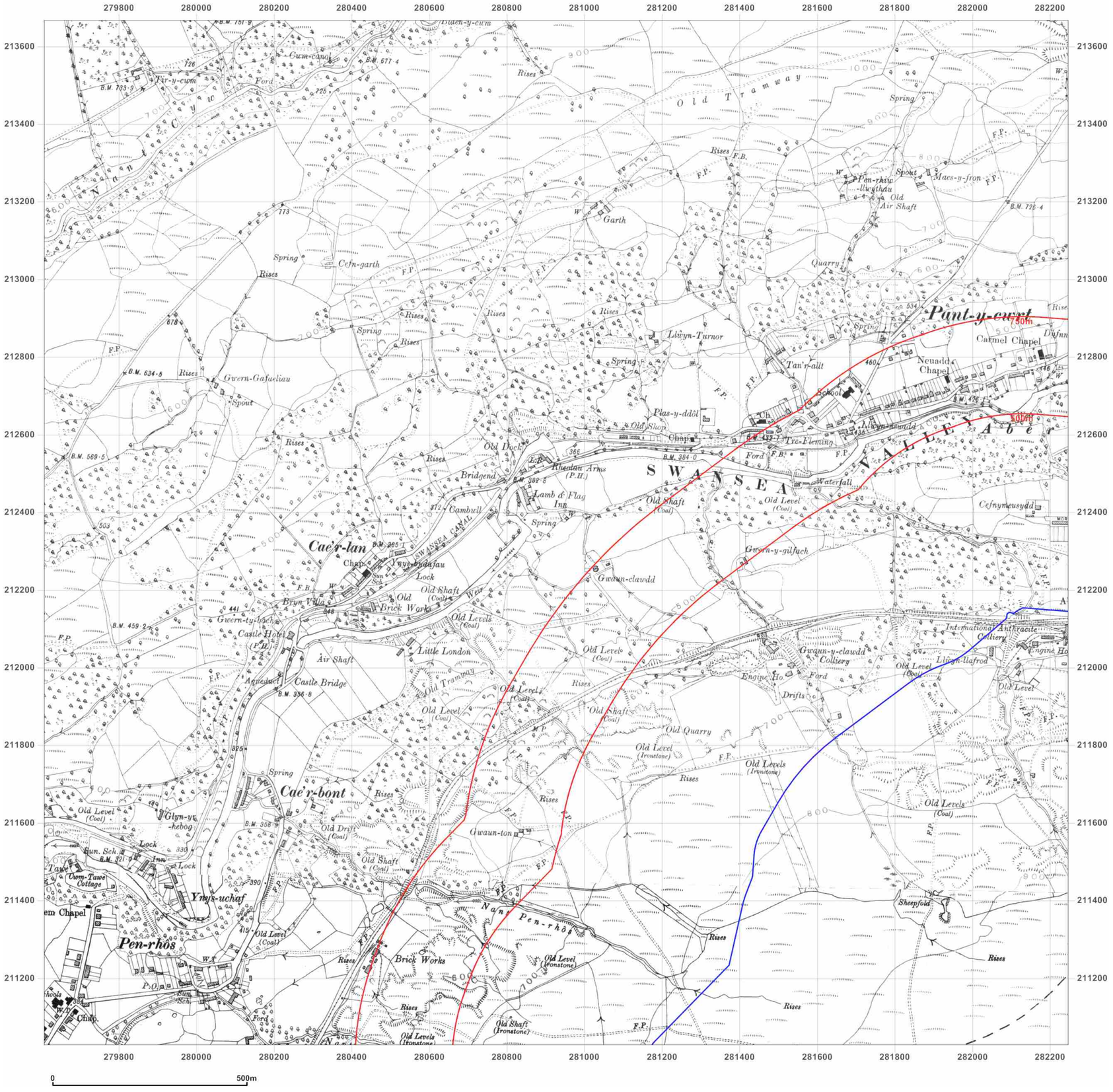
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**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

N
W E
S

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

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

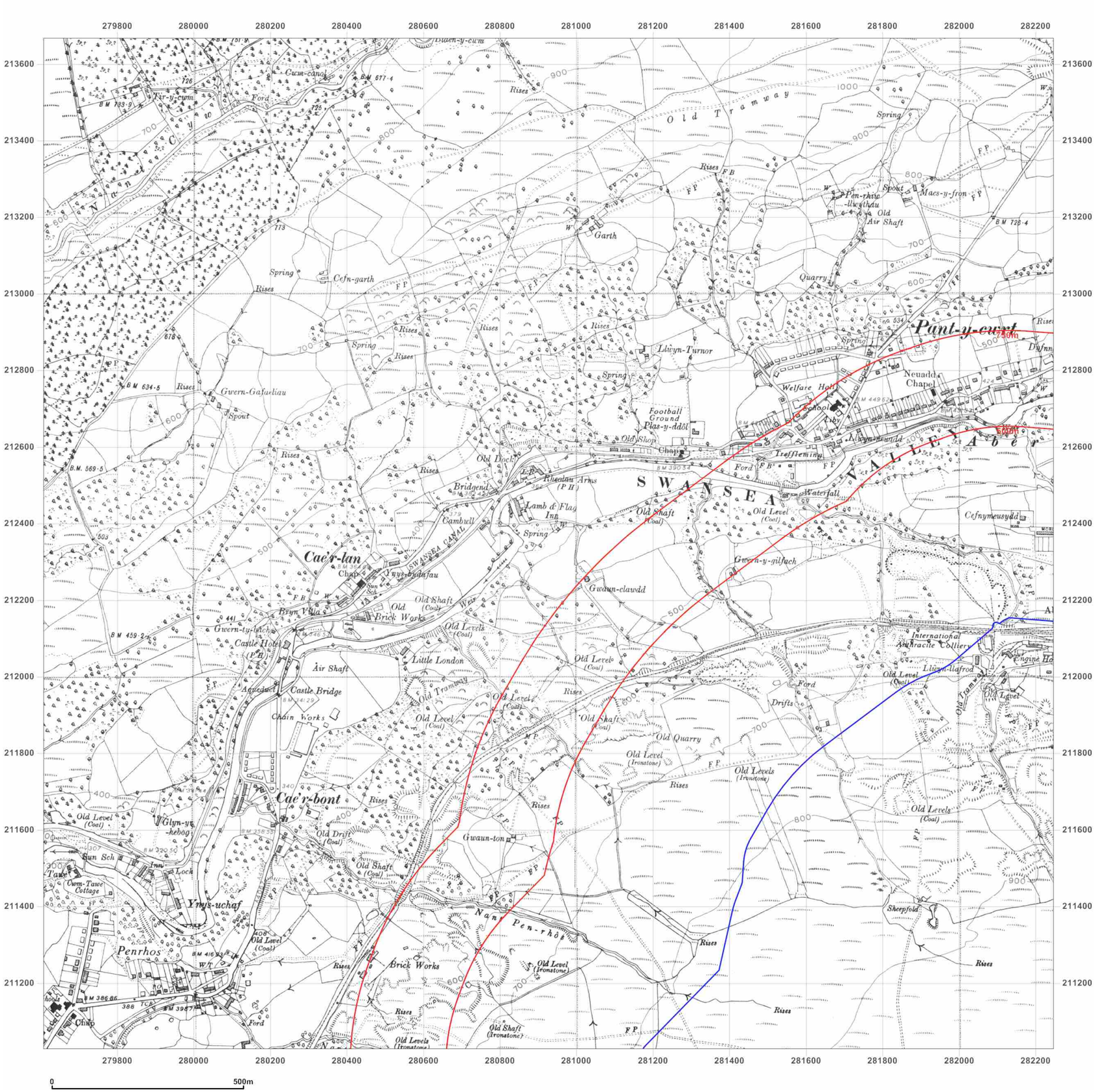
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** County Series

**Map date:** **1948**

**Scale:** 1:10,560

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

N
W E
S

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

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

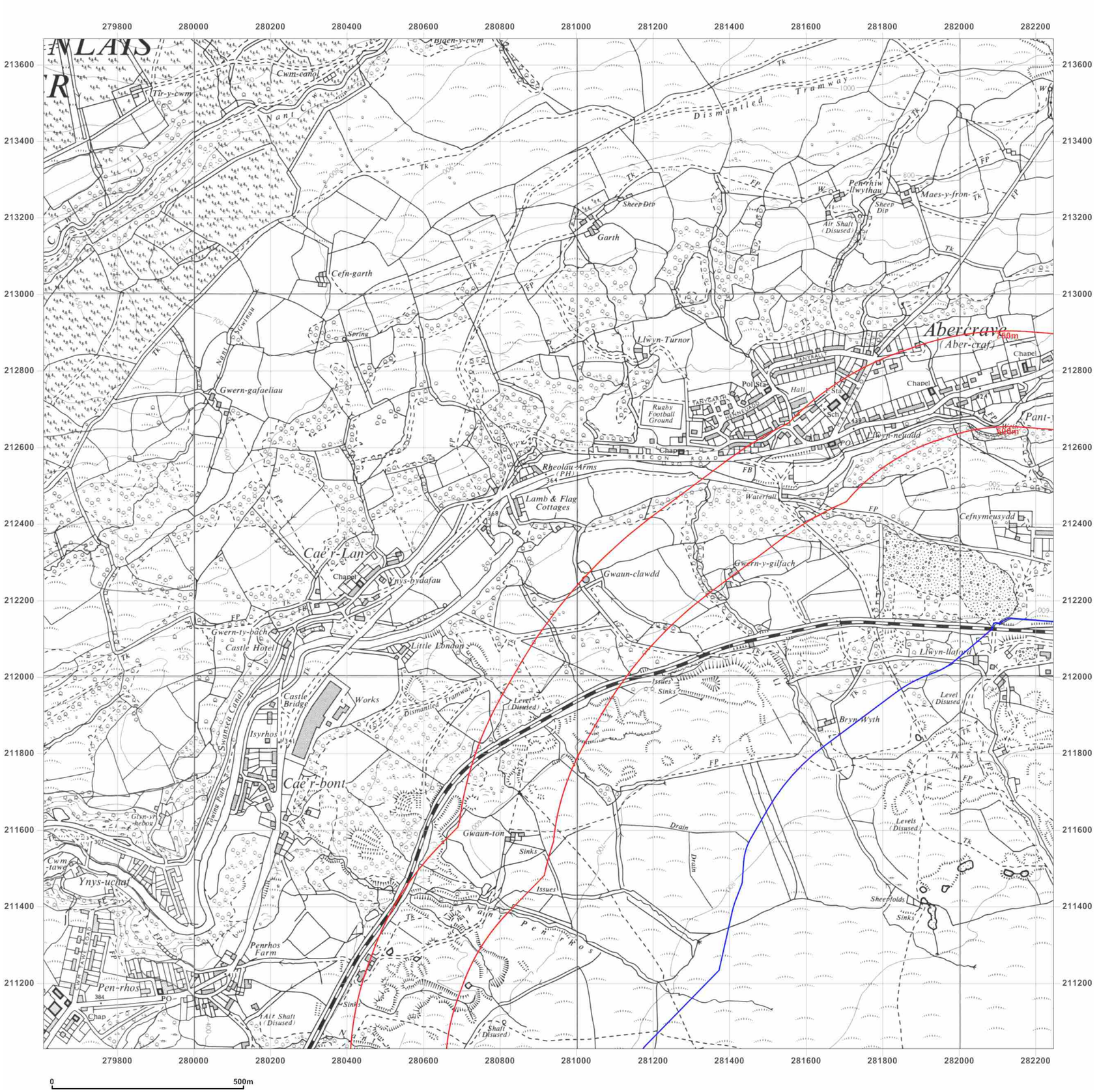
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** Provisional

**Map date:** **1965**

**Scale:** 1:10,560

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

N
W E
S

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

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

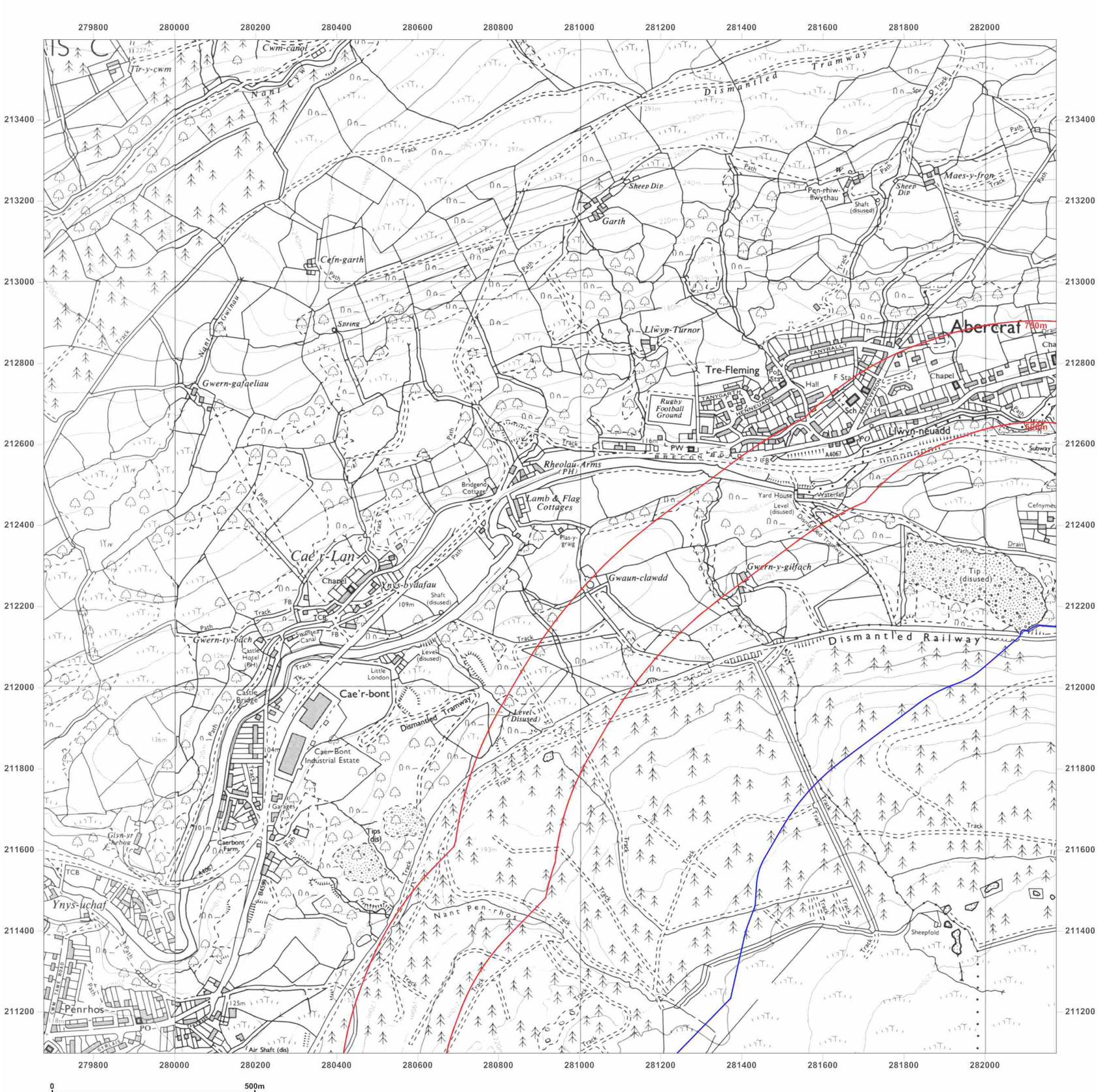
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** National Grid

**Map date:** **1985-1987**

**Scale:** 1:10,000

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

N
W E
S

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

Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

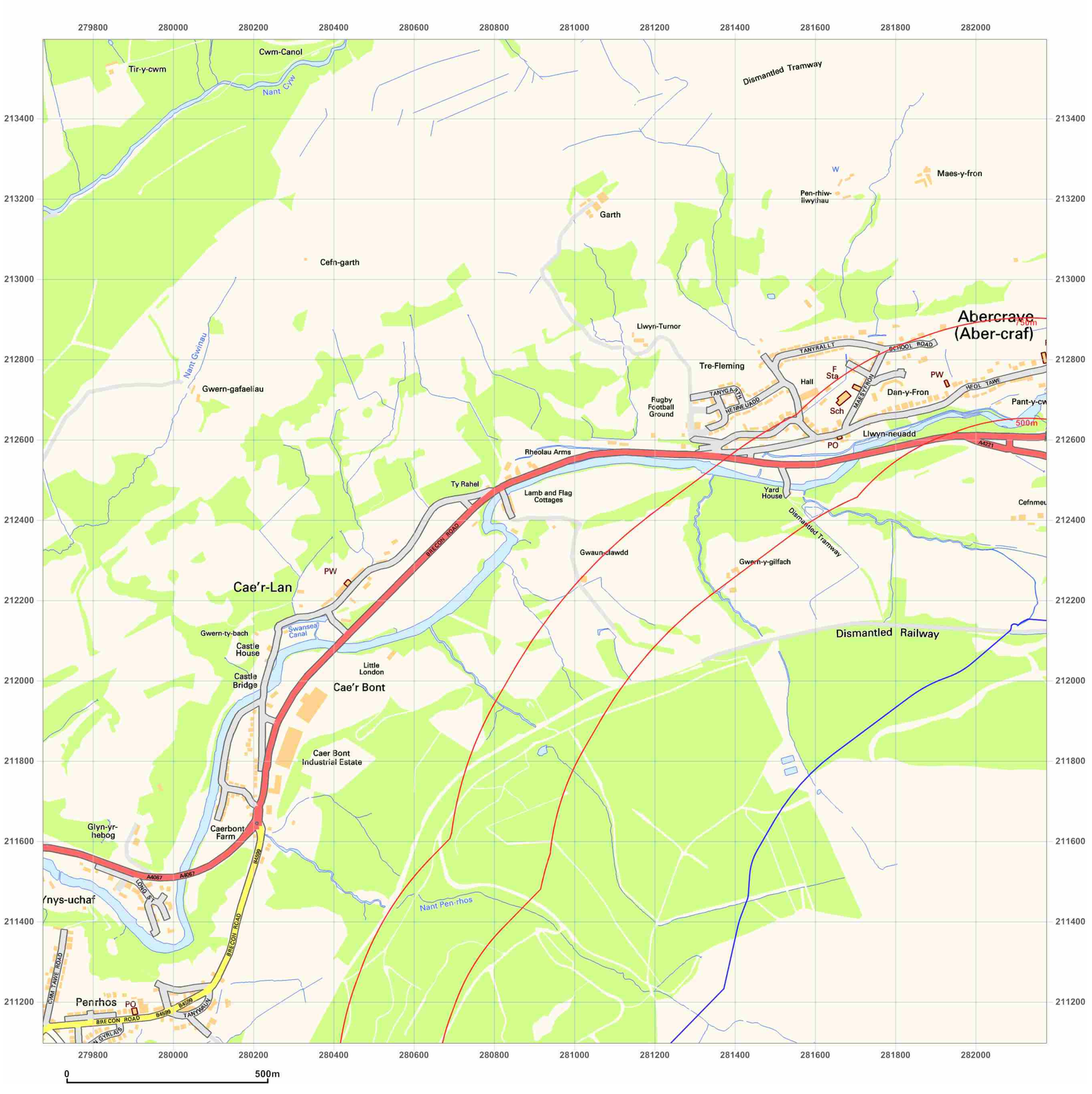
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** National Grid
**Map date:** **2001**
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
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2001

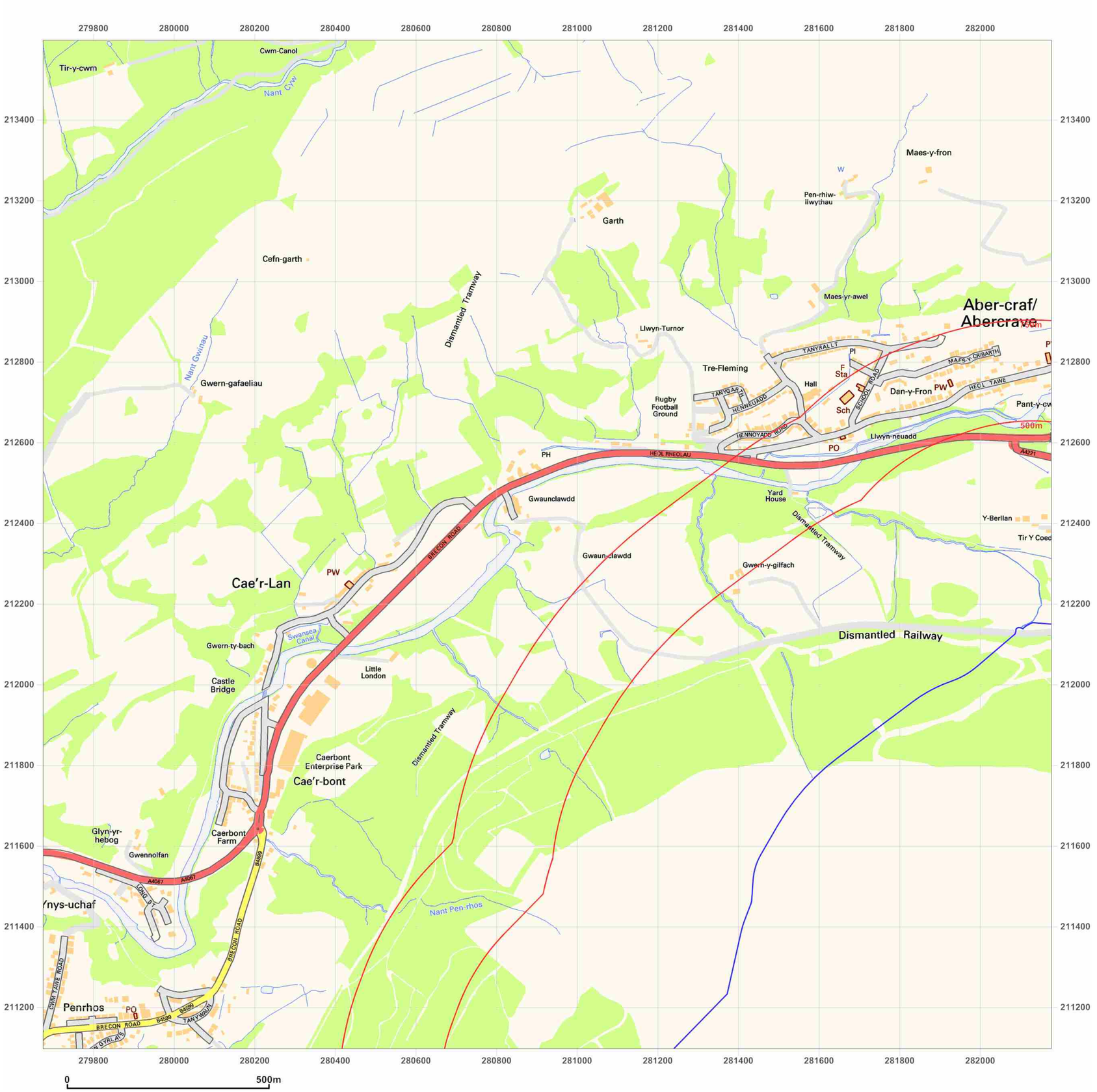
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** National Grid

**Map date:** **2010**

**Scale:** 1:10,000

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

N
W E
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2010

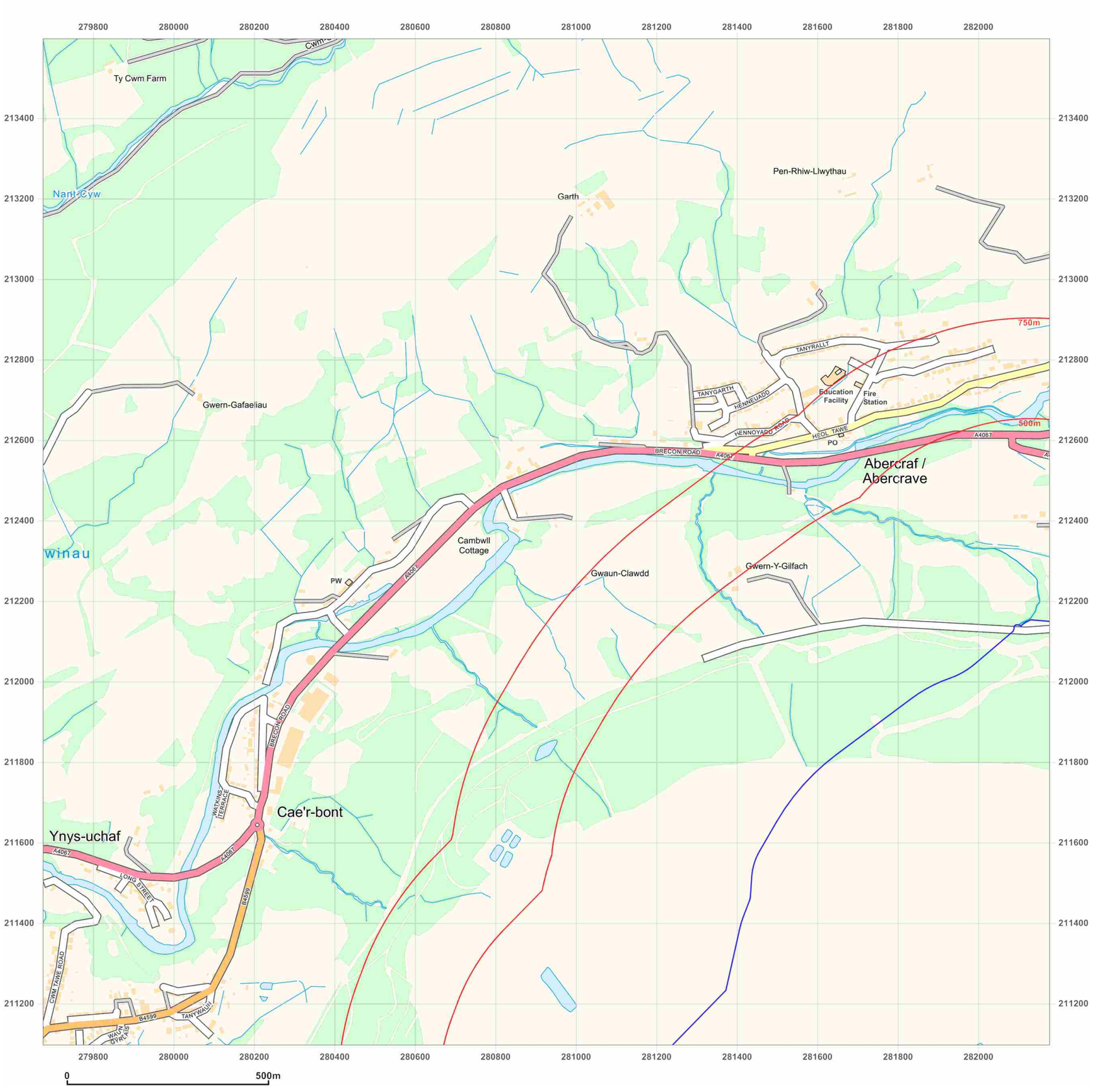
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**Report Ref:** GS-6396071_SS_1_2
**Grid Ref:** 280926, 212347

**Map Name:** National Grid
**Map date:** **2019**
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
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2019

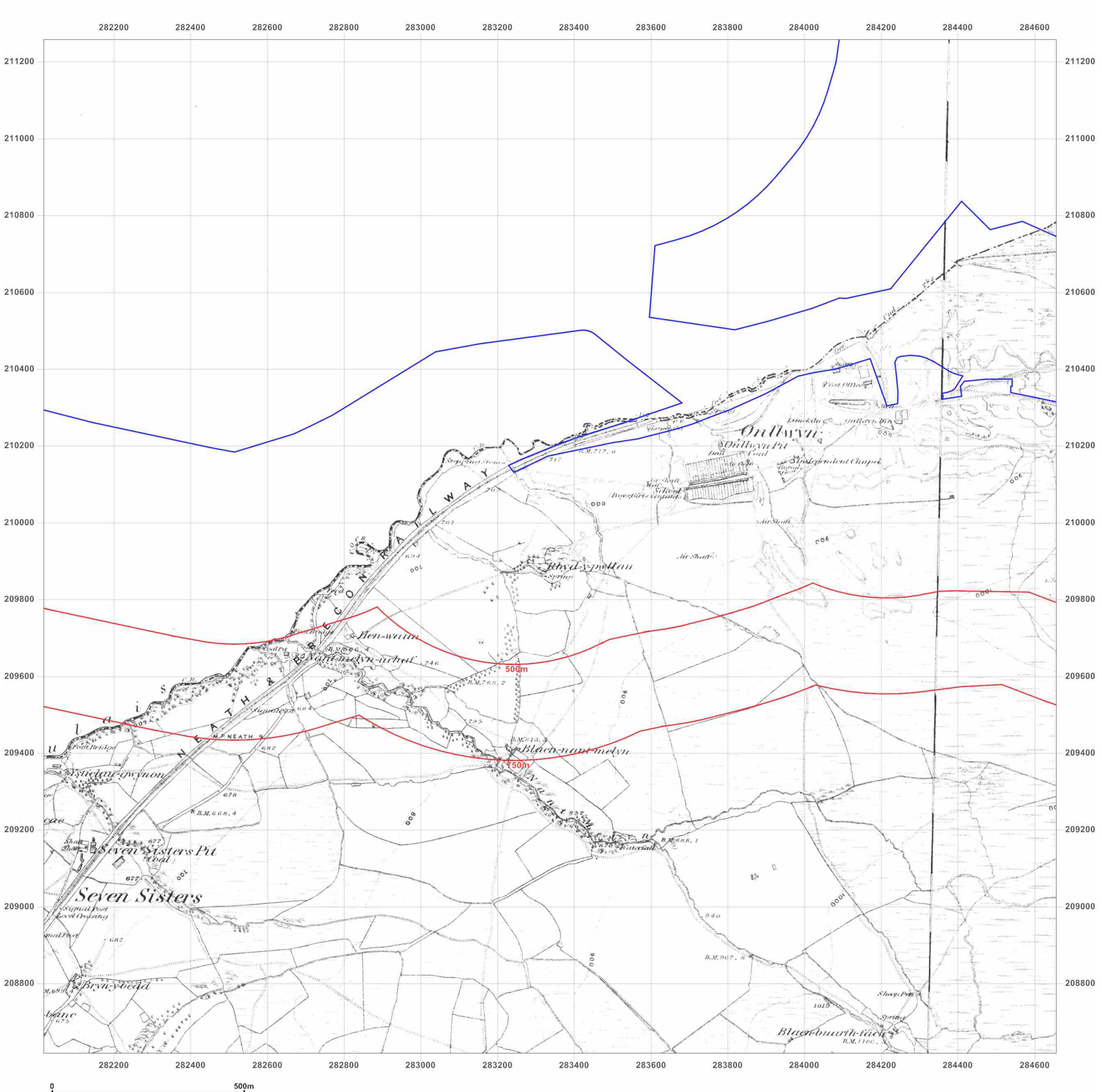
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_1
**Grid Ref:** 283336, 209937

**Map Name:** County Series

**Map date:** **1876**

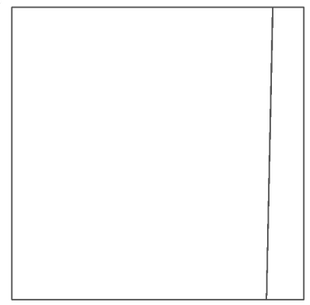
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**Printed at:** 1:10,560

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

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



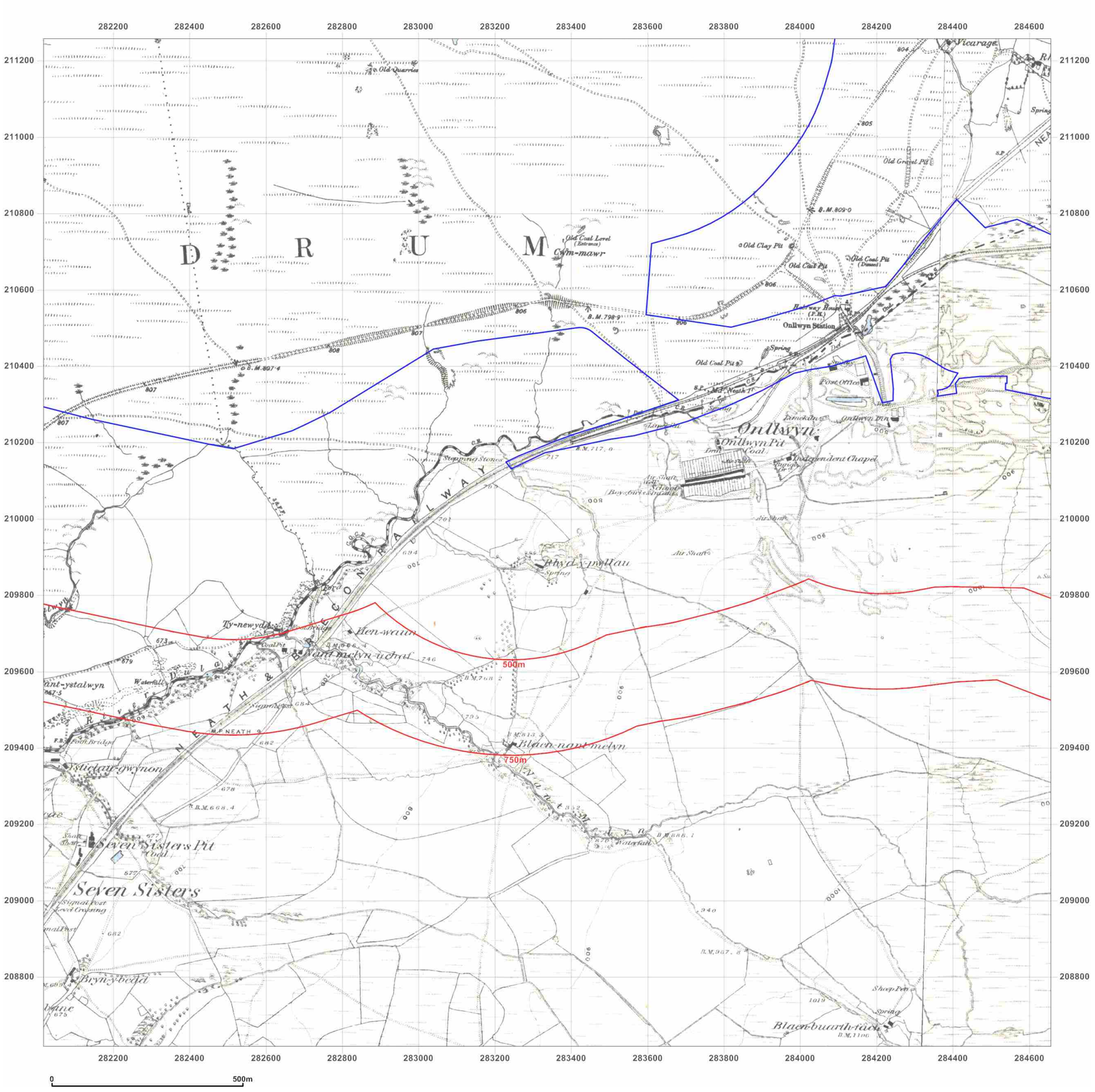
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**Map date:** **1877**

**Scale:** 1:10,560

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

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

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

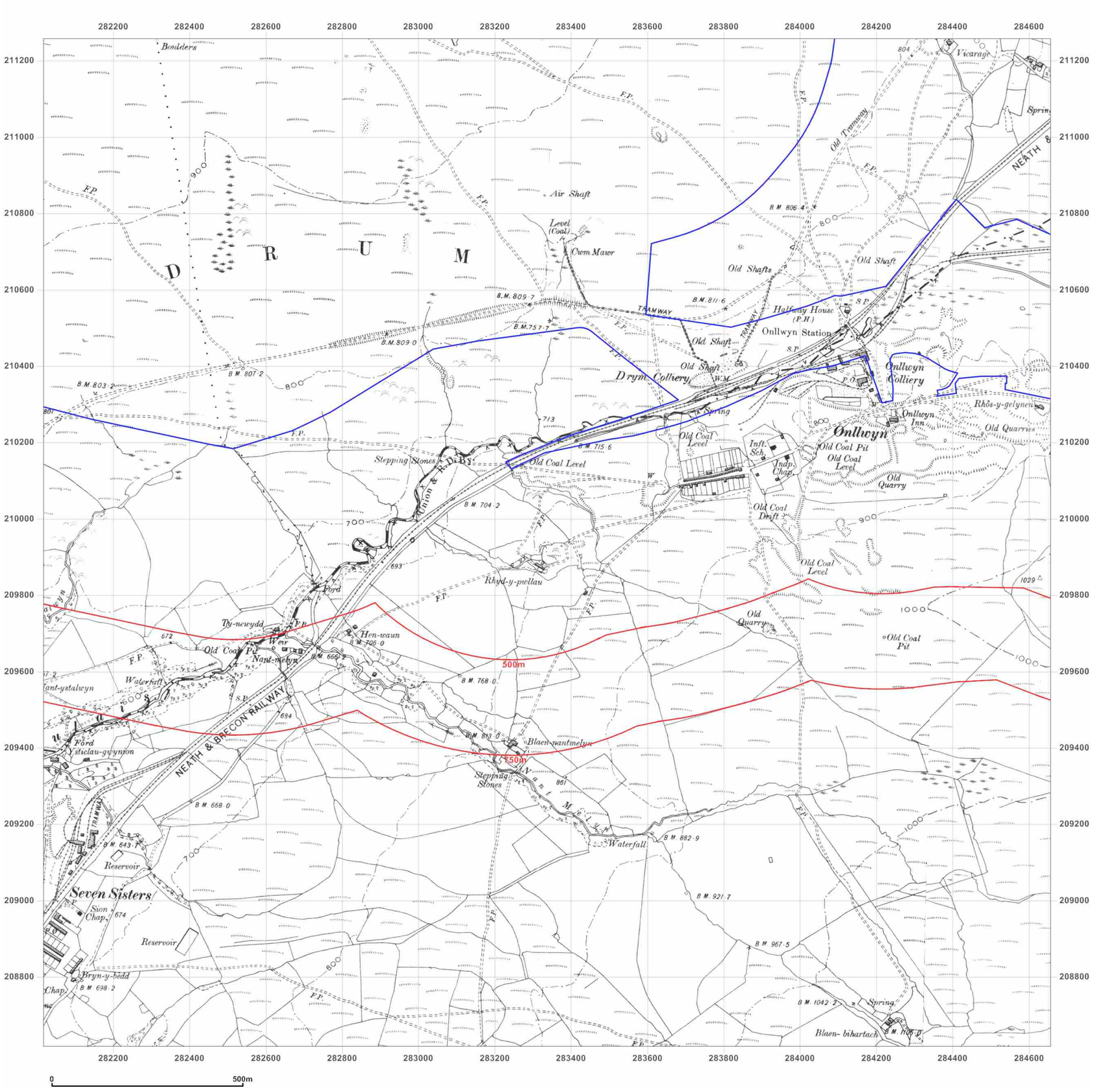
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**Site Details:**

282917.86237392283,
211100.677756288

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|---|---|
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| **Report Ref:** | GS-6396071_SS_2_1 |
| **Grid Ref:** | 283336, 209937 |

| | |
|---|---|
| **Map Name:** | County Series |
| **Map date:** | **1900-1903** |
| **Scale:** | 1:10,560 |
| **Printed at:** | 1:10,560 |

N
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Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

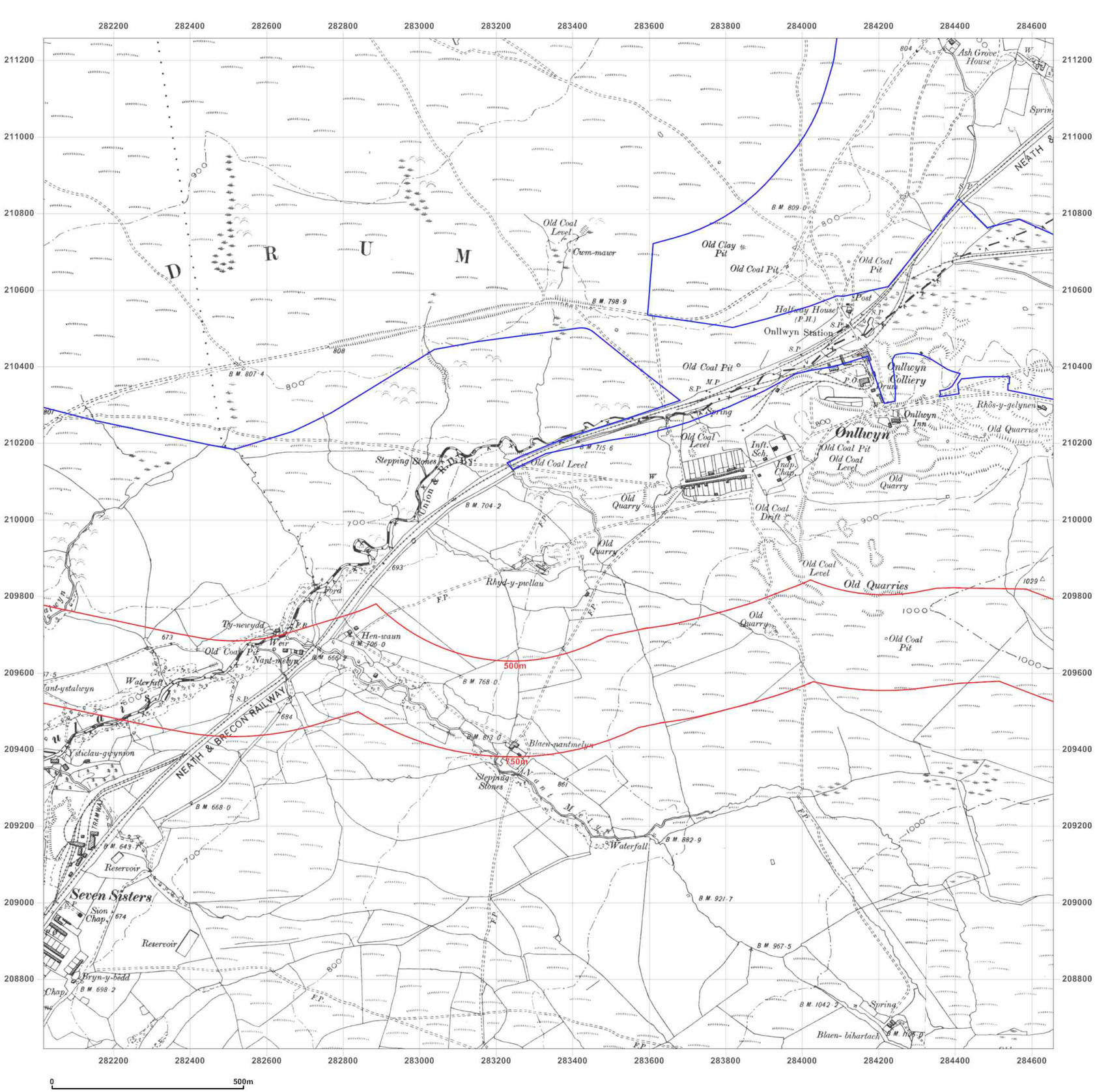
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211100.677756288

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**Grid Ref:** 283336, 209937

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**Map date:** **1901-1903**

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

N
W E
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Surveyed 1876
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

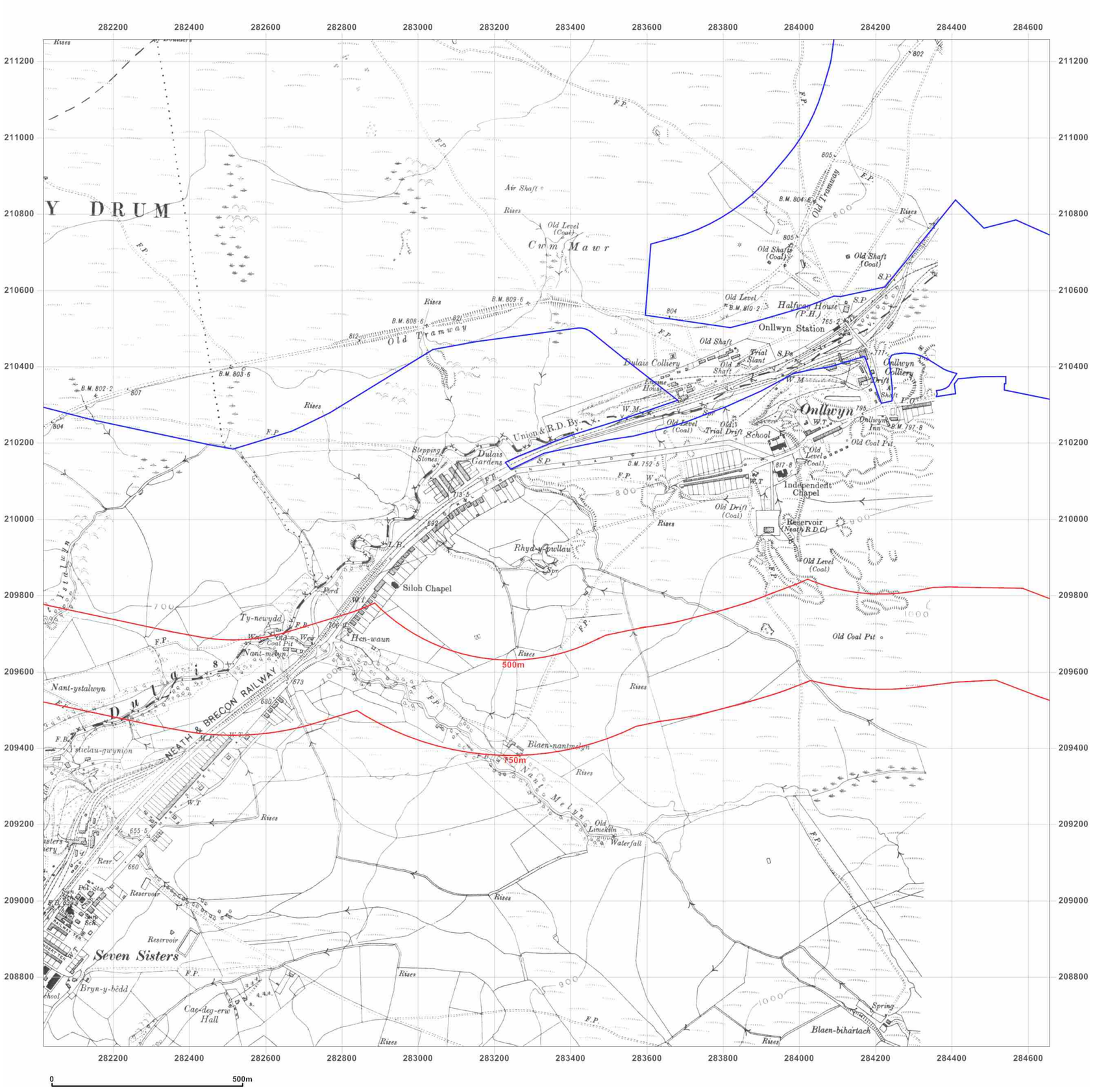

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**Site Details:**

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211100.677756288

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**Report Ref:** GS-6396071_SS_2_1
**Grid Ref:** 283336, 209937

**Map Name:** County Series

**Map date:** **1914**

**Scale:** 1:10,560

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

N
W E
S

Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

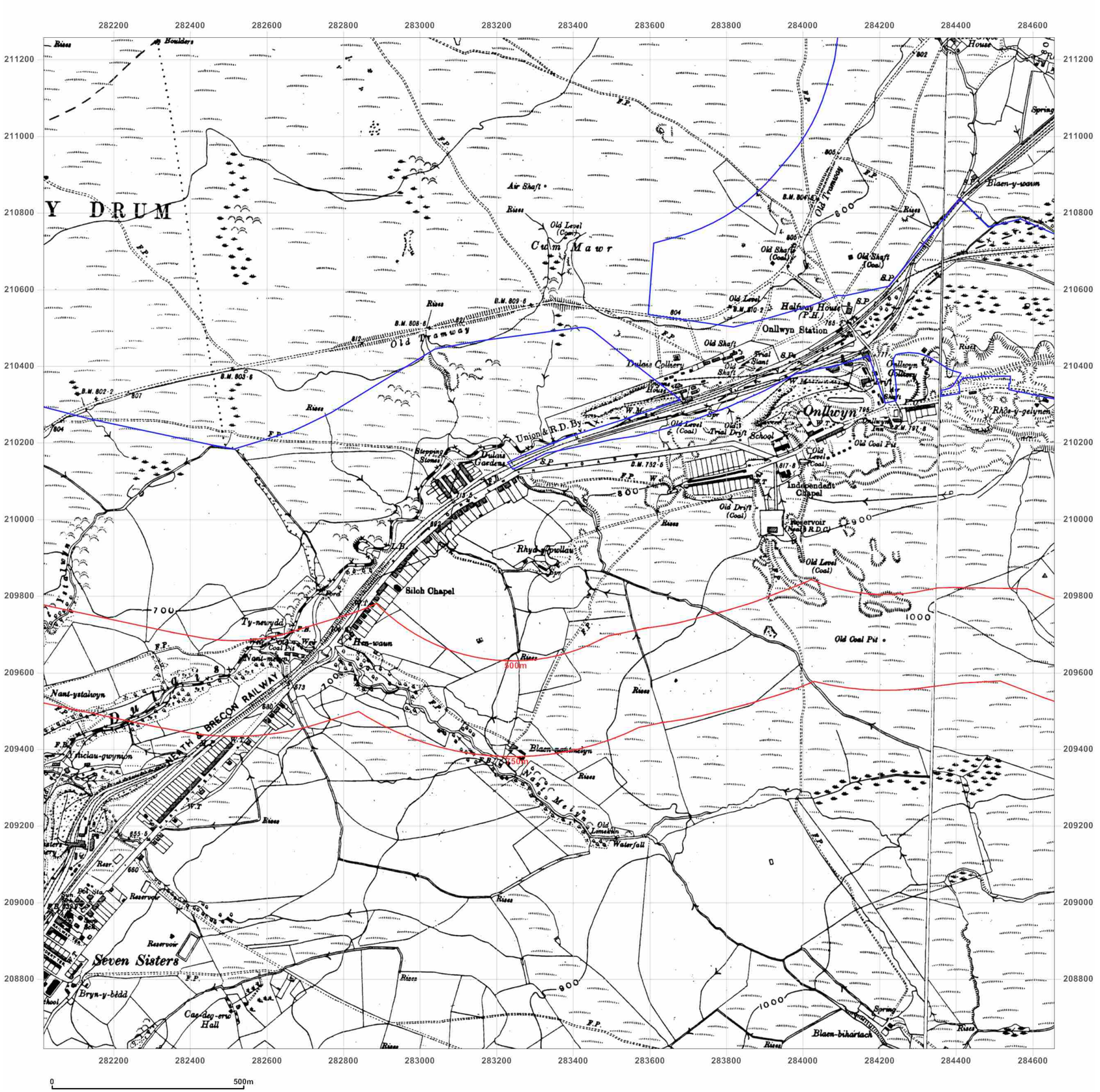

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**Site Details:**

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

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

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

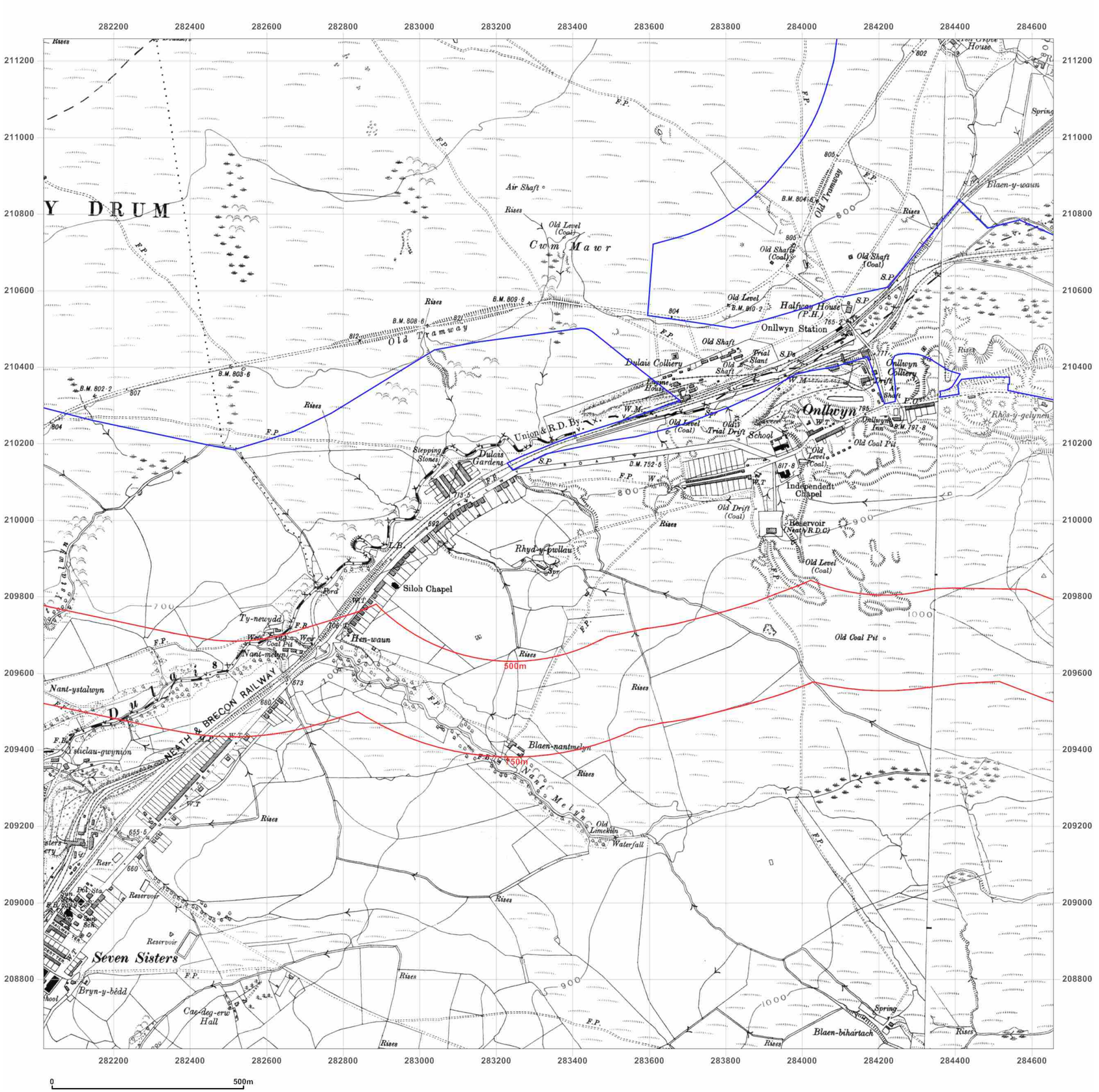
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**Map date:** **1921**

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

N
W E
S

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

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

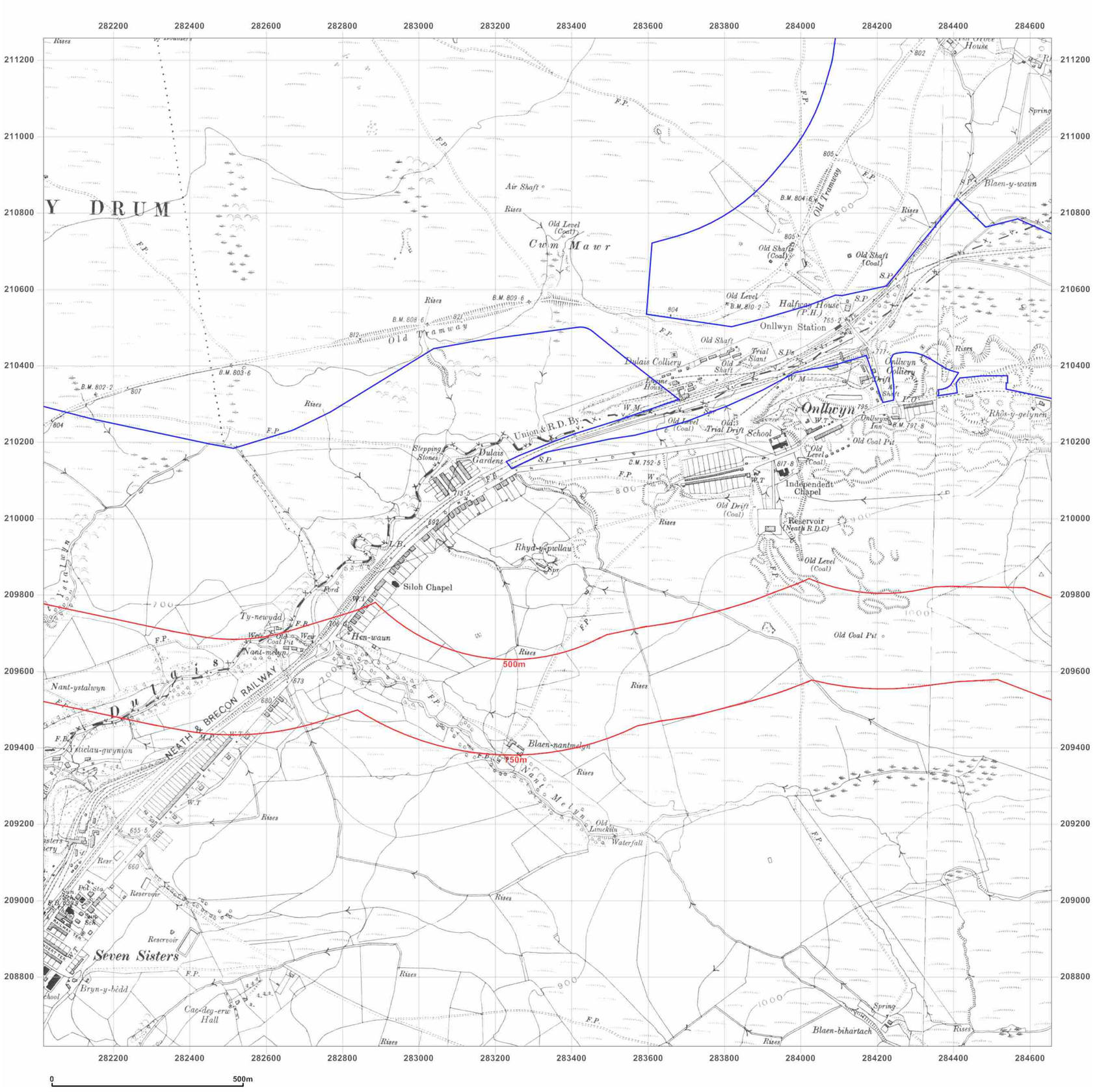
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**Scale:** 1:10,560

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

N
W E
S

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

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

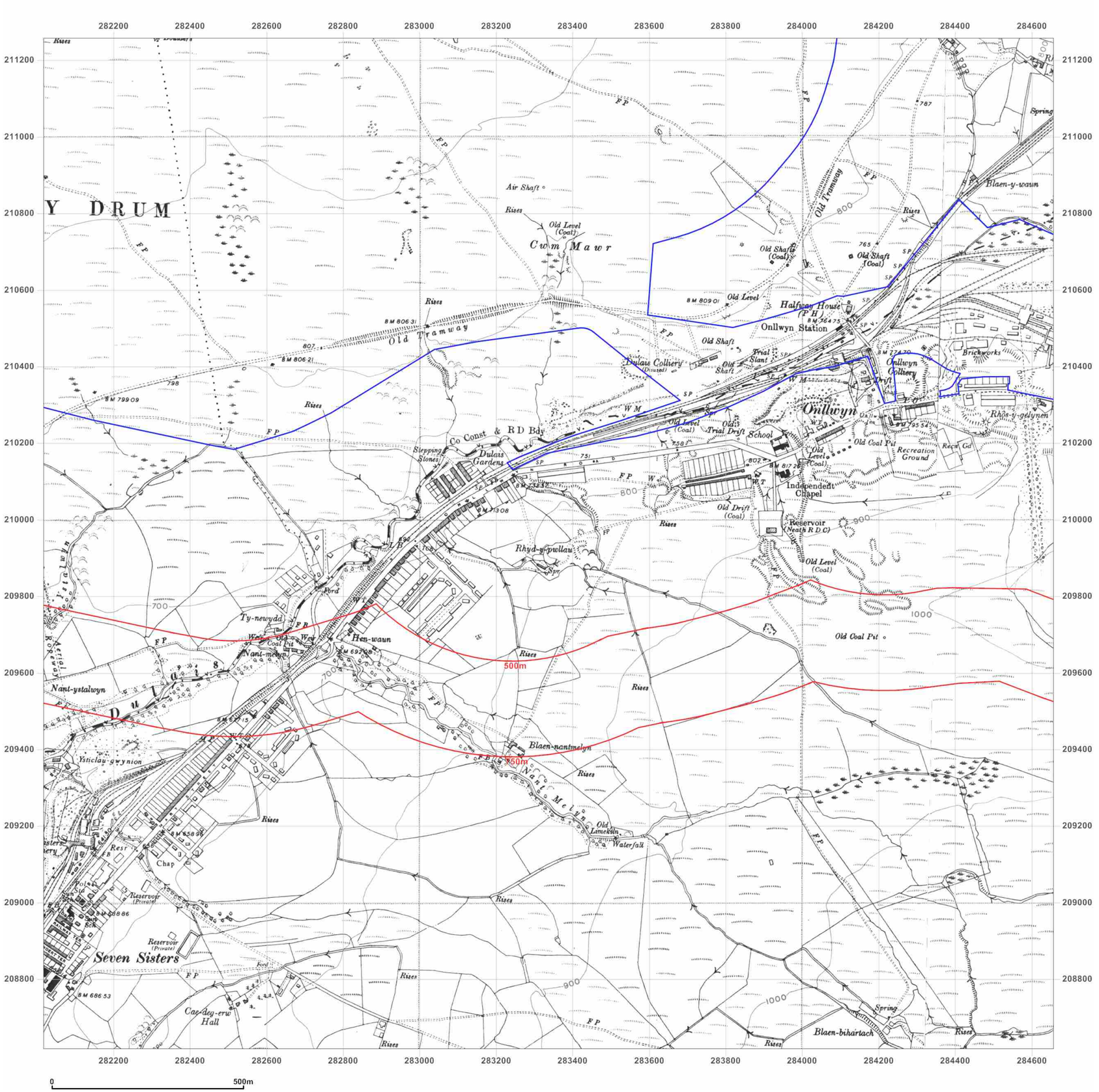
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**Map Name:** County Series

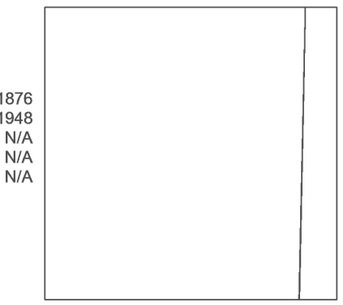
**Map date:** **1948**

**Scale:** 1:10,560

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

N
W E
S

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



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

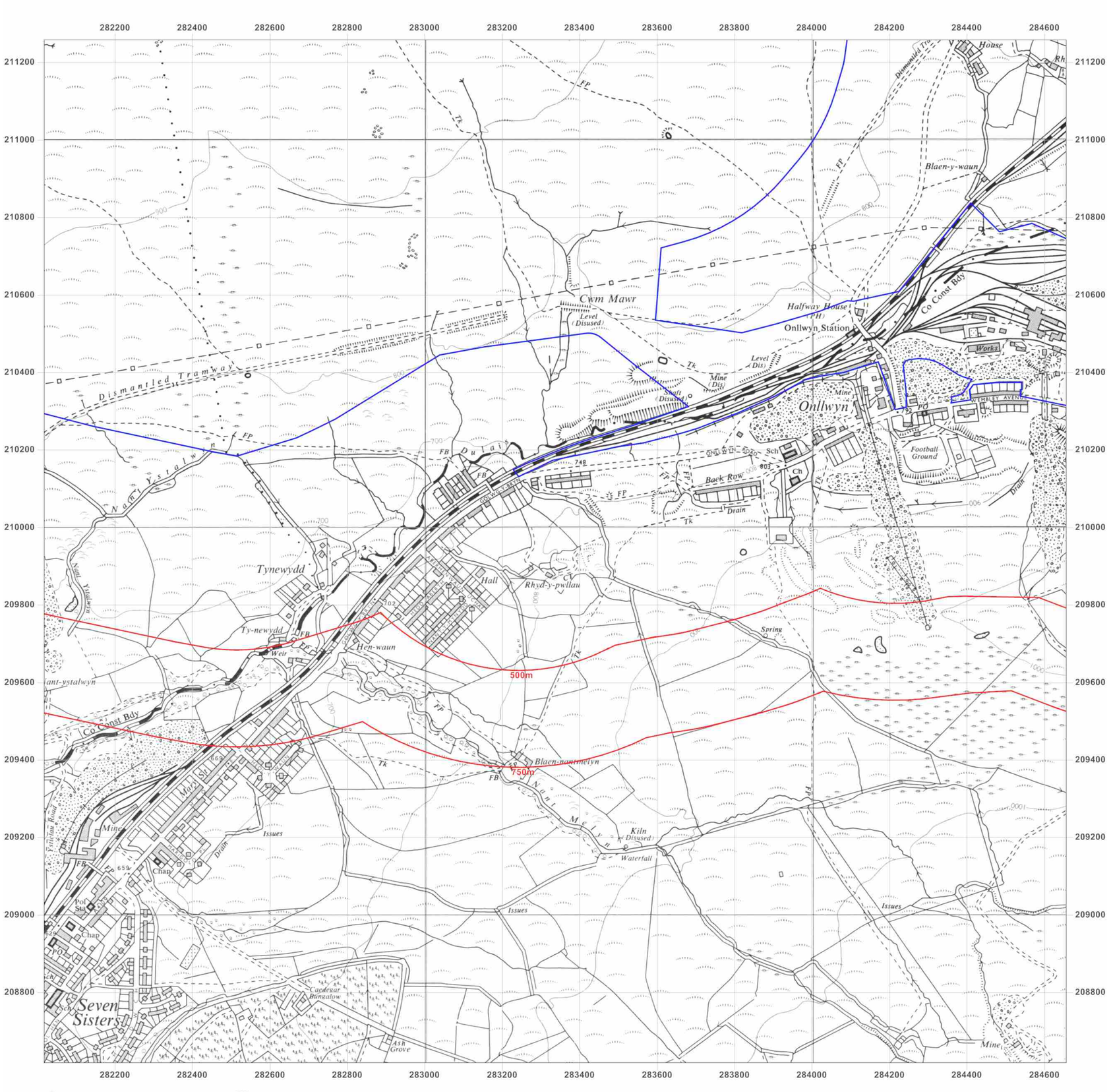
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_1
**Grid Ref:** 283336, 209937

**Map Name:** Provisional

**Map date:** **1964-1965**

**Scale:** 1:10,560

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

N
W E
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Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

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

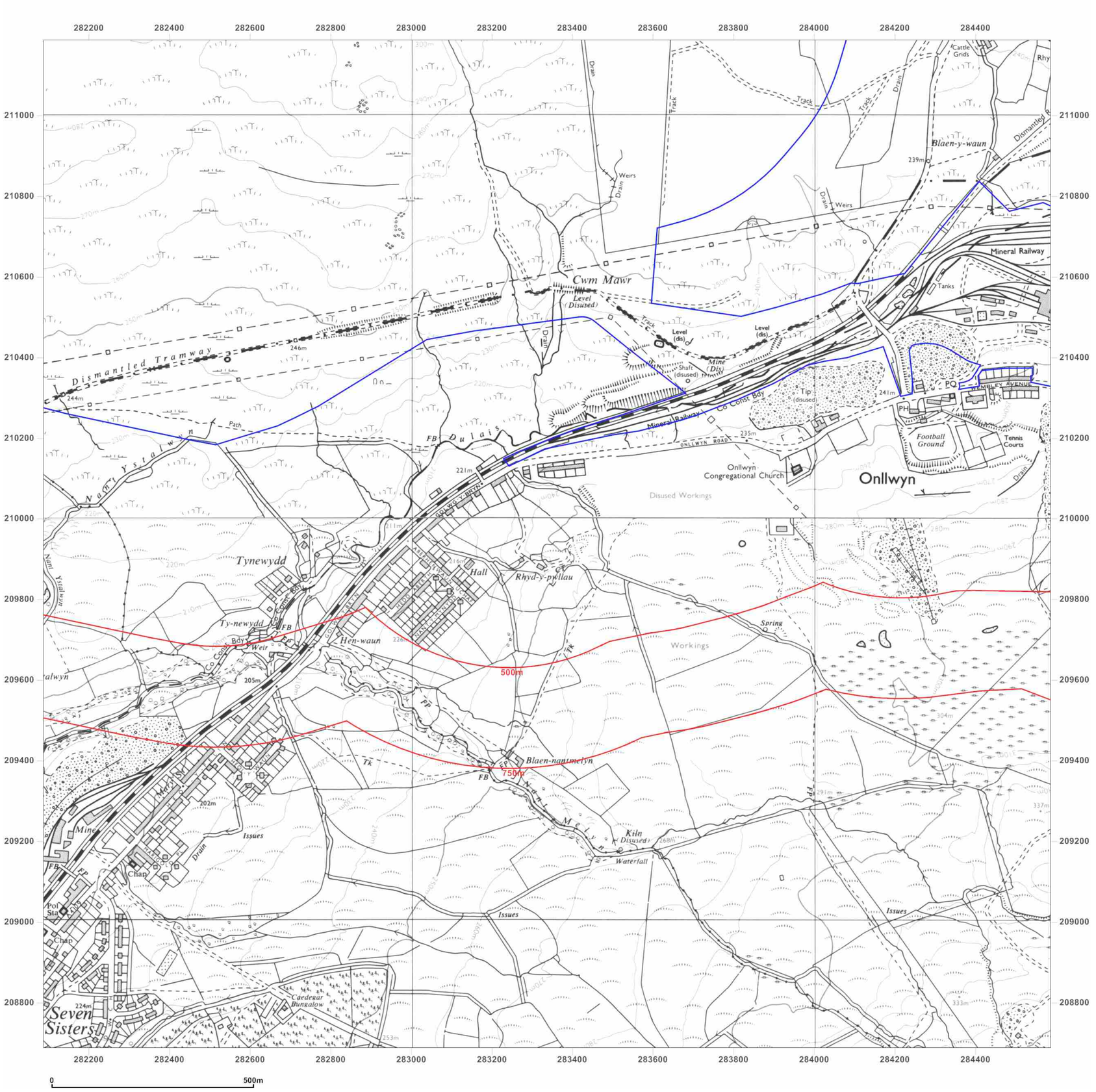
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Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_1
**Grid Ref:** 283336, 209937

**Map Name:** National Grid

**Map date:** **1987-1988**

**Scale:** 1:10,000

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

N
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Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1962
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

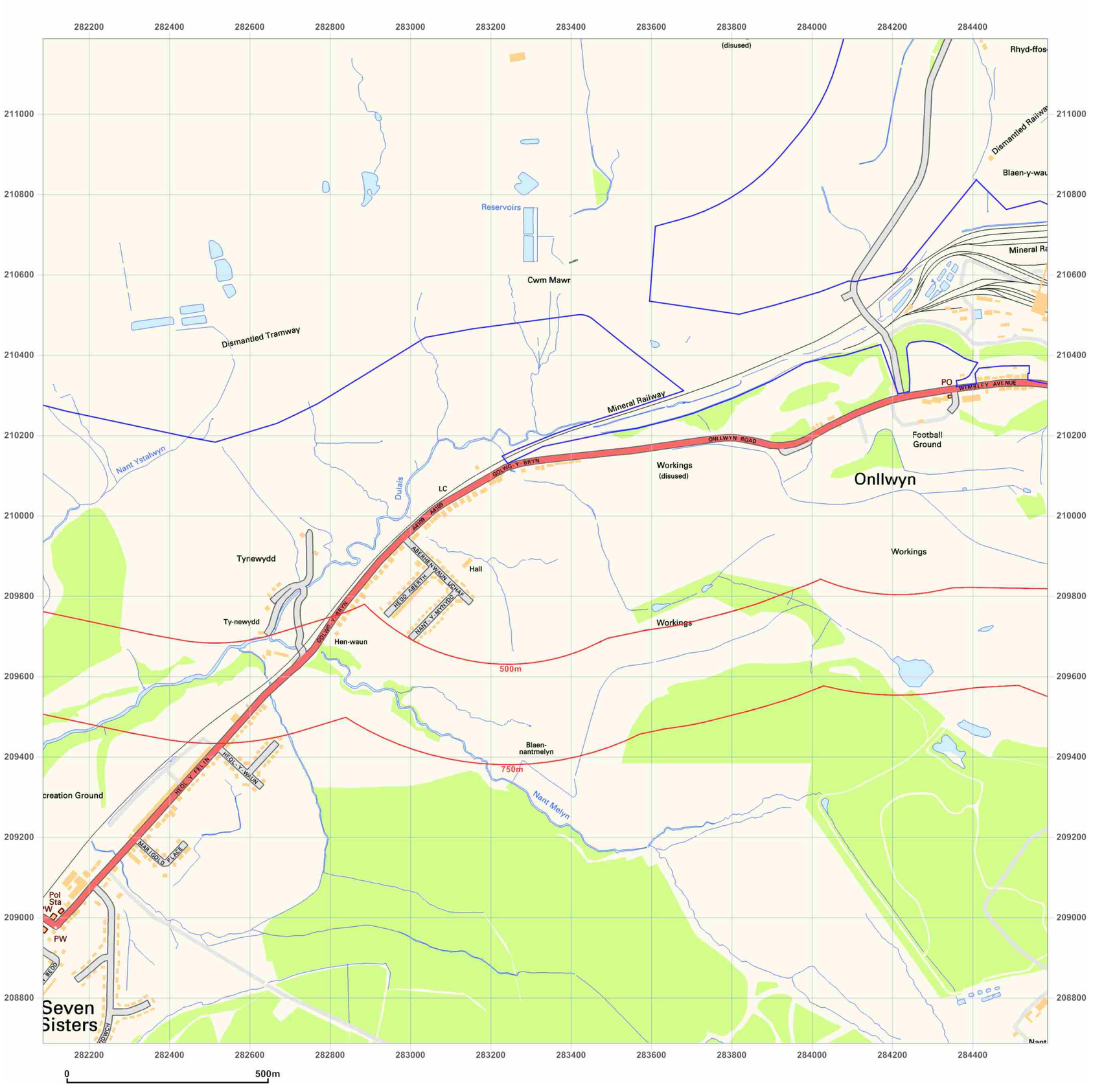
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_1
**Grid Ref:** 283336, 209937

**Map Name:** National Grid

**Map date:** **2001**

**Scale:** 1:10,000

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

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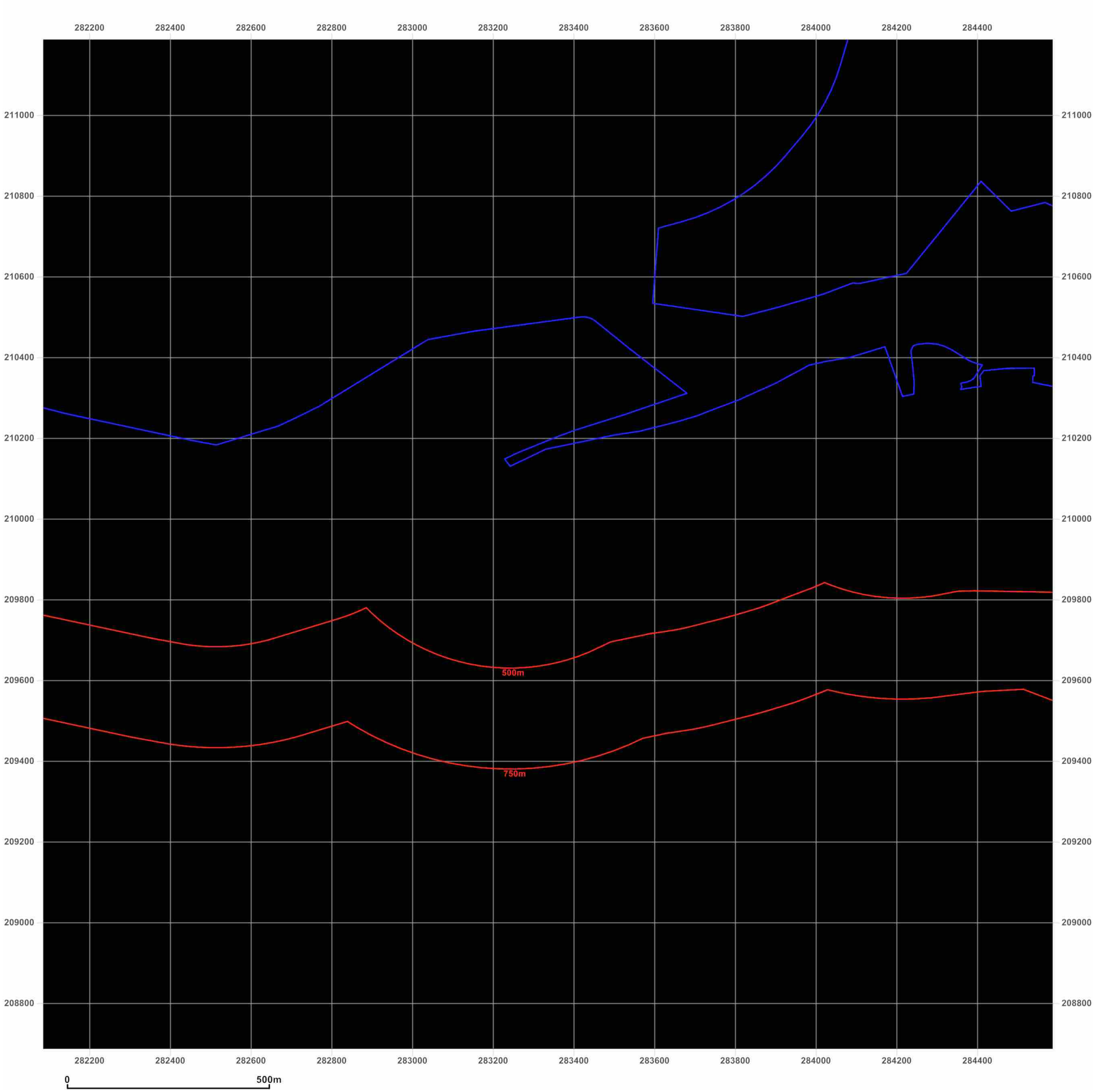
2001

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**Site Details:**

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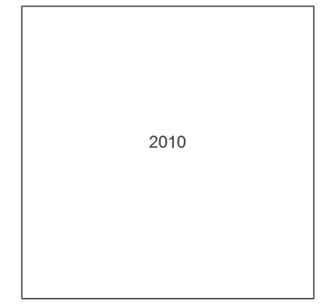
**Map Name:** National Grid

**Map date:** **2010**

**Scale:** 1:10,000

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

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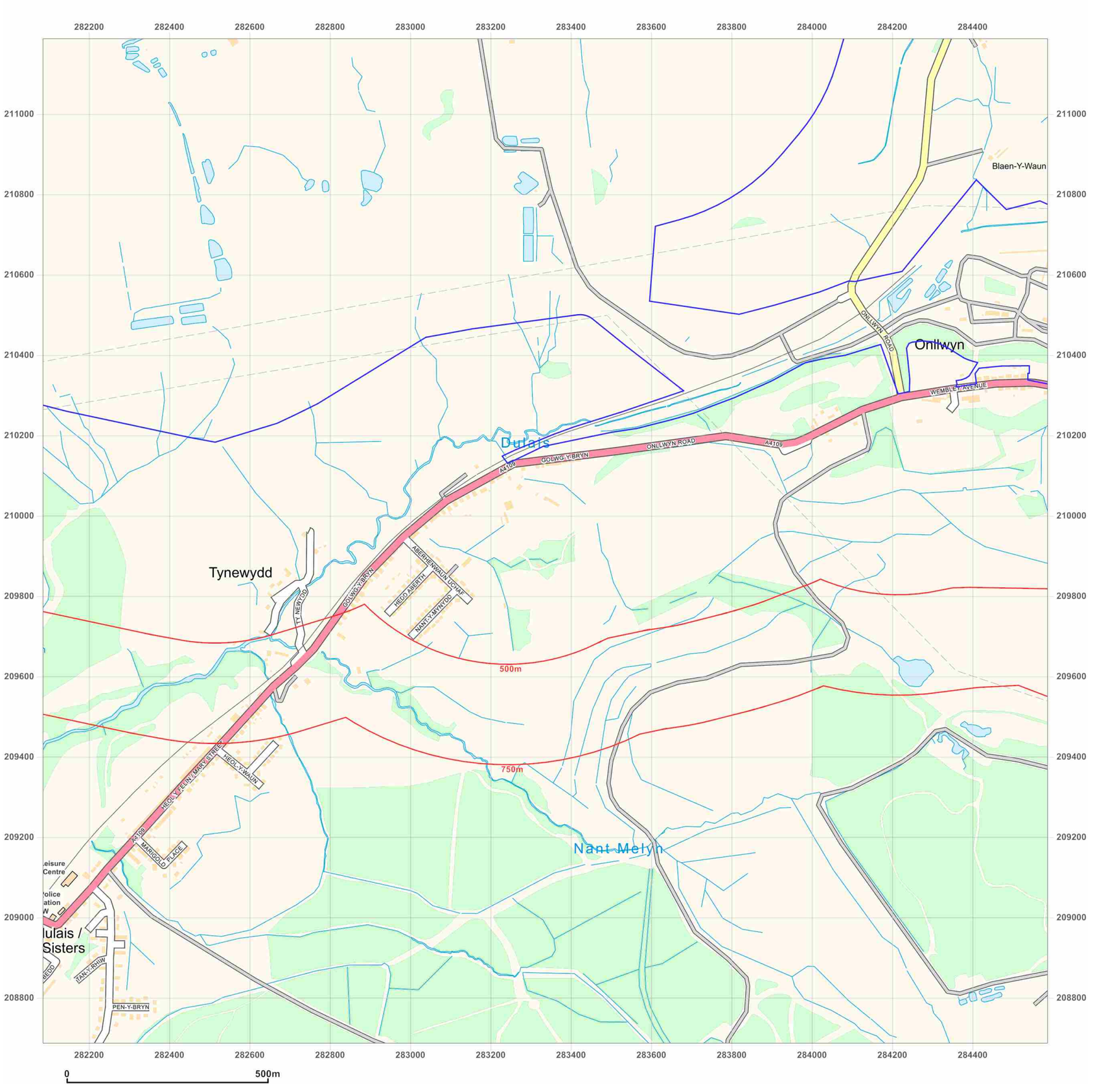

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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_1
**Grid Ref:** 283336, 209937

**Map Name:** National Grid
**Map date:** **2019**
**Scale:** 1:10,000
**Printed at:** 1:10,000

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2019

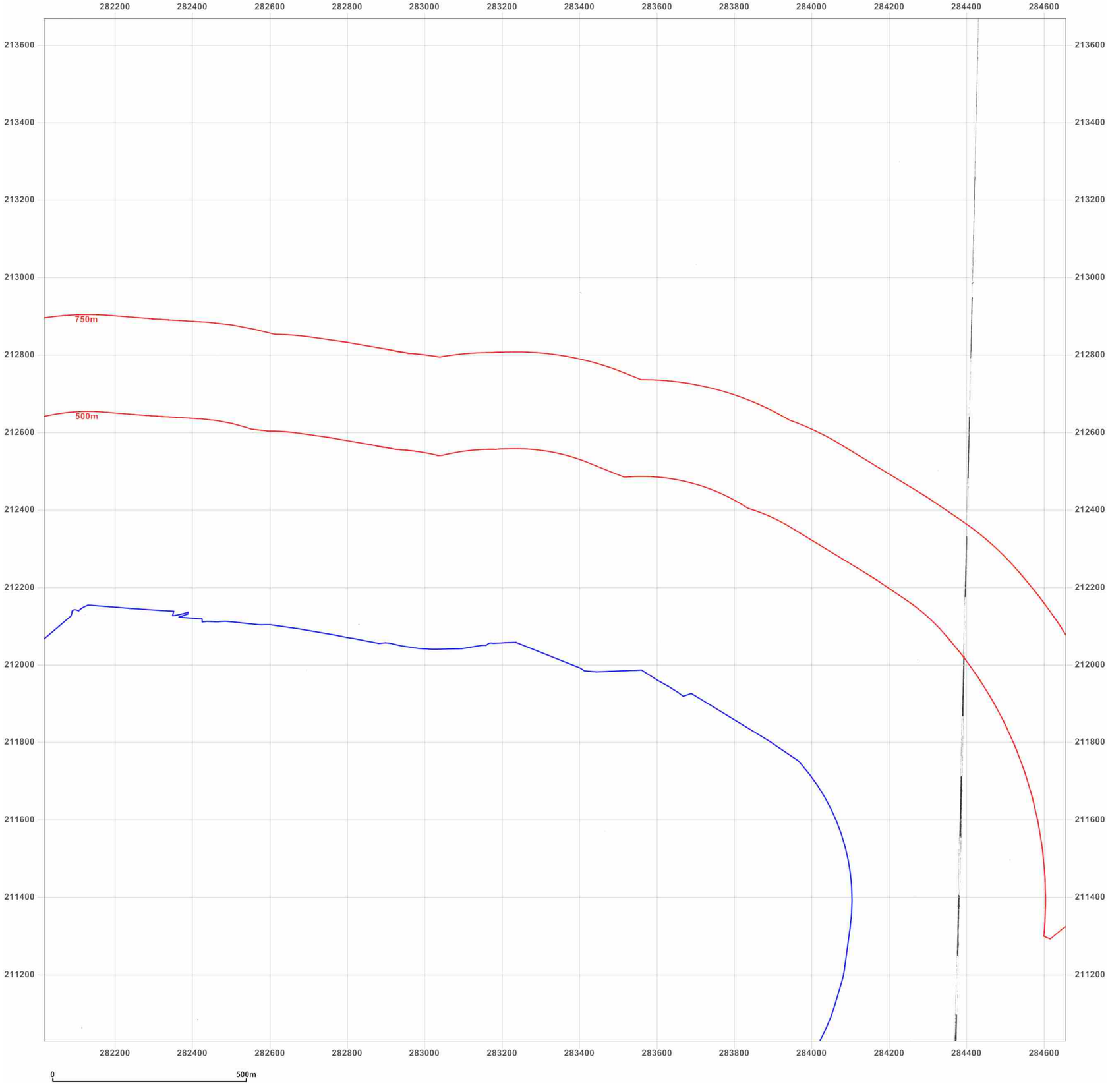
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

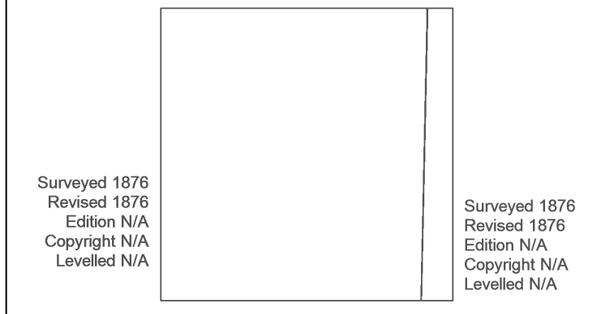
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**Map date:** **1876**

**Scale:** 1:10,560

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

N
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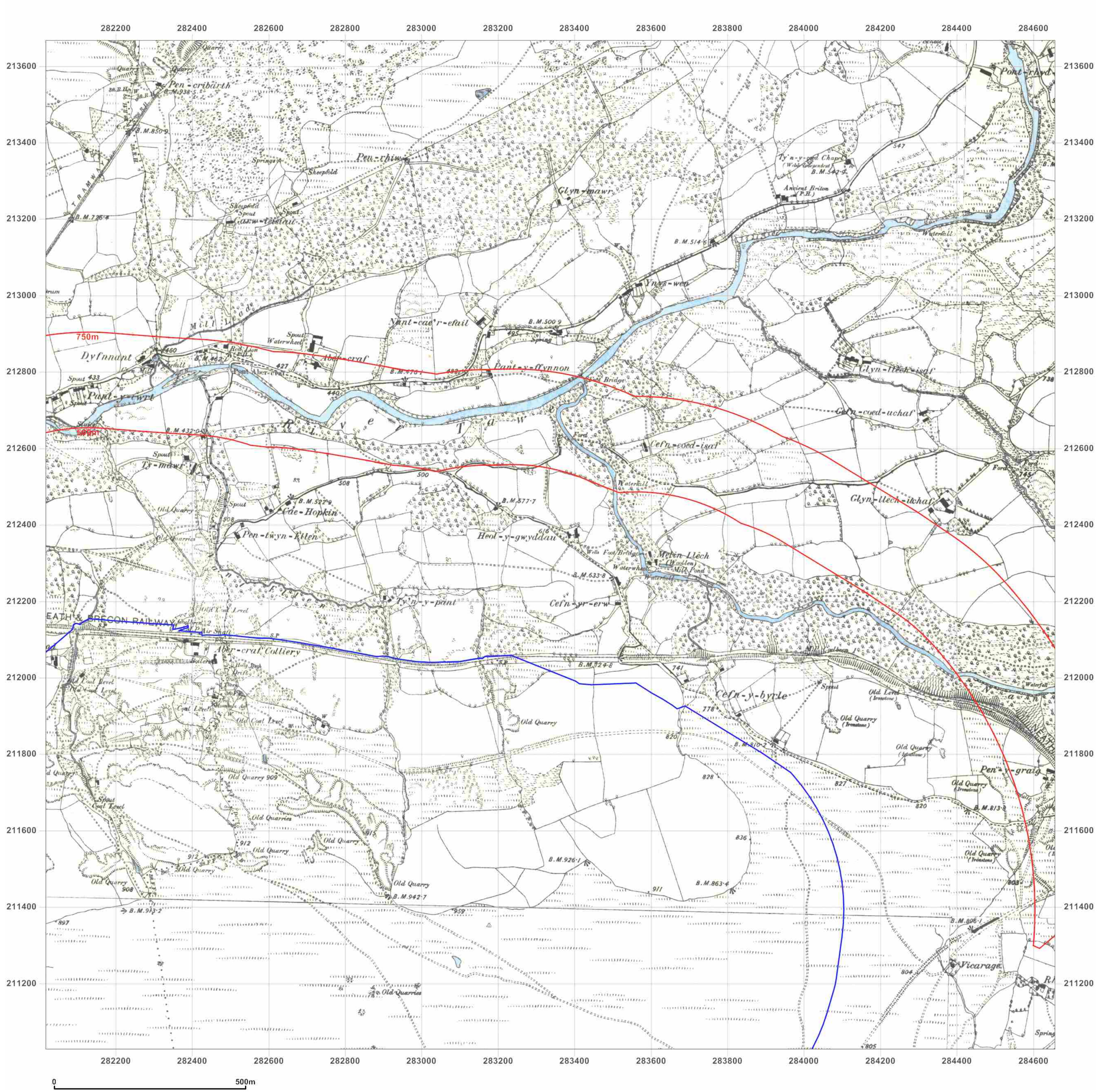

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Site Details:

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211100.677756288

**Client Ref:** GCORE
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**Grid Ref:** 283336, 212347

**Map Name:** County Series

**Map date:** **1877**

**Scale:** 1:10,560

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

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

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

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

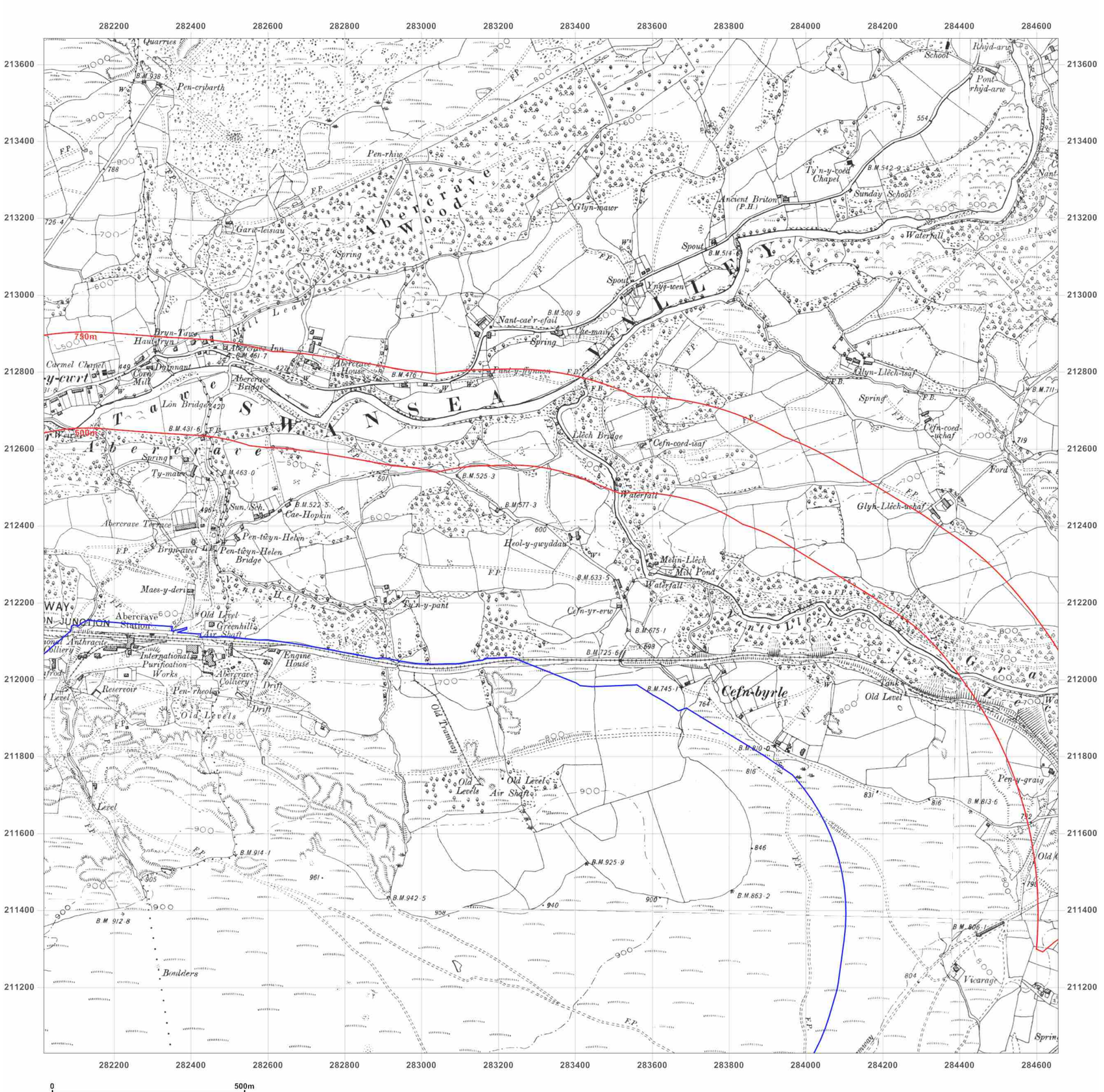
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** County Series

**Map date:** **1900-1903**

**Scale:** 1:10,560

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

N
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Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

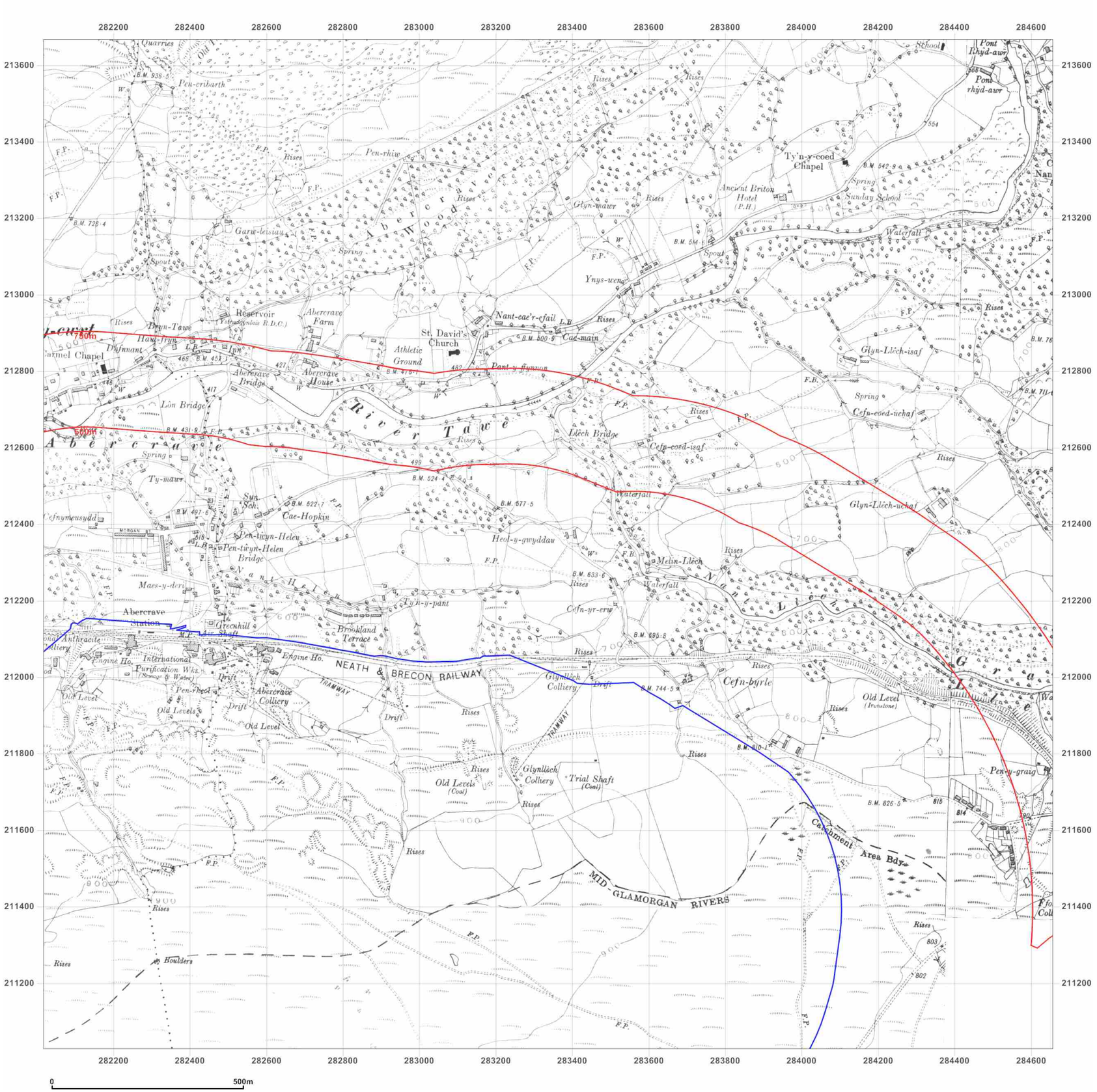
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**Site Details:**

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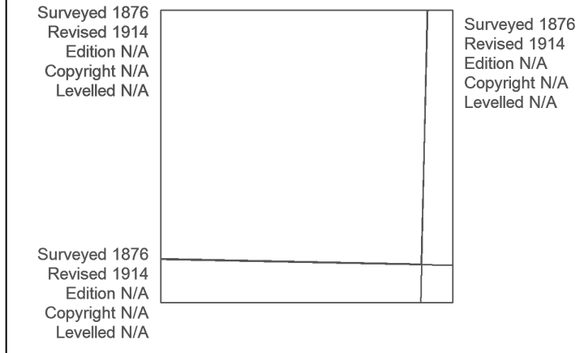
**Map Name:** County Series

**Map date:** **1914**

**Scale:** 1:10,560

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

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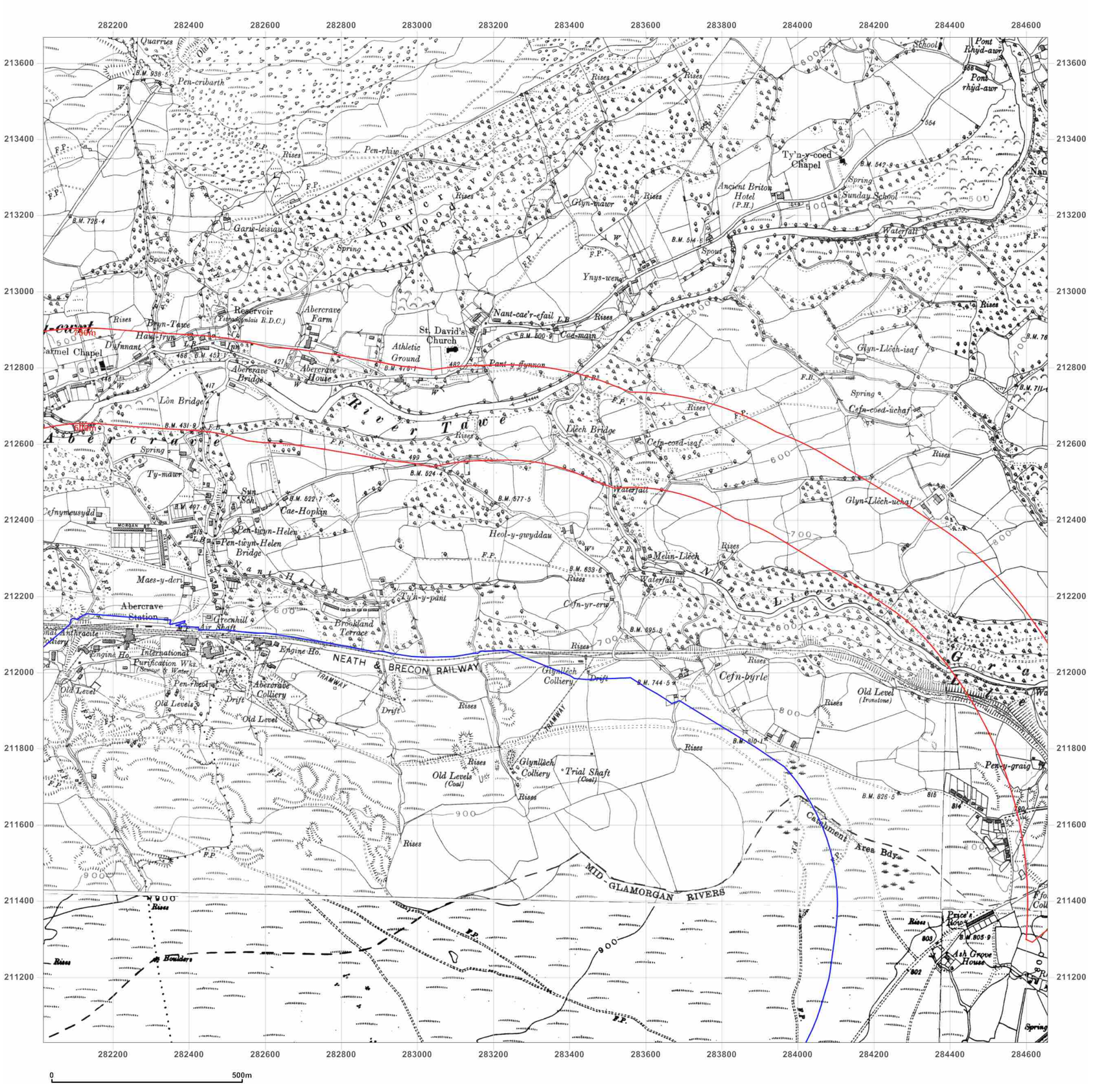



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**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

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| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright N/A<br>Levelled N/A | | | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright N/A<br>Levelled N/A |

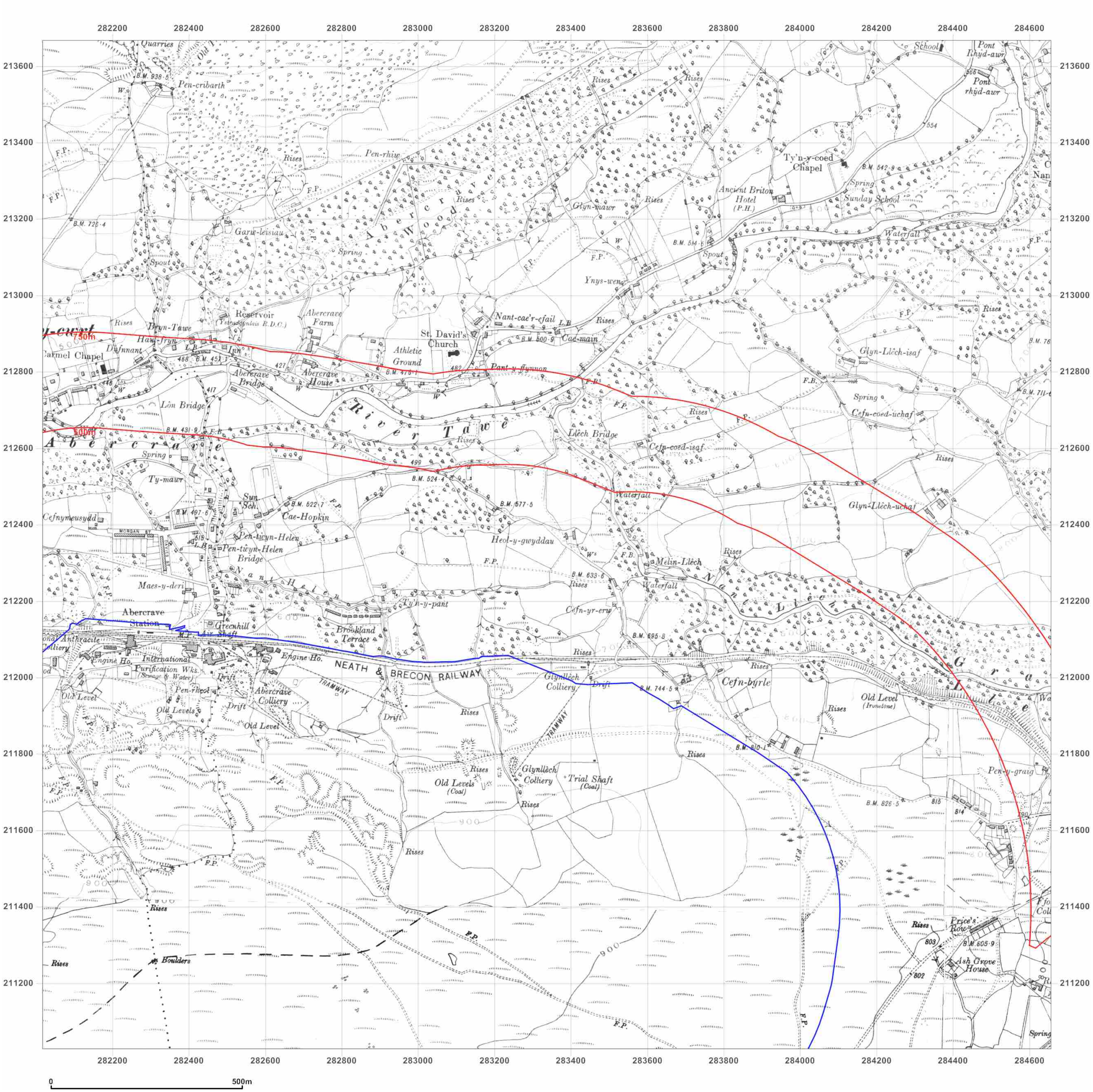
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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

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

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

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

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

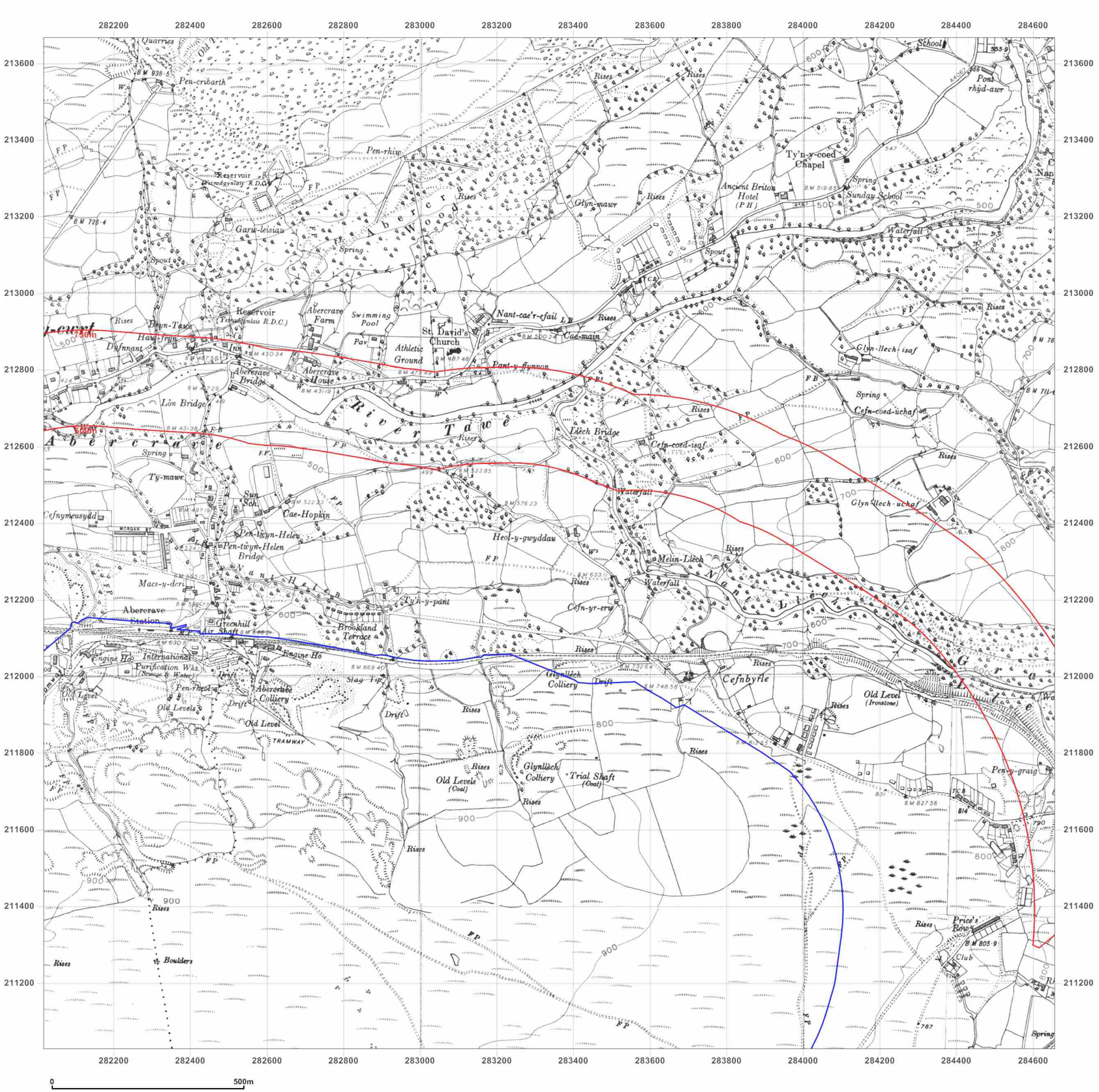
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**Site Details:**

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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** County Series

**Map date:** **1948**

**Scale:** 1:10,560

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

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

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

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

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

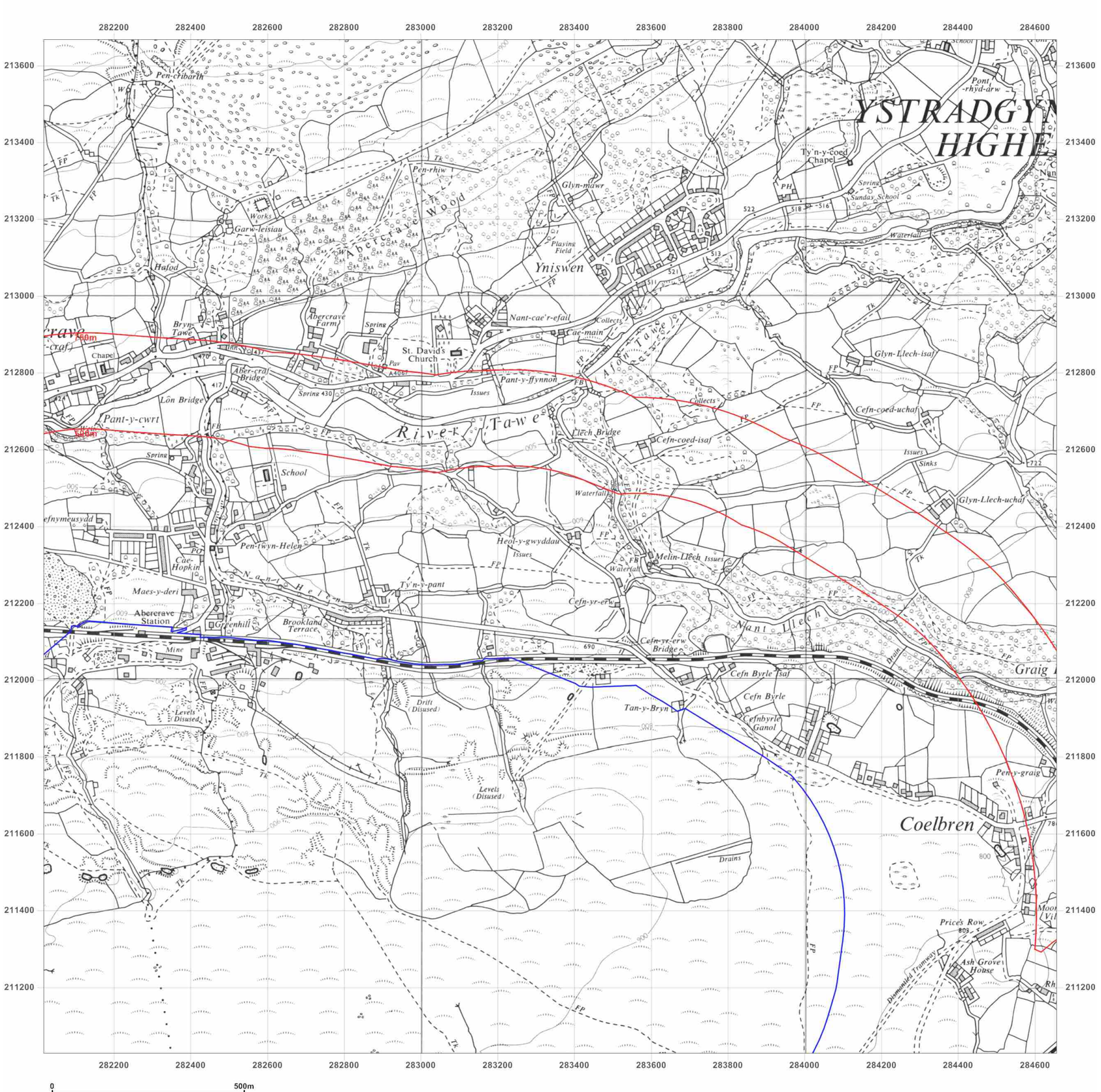
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**Site Details:**

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211100.677756288

**Client Ref:** GCORE
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**Grid Ref:** 283336, 212347

**Map Name:** Provisional

**Map date:** **1965**

**Scale:** 1:10,560

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

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

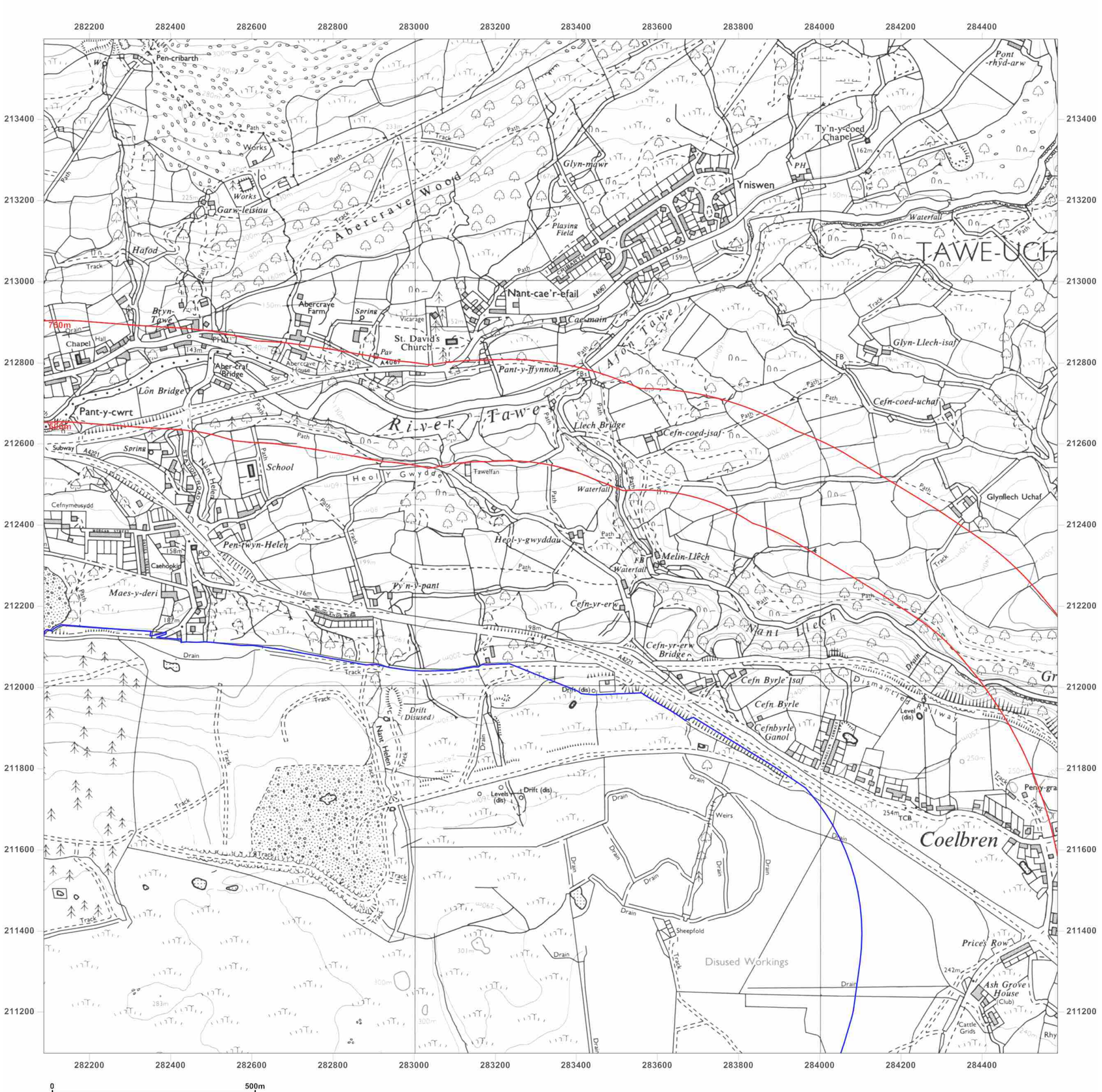
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**Site Details:**

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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** National Grid

**Map date:** **1987**

**Scale:** 1:10,000

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

N
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Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

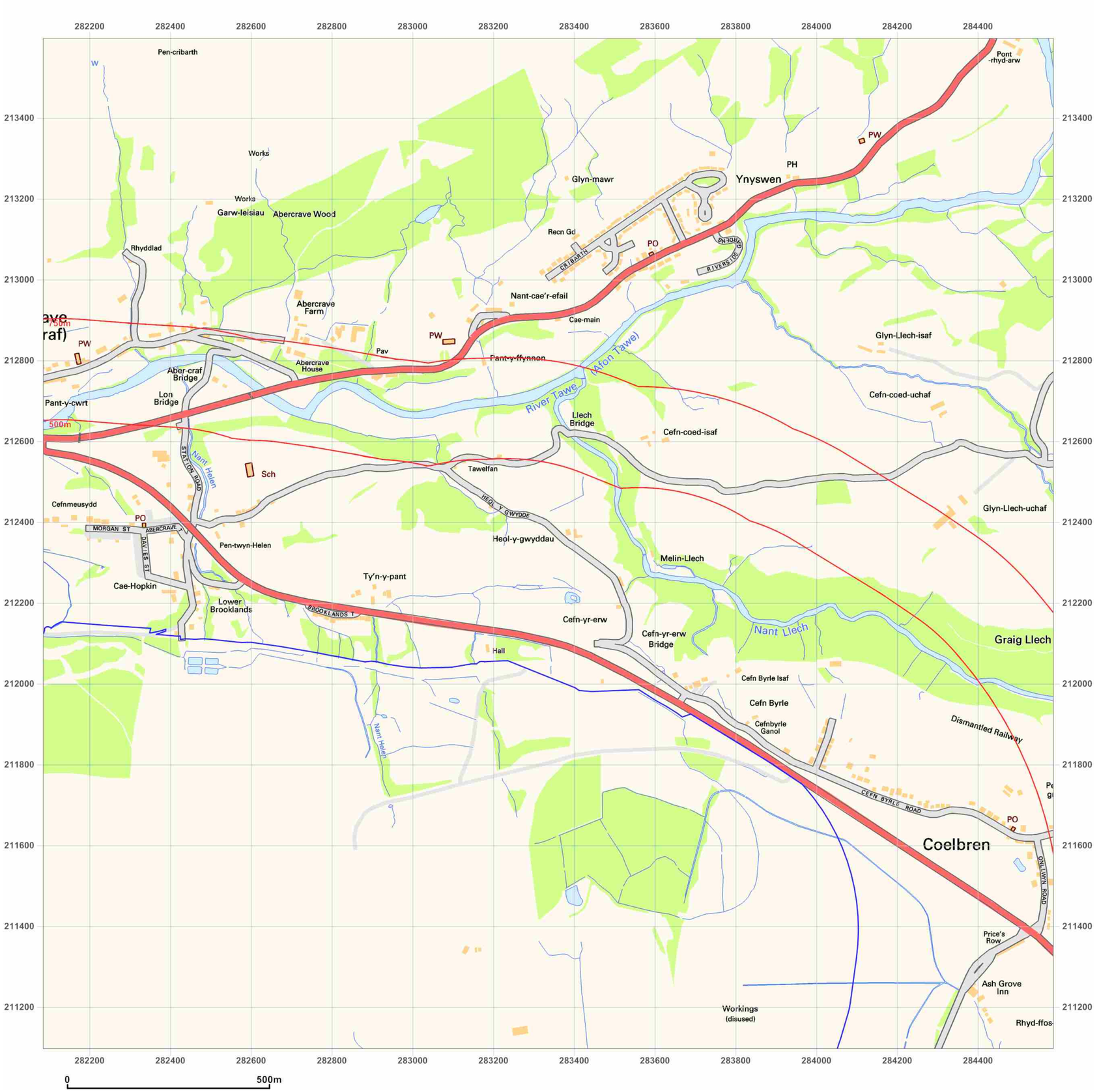
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**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** National Grid
**Map date:** **2001**
**Scale:** 1:10,000
**Printed at:** 1:10,000

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2001

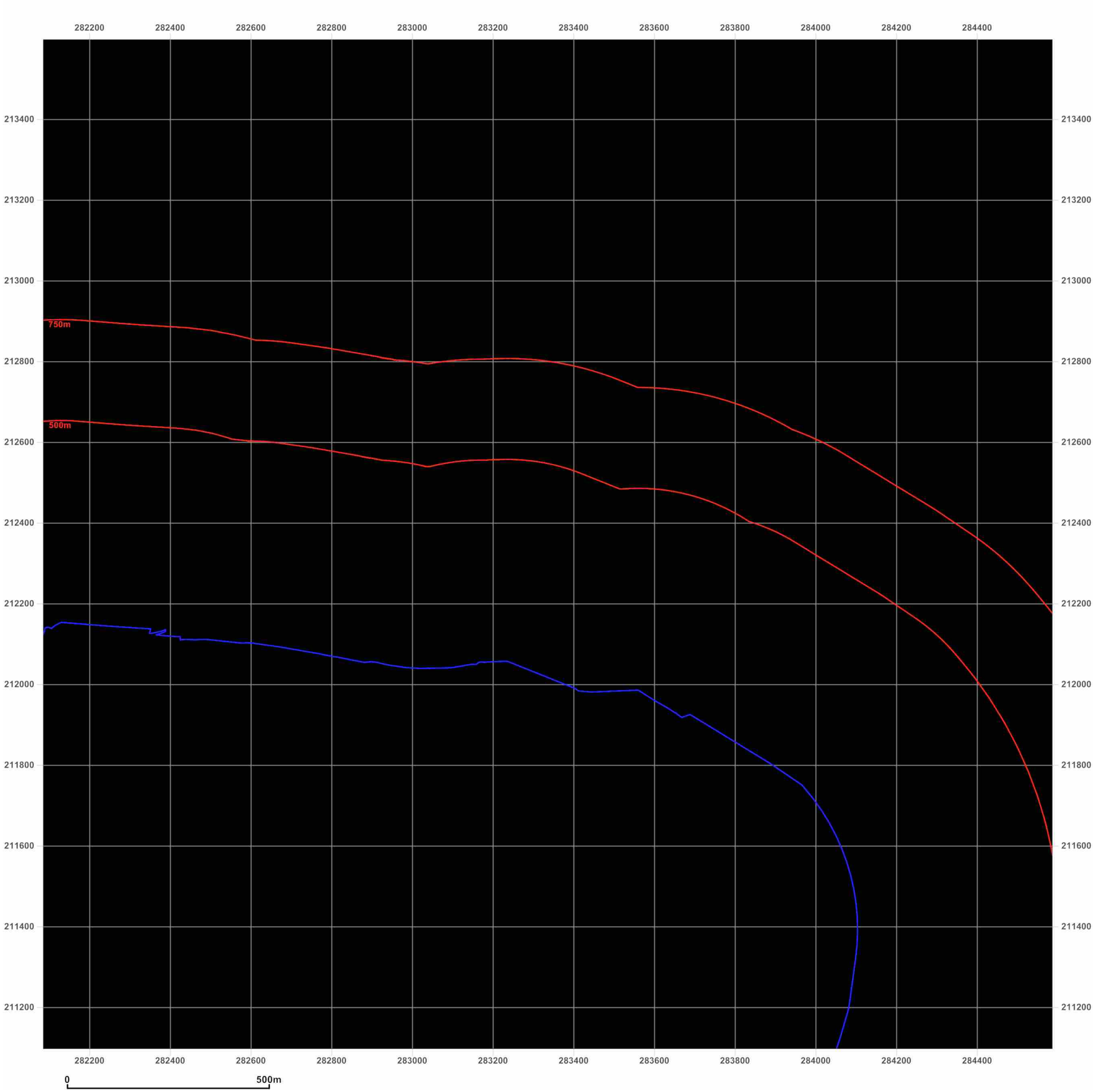
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Groundsure INSIGHTS

**Site Details:**

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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** National Grid

**Map date:** **2010**

**Scale:** 1:10,000

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

N
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2010

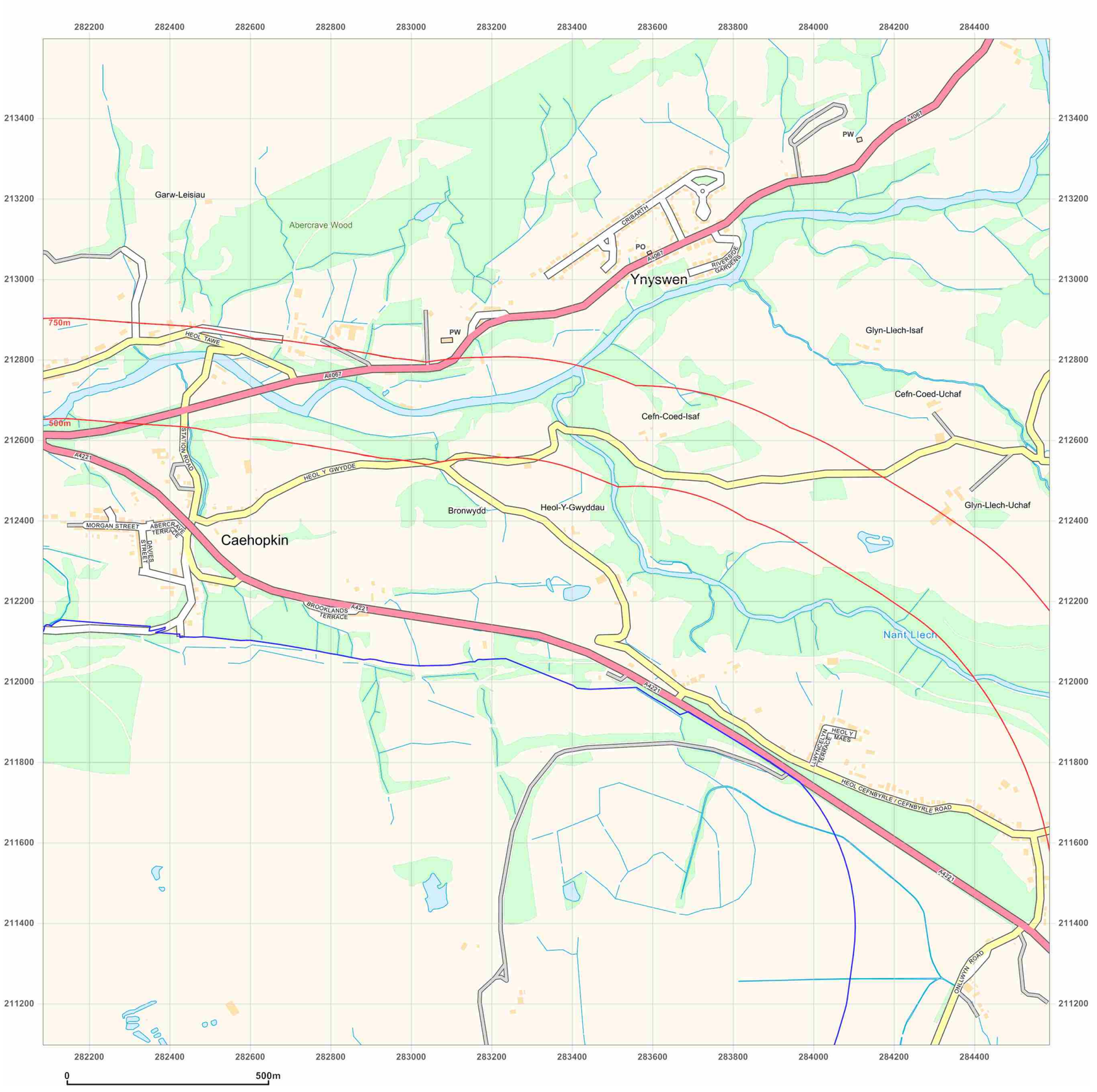
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**Site Details:**

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**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_2_2
**Grid Ref:** 283336, 212347

**Map Name:** National Grid
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**Scale:** 1:10,000
**Printed at:** 1:10,000

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2019

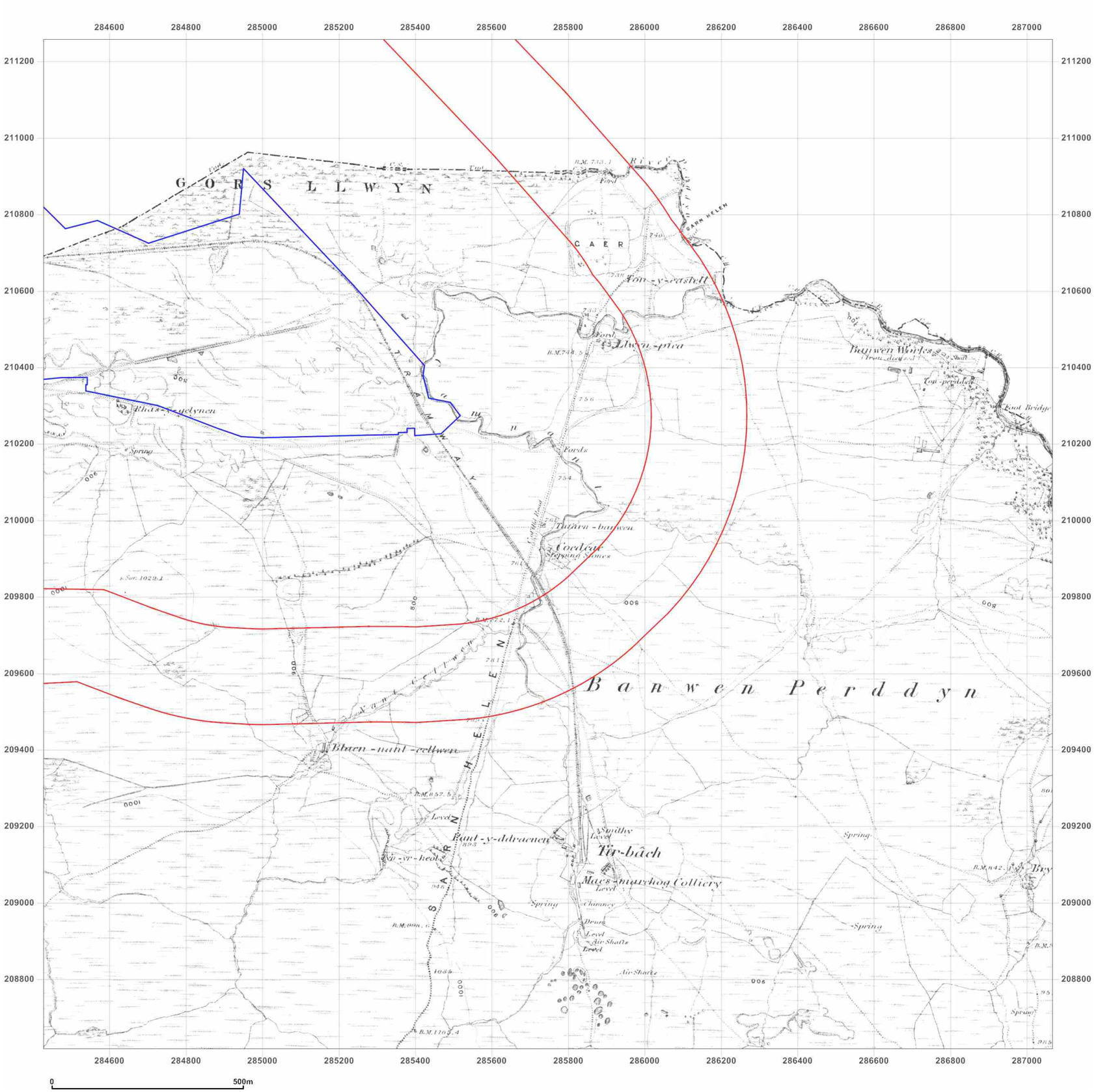
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1876**

**Scale:** 1:10,560

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

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

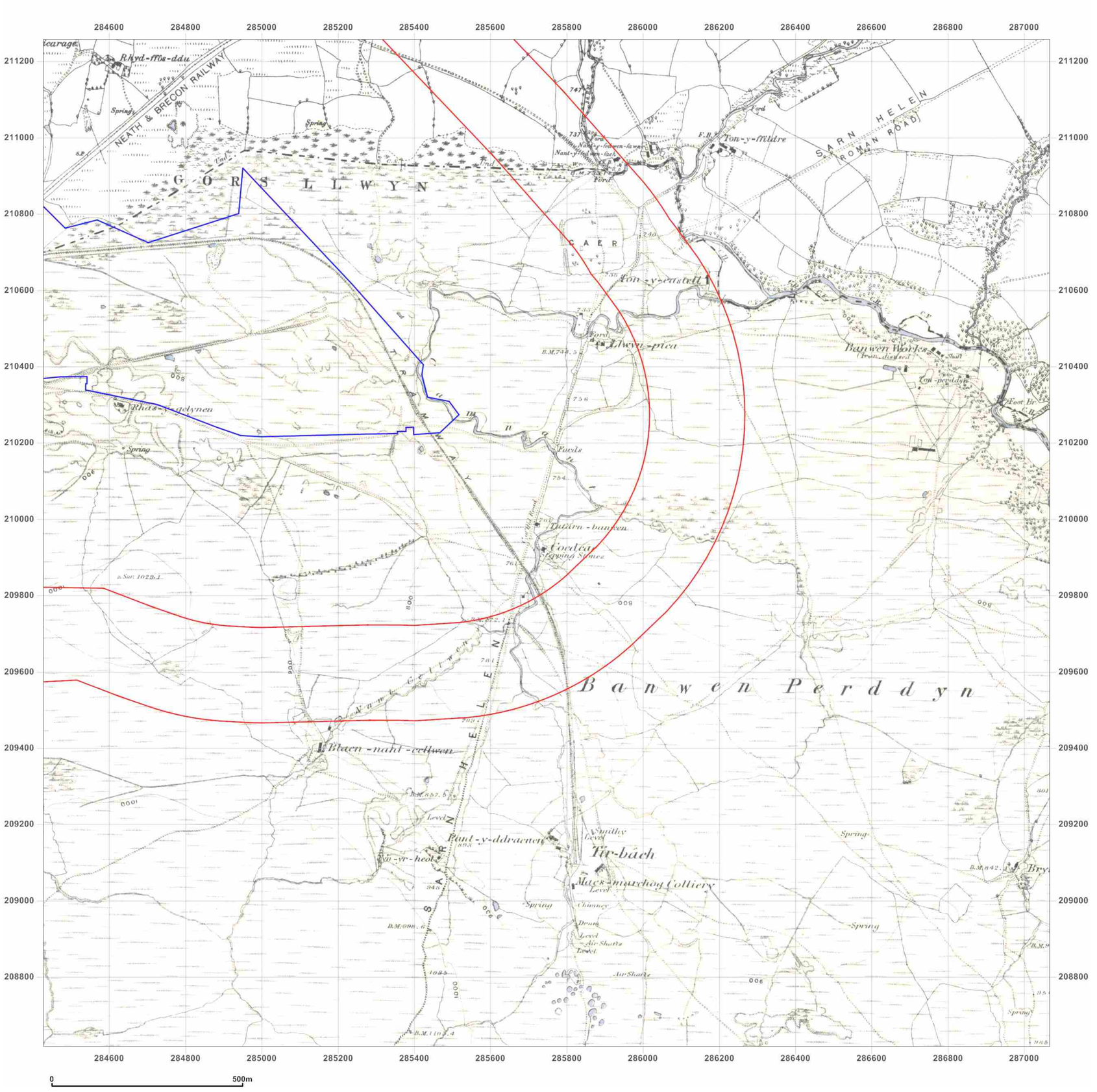
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**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1877**

**Scale:** 1:10,560

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

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

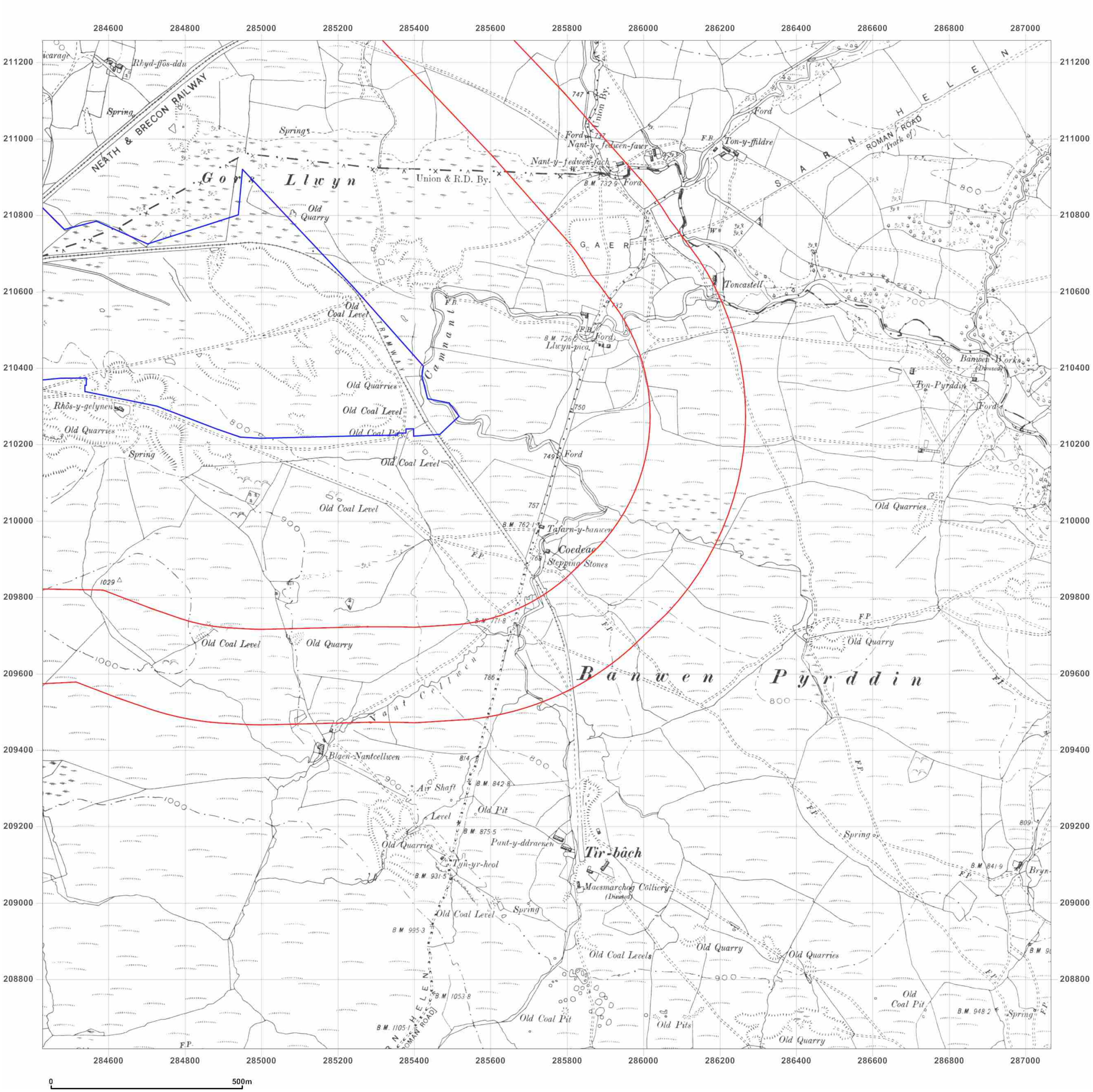
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# Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1900**

**Scale:** 1:10,560

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

N W E S

Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

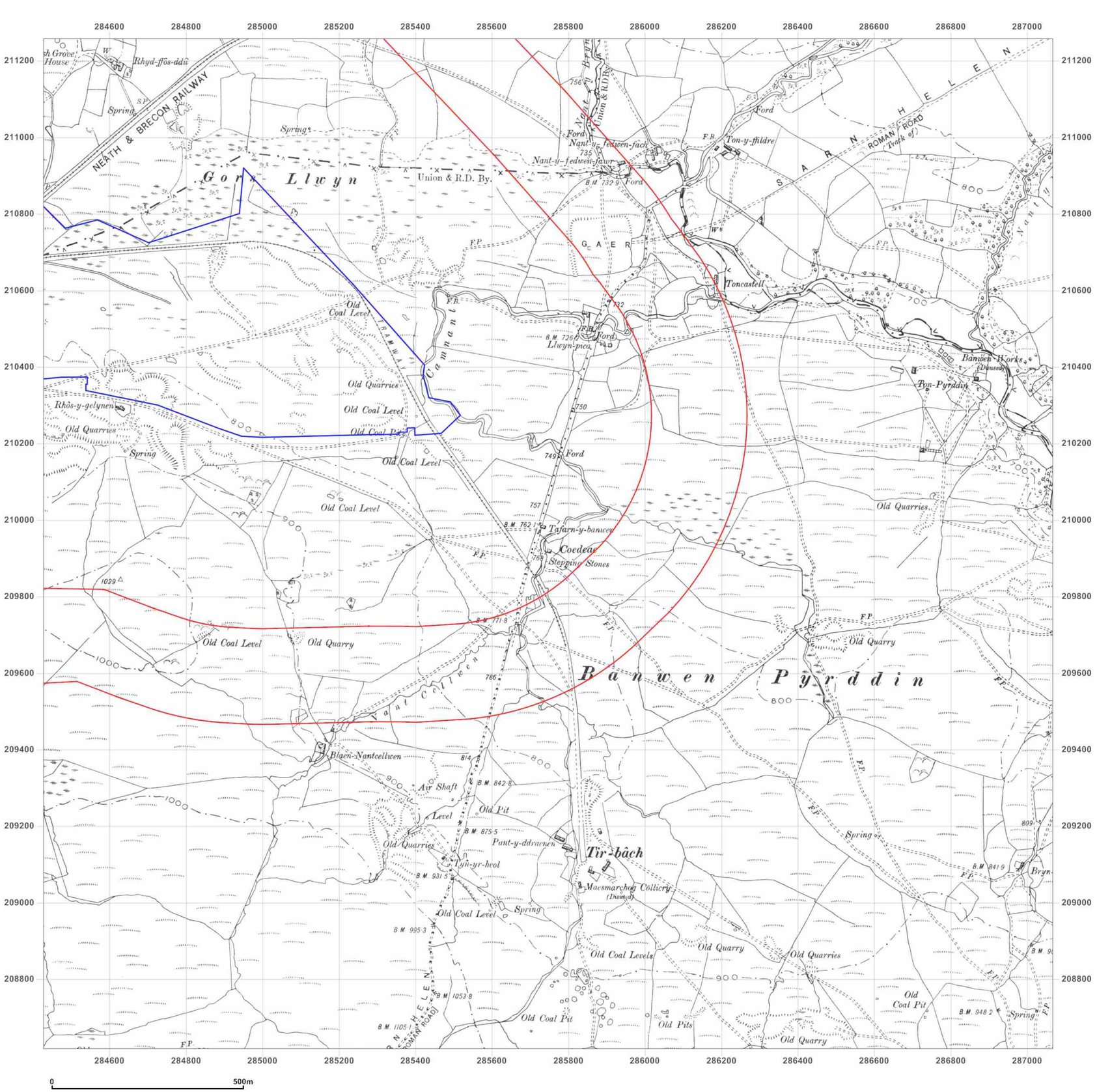
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**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1903**

**Scale:** 1:10,560

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

N
W E
S

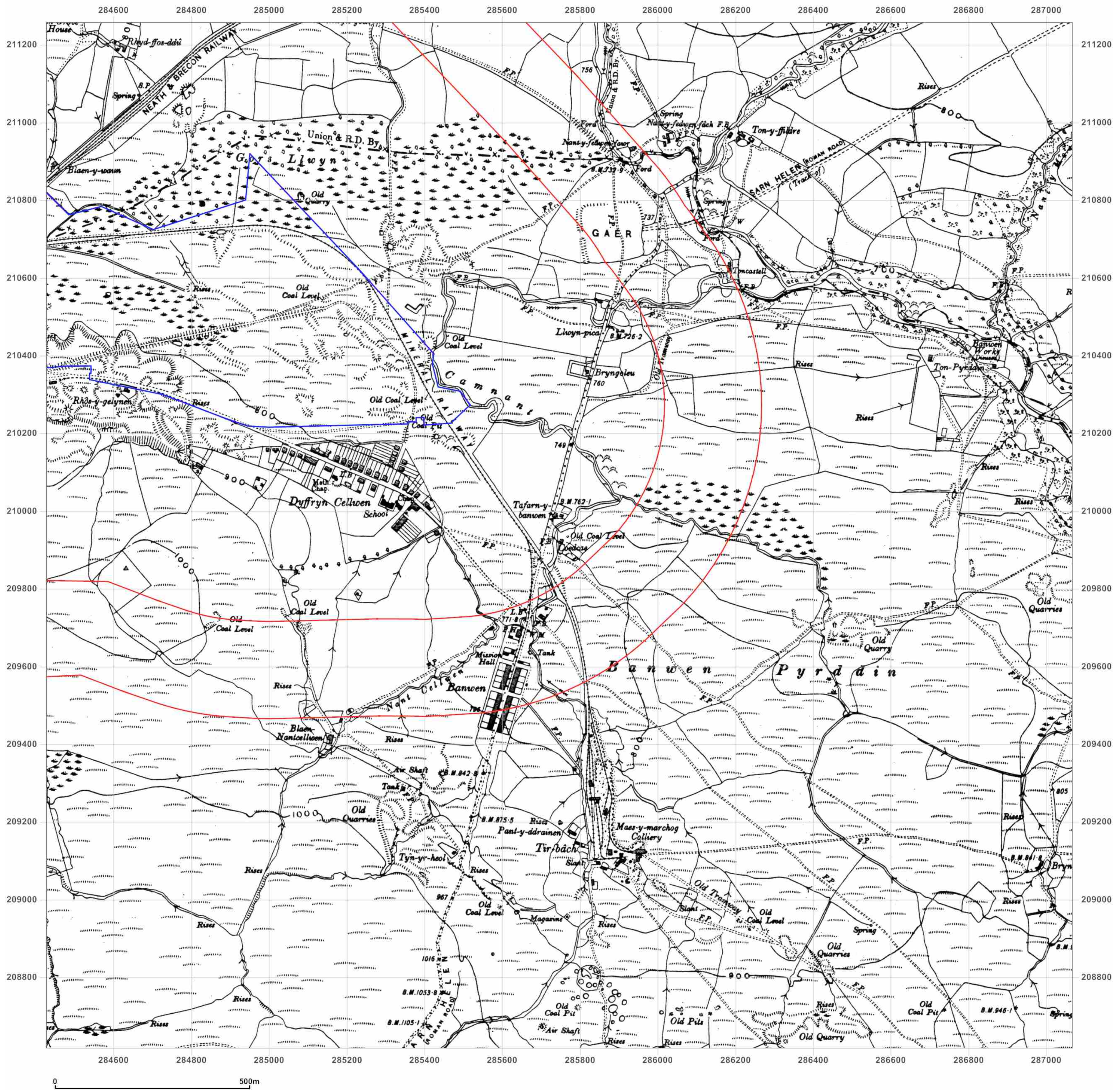
Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

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## Groundsure INSIGHTS

**Site Details:**

282917.86237392283, 211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

N
W E
S

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

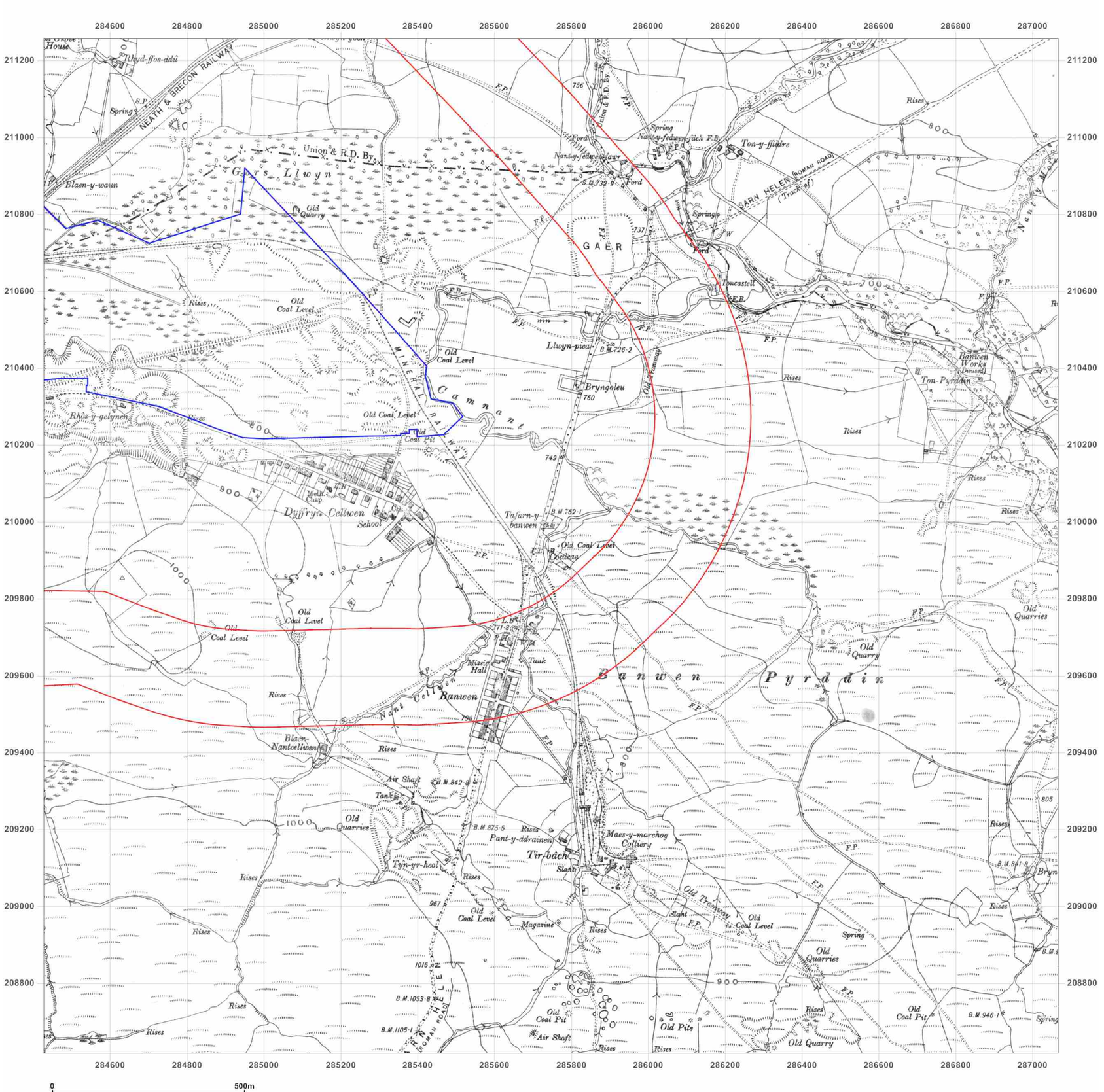
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Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

N
W E
S

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

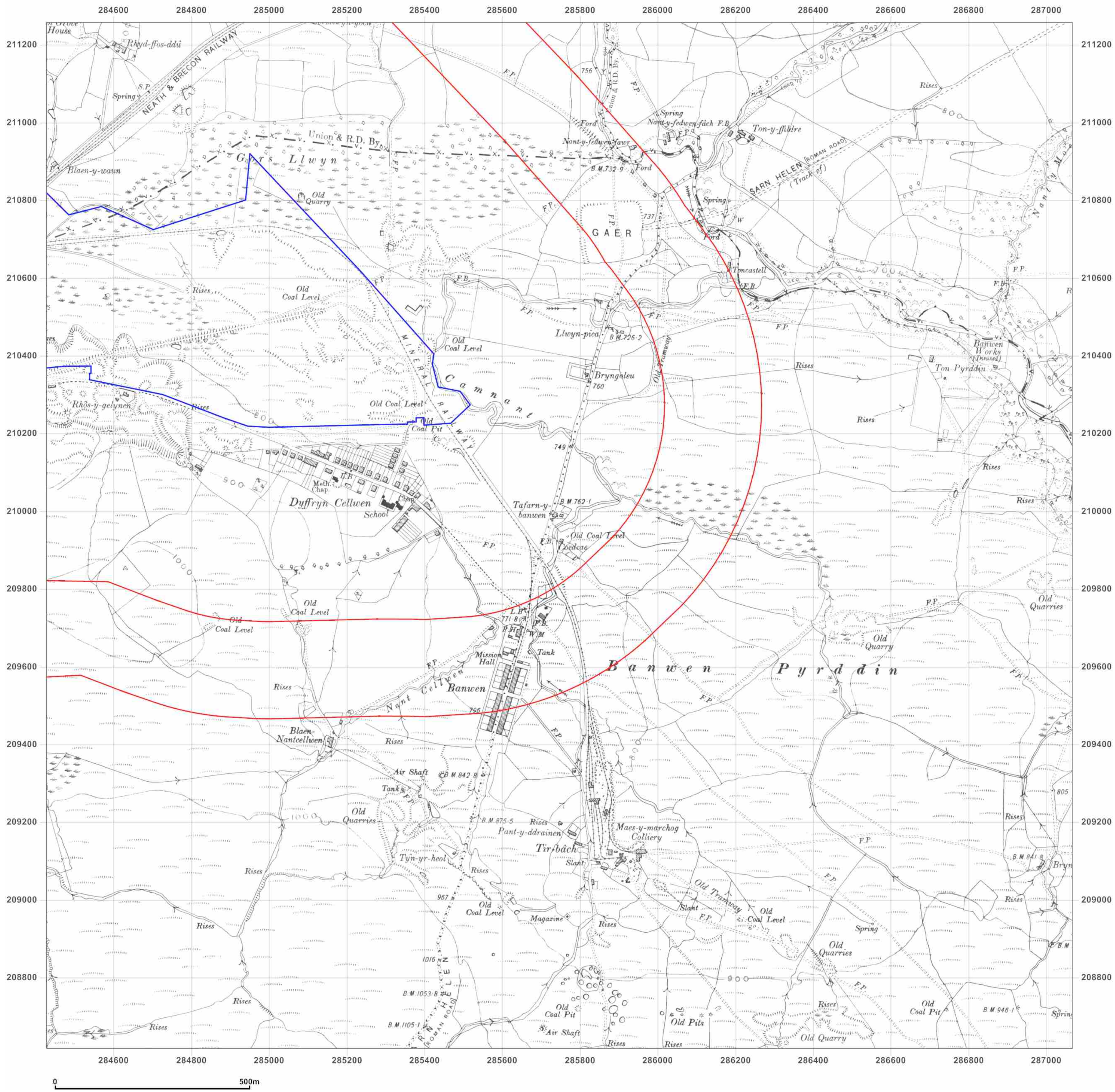
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**Site Details:**

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**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1921**

**Scale:** 1:10,560

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

N
W E
S

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

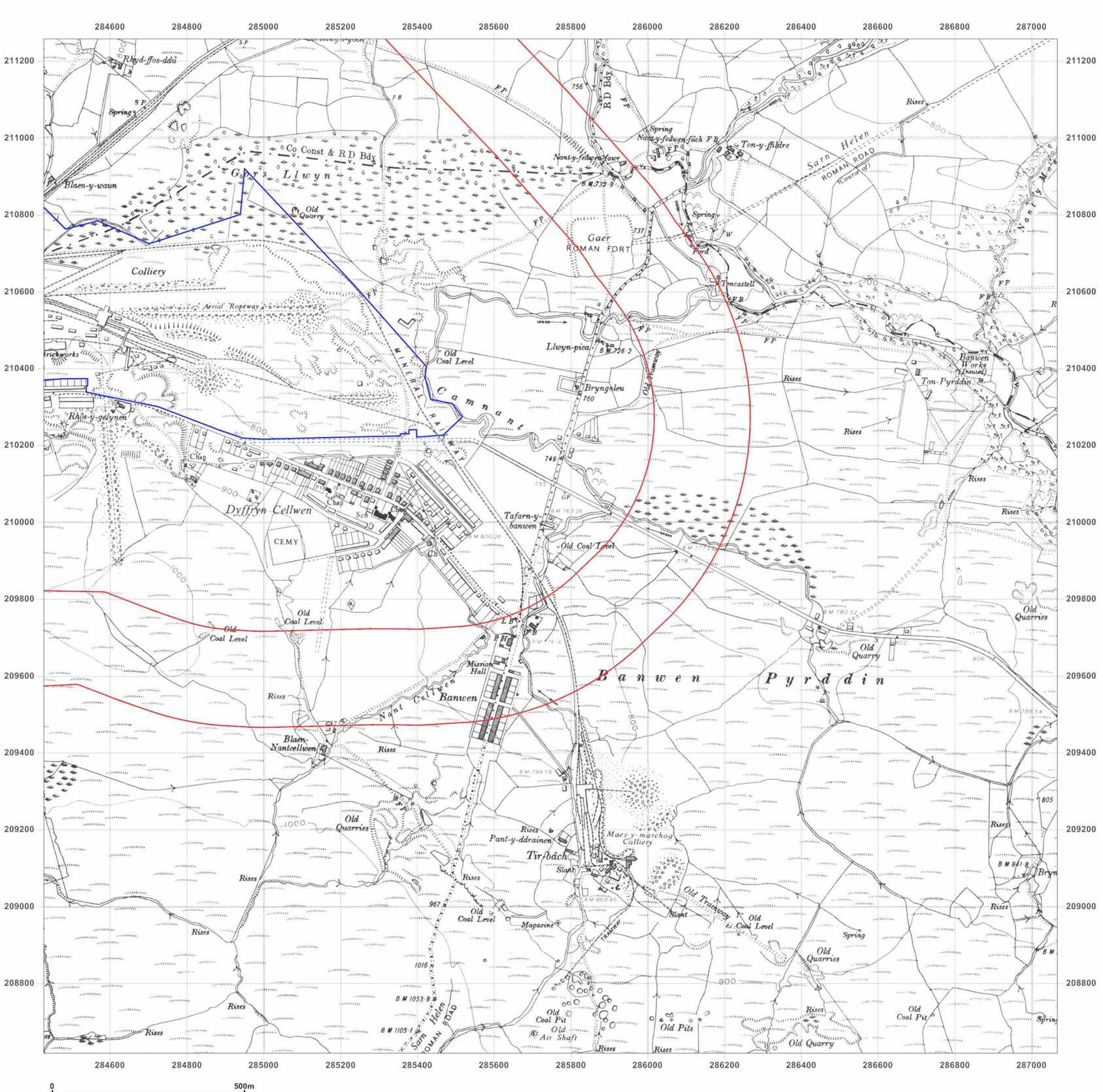
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Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** County Series

**Map date:** **1948**

**Scale:** 1:10,560

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

N
W E
S

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

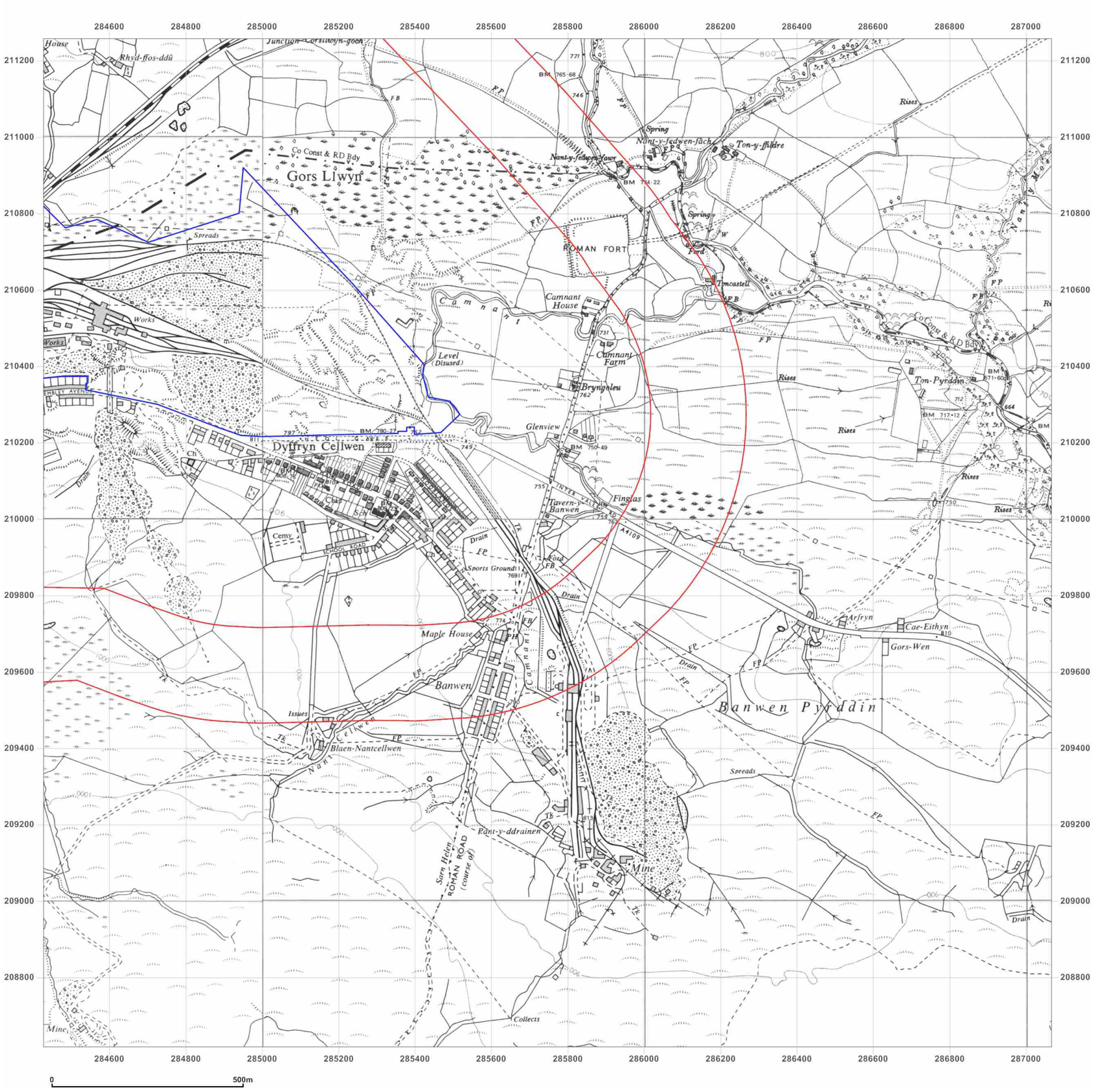
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Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** Provisional
**Map date:** **1962-1965**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
W E
S

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

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

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

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

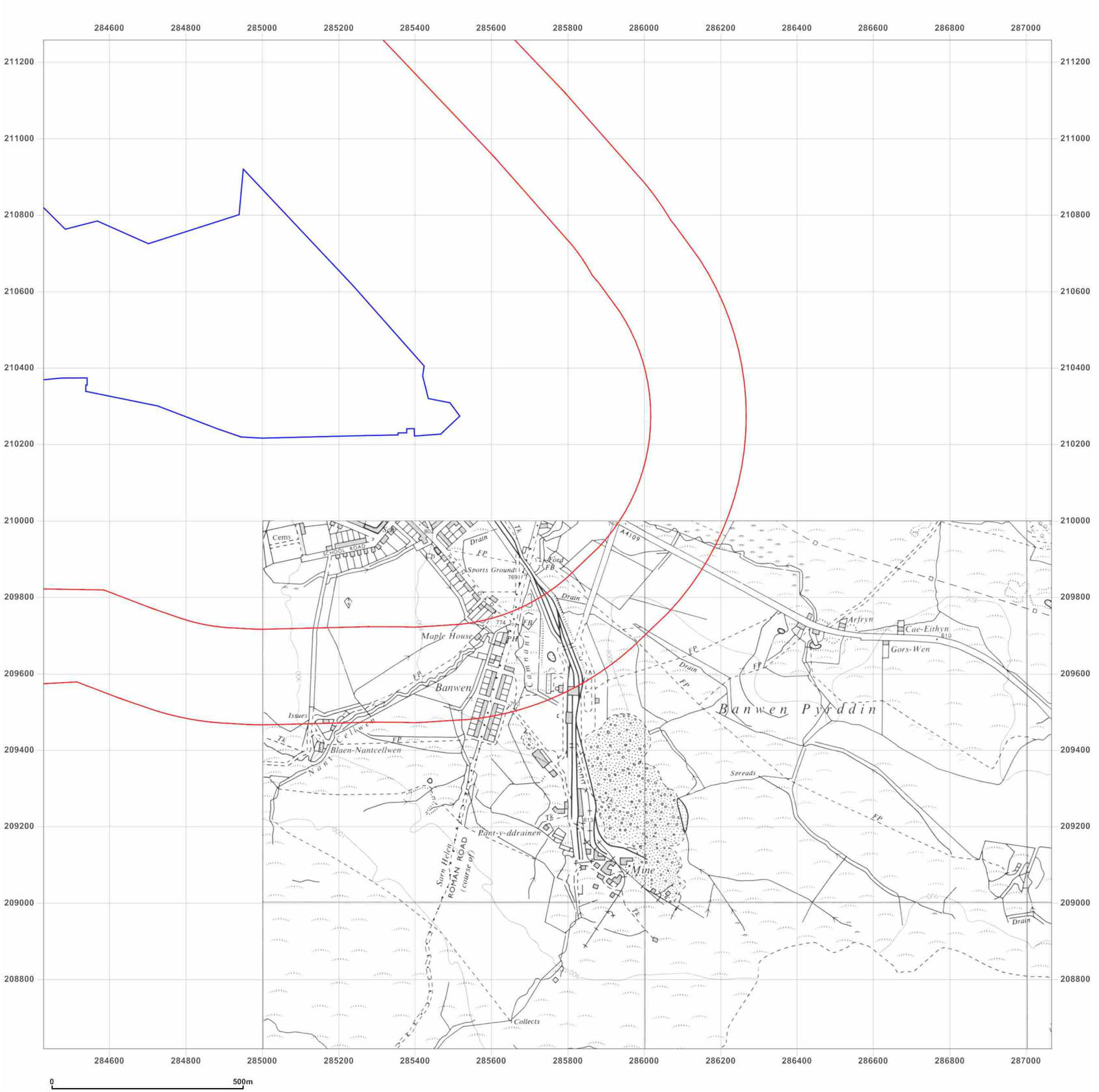
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**Groundsure INSIGHTS**

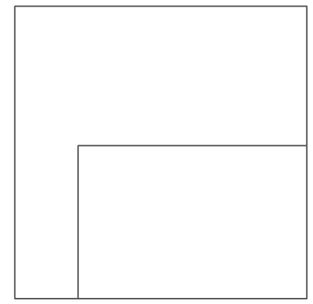
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**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** Provisional
**Map date:** **1980**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
W E
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Surveyed 1980
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

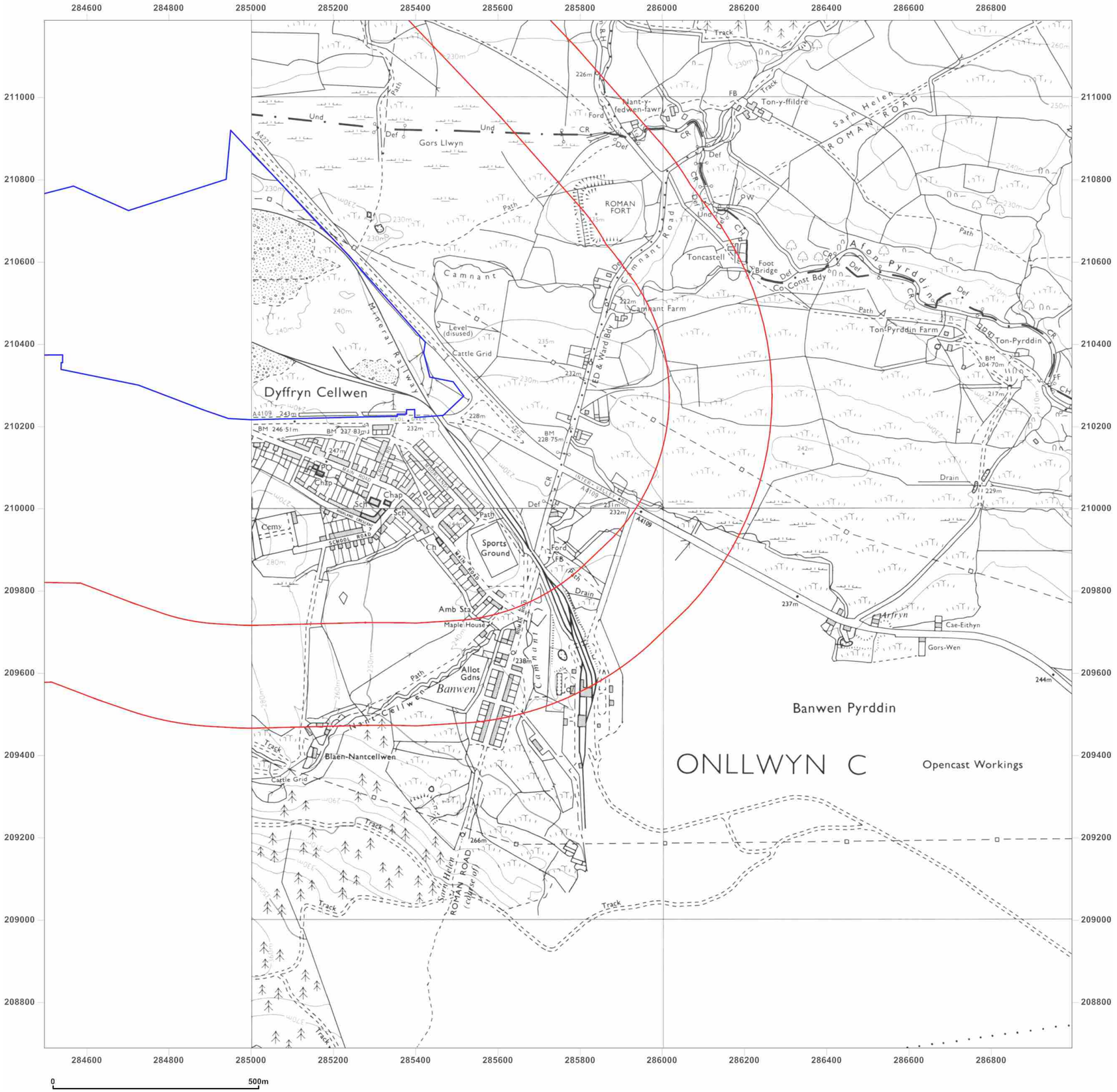
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Groundsure INSIGHTS

**Site Details:**

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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

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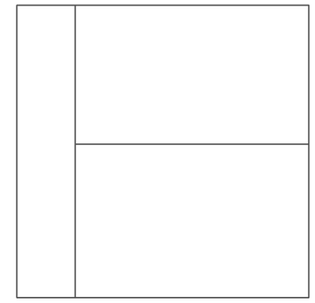
**Map date:** **1979-1981**

**Scale:** 1:10,000

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

N
W E
S

Surveyed 1977
Revised 1979
Edition N/A
Copyright 1979
Levelled 1977



Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

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211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** National Grid

**Map date:** **2001**

**Scale:** 1:10,000

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

N
W E
S

2001

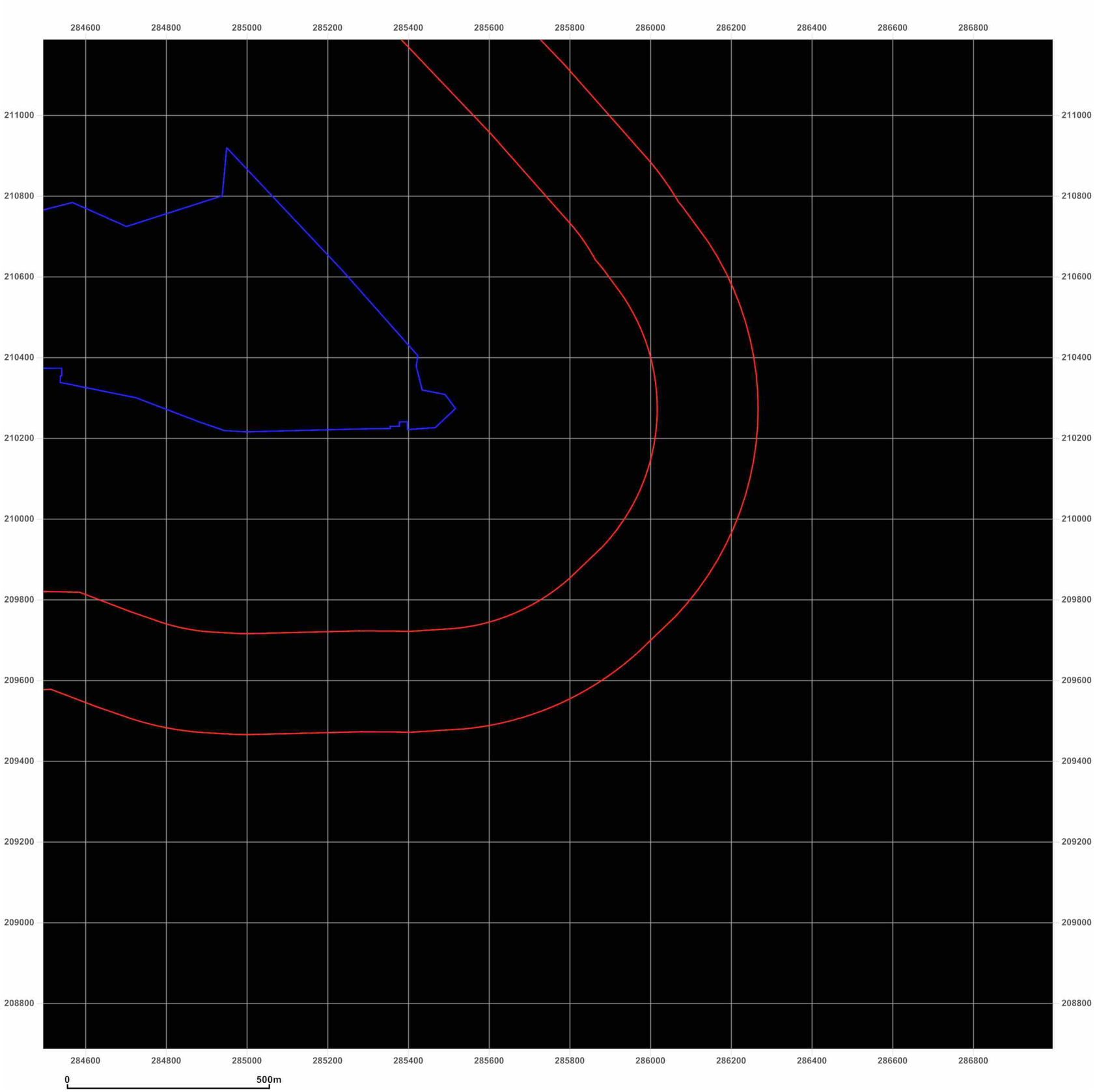
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Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
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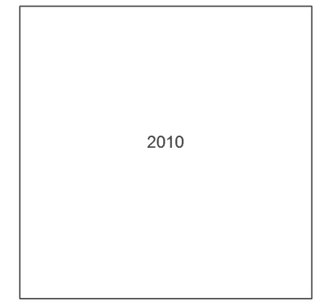
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**Map date:** **2010**

**Scale:** 1:10,000

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

N
W E
S



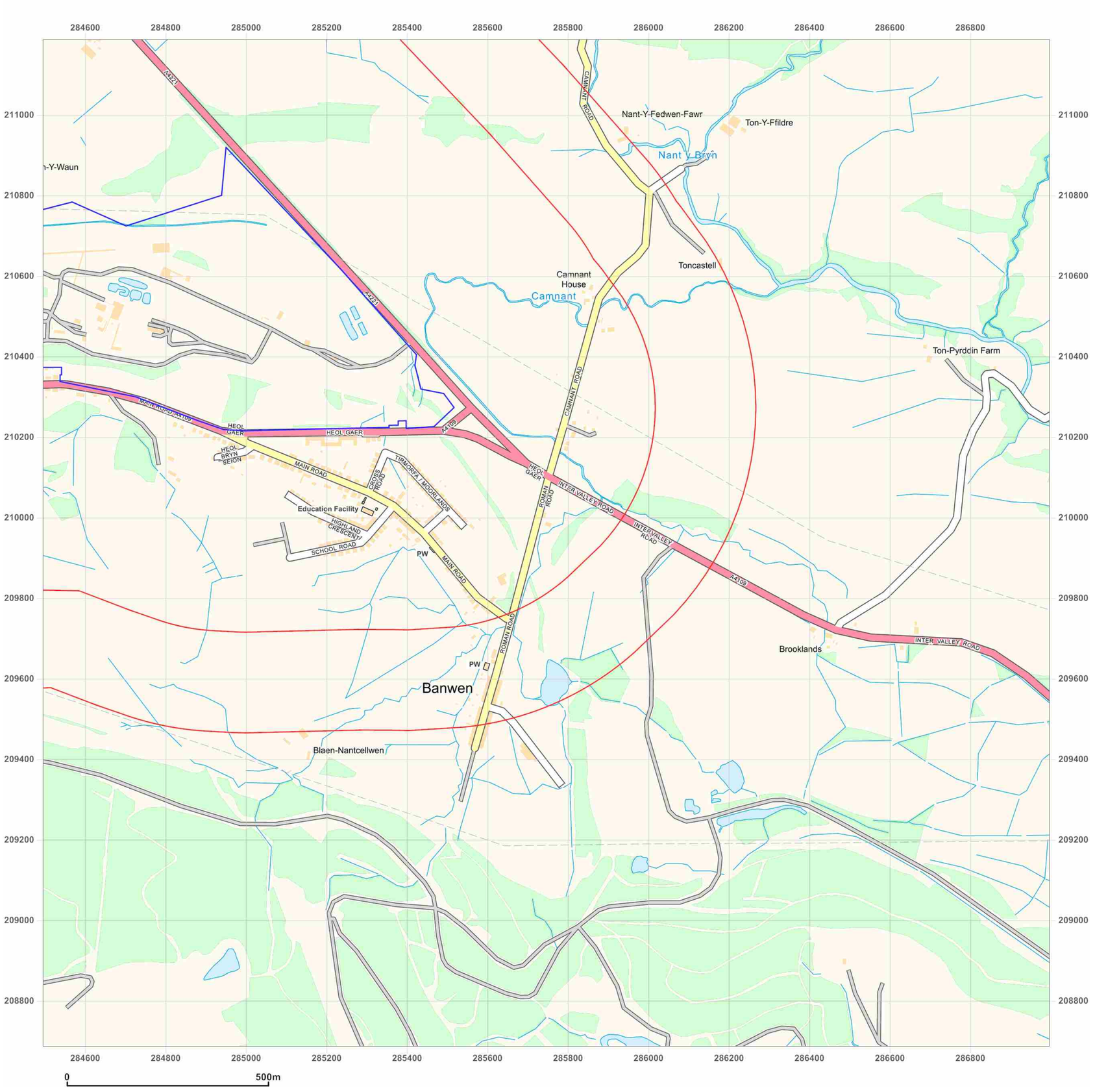

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# Groundsure INSIGHTS

**Site Details:**

282917.86237392283,
211100.677756288

**Client Ref:** GCORE
**Report Ref:** GS-6396071_SS_3_1
**Grid Ref:** 285746, 209937

**Map Name:** National Grid
**Map date:** **2019**
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
W E
S

2019

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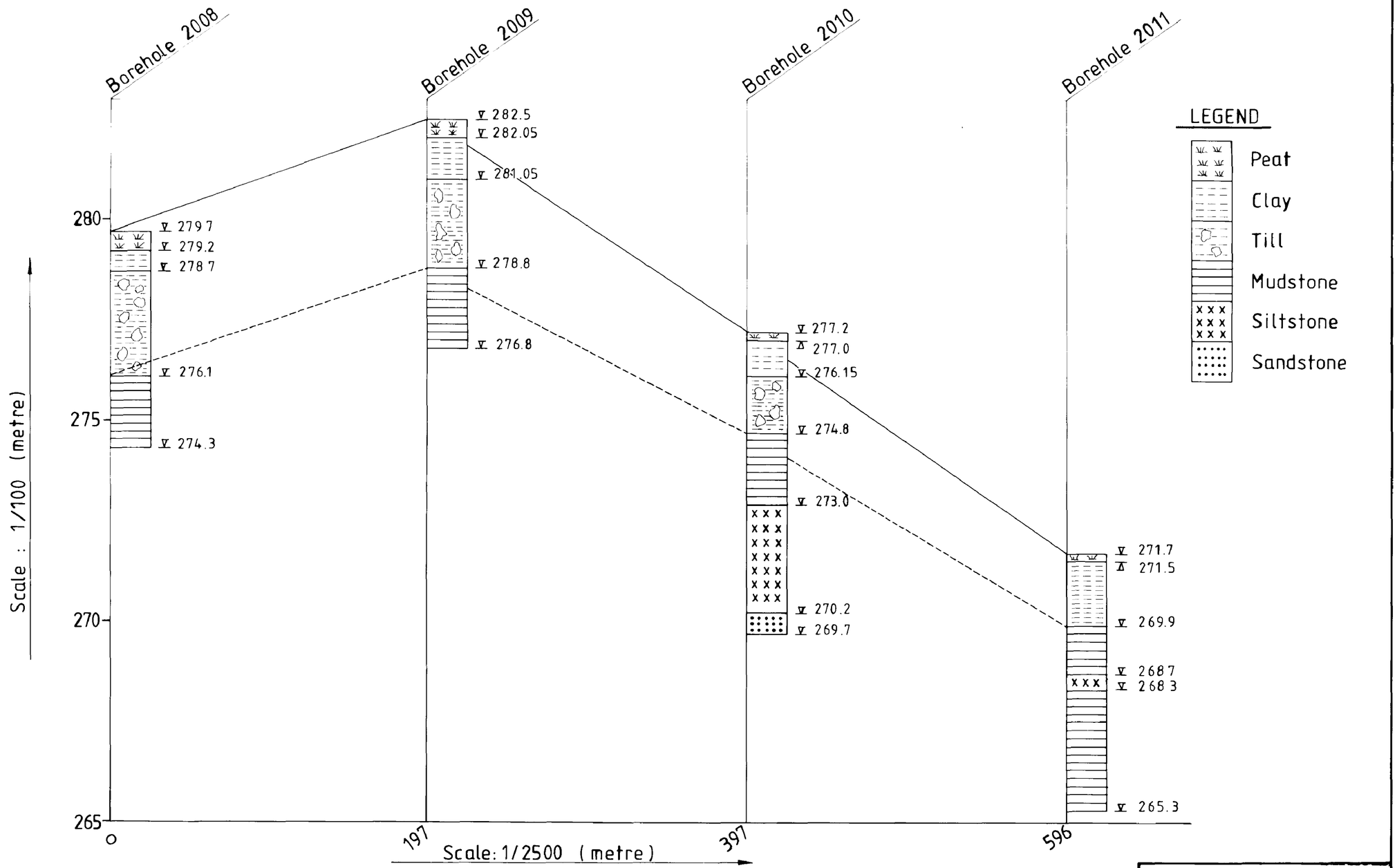
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# Appendix C

Nant Helen Geotechnical Borehole Records – Celtic Energy



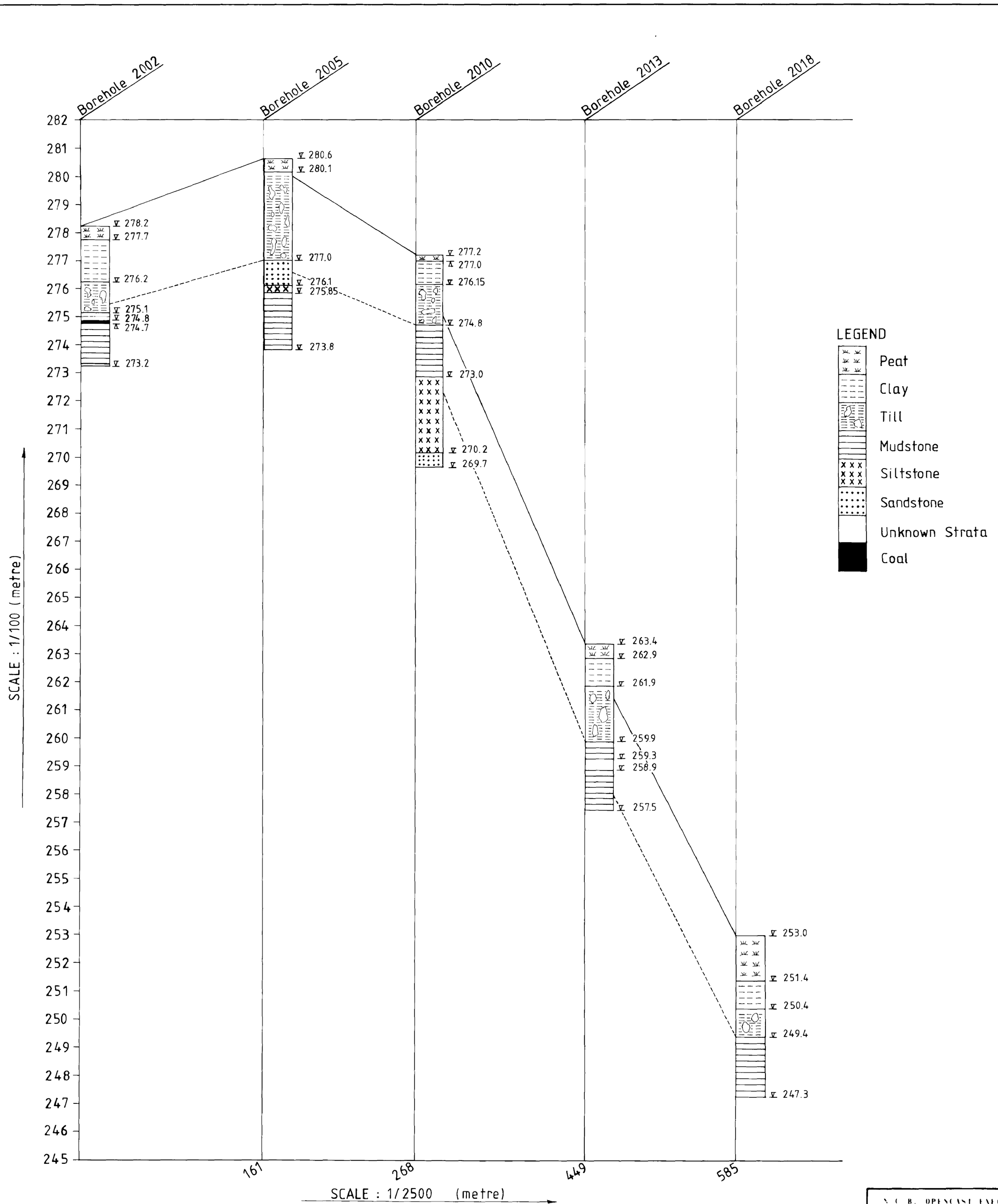

SECTION X-X'

N C B OPENCAST EXECUTIVE
Farm Road Aberaman Aberdare
Glam

SITE NAME NANT HELEN
SITE No 682
CONTRACT DRG No 117/1
SCALE AS SHOWN

CROWN COPYRIGHT RESERVED
Licence No NA 273082

**DRAWING No. 07D010273**
07A04104.DWG
(Scale 1:100)




SECTION Y-Y'

N. C. B. OPENCAST EXECUTIVE
Farm Road Aberaman Aberdare
Glam

SITE NAME NANT HELEN
SITE No 682
CONTRACT DRG No 117/2
SCALE AS SHOWN

CROWN COPYRIGHT RESERVED
Licence N° NA 273082

**DRAWING No. 07D010274**
07A04105.DWG
(Scale 1:100)

# Appendix D

BGS Borehole Records

# D1

## Holst Soil Engineering Limited

Borehole No. L1

SN 81 SE 4

**BOREHOLE LOG**

Contract No. F3593
Location Dyffryn Cellwen
Client Neath B.C.
Method of Boring Percussion
Diameter of Borehole 150mm

SN 8504 1019

Sheet 1 of 1
Chainage
Ground Level m.A.O.D.
Date 27.4.77

| Description of Strata | Legend | Depth Below G.L. (m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.10 | | | | | |
| MADEGROUND: Stiff grey/brown stony clay with sandstone cobbles | | 0.60 | | | 0.50 | | |
| MADEGROUND firm dark grey silty clay with coal fragments | | | | | 1.30 | | |
| | | | | | 3.00 S | 7 | |
| | | 3.90 | | | | | |
| Stiff brown and grey mottled sandy CLAY with mudstone fragments | | | | | 4.00 | | |
| | | | | | 4.50 S | 38 | |
| | | 5.00 | | | | | |

Type of Sample

Is S.P.T. □ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.)

groundwater struck at 1.50m depth
rising to 1.30m depth in 10 minutes
standing water level at 1.30m depth

# Holst Soil Engineering Limited

Borehole No. **L2**

## BOREHOLE LOG

SN 81 SE 5

Contract No. F3593
Location Dyffryn Cellwen
Client Neath B.C.
Method of Boring Percussion
Diameter of Borehole 150mm

SN 8519 1020

Sheet 1 of 1
Chainage
Ground Level m.A.O.D.
Date 28.4.77

| Description of Strata | Legend | Depth Below G.L.(m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.20 | | | | | |
| MADEGROUND - clay with coal, wood, stones | | 0.50 | | | 0.50 | | |
| MADEGROUND - firm brown & grey mottled silty clay with sandstone & coal fragments | | 1.50 | | | 1.60 No recovery | | |
| MADEGROUND - stiff brown mottled silty clay with sandstone & coal fragments | | 2.60 | | | 2.90 | | |
| MADEGROUND - stiff dark grey shaly clay with coal fragments | | 3.00 | | | 3.50 | | |
| Very stiff brown grey shaly CLAY with large angular sandstone fragments | | 4.00 | | | 6 | 42 | |

Type of Sample

Is S.P.T. U Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.)
Borehole dry

# Holst Soil Engineering Limited

Borehole No. **L3**

SN 81 SE 6

## BOREHOLE LOG

Contract No. F3593
Location Dyffryn Cellwen
Client Neath B.C.
SN 8528 1020
Method of Boring Percussion
Diameter of Borehole 150mm

Sheet 1 of 1
Chainage
Ground Level m.A.O.D.
Date 28.4.77

| Description of Strata | Legend | Depth Below G.L.(m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.10 | | | | | |
| MADEGROUND - coal & clay | | 0.70 | | | 0.50 | | |
| MADEGROUND: Firm grey/brown sandy stony clay with mudstone fragments and disseminated coal particles | | | | | 0.70 No recovery<br>1.15 S | 13 | |
| | | 2.50 | | | | | |
| Stiff grey/brown sandy stony CLAY with mudstone and large sandstone fragments | | | | | 2.65 | | |
| | | 4.00 | | | 3.50 S | 42 | |

Type of Sample

Is S.P.T. U Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.)

Water struck at 3.00m depth, casing depth 1.50m
Standing water level at 1.60m depth

# Norwest Holst Soil Engineering Ltd.

Borehole No. 2

Contract No. F8368

**BOREHOLE LOG**

Location Onllwyn SN81SW 30

Sheet 1 of 3

Client British Coal

Co-ords 284787.75E 210602.00N

Method of Boring Percussion, rotary air flush & rotary open hole

Ground Level 236.48 m.A.O.D.

Diameter of Borehole 150mm and 105mm

Date 13/2-14/2/89-21/2-23/2/89

| Description of Strata | Legend | Depth Below G.L.(m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| MADE GROUND: Loose to medium dense black sand and gravel mudstone with coal in a black silty clay matrix (colliery waste) | | | | | 0.50-0.95 s | "7" | |
| | | | | | 2.00-2.95 s | "14" | |
| | | | | | 3.50-3.95 s | "8" | |
| MADE GROUND: Soft grey brown mottled orange and black silty clay with much gravel of weathered sandstone and mudstone | | | | | 5.00-5.45 s | "19" | |
| Grey highly to completely weathered silty MUDSTONE very weak laminated and micaceous | | 6.00 | 230.48 | | 6.00 (48) | | |
| Dark grey IRONSTONE with some SILSTONE | | 7.00 | 229.48 | | 7.50 (58) | | |
| Light grey slightly to moderately weathered fine SANDSTONE, strong massive to occasionally cross laminated | | 8.05 | 228.43 | | | | |
| Grey and light grey interlaminated moderately weathered silty MUDSTONE and sandy SILTSTONE, modeately weak occasional grey sandstone band | | 8.65 | 227.83 | | 8.65-8.68 C | *25" blows* for 25mm | |
| ...8.90-9.00 Highly fractured medium to coarse gravel size | | 8.90 | 227.58 | | TCR 100% SCR 58% | 0% | |
| | | 9.60 | 226.88 | | | | |

() U100 blows *seating blows only

13/2/89 Borehole dry during drilling
14/2/89 Borehole dry during drilling
21/2/89 initial standing water level 3.45m, casing at 8.60m
Final standing water level 7.60m, casing at 8.60m

Type of Sample

Is S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

# Norwest Holst Soil Engineering Ltd.

Borehole No. **2**

**BOREHOLE LOG**

Contract No. F8368
Location. Onllwyn
Client. British Coal
SN81SW 30
Sheet 2 of 3
Co-ords 284787.75E 210602.00N
Method of Boring. Percussion & rotary air flush rotary open hole
Diameter of Borehole. 150mm & 105mm
Ground Level 236.48 m.A.O.D.
Date 13/2-14/2 21/2-23/2/89

| Description of Strata | Legend | Depth Below G.L.(m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| Grey moderately weathered silty to very silty MUDSTONE, moderately weak Jointed at 60° | | 11.00 | 225.48 | | 10.10 TCR SCR 100% 81% | 0% | |
| Dark grey slightly weathered silty SANDSTONE, weak. Thin sub horizontal laminations | | 11.95 | 224.53 | | 11.95 | | |
| Dark grey slightly weathered very slightly silty MUDSTONE moderately weak to weak laminated. Becoming very carbonaceous with depth<br>...11.95 to 12.70m often fragmented<br>...13.93 to 14.20m occasional very weak shaly mudstone bands | | | | | 100% 49% | 0% | |
| (Boundary planar)<br>Vitreous COAL. Evidence of slickensided joint surfaces.<br>... 14.70-14.72m; Very thin sub-horizontal bed of very dark grey slightly weathered very carbonaceous silty MUDSTONE, weak | | 14.20<br>15.03 | 222.28<br>221.45 | | 14.35 | | |
| Dark grey to grey slightly weathered silty MUDSTONE, moderately weak many carbonaceous plant remains (seatearath) | | 16.08 | 220.40 | | 86% 63% | 36% | |
| Light grey slightly weathered clayey SILTSTONE moderately weak with occasional bands of thinly laminated silty mudstone<br>...micaceous from 19.25m | | | | | 16.45<br>94% 53%<br>18.00 | 26% | |
| Light to dark grey slightly weathered fine and medium SANDSTONE, strong massive with occasional cross bedding occasional joints at 75° | | 19.70 | 216.78 | | 100% 77%<br>19.25<br>98% 74% | 44%<br>74% | |

Type of Sample

Is S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.)

22/2/89 Initial standing water level 5.00m, casing at 8.60m
Final standing water level 7.20m, casing at 8.60m
23/2/89 initial standing water level 6.45m, casing at 8.60m
Final standing water level 6.20m, casing at 8.60m

# Norwest Holst Soil Engineering Ltd.

Borehole No. **2**

**BOREHOLE LOG**

Contract No. F8368
Location Onllwyn
Client British Coal
SN81SW 30
Sheet 3 of 3
Co-ords 284787.75E 210602.00N
Method of Boring Percussion & rotary air flush, rotary open hole
Ground Level 236.48 m.A.O.D.
Diameter of Borehole 150mm & 105mm
Date 13/2-14/2 21/2-23/2/89

| Description of Strata | Legend | Depth Below G.L. (m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| Light to dark grey slightly weathered fine and medium SANDSTONE strong massive with occasional cross bedding occasional joints at 75° | | | | | TCR SCR<br>20.80 | | |
| | | 21.65 | 214.83 | | 100% 78% | 78% | |
| Grey slightly weathered silty fine SANDSTONE moderately weak thin sub horizontal laminations very occasional plant remains occasional sub vertical joints | | 22.30 | 214.18 | | 22.50 | | |
| Dark grey/black slightly weahtered slightly silty MUDSTONE, moderately to very weak. Often highly fragmented often highly carbonaceous with occasional plant traces Occasional slickenside on joint surfaces | | | | | 95% 27% | 9% | |
| | | 25.00 | 211.48 | | 25.00 | | |
| Open hole from 25.00m<br>Dark grey MUDSTONE | | | | | | | |
| Borehole complete at 30.00m | | 30.00 | 206.48 | | | | |

Type of Sample

| | | | |
|---|---|---|---|
| Is | S.P.T. | ■ | Undisturbed |
| Ic. | C.P.T. | × | Vane |
| O | Jar | Δ | Water |
| ● | Bulk | | Piezometer |

Remarks (Observations of Ground Water etc.)

# Norwest Holst Soil Engineering Ltd.

Borehole No. 8

**BOREHOLE LOG**

Contract No. F8368
Location Onllwyn
Client British Coal
Method of Boring Percussion rotary air flush rotary open hole
Diameter of Borehole 150mm & 105mm
SN81SW 36
Sheet 1 of 3
Co-ords 284862.94E 210586.15N
Ground Level 237.20 m.A.O.D.
Date 16/2/89&26/2/89

| Description of Strata | Legend | Depth Below G.L. (m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| MADE GROUND: Medium dense black sand and gravel of carbonaceous silty mudstone and coal with occasional black silty clay matrix (colliery waste) | | | | | 0.50-0.95 s | "11" | |
| | | | | | 2.00-2.45 s | "10" | |
| | | 3.20 | 234.00 | | | | |
| Firm brown organic CLAY with many rootlets and some peat | | 3.40 | 233.80 | | 3.50 (33) | | |
| Firm to stiff grey brown mottled orange and black silty sandy CLAY with much gravel and occsional cobble of sandstone and mudstone occasional coal fragments | | | | | 5.00 (42) | | |
| | | 5.80 | 231.40 | | | | |
| Firm grey brown silty clay with mudstone fragments | | | | | 6.50 (103) | | |
| | | 6.70 | 230.50 | | | | |
| Grey brown highly weathered silty micaceous MUDSTONE weak laminated and fragmented some iron staining | | 7.20 | 230.00 | | | | |
| Grey moderately to slightly weathered SILTSTONE moderately weak laminated subhorizontal to massive iron staining on 45° joint planes | | | | | 7.50 TCR SCR 90% 20% | 0% | |
| Grey moderately weathered slightly silty MUDSTONE weak often highly fragmented | | 9.00 | 228.20 | | 9.00 100% 15% | 0% | |

Type of Sample

ls S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.) () U100 blows

16/2/89 Seepage of water at 3.20m casing at 3.00m no rise
Water sealed at 3.40m
26/2/89 Initial standing water level 6.40m casing at 7.50m
Final standing water level 3.50m casing at 7.50m

# Norwest Holst Soil Engineering Ltd.

Borehole No. 8

**BOREHOLE LOG**

Contract No. F8368
Location Onllwyn
Client British Coal
SN81SW 36
Sheet 2 of 3
Co-ords 284862.94E 210586.15N
Method of Boring Percussion rotary sir flush rotary open hole
Diameter of Borehole 150mm & 105mm
Ground Level 237.20 m.A.O.D.
Date 16/2/89 & 26/2/89

| Description of Strata | Legend | Depth Below G.L.(m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| Grey moderately weathered slightly silty MUDSTONE weak often highly fractured<br>...below 10.20m becomes dark grey & carbonaceous | | | | | TCR SCR<br>10.50 | | |
| (Boundary Planar)<br>COAL with 45-60° slickensided joint surfaces<br>11.90-11.94m; Very thin subhorizontal bed of very dark grey slightly weathered very carbonaceous silty MUDSTONE, weak | | 11.59<br>12.40 | 225.61<br>224.80 | | 92% 62% | 23% | |
| Grey slightly weathered silty MUDSTONE moderately weak massive many carbonaceous plant remains | | 13.00 | 224.20 | | 13.00<br>Open hole drilling | | |
| Grey slightly weathered SANDSTONE & MUDSTONE | | 18.00 | 219.20 | | | | |
| Dark grey slightly weathered SILTSTONE | | | | | | | |

Type of Sample
Is S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk ◧ Piezometer

Remarks (Observations of Ground Water etc.) ( ) U100 blows
16/2/89 Seepage of water at 3.20m, casing at 3.00m no rise
Water sealed at 3.40m
26/2/89 Initial standing water level 6.40m, casing at 7.50m
Final standing water level 3.50m, casing at 7.50m

# Norwest Holst Soil Engineering Ltd.

Borehole No. 8

Contract No. F8368 **BOREHOLE LOG**

Location. Onllwyn SN81SW 36

Sheet 3 of 3

Client. British Coal Co-ords 284862.94E 210586.15N

Method of Boring. Percusssion, rotary air flush rotary open hole Ground Level 237.20 m.A.O.D.

Diameter of Borehole. ~~150mm & 105mm~~ Date. 16/2/89 & 26/2/89

| Description of Strata | Legend | Depth Below G.L.(m) | O.D. Level (m) | Casing Depth at Sampling | Sampling and Coring | "N"/ R.Q.D.% | Daily Progress |
|---|---|---|---|---|---|---|---|
| Dark grey slightly weathered SILTSTONE | | | | | | | |
| Borehole complete at 23.00m | | 23.00 | 214.20 | | | | |

Type of Sample

Is S.P.T. ■ Undisturbed

Ic. C.P.T. × Vane

O Jar Δ Water

● Bulk Piezometer

Remarks (Observations of Ground Water etc.) ( ) U100 blows

16/2/89 Seepage of water at 3.20m, casing at 3.00m no rise
Water sealed at 3.40m

26/2/89 Initial standing water level 6.40m casing at 7.50m
Final standing water level 3.50m casing at 7.50m

SN81SW 37

# Norwest Holst Soil Engineering Ltd.

Trial Pit No. **1**

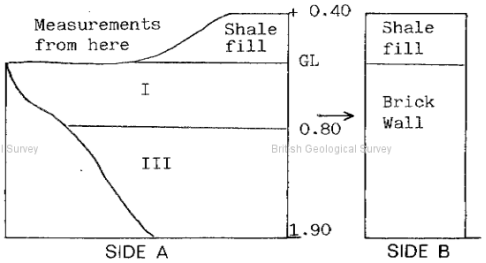
## TRIAL PIT LOG

8400 1043

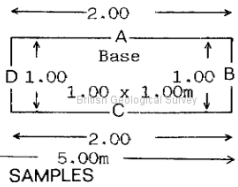
Contract No. F9074
Location Nant Helen O.C.C.S.
Client British Coal
Excavation Plant 180° excavator
Dimensions (l x b x h) 2.00 x 1.00 x 1.90m

Chainage .....
Ground Level ..... m.A.O.D.
Date 4/2/91

ELEVATIONS:—

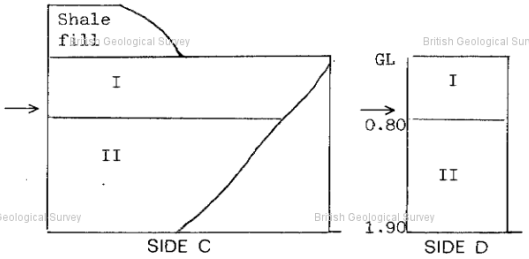



PLAN (Not to scale)




SAMPLES

| No. & Type | Depth m. |
|---|---|
| | |
| | None taken |
| | |
| | |
| | |
| | |
| | |
| | |
| | |




| No. | Depth m. | STRATA DESCRIPTION | Cv/Cp kN/m² |
|---|---|---|---|
| I | 0.00–0.80 | Firm orange silty sandy CLAY with some fine and medium angular mudstone gravel, and occasional coarse gravel and cobbles of sandstone. | |
| II | 0.80–1.90 | Highly weathered grey and orange laminated MUDSTONE, very weak. Generally recovered as angular gravel size fragments in clay matrix. | |
| | | Trial Pit complete at 1.90m depth | |
| | | Note: Ground level taken at a point 0.35m below adjacent rail. | |

NOTES Cv/Cp Approximate value of undrained shear strength from hand vane/penetrometer
Groundwater: Slight seepage from 1.00m, in mudstone
Pumping: None
Supports/Stability: Unsupported/stable

SN81SW 38

# Norwest Holst Soil Engineering Ltd.

Trial Pit No. **2**

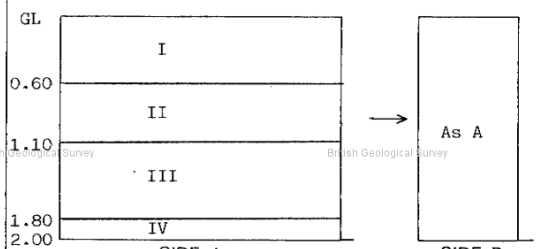
8403 1044

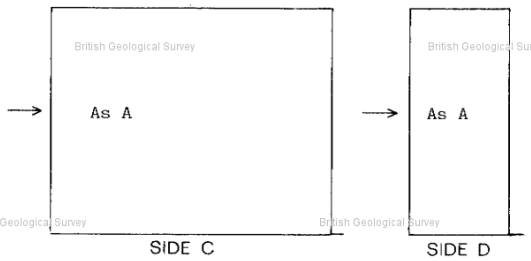
## TRIAL PIT LOG

Contract No. F9074
Location Nant Helen O.C.C.S
Client British Coal
Excavation Plant 180° excavator
Dimensions (l x b x h) 2.00 x 1.00 x 2.00m

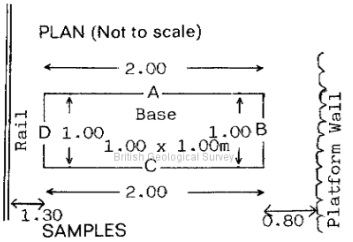
Chainage .....
Ground Level ..... m.A.O.D.
Date 4/2/91

ELEVATIONS:—




PLAN (Not to scale)




SAMPLES

| No. & Type | Depth m. | |
|---|---|---|
| B | 0.60 - 1.10 | (II) |
| B | 0.60 - 1.10 | (II) |

| No. | Depth m. | STRATA DESCRIPTION | Cv/Cp kN/m² |
|---|---|---|---|
| I | 0.00–0.60 | MADE GROUND: Grey shale and coal fragments with occasional brick and clinker. | |
| II | 0.60–1.10 | Firm grey and orange silty sandy CLAY, with occasional fine gravel. | |
| III | 1.10 1.80 | Dark grey completely weathered MUDSTONE, recovered as clay with very occasional very weak mudstone lithorelicts. | |
| IV | 1.80–2.00 | Highly weathered grey and orange laminated MUDSTONE, very weak. Generally recovered as angular gravel size fragments in clay matrix. | |
| | | Note: Ground level taken at a point 0.40m below adjacent rail. | |
| | | Trial Pit complete at 2.00m depth. | |

NOTES Cv/Cp Approximate value of undrained shear strength from hand vane/penetrometer
Groundwater: Dry
Pumping: None
Supports/Stability: None/Stable

SN81SW 39

# Norwest Holst Soil Engineering Ltd.

8405 1046

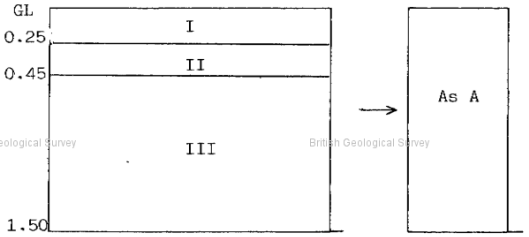
Trial Pit No. **3**

## TRIAL PIT LOG

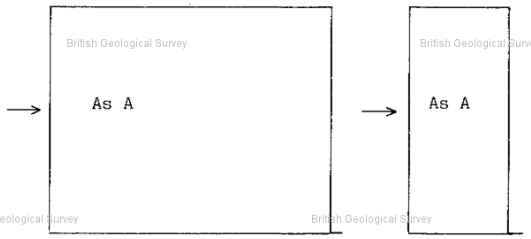
Contract No. F9074
Location Nant Helen O.C.C.S
Client British Coal
Excavation Plant 180° excavator
Dimensions (l x b x h) 1.50 x 1.00 x 1.50m

Chainage .....
Ground Level ..... m.A.O.D.
Date 4/2/91

ELEVATIONS:—

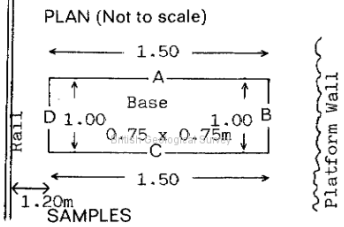



SIDE A SIDE B




SIDE C SIDE D

PLAN (Not to scale)




SAMPLES

| No. & Type | Depth m. |
|---|---|
| | None |
| | Taken |

| No. | Depth m. | STRATA DESCRIPTION | Cv/Cp kN/m² |
|---|---|---|---|
| I | 0.00–0.25 | MADE GROUND: Grey shale fragments with occasional gravel. | |
| II | 0.25–0.45 | Stiff orange and grey silty sandy CLAY with occasional fine sandstone gravel and occasional boulder. | |
| III | 0.45–1.50 | Grey and orange highly weathered laminated MUDSTONE, very weak. Recovered as gravel size fragments. | |
| | | Trial Pit complete at 1.50m depth | |
| | | Note: Ground level taken at a point 0.40m below adjacent rail. | |

NOTES Cv/Cp Approximate value of undrained shear strength from hand vane/penetrometer
Groundwater: Dry
Pumping: None
Supports/Stability: None/Stable

# Appendix E

Groundsure EnviroInsight and GeoInsight Reports

Ove Arup & Partners International Ltd

4 OVE ARUP & PARTNERS, PIERHEAD STREET, CARDIFF, CF10 4QP

| | |
|---|---|
| Groundsure Reference: | GS-6396069 |
| Your Reference: | GCORE |
| Report Date | 14 Oct 2019 |
| Report Delivery Method: | Email - pdf |

## Enviro Insight

Address: 282917.86237392283, 211100.677756288,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

# Enviro Insight

| | |
|---|---|
| **Address:** | **282917.86237392283, 211100.677756288,** |
| **Date:** | **14 Oct 2019** |
| **Reference:** | **GS-6396069** |
| **Client:** | **Ove Arup & Partners International Ltd** |

NW N NE

W E

SW S SE



| | |
|---|---|
| Aerial Photograph Capture date: | 26-May-2017 |
| Grid Reference: | 283073,211130 |
| Site Size: | 483.2560ha |

Report Reference: GS-6396069
Client Reference: GCORE

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# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Historical Industrial Sites | On-site | 0-50 | 51-250 | 251-500 |
|---|---|---|---|---|
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping | 912 | 160 | 372 | 394 |
| 1.2 Additional Information – Historical Tank Database | 20 | 1 | 1 | 12 |
| 1.3 Additional Information – Historical Energy Features Database | 2 | 4 | 0 | 0 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 0 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 0 | 0 | 0 | 0 |
| 1.6 Historical military sites | 0 | 0 | 0 | 0 |
| 1.7 Potentially Infilled Land | 848 | 169 | 378 | 357 |

| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 0 | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 0 | 0 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 1 | 0 | 0 | 1 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 3 | 0 | 1 | 0 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 21 | 1 | 16 | 12 |
| 2.1.9 Records of Water Industry Referrals | 0 | 0 | 0 | 0 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 0 | 0 | 0 | 0 |
| 2.2 Records of COMAH and NIHHS sites | 0 | 0 | 0 | 0 |
| 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents | | | | |
| 2.3.1 National Incidents Recording System, List 2 | 2 | 2 | 4 | 0 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 1 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

| Section 3: Landfill and Other Waste Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|---|---|---|---|---|---|---|
| 3.1 Landfill Sites | | | | | | |
| 3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites | 0 | 0 | 0 | 1 | 1 | 2 |
| 3.1.3 BGS/DoE Landfill Site Survey | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records | 2 | 0 | 0 | 7 | 2 | 5 |
| 3.2 Landfill and Other Waste Sites Findings | | | | | | |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 1 | 0 | Not searched | Not searched |
| 3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites | 0 | 0 | 0 | 0 | 0 | 7 |

| Section 4: Current Land Use | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 4.1 Current Industrial Sites Data | 26 | 8 | 9 | Not searched |
| 4.2 Records of Petrol and Fuel Sites | 0 | 0 | 0 | 0 |
| 4.3 National Grid Underground Electricity Cables | 0 | 0 | 0 | 0 |
| 4.4 National Grid Gas Transmission Pipelines | 0 | 0 | 0 | 0 |

| Section 5: Geology | |
|---|---|
| 5.1 Records of Artificial Ground and Made Ground present beneath the study site | Identified |
| 5.2 Records of Superficial Ground and Drift Geology present beneath the study site | Identified |
| 5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section. | |

| Section 6: Hydrogeology and Hydrology | 0-500m |
|---|---|
| 6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site | Identified |
| 6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site | Identified |

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 6.3 Groundwater Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 2 | 0 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 8 | 8 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 1 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 2 | 1 | 1 | 1 | Not searched | Not searched |

## Section 6: Hydrogeology and Hydrology

| | 0-500m | | | | | |
|---|---|---|---|---|---|---|
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
| 6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site | Yes | No | No | No | Yes | No |
| 6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site | 358 | 40 | 238 | 288 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | Yes | Yes | Yes | Not searched | Not searched | Not searched |

## Section 7: Flooding

| | |
|---|---|
| 7.1 Enviroment Agency Zone 2 floodplains within 250m of the study site | Identified |
| 7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site | Identified |
| 7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site | High |
| 7.4 Flood Defences within 250m of the study site | None identified |
| 7.5 Areas benefiting from Flood Defences within 250m of the study site | None identified |
| 7.6 Areas used for Flood Storage within 250m of the study site | None identified |
| 7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site | Potential at Surface |
| 7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas | High |

## Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 1 | 1 | 0 | 1 | 3 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 7 | 0 | 5 | 16 | 39 | 103 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |

## Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.11 Records of National Parks | 0 | 0 | 1 | 0 | 0 | 3 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.14 Records of Green Belt land | 0 | 0 | 0 | 0 | 0 | 0 |

## Section 9: Natural Hazards

| | |
|---|---|
| 9.1 Maximum risk of natural ground subsidence | High |
| 9.1.1 Maximum Shrink-Swell hazard rating identified on the study site | Very Low |
| 9.1.2 Maximum Landslides hazard rating identified on the study site | Moderate |
| 9.1.3 Maximum Soluble Rocks hazard rating identified on the study site | Negligible |
| 9.1.4 Maximum Compressible Ground hazard rating identified on the study site | High |
| 9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site | Very Low |
| 9.1.6 Maximum Running Sand hazard rating identified on the study site | Low |
| 9.2 Radon | |
| 9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? | The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level. |
| 9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? | No radon protective measures are necessary. |

## Section 10: Mining

| | |
|---|---|
| 10.1 Coal mining areas within 75m of the study site | Identified |
| 10.2 Non-Coal Mining areas within 50m of the study site boundary | Identified |
| 10.3 Brine affected areas within 75m of the study site | None identified |

# Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

### 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

### 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

### 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

### 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

### 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

### 6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

### 7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

### 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

### 9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

### 10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

### 11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

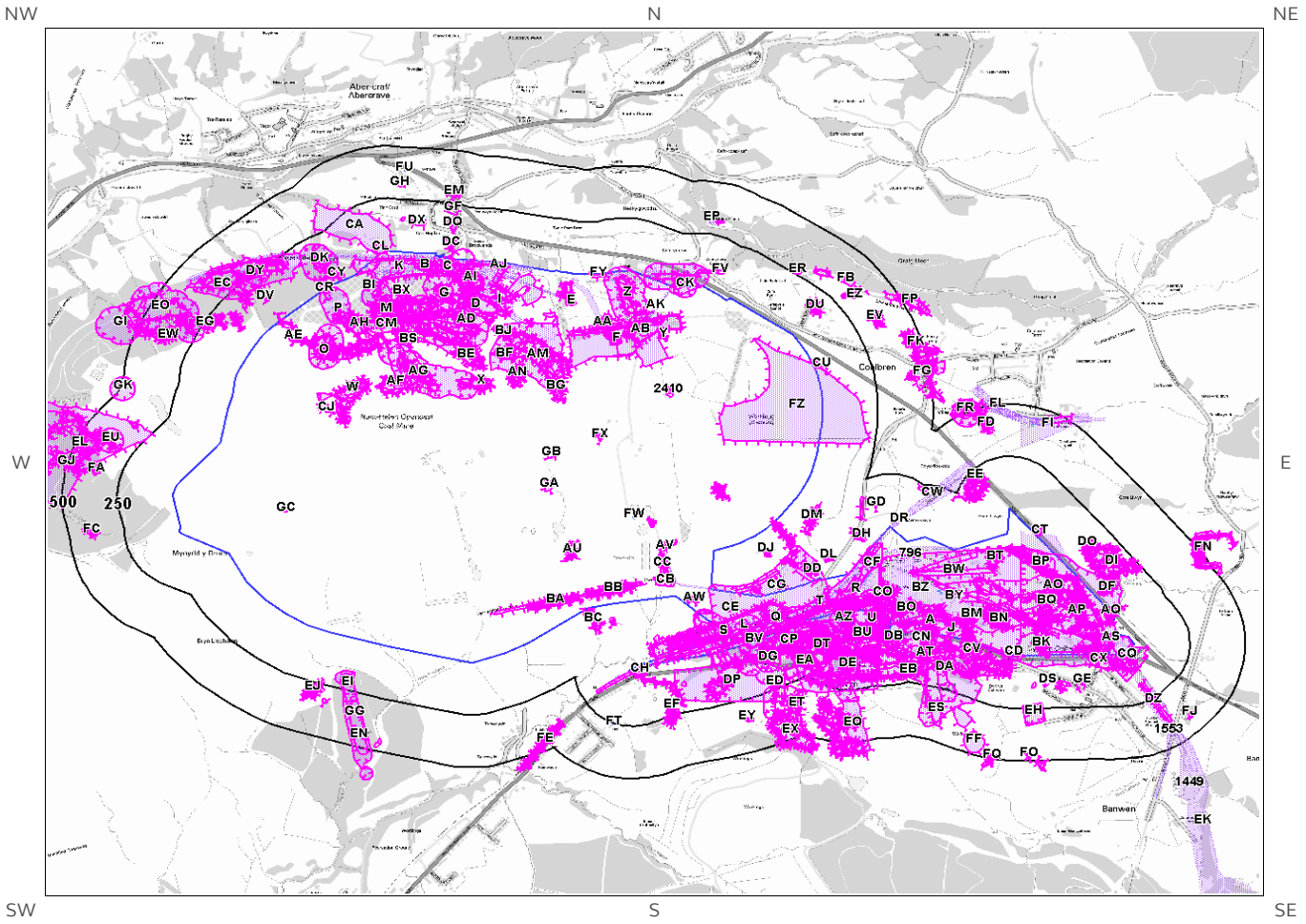
### Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

# 1. Historical Land Use




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Site Outline

250
500
Search Buffers (m)

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Historical military sites

Tanks

Garages

# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 1838

| ID | Distance [m] | Direction | Use | Date |
|---|---|---|---|---|
| 1AR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2AS | 0 | On Site | Old Coal Level | 1921 |
| 3AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 4J | 0 | On Site | Unspecified Heap | 1921 |
| 5BO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 6AI | 0 | On Site | Coal Drift | 1877 |
| 7A | 0 | On Site | Unspecified Ground Workings | 1921 |
| 8A | 0 | On Site | Cuttings | 1921 |
| 9BM | 0 | On Site | Unspecified Pit | 1921 |
| 10BR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 11AO | 0 | On Site | Unspecified Pit | 1921 |
| 12AP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 13AT | 0 | On Site | Unspecified Ground Workings | 1921 |
| 14P | 0 | On Site | Unspecified Ground Workings | 1921 |
| 15M | 0 | On Site | Unspecified Pit | 1948 |
| 16C | 0 | On Site | Sewage and Water Purification Works | 1921 |
| 17B | 0 | On Site | Unspecified Heap | 1921 |
| 18B | 0 | On Site | Railway Station | 1921 |
| 19C | 0 | On Site | Unspecified Drift | 1921 |
| 20D | 0 | On Site | Unspecified Old Level | 1921 |
| 21D | 0 | On Site | Unspecified Drift | 1921 |
| 22I | 0 | On Site | Refuse Heap | 1921 |
| 23D | 0 | On Site | Unspecified Heap | 1921 |
| 24H | 0 | On Site | Unspecified Ground Workings | 1921 |
| 25AJ | 0 | On Site | Engine House | 1921 |
| 26E | 0 | On Site | Unspecified Drift | 1921 |
| 27E | 0 | On Site | Refuse Heap | 1921 |
| 28F | 0 | On Site | Old Coal Levels | 1921 |

| | | | | |
|---|---|---|---|---|
| 29F | 0 | On Site | Old Coal Levels | 1921 |
| 30F | 0 | On Site | Unspecified Heap | 1921 |
| 31F | 0 | On Site | Unspecified Ground Workings | 1921 |
| 32AK | 0 | On Site | Tramway Sidings | 1921 |
| 33Z | 0 | On Site | Unspecified Ground Workings | 1921 |
| 34AA | 0 | On Site | Unspecified Ground Workings | 1921 |
| 35Y | 0 | On Site | Coal Trial Shaft | 1921 |
| 36AB | 0 | On Site | Colliery | 1921 |
| 37K | 0 | On Site | Colliery | 1921 |
| 38G | 0 | On Site | Unspecified Old Levels | 1921 |
| 39G | 0 | On Site | Unspecified Ground Workings | 1921 |
| 40D | 0 | On Site | Unspecified Ground Workings | 1921 |
| 41H | 0 | On Site | Refuse Heap | 1921 |
| 42G | 0 | On Site | Unspecified Ground Workings | 1921 |
| 43G | 0 | On Site | Unspecified Old Levels | 1921 |
| 44I | 0 | On Site | Colliery | 1921 |
| 45CK | 0 | On Site | Unspecified Drift | 1948 |
| 46L | 0 | On Site | Unspecified Disused Mine | 1965 |
| 47R | 0 | On Site | Railway Sidings | 1921 |
| 48U | 0 | On Site | Unspecified Ground Workings | 1921 |
| 49J | 0 | On Site | Unspecified Ground Workings | 1921 |
| 50K | 0 | On Site | Engine House | 1921 |
| 51AZ | 0 | On Site | Unspecified Drift | 1948 |
| 52L | 0 | On Site | Unspecified Disused Mine | 1987 |
| 53H | 0 | On Site | Tramway Sidings | 1921 |
| 54C | 0 | On Site | Unspecified Heap | 1921 |
| 55K | 0 | On Site | Railway Sidings | 1921 |
| 56M | 0 | On Site | Unspecified Old Level | 1921 |
| 57M | 0 | On Site | Unspecified Ground Workings | 1921 |
| 58M | 0 | On Site | Unspecified Ground Workings | 1921 |
| 59N | 0 | On Site | Unspecified Ground Workings | 1921 |
| 60AD | 0 | On Site | Unspecified Heaps | 1921 |
| 61N | 0 | On Site | Unspecified Ground Workings | 1921 |
| 62AM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 63AN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 64X | 0 | On Site | Unspecified Ground Workings | 1921 |

| | | | | |
|---|---|---|---|---|
| 65O | 0 | On Site | Old Coal Levels | 1921 |
| 66O | 0 | On Site | Old Coal Levels | 1921 |
| 67P | 0 | On Site | Unspecified Ground Workings | 1921 |
| 68AL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 69AE | 0 | On Site | Unspecified Heap | 1921 |
| 70W | 0 | On Site | Unspecified Heap | 1921 |
| 71AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 72AG | 0 | On Site | Unspecified Ground Workings | 1921 |
| 73AC | 0 | On Site | Unspecified Ground Workings | 1921 |
| 74N | 0 | On Site | Unspecified Pit | 1921 |
| 75BE | 0 | On Site | Unspecified Pit | 1921 |
| 76M | 0 | On Site | Unspecified Heap | 1921 |
| 77F | 0 | On Site | Unspecified Heap | 1921 |
| 78B | 0 | On Site | Railway Sidings | 1921 |
| 79AV | 0 | On Site | Old Coal Level | 1921 |
| 80BA | 0 | On Site | Cuttings | 1921 |
| 81BB | 0 | On Site | Cuttings | 1921 |
| 82Q | 0 | On Site | Trial Slant | 1921 |
| 83Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 84Q | 0 | On Site | Railway Sidings | 1921 |
| 85Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 86Q | 0 | On Site | Unspecified Heap | 1921 |
| 87L | 0 | On Site | Engine House | 1921 |
| 88AW | 0 | On Site | Unspecified Heap | 1921 |
| 89S | 0 | On Site | Railway Sidings | 1921 |
| 90L | 0 | On Site | Railway Sidings | 1921 |
| 91R | 0 | On Site | Railway Sidings | 1921 |
| 92S | 0 | On Site | Railway Sidings | 1921 |
| 93V | 0 | On Site | Railway Sidings | 1921 |
| 94T | 0 | On Site | Railway Sidings | 1921 |
| 95T | 0 | On Site | Unspecified Tank | 1921 |
| 96T | 0 | On Site | Railway Station | 1921 |
| 97AY | 0 | On Site | Refuse Heap | 1921 |
| 98S | 0 | On Site | Colliery | 1921 |
| 99R | 0 | On Site | Railway Building | 1921 |
| 100AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 101AU | 0 | On Site | Refuse Heaps | 1921 |
| 102U | 0 | On Site | Unspecified Ground Workings | 1921 |
| 103R | 0 | On Site | Unspecified Ground Workings | 1921 |
| 104V | 0 | On Site | Colliery | 1921 |

| | | | | |
|---|---|---|---|---|
| 105E | 0 | On Site | Unspecified Drift | 1914 |
| 106AH | 0 | On Site | Unspecified Ground Workings | 1914 |
| 107M | 0 | On Site | Unspecified Ground Workings | 1914 |
| 108W | 0 | On Site | Unspecified Heap | 1914 |
| 109X | 0 | On Site | Unspecified Ground Workings | 1914 |
| 110Y | 0 | On Site | Trial Shaft | 1914 |
| 111Z | 0 | On Site | Unspecified Ground Workings | 1914 |
| 112AA | 0 | On Site | Unspecified Ground Workings | 1914 |
| 113AB | 0 | On Site | Unspecified Heap | 1914 |
| 114AC | 0 | On Site | Unspecified Ground Workings | 1914 |
| 115D | 0 | On Site | Unspecified Heap | 1914 |
| 116AD | 0 | On Site | Unspecified Ground Workings | 1914 |
| 117AC | 0 | On Site | Unspecified Pit | 1914 |
| 118AD | 0 | On Site | Unspecified Heap | 1914 |
| 119N | 0 | On Site | Unspecified Ground Workings | 1914 |
| 120AE | 0 | On Site | Unspecified Heap | 1914 |
| 121AF | 0 | On Site | Unspecified Ground Workings | 1914 |
| 122AG | 0 | On Site | Unspecified Ground Workings | 1914 |
| 123AH | 0 | On Site | Unspecified Ground Workings | 1914 |
| 124P | 0 | On Site | Unspecified Ground Workings | 1914 |
| 125K | 0 | On Site | Engine House | 1914 |
| 126H | 0 | On Site | Colliery | 1914 |
| 127B | 0 | On Site | Sewage and Water Purification Works | 1914 |
| 128AI | 0 | On Site | Unspecified Heap | 1914 |
| 129B | 0 | On Site | Unspecified Heap | 1914 |
| 130H | 0 | On Site | Unspecified Drift | 1914 |
| 131C | 0 | On Site | Unspecified Drift | 1914 |
| 132AI | 0 | On Site | Unspecified Ground Workings | 1914 |
| 133G | 0 | On Site | Unspecified Old Level | 1914 |
| 134G | 0 | On Site | Unspecified Old Level | 1914 |
| 135G | 0 | On Site | Unspecified Old Level | 1914 |
| 136B | 0 | On Site | Railway Sidings | 1914 |
| 137B | 0 | On Site | Railway Sidings | 1914 |
| 138K | 0 | On Site | Colliery | 1914 |
| 139AJ | 0 | On Site | Engine House | 1914 |
| 140B | 0 | On Site | Railway Station | 1914 |
| 141H | 0 | On Site | Tramway Sidings | 1914 |

| | | | | |
|---|---|---|---|---|
| 142AK | 0 | On Site | Tramway Sidings | 1914 |
| 143AB | 0 | On Site | Colliery | 1914 |
| 144O | 0 | On Site | Old Coal Levels | 1914 |
| 145AL | 0 | On Site | Unspecified Ground Workings | 1914 |
| 146D | 0 | On Site | Unspecified Ground Workings | 1914 |
| 147AD | 0 | On Site | Unspecified Old Level | 1914 |
| 148AM | 0 | On Site | Unspecified Ground Workings | 1914 |
| 149AN | 0 | On Site | Unspecified Ground Workings | 1914 |
| 150F | 0 | On Site | Old Coal Levels | 1914 |
| 151F | 0 | On Site | Old Coal Levels | 1914 |
| 152AB | 0 | On Site | Old Coal Levels | 1914 |
| 153G | 0 | On Site | Unspecified Heaps | 1914 |
| 154M | 0 | On Site | Unspecified Ground Workings | 1914 |
| 155M | 0 | On Site | Unspecified Old Level | 1914 |
| 156BN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 157J | 0 | On Site | Unspecified Pit | 1921 |
| 158AO | 0 | On Site | Old Coal Level | 1921 |
| 159BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 160AO | 0 | On Site | Unspecified Pit | 1921 |
| 161AP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 162BT | 0 | On Site | Unspecified Heap | 1921 |
| 163AO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 164AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 165BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 166AR | 0 | On Site | Old Coal Level | 1921 |
| 167AS | 0 | On Site | Old Coal Pit | 1921 |
| 168AR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 169AO | 0 | On Site | Cuttings | 1921 |
| 170AT | 0 | On Site | Unspecified Ground Workings | 1921 |
| 171AU | 0 | On Site | Refuse Heap | 1914 |
| 172AV | 0 | On Site | Old Level (Coal) | 1914 |
| 173AV | 0 | On Site | Unspecified Ground Workings and Heap | 1914 |
| 174AW | 0 | On Site | Unspecified Heap | 1914 |
| 175Q | 0 | On Site | Unspecified Old Shaft | 1914 |
| 176Q | 0 | On Site | Trial Slant | 1914 |
| 177S | 0 | On Site | Engine House | 1914 |
| 178Q | 0 | On Site | Unspecified Old Shaft | 1914 |

| | | | | |
|---|---|---|---|---|
| 179T | 0 | On Site | Unspecified Tank | 1914 |
| 180BC | 0 | On Site | Unspecified Ground Workings | 1914 |
| 181AX | 0 | On Site | Unspecified Ground Workings | 1914 |
| 182BD | 0 | On Site | Unspecified Ground Workings | 1914 |
| 183T | 0 | On Site | Railway Station | 1914 |
| 184T | 0 | On Site | Railway Sidings | 1914 |
| 185AY | 0 | On Site | Refuse Heap | 1914 |
| 186L | 0 | On Site | Refuse Heap | 1914 |
| 187U | 0 | On Site | Unspecified Ground Workings | 1914 |
| 188R | 0 | On Site | Unspecified Ground Workings | 1914 |
| 189AZ | 0 | On Site | Colliery | 1914 |
| 190L | 0 | On Site | Colliery | 1914 |
| 191BA | 0 | On Site | Cuttings | 1914 |
| 192BB | 0 | On Site | Cuttings | 1914 |
| 193AU | 0 | On Site | Refuse Heap | 1914 |
| 194AV | 0 | On Site | Old Level (Coal) | 1914 |
| 195AV | 0 | On Site | Unspecified Ground Workings and Heap | 1914 |
| 196AW | 0 | On Site | Unspecified Heap | 1914 |
| 197Q | 0 | On Site | Unspecified Old Shaft | 1914 |
| 198Q | 0 | On Site | Trial Slant | 1914 |
| 199S | 0 | On Site | Engine House | 1914 |
| 200Q | 0 | On Site | Unspecified Old Shaft | 1914 |
| 201T | 0 | On Site | Unspecified Tank | 1914 |
| 202BC | 0 | On Site | Unspecified Ground Workings | 1914 |
| 203AX | 0 | On Site | Unspecified Ground Workings | 1914 |
| 204BD | 0 | On Site | Unspecified Ground Workings | 1914 |
| 205T | 0 | On Site | Railway Station | 1914 |
| 206T | 0 | On Site | Railway Sidings | 1914 |
| 207AY | 0 | On Site | Refuse Heap | 1914 |
| 208L | 0 | On Site | Refuse Heap | 1914 |
| 209U | 0 | On Site | Unspecified Ground Workings | 1914 |
| 210R | 0 | On Site | Unspecified Ground Workings | 1914 |
| 211AZ | 0 | On Site | Colliery | 1914 |
| 212L | 0 | On Site | Colliery | 1914 |
| 213BA | 0 | On Site | Cuttings | 1914 |
| 214BB | 0 | On Site | Cuttings | 1914 |
| 215AC | 0 | On Site | Unspecified Ground Workings | 1948 |
| 216AF | 0 | On Site | Unspecified Ground | 1948 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 217BF | 0 | On Site | Unspecified Pit | 1948 |
| 218AM | 0 | On Site | Unspecified Ground Workings | 1948 |
| 219BG | 0 | On Site | Unspecified Pit | 1948 |
| 220F | 0 | On Site | Unspecified Pit | 1948 |
| 221BE | 0 | On Site | Unspecified Pit | 1948 |
| 222X | 0 | On Site | Unspecified Ground Workings | 1948 |
| 223W | 0 | On Site | Unspecified Ground Workings | 1948 |
| 224AF | 0 | On Site | Unspecified Ground Workings | 1948 |
| 225AN | 0 | On Site | Unspecified Ground Workings | 1948 |
| 226AN | 0 | On Site | Unspecified Pit | 1948 |
| 227AG | 0 | On Site | Unspecified Pit | 1948 |
| 228AH | 0 | On Site | Unspecified Pit | 1903 |
| 229AH | 0 | On Site | Unspecified Pit | 1903 |
| 230BH | 0 | On Site | Unspecified Ground Workings | 1903 |
| 231M | 0 | On Site | Unspecified Pit | 1903 |
| 232G | 0 | On Site | Unspecified Pit | 1903 |
| 233AC | 0 | On Site | Unspecified Ground Workings | 1903 |
| 234N | 0 | On Site | Unspecified Pit | 1903 |
| 235N | 0 | On Site | Unspecified Pit | 1903 |
| 236E | 0 | On Site | Unspecified Ground Workings | 1903 |
| 237AA | 0 | On Site | Unspecified Ground Workings | 1903 |
| 238AL | 0 | On Site | Unspecified Ground Workings | 1903 |
| 239BE | 0 | On Site | Unspecified Pit | 1903 |
| 240BS | 0 | On Site | Unspecified Ground Workings | 1903 |
| 241AG | 0 | On Site | Unspecified Pit | 1903 |
| 242X | 0 | On Site | Unspecified Pit | 1903 |
| 243D | 0 | On Site | Unspecified Ground Workings | 1948 |
| 244N | 0 | On Site | Unspecified Pit | 1948 |
| 245M | 0 | On Site | Unspecified Ground Workings | 1948 |
| 246M | 0 | On Site | Unspecified Ground Workings | 1948 |
| 247M | 0 | On Site | Unspecified Ground Workings | 1948 |
| 248AH | 0 | On Site | Unspecified Pit | 1948 |
| 249AH | 0 | On Site | Unspecified Pit | 1948 |
| 250AL | 0 | On Site | Unspecified Ground Workings | 1948 |

| | | | | |
|---|---|---|---|---|
| 251BF | 0 | On Site | Unspecified Pit | 1903 |
| 252AM | 0 | On Site | Unspecified Ground Workings | 1903 |
| 253BG | 0 | On Site | Unspecified Pit | 1903 |
| 254AN | 0 | On Site | Unspecified Ground Workings | 1903 |
| 255AN | 0 | On Site | Unspecified Pit | 1903 |
| 256X | 0 | On Site | Unspecified Ground Workings | 1903 |
| 257W | 0 | On Site | Unspecified Ground Workings | 1903 |
| 258AF | 0 | On Site | Unspecified Ground Workings | 1903 |
| 259BJ | 0 | On Site | Unspecified Ground Workings | 1903 |
| 260AG | 0 | On Site | Unspecified Ground Workings | 1903 |
| 261BH | 0 | On Site | Unspecified Ground Workings | 1877 |
| 262BI | 0 | On Site | Old Coal Level | 1877 |
| 263BI | 0 | On Site | Old Coal Level | 1877 |
| 264B | 0 | On Site | Unspecified Ground Workings | 1877 |
| 265M | 0 | On Site | Unspecified Pit | 1877 |
| 266D | 0 | On Site | Old Coal Level | 1877 |
| 267AL | 0 | On Site | Old Coal Level | 1877 |
| 268O | 0 | On Site | Old Coal Level | 1877 |
| 269AL | 0 | On Site | Unspecified Pit | 1877 |
| 270AL | 0 | On Site | Unspecified Pit | 1877 |
| 271AE | 0 | On Site | Unspecified Ground Workings | 1877 |
| 272W | 0 | On Site | Unspecified Ground Workings | 1877 |
| 273BJ | 0 | On Site | Unspecified Pit | 1877 |
| 274BP | 0 | On Site | Unspecified Ground Workings | 1948 |
| 275AO | 0 | On Site | Unspecified Ground Workings | 1948 |
| 276AP | 0 | On Site | Unspecified Pit | 1948 |
| 277BK | 0 | On Site | Unspecified Pit | 1948 |
| 278AR | 0 | On Site | Unspecified Pit | 1948 |
| 279BL | 0 | On Site | Unspecified Ground Workings | 1948 |
| 280BK | 0 | On Site | Unspecified Ground Workings | 1948 |
| 281AP | 0 | On Site | Unspecified Ground Workings | 1948 |
| 282AQ | 0 | On Site | Old Coal Level | 1948 |
| 283BQ | 0 | On Site | Unspecified Pit | 1948 |
| 284BM | 0 | On Site | Unspecified Ground Workings | 1948 |
| 285A | 0 | On Site | Unspecified Pit | 1948 |

| | | | | |
|---|---|---|---|---|
| 286A | 0 | On Site | Unspecified Ground Workings | 1948 |
| 287BN | 0 | On Site | Unspecified Pit | 1948 |
| 288AO | 0 | On Site | Unspecified Pit | 1903 |
| 289A | 0 | On Site | Unspecified Pit | 1903 |
| 290AO | 0 | On Site | Unspecified Pit | 1903 |
| 291BK | 0 | On Site | Unspecified Pit | 1903 |
| 292AO | 0 | On Site | Old Coal Level | 1903 |
| 293BO | 0 | On Site | Unspecified Ground Workings | 1903 |
| 294A | 0 | On Site | Unspecified Ground Workings | 1903 |
| 295AR | 0 | On Site | Old Coal Level | 1903 |
| 296AO | 0 | On Site | Unspecified Pit | 1903 |
| 297BP | 0 | On Site | Unspecified Pit | 1903 |
| 298BL | 0 | On Site | Unspecified Ground Workings | 1877 |
| 299BQ | 0 | On Site | Unspecified Ground Workings | 1877 |
| 300BL | 0 | On Site | Unspecified Ground Workings | 1877 |
| 301BK | 0 | On Site | Unspecified Ground Workings | 1877 |
| 302AO | 0 | On Site | Unspecified Pit | 1877 |
| 303AO | 0 | On Site | Unspecified Ground Workings | 1877 |
| 304BM | 0 | On Site | Unspecified Ground Workings | 1877 |
| 305BM | 0 | On Site | Unspecified Pit | 1877 |
| 306A | 0 | On Site | Unspecified Ground Workings | 1877 |
| 307AT | 0 | On Site | Unspecified Ground Workings | 1877 |
| 308BO | 0 | On Site | Unspecified Ground Workings | 1877 |
| 309AZ | 0 | On Site | Unspecified Ground Workings | 1876 |
| 310BP | 0 | On Site | Unspecified Ground Workings | 1877 |
| 311AV | 0 | On Site | Old Coal Level | 1901 |
| 312R | 0 | On Site | Unspecified Ground Workings | 1901 |
| 313AZ | 0 | On Site | Unspecified Ground Workings | 1901 |
| 314Q | 0 | On Site | Unspecified Ground Workings | 1901 |
| 315BU | 0 | On Site | Unspecified Ground Workings | 1901 |
| 316AO | 0 | On Site | Old Coal Level | 1900 |
| 317BR | 0 | On Site | Unspecified Ground Workings | 1900 |
| 318AR | 0 | On Site | Old Coal Level | 1900 |

| | | | | |
|---|---|---|---|---|
| 319BP | 0 | On Site | Unspecified Ground Workings | 1900 |
| 320BK | 0 | On Site | Unspecified Pit | 1900 |
| 321BO | 0 | On Site | Unspecified Ground Workings | 1900 |
| 322AO | 0 | On Site | Unspecified Pit | 1877 |
| 323BM | 0 | On Site | Unspecified Pit | 1900 |
| 324BL | 0 | On Site | Unspecified Ground Workings | 1900 |
| 325AR | 0 | On Site | Unspecified Pit | 1877 |
| 326AR | 0 | On Site | Unspecified Pit | 1877 |
| 327BK | 0 | On Site | Unspecified Pit | 1877 |
| 328P | 0 | On Site | Unspecified Heap | 1948 |
| 329P | 0 | On Site | Unspecified Heap | 1948 |
| 330BI | 0 | On Site | Unspecified Old Level | 1948 |
| 331AI | 0 | On Site | Unspecified Heap | 1948 |
| 332AD | 0 | On Site | Unspecified Old Level | 1948 |
| 333N | 0 | On Site | Unspecified Heap | 1948 |
| 334AD | 0 | On Site | Unspecified Heap | 1948 |
| 335AD | 0 | On Site | Unspecified Heap | 1948 |
| 336Y | 0 | On Site | Coal Shaft | 1948 |
| 337AK | 0 | On Site | Unspecified Heap | 1948 |
| 338F | 0 | On Site | Old Coal Levels | 1948 |
| 339AA | 0 | On Site | Unspecified Heaps | 1948 |
| 340AC | 0 | On Site | Unspecified Heap | 1948 |
| 341BS | 0 | On Site | Unspecified Heap | 1948 |
| 342BS | 0 | On Site | Unspecified Heap | 1948 |
| 343AM | 0 | On Site | Unspecified Heap | 1948 |
| 344AM | 0 | On Site | Unspecified Heaps | 1948 |
| 345BJ | 0 | On Site | Unspecified Heaps | 1948 |
| 346F | 0 | On Site | Unspecified Heap | 1948 |
| 347F | 0 | On Site | Refuse Heap | 1948 |
| 348F | 0 | On Site | Unspecified Heap | 1948 |
| 349AB | 0 | On Site | Colliery | 1948 |
| 350G | 0 | On Site | Unspecified Old Levels | 1948 |
| 351K | 0 | On Site | Colliery | 1948 |
| 352BE | 0 | On Site | Unspecified Heap | 1948 |
| 353H | 0 | On Site | Colliery | 1948 |
| 354AN | 0 | On Site | Unspecified Heap | 1948 |
| 355CI | 0 | On Site | Refuse Heap | 1948 |
| 356E | 0 | On Site | Refuse Heap | 1948 |
| 357AE | 0 | On Site | Unspecified Heap | 1948 |
| 358AE | 0 | On Site | Unspecified Heap | 1948 |
| 359AR | 0 | On Site | Old Coal Pit | 1903 |
| 360BL | 0 | On Site | Unspecified Ground Workings | 1903 |
| 361BN | 0 | On Site | Unspecified Ground | 1903 |

| | | | Workings | |
|---|---|---|---|---|
| 362Q | 0 | On Site | Old Coal Pit | 1901 |
| 363N | 0 | On Site | Unspecified Heap | 1948 |
| 364D | 0 | On Site | Unspecified Heap | 1948 |
| 365AD | 0 | On Site | Unspecified Heap | 1948 |
| 366AH | 0 | On Site | Unspecified Heap | 1903 |
| 367P | 0 | On Site | Unspecified Heap | 1903 |
| 368M | 0 | On Site | Unspecified Heap | 1903 |
| 369M | 0 | On Site | Unspecified Heap | 1903 |
| 370M | 0 | On Site | Unspecified Heaps | 1903 |
| 371N | 0 | On Site | Unspecified Heap | 1903 |
| 372M | 0 | On Site | Unspecified Heap | 1903 |
| 373BX | 0 | On Site | Unspecified Heap | 1903 |
| 374N | 0 | On Site | Unspecified Heaps | 1903 |
| 375N | 0 | On Site | Unspecified Heap | 1903 |
| 376D | 0 | On Site | Unspecified Old Levels | 1903 |
| 377Z | 0 | On Site | Unspecified Heaps | 1903 |
| 378AL | 0 | On Site | Unspecified Old Levels | 1903 |
| 379AE | 0 | On Site | Unspecified Heap | 1903 |
| 380AC | 0 | On Site | Unspecified Heap | 1903 |
| 381BE | 0 | On Site | Unspecified Heap | 1903 |
| 382AN | 0 | On Site | Unspecified Heap | 1903 |
| 383AM | 0 | On Site | Unspecified Heap | 1903 |
| 384AM | 0 | On Site | Unspecified Heaps | 1903 |
| 385AA | 0 | On Site | Unspecified Heap | 1903 |
| 386AA | 0 | On Site | Unspecified Old Levels | 1903 |
| 387K | 0 | On Site | Colliery | 1903 |
| 388AI | 0 | On Site | Colliery | 1903 |
| 389D | 0 | On Site | Unspecified Old Levels | 1903 |
| 390BJ | 0 | On Site | Unspecified Heap | 1903 |
| 391AM | 0 | On Site | Unspecified Heaps | 1903 |
| 392AL | 0 | On Site | Unspecified Old Levels | 1903 |
| 393AL | 0 | On Site | Unspecified Heap | 1903 |
| 394AA | 0 | On Site | Unspecified Old Level | 1903 |
| 395BS | 0 | On Site | Unspecified Heap | 1903 |
| 396D | 0 | On Site | Unspecified Heap | 1903 |
| 397M | 0 | On Site | Unspecified Heaps | 1877 |
| 398M | 0 | On Site | Unspecified Heaps | 1877 |
| 399N | 0 | On Site | Unspecified Heaps | 1877 |
| 400M | 0 | On Site | Unspecified Heap | 1877 |
| 401D | 0 | On Site | Unspecified Heap | 1877 |
| 402AB | 0 | On Site | Unspecified Heap | 1877 |
| 403G | 0 | On Site | Coal Levels | 1877 |
| 404G | 0 | On Site | Coal Levels | 1877 |
| 405AI | 0 | On Site | Colliery | 1877 |
| 406AL | 0 | On Site | Unspecified Heap | 1877 |

| | | | | |
|---|---|---|---|---|
| 407BT | 0 | On Site | Unspecified Heap | 1948 |
| 408BM | 0 | On Site | Colliery | 1948 |
| 409BW | 0 | On Site | Refuse Heap | 1948 |
| 410BM | 0 | On Site | Refuse Heaps | 1948 |
| 411BR | 0 | On Site | Refuse Heap | 1948 |
| 412AP | 0 | On Site | Unspecified Heaps | 1948 |
| 413AP | 0 | On Site | Unspecified Heap | 1903 |
| 414BK | 0 | On Site | Unspecified Heap | 1903 |
| 415BT | 0 | On Site | Unspecified Heap | 1903 |
| 416AR | 0 | On Site | Unspecified Heap | 1903 |
| 417BT | 0 | On Site | Unspecified Heap | 1877 |
| 418BL | 0 | On Site | Unspecified Heap | 1877 |
| 419AP | 0 | On Site | Unspecified Heap | 1877 |
| 420AQ | 0 | On Site | Unspecified Heap | 1877 |
| 421AP | 0 | On Site | Unspecified Heap | 1877 |
| 422BV | 0 | On Site | Unspecified Heap | 1876 |
| 423BU | 0 | On Site | Colliery | 1901 |
| 424U | 0 | On Site | Unspecified Heap | 1901 |
| 425BT | 0 | On Site | Unspecified Heap | 1900 |
| 426BL | 0 | On Site | Unspecified Heap | 1900 |
| 427BK | 0 | On Site | Unspecified Heap | 1900 |
| 428BO | 0 | On Site | Brick Works | 1948 |
| 429B | 0 | On Site | Railway Station | 1948 |
| 430K | 0 | On Site | Engine House | 1948 |
| 431AJ | 0 | On Site | Engine House | 1948 |
| 432C | 0 | On Site | Purification Works | 1948 |
| 433B | 0 | On Site | Railway Sidings | 1948 |
| 434B | 0 | On Site | Railway Station | 1903 |
| 435C | 0 | On Site | Purification Works | 1903 |
| 436AJ | 0 | On Site | Engine House | 1903 |
| 437B | 0 | On Site | Railway Sidings | 1903 |
| 438AA | 0 | On Site | Tramway Sidings | 1903 |
| 439B | 0 | On Site | Railway Sidings | 1877 |
| 440BY | 0 | On Site | Railway Sidings | 1948 |
| 441AY | 0 | On Site | Lime Kiln | 1876 |
| 442BV | 0 | On Site | Railway Sidings | 1876 |
| 443T | 0 | On Site | Railway Station | 1901 |
| 444CF | 0 | On Site | Railway Sidings | 1901 |
| 445T | 0 | On Site | Railway Sidings | 1901 |
| 446AS | 0 | On Site | Refuse Heap | 1977 |
| 447BL | 0 | On Site | Railway Sidings | 1977 |
| 448AS | 0 | On Site | Unspecified Ground Workings | 1962 |
| 449AS | 0 | On Site | Unspecified Ground Workings | 1962 |
| 450BQ | 0 | On Site | Unspecified Ground Workings | 1962 |

| | | | | |
|---|---|---|---|---|
| 451P | 0 | On Site | Unspecified Heap | 1965 |
| 452E | 0 | On Site | Unspecified Disused Drift | 1965 |
| 453BW | 0 | On Site | Refuse Heap | 1965 |
| 454BM | 0 | On Site | Refuse Heap | 1965 |
| 455O | 0 | On Site | Unspecified Disused Levels | 1965 |
| 456BI | 0 | On Site | Unspecified Disused Level | 1965 |
| 457G | 0 | On Site | Unspecified Disused Levels | 1965 |
| 458G | 0 | On Site | Unspecified Disused Levels | 1965 |
| 459G | 0 | On Site | Unspecified Disused Levels | 1965 |
| 460G | 0 | On Site | Unspecified Disused Levels | 1965 |
| 461AG | 0 | On Site | Unspecified Heaps | 1965 |
| 462P | 0 | On Site | Unspecified Heap | 1965 |
| 463BS | 0 | On Site | Unspecified Heap | 1965 |
| 464BX | 0 | On Site | Unspecified Heap | 1965 |
| 465M | 0 | On Site | Unspecified Heap | 1965 |
| 466N | 0 | On Site | Unspecified Heaps | 1965 |
| 467BX | 0 | On Site | Unspecified Heaps | 1965 |
| 468BQ | 0 | On Site | Unspecified Pit | 1962 |
| 469BK | 0 | On Site | Unspecified Ground Workings | 1962 |
| 470BK | 0 | On Site | Unspecified Ground Workings | 1962 |
| 471AQ | 0 | On Site | Unspecified Ground Workings | 1962 |
| 472BQ | 0 | On Site | Railway Sidings | 1962 |
| 473BK | 0 | On Site | Unspecified Heap | 1962 |
| 474AQ | 0 | On Site | Unspecified Disused Level | 1962 |
| 475CA | 0 | On Site | Refuse Heap | 1965 |
| 476K | 0 | On Site | Refuse Heap | 1965 |
| 477BP | 0 | On Site | Refuse Heap | 1977 |
| 478BL | 0 | On Site | Refuse Heap | 1977 |
| 479F | 0 | On Site | Unspecified Disused Levels | 1965 |
| 480F | 0 | On Site | Unspecified Disused Levels | 1965 |
| 481D | 0 | On Site | Unspecified Heap | 1965 |
| 482AI | 0 | On Site | Unspecified Heap | 1965 |
| 483D | 0 | On Site | Unspecified Heaps | 1965 |
| 484D | 0 | On Site | Unspecified Heap | 1965 |
| 485AD | 0 | On Site | Unspecified Heaps | 1965 |
| 486AC | 0 | On Site | Unspecified Heap | 1965 |
| 487AN | 0 | On Site | Unspecified Heaps | 1965 |
| 488BF | 0 | On Site | Unspecified Heaps | 1965 |
| 489Z | 0 | On Site | Unspecified Heap | 1965 |

| | | | | |
|---|---|---|---|---|
| 490Z | 0 | On Site | Unspecified Heap | 1965 |
| 491AA | 0 | On Site | Unspecified Heaps | 1965 |
| 492AK | 0 | On Site | Unspecified Heap | 1965 |
| 493F | 0 | On Site | Unspecified Heap | 1965 |
| 494AF | 0 | On Site | Unspecified Heaps | 1965 |
| 495X | 0 | On Site | Unspecified Heap | 1965 |
| 496CB | 0 | On Site | Unspecified Disused Level | 1965 |
| 497Q | 0 | On Site | Unspecified Disused Level | 1965 |
| 498BV | 0 | On Site | Unspecified Disused Level | 1965 |
| 499AY | 0 | On Site | Unspecified Heaps | 1965 |
| 500AZ | 0 | On Site | Refuse Heap | 1965 |
| 501BO | 0 | On Site | Refuse Heap | 1965 |
| 502BY | 0 | On Site | Unspecified Heap | 1965 |
| 503M | 0 | On Site | Unspecified Heap | 1965 |
| 504K | 0 | On Site | Railway Station | 1965 |
| 505T | 0 | On Site | Railway Station | 1965 |
| 506BZ | 0 | On Site | Unspecified Works | 1965 |
| 507T | 0 | On Site | Railway Building | 1965 |
| 508R | 0 | On Site | Railway Building | 1965 |
| 509BZ | 0 | On Site | Railway Sidings | 1965 |
| 510BS | 0 | On Site | Unspecified Ground Workings | 1965 |
| 511AL | 0 | On Site | Unspecified Ground Workings | 1965 |
| 512AL | 0 | On Site | Unspecified Ground Workings | 1965 |
| 513AH | 0 | On Site | Unspecified Pit | 1965 |
| 514BS | 0 | On Site | Unspecified Ground Workings | 1965 |
| 515N | 0 | On Site | Unspecified Ground Workings | 1965 |
| 516M | 0 | On Site | Unspecified Pit | 1965 |
| 517M | 0 | On Site | Unspecified Pit | 1965 |
| 518N | 0 | On Site | Unspecified Ground Workings | 1965 |
| 519M | 0 | On Site | Unspecified Ground Workings | 1965 |
| 520N | 0 | On Site | Unspecified Ground Workings | 1965 |
| 521M | 0 | On Site | Unspecified Ground Workings | 1965 |
| 522I | 0 | On Site | Unspecified Ground Workings | 1965 |
| 523AD | 0 | On Site | Unspecified Pit | 1965 |
| 524BE | 0 | On Site | Unspecified Pit | 1965 |
| 525BE | 0 | On Site | Unspecified Ground Workings | 1965 |
| 526BE | 0 | On Site | Unspecified Ground Workings | 1965 |
| 527AM | 0 | On Site | Unspecified Ground | 1965 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 528BJ | 0 | On Site | Unspecified Ground Workings | 1965 |
| 529AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 530AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 531BG | 0 | On Site | Unspecified Ground Workings | 1965 |
| 532AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 533Z | 0 | On Site | Unspecified Pit | 1965 |
| 534AK | 0 | On Site | Unspecified Pit | 1965 |
| 535AK | 0 | On Site | Unspecified Pit | 1965 |
| 536AA | 0 | On Site | Unspecified Ground Workings | 1965 |
| 537W | 0 | On Site | Unspecified Ground Workings | 1965 |
| 538AG | 0 | On Site | Unspecified Ground Workings | 1965 |
| 539CC | 0 | On Site | Unspecified Ground Workings | 1965 |
| 540BN | 0 | On Site | Unspecified Ground Workings | 1965 |
| 541CD | 0 | On Site | Unspecified Ground Workings | 1965 |
| 542BM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 543AX | 0 | On Site | Unspecified Ground Workings | 1965 |
| 544B | 0 | On Site | Unspecified Mine | 1965 |
| 545AI | 0 | On Site | Railway Sidings | 1965 |
| 546AI | 0 | On Site | Railway Buildings | 1965 |
| 547AI | 0 | On Site | Railway Buildings | 1965 |
| 548AI | 0 | On Site | Railway Building | 1965 |
| 549AI | 0 | On Site | Railway Building | 1965 |
| 550AJ | 0 | On Site | Railway Buildings | 1965 |
| 551AI | 0 | On Site | Railway Building | 1965 |
| 552T | 0 | On Site | Railway Buildings | 1965 |
| 553AZ | 0 | On Site | Railway Buildings | 1965 |
| 554BU | 0 | On Site | Railway Buildings | 1965 |
| 555BO | 0 | On Site | Unspecified Works | 1965 |
| 556CA | 0 | On Site | Unspecified Disused Tip | 1987 |
| 557E | 0 | On Site | Unspecified Disused Drift | 1987 |
| 558AM | 0 | On Site | Refuse Heap | 1987 |
| 559AB | 0 | On Site | Unspecified Disused Drift | 1987 |
| 560F | 0 | On Site | Unspecified Disused Levels | 1987 |
| 561F | 0 | On Site | Unspecified Disused Levels | 1987 |
| 562FZ | 0 | On Site | Unspecified Disused | 1987 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 563Q | 0 | On Site | Unspecified Disused Level | 1987 |
| 564AY | 0 | On Site | Unspecified Heaps | 1987 |
| 565BR | 0 | On Site | Opencast Workings | 1987 |
| 566CB | 0 | On Site | Unspecified Disused Level | 1987 |
| 567L | 0 | On Site | Unspecified Disused Shaft | 1987 |
| 568CE | 0 | On Site | Unspecified Disused Level | 1987 |
| 569R | 0 | On Site | Railway Building | 1987 |
| 570R | 0 | On Site | Unspecified Tanks | 1987 |
| 571BZ | 0 | On Site | Mineral Railway Sidings | 1987 |
| 572Z | 0 | On Site | Unspecified Pit | 1987 |
| 573AA | 0 | On Site | Unspecified Ground Workings | 1987 |
| 574CC | 0 | On Site | Unspecified Ground Workings | 1987 |
| 575CD | 0 | On Site | Unspecified Ground Workings | 1987 |
| 576AZ | 0 | On Site | Refuse Heap | 1987 |
| 577BZ | 0 | On Site | Unspecified Works | 1987 |
| 578CO | 0 | On Site | Railway Buildings | 1987 |
| 579BN | 0 | On Site | Refuse Heap | 1987 |
| 580AT | 0 | On Site | Unspecified Ground Workings | 1876 |
| 581BT | 0 | On Site | Unspecified Heap | 1876 |
| 582AP | 0 | On Site | Unspecified Ground Workings | 1876 |
| 583AQ | 0 | On Site | Unspecified Ground Workings | 1876 |
| 584BR | 0 | On Site | Unspecified Ground Workings | 1876 |
| 585BN | 0 | On Site | Unspecified Ground Workings | 1876 |
| 586BO | 0 | On Site | Unspecified Tank | 1876 |
| 587T | 0 | On Site | Railway Sidings | 1948 |
| 588AZ | 0 | On Site | Railway Buildings | 1948 |
| 589CC | 0 | On Site | Unspecified Heap | 1948 |
| 590CC | 0 | On Site | Unspecified Heap | 1948 |
| 591CE | 0 | On Site | Unspecified Old Shaft | 1948 |
| 592AW | 0 | On Site | Unspecified Heap | 1948 |
| 593AZ | 0 | On Site | Colliery | 1948 |
| 594AY | 0 | On Site | Refuse Heap | 1948 |
| 595Q | 0 | On Site | Unspecified Heap | 1948 |
| 596Q | 0 | On Site | Unspecified Slant | 1948 |
| 597Q | 0 | On Site | Refuse Heap | 1948 |
| 598Q | 0 | On Site | Refuse Heap | 1948 |
| 599Q | 0 | On Site | Unspecified Old Shaft | 1948 |
| 600T | 0 | On Site | Railway Station | 1948 |
| 601T | 0 | On Site | Railway Buildings | 1948 |

| | | | | |
|---|---|---|---|---|
| 602T | 0 | On Site | Railway Building | 1948 |
| 603T | 0 | On Site | Railway Building | 1948 |
| 604AV | 0 | On Site | Old Coal Level | 1948 |
| 605CB | 0 | On Site | Unspecified Pit | 1948 |
| 606AZ | 0 | On Site | Unspecified Ground Workings | 1948 |
| 607BV | 0 | On Site | Unspecified Ground Workings | 1948 |
| 608BD | 0 | On Site | Unspecified Ground Workings | 1948 |
| 609AX | 0 | On Site | Unspecified Ground Workings | 1948 |
| 610Q | 0 | On Site | Unspecified Old Shaft | 1903 |
| 611T | 0 | On Site | Railway Sidings | 1903 |
| 612AV | 0 | On Site | Coal Level | 1903 |
| 613CG | 0 | On Site | Tramway Sidings | 1903 |
| 614AW | 0 | On Site | Tramway Sidings | 1903 |
| 615GA | 0 | On Site | Refuse Heap | 1903 |
| 616Q | 0 | On Site | Unspecified Old Shaft | 1903 |
| 617T | 0 | On Site | Railway Station | 1903 |
| 618S | 0 | On Site | Unspecified Heap | 1903 |
| 619U | 0 | On Site | Unspecified Heap | 1903 |
| 620AX | 0 | On Site | Unspecified Pit | 1903 |
| 621CH | 0 | On Site | Old Coal Level | 1903 |
| 622AU | 0 | On Site | Refuse Heap | 1903 |
| 623AZ | 0 | On Site | Smithy | 1877 |
| 624AY | 0 | On Site | Lime Kiln | 1877 |
| 625BV | 0 | On Site | Unspecified Heap | 1877 |
| 626Q | 0 | On Site | Unspecified Heap | 1877 |
| 627T | 0 | On Site | Railway Station | 1877 |
| 628T | 0 | On Site | Railway Sidings | 1877 |
| 629AX | 0 | On Site | Unspecified Heap | 1877 |
| 630AW | 0 | On Site | Unspecified Heap | 1877 |
| 631Q | 0 | On Site | Old Coal Pit | 1877 |
| 632AZ | 0 | On Site | Unspecified Ground Workings | 1877 |
| 633AV | 0 | On Site | Old Coal Level | 1877 |
| 634BD | 0 | On Site | Unspecified Ground Workings | 1877 |
| 635CS | 0 | On Site | Unspecified Ground Workings | 1877 |
| 636AX | 0 | On Site | Unspecified Pit | 1877 |
| 637AX | 0 | On Site | Unspecified Ground Workings | 1877 |
| 638CJ | 0 | On Site | Unspecified Pit | 1877 |
| 639AI | 0 | On Site | Unspecified Drift | 1948 |
| 640I | 0 | On Site | Unspecified Drift | 1903 |
| 641AI | 0 | On Site | Unspecified Drift | 1903 |

| | | | | |
|---|---|---|---|---|
| 642AH | 0 | On Site | Unspecified Old Quarry | 1877 |
| 643FY | 0 | On Site | Cuttings | 1877 |
| 644AL | 0 | On Site | Unspecified Old Quarry | 1877 |
| 645AF | 0 | On Site | Unspecified Old Quarry | 1877 |
| 646X | 0 | On Site | Unspecified Old Quarry | 1877 |
| 647AN | 0 | On Site | Unspecified Old Quarry | 1877 |
| 648AM | 0 | On Site | Unspecified Old Quarry | 1877 |
| 649CR | 0 | On Site | Cuttings | 1877 |
| 650D | 0 | On Site | Unspecified Drift | 1948 |
| 651E | 0 | On Site | Unspecified Drift | 1948 |
| 652Z | 0 | On Site | Unspecified Old Quarry | 1877 |
| 653AP | 0 | On Site | Unspecified Old Quarries | 1903 |
| 654AT | 0 | On Site | Unspecified Old Quarries | 1900 |
| 655BQ | 0 | On Site | Unspecified Old Quarries | 1900 |
| 656AZ | 0 | On Site | Cuttings | 1876 |
| 657BB | 0 | On Site | Cuttings | 1901 |
| 658BB | 0 | On Site | Cuttings | 1965 |
| 659BA | 0 | On Site | Cuttings | 1965 |
| 660BB | 0 | On Site | Cuttings | 1987 |
| 661BA | 0 | On Site | Cuttings | 1987 |
| 662BE | 0 | On Site | Unspecified Old Quarries | 1877 |
| 663BA | 0 | On Site | Cuttings | 1948 |
| 664BB | 0 | On Site | Cuttings | 1903 |
| 665BA | 0 | On Site | Cuttings | 1903 |
| 666GB | 0 | On Site | Unspecified Old Quarries | 1877 |
| 667GC | 0 | On Site | Unspecified Old Quarry | 1877 |
| 668CF | 0 | On Site | Cuttings | 1877 |
| 669CG | 0 | On Site | Cuttings | 1877 |
| 670CH | 0 | On Site | Cuttings | 1877 |
| 671AO | 0 | On Site | Unspecified Old Quarries | 1900 |
| 672AP | 0 | On Site | Unspecified Old Quarries | 1900 |
| 673K | 0 | On Site | Colliery | 1921 |
| 674K | 0 | On Site | Engine House | 1921 |
| 675B | 0 | On Site | Purification Works | 1921 |
| 676K | 0 | On Site | Unspecified Old Level | 1921 |
| 677AJ | 0 | On Site | Engine House | 1921 |
| 678D | 0 | On Site | Unspecified Old Level | 1921 |
| 679G | 0 | On Site | Unspecified Old Levels | 1921 |
| 680N | 0 | On Site | Unspecified Old Levels | 1921 |
| 681N | 0 | On Site | Unspecified Old Levels | 1921 |
| 682BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 683G | 0 | On Site | Unspecified Old Levels | 1921 |
| 684H | 0 | On Site | Colliery | 1921 |
| 685B | 0 | On Site | Railway Station | 1921 |
| 686B | 0 | On Site | Railway Building | 1921 |
| 687BH | 0 | On Site | Unspecified Ground | 1921 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 688CL | 0 | On Site | Unspecified Heap | 1921 |
| 689B | 0 | On Site | Unspecified Heap | 1921 |
| 690BA | 0 | On Site | Cuttings | 1901 |
| 691AI | 0 | On Site | Refuse Heap | 1921 |
| 692D | 0 | On Site | Unspecified Heap | 1921 |
| 693BJ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 694CI | 0 | On Site | Unspecified Heap | 1921 |
| 695I | 0 | On Site | Refuse Heap | 1921 |
| 696Y | 0 | On Site | Coal Trial Shaft | 1921 |
| 697F | 0 | On Site | Old Coal Levels | 1921 |
| 698F | 0 | On Site | Old Coal Levels | 1921 |
| 699F | 0 | On Site | Old Coal Levels | 1921 |
| 700F | 0 | On Site | Old Coal Levels | 1921 |
| 701AA | 0 | On Site | Old Coal Levels | 1921 |
| 702W | 0 | On Site | Unspecified Heap | 1921 |
| 703CJ | 0 | On Site | Unspecified Heap | 1921 |
| 704BH | 0 | On Site | Unspecified Pit | 1921 |
| 705AE | 0 | On Site | Old Coal Levels | 1921 |
| 706BS | 0 | On Site | Unspecified Ground Workings | 1921 |
| 707X | 0 | On Site | Unspecified Ground Workings | 1921 |
| 708AN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 709N | 0 | On Site | Unspecified Ground Workings | 1921 |
| 710AI | 0 | On Site | Unspecified Heap | 1921 |
| 711B | 0 | On Site | Railway Sidings | 1921 |
| 712E | 0 | On Site | Refuse Heap | 1921 |
| 713CK | 0 | On Site | Tramway Sidings | 1921 |
| 714Y | 0 | On Site | Colliery | 1921 |
| 715F | 0 | On Site | Refuse Heap | 1921 |
| 716Z | 0 | On Site | Unspecified Ground Workings | 1921 |
| 717O | 0 | On Site | Old Coal Levels | 1921 |
| 718AG | 0 | On Site | Unspecified Ground Workings | 1921 |
| 719AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 720BE | 0 | On Site | Unspecified Ground Workings | 1921 |
| 721AM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 722AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 723P | 0 | On Site | Unspecified Ground Workings | 1921 |
| 724BX | 0 | On Site | Unspecified Old Level | 1921 |

| | | | | |
|---|---|---|---|---|
| 725BB | 0 | On Site | Cuttings | 1948 |
| 726BA | 0 | On Site | Cuttings | 1877 |
| 727N | 0 | On Site | Unspecified Pit | 1921 |
| 728D | 0 | On Site | Unspecified Ground Workings | 1921 |
| 729G | 0 | On Site | Unspecified Heap | 1921 |
| 730AI | 0 | On Site | Unspecified Heap | 1921 |
| 731BX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 732CM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 733M | 0 | On Site | Unspecified Heap | 1921 |
| 734AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 735M | 0 | On Site | Unspecified Heaps | 1921 |
| 736AV | 0 | On Site | Old Coal Level | 1921 |
| 737CC | 0 | On Site | Unspecified Heap | 1921 |
| 738CB | 0 | On Site | Unspecified Pit | 1921 |
| 739AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 740T | 0 | On Site | Railway Station | 1921 |
| 741T | 0 | On Site | Unspecified Tank | 1921 |
| 742AW | 0 | On Site | Unspecified Heap | 1921 |
| 743Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 744Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 745S | 0 | On Site | Colliery | 1921 |
| 746AY | 0 | On Site | Refuse Heap | 1921 |
| 747V | 0 | On Site | Colliery | 1921 |
| 748R | 0 | On Site | Railway Building | 1921 |
| 749V | 0 | On Site | Railway Sidings | 1921 |
| 750BD | 0 | On Site | Unspecified Pits | 1921 |
| 751AV | 0 | On Site | Unspecified Heap | 1921 |
| 752AZ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 753Q | 0 | On Site | Unspecified Heap | 1921 |
| 754Q | 0 | On Site | Refuse Heap | 1921 |
| 755Q | 0 | On Site | Unspecified Slant | 1921 |
| 756BT | 0 | On Site | Unspecified Heaps | 1921 |
| 757AO | 0 | On Site | Old Coal Level | 1921 |
| 758AO | 0 | On Site | Unspecified Pit | 1921 |
| 759AO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 760AP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 761BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 762CN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 763BM | 0 | On Site | Unspecified Pit | 1921 |

| | | | | |
|---|---|---|---|---|
| 764BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 765BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 766AS | 0 | On Site | Old Coal Pit | 1921 |
| 767AS | 0 | On Site | Old Coal Level | 1921 |
| 768AS | 0 | On Site | Unspecified Ground Workings | 1921 |
| 769AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 770T | 0 | On Site | Railway Building | 1921 |
| 771BR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 772T | 0 | On Site | Railway Buildings | 1921 |
| 773S | 0 | On Site | Engine House | 1921 |
| 774K | 0 | On Site | Colliery | 1921 |
| 775BI | 0 | On Site | Unspecified Old Level | 1921 |
| 776D | 0 | On Site | Unspecified Old Level | 1921 |
| 777AI | 0 | On Site | Unspecified Drift | 1921 |
| 778D | 0 | On Site | Unspecified Drift | 1921 |
| 779G | 0 | On Site | Unspecified Old Levels | 1921 |
| 780N | 0 | On Site | Unspecified Old Levels | 1921 |
| 781G | 0 | On Site | Unspecified Old Levels | 1921 |
| 782BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 783G | 0 | On Site | Unspecified Old Levels | 1921 |
| 784AI | 0 | On Site | Colliery | 1921 |
| 785E | 0 | On Site | Unspecified Drift | 1921 |
| 786AI | 0 | On Site | Unspecified Drift | 1921 |
| 787BH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 788CL | 0 | On Site | Unspecified Heap | 1921 |
| 789B | 0 | On Site | Unspecified Heap | 1921 |
| 790M | 0 | On Site | Unspecified Heap | 1921 |
| 791CM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 792CM | 0 | On Site | Unspecified Heaps | 1921 |
| 793N | 0 | On Site | Unspecified Pit | 1921 |
| 794D | 0 | On Site | Unspecified Ground Workings | 1921 |
| 795CW | 0 | On Site | Railway Sidings | 1921 |
| 796 | 0 | On Site | Railway Sidings | 1921 |
| 797G | 0 | On Site | Unspecified Heap | 1921 |
| 798AI | 0 | On Site | Unspecified Heap | 1921 |
| 799H | 0 | On Site | Refuse Heap | 1921 |
| 800D | 0 | On Site | Unspecified Heap | 1921 |
| 801BJ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 802H | 0 | On Site | Unspecified Heap | 1921 |
| 803I | 0 | On Site | Refuse Heap | 1921 |

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|---|---|---|---|---|
| 804Y | 0 | On Site | Coal Trial Shaft | 1921 |
| 805F | 0 | On Site | Old Coal Levels | 1921 |
| 806F | 0 | On Site | Old Coal Levels | 1921 |
| 807F | 0 | On Site | Old Coal Levels | 1921 |
| 808F | 0 | On Site | Old Coal Levels | 1921 |
| 809AA | 0 | On Site | Old Coal Levels | 1921 |
| 810W | 0 | On Site | Unspecified Heap | 1921 |
| 811CJ | 0 | On Site | Unspecified Heap | 1921 |
| 812BH | 0 | On Site | Unspecified Pit | 1921 |
| 813AE | 0 | On Site | Old Coal Levels | 1921 |
| 814BS | 0 | On Site | Unspecified Ground Workings | 1921 |
| 815X | 0 | On Site | Unspecified Ground Workings | 1921 |
| 816AN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 817M | 0 | On Site | Unspecified Ground Workings | 1921 |
| 818CM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 819N | 0 | On Site | Unspecified Ground Workings | 1921 |
| 820AI | 0 | On Site | Unspecified Heap | 1921 |
| 821E | 0 | On Site | Refuse Heap | 1921 |
| 822Y | 0 | On Site | Colliery | 1921 |
| 823F | 0 | On Site | Refuse Heap | 1921 |
| 824Z | 0 | On Site | Unspecified Ground Workings | 1921 |
| 825AL | 0 | On Site | Old Coal Levels | 1921 |
| 826AG | 0 | On Site | Unspecified Ground Workings | 1921 |
| 827AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 828BE | 0 | On Site | Unspecified Ground Workings | 1921 |
| 829AM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 830AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 831AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 832BI | 0 | On Site | Unspecified Old Level | 1921 |
| 833AV | 0 | On Site | Old Coal Level | 1921 |
| 834CC | 0 | On Site | Unspecified Heap | 1921 |
| 835CB | 0 | On Site | Unspecified Pit | 1921 |
| 836AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 837BA | 0 | On Site | Cuttings | 1921 |
| 838BB | 0 | On Site | Cuttings | 1921 |
| 839AW | 0 | On Site | Unspecified Heap | 1921 |
| 840L | 0 | On Site | Unspecified Old Shaft | 1921 |

| | | | | |
|---|---|---|---|---|
| 841Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 842S | 0 | On Site | Colliery | 1921 |
| 843AY | 0 | On Site | Refuse Heap | 1921 |
| 844V | 0 | On Site | Colliery | 1921 |
| 845Q | 0 | On Site | Unspecified Slant | 1921 |
| 846Q | 0 | On Site | Refuse Heap | 1921 |
| 847Q | 0 | On Site | Unspecified Heap | 1921 |
| 848U | 0 | On Site | Unspecified Ground Workings | 1921 |
| 849BD | 0 | On Site | Unspecified Pits | 1921 |
| 850AV | 0 | On Site | Unspecified Heap | 1921 |
| 851BO | 0 | On Site | Cuttings | 1921 |
| 852BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 853CN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 854J | 0 | On Site | Unspecified Pit | 1921 |
| 855BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 856BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 857AR | 0 | On Site | Old Coal Pit | 1921 |
| 858AR | 0 | On Site | Old Coal Level | 1921 |
| 859AR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 860AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 861AP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 862BP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 863AZ | 0 | On Site | Colliery | 1903 |
| 864CG | 0 | On Site | Colliery | 1903 |
| 865BQ | 0 | On Site | Unspecified Pit | 1921 |
| 866BQ | 0 | On Site | Cuttings | 1921 |
| 867BR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 868CG | 0 | On Site | Disused Colliery | 1948 |
| 869N | 0 | On Site | Unspecified Ground Workings | 1948 |
| 870N | 0 | On Site | Unspecified Old Levels | 1948 |
| 871Z | 0 | On Site | Unspecified Heaps | 1948 |
| 872AL | 0 | On Site | Old Coal Levels | 1948 |
| 873CK | 0 | On Site | Colliery | 1948 |
| 874BI | 0 | On Site | Unspecified Old Level | 1903 |
| 875T | 0 | On Site | Smithy | 1876 |
| 876P | 0 | On Site | Unspecified Heaps | 1877 |
| 877M | 0 | On Site | Unspecified Heaps | 1877 |
| 878G | 0 | On Site | Unspecified Old Drift | 1877 |
| 879AG | 0 | On Site | Coal Level | 1877 |

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|---|---|---|---|---|
| 880BQ | 0 | On Site | Old Coal Level | 1921 |
| 881BT | 0 | On Site | Unspecified Heaps | 1921 |
| 882AD | 0 | On Site | Unspecified Old Quarry | 1877 |
| 883AG | 0 | On Site | Unspecified Old Quarry | 1877 |
| 884N | 0 | On Site | Unspecified Old Levels | 1948 |
| 885BS | 0 | On Site | Unspecified Level | 1903 |
| 886CP | 0 | On Site | Coal Pit | 1876 |
| 887BA | 0 | On Site | Cuttings | 1921 |
| 888BB | 0 | On Site | Cuttings | 1921 |
| 889Q | 0 | On Site | Railway Sidings | 1921 |
| 890R | 0 | On Site | Railway Building | 1921 |
| 891V | 0 | On Site | Colliery | 1921 |
| 892S | 0 | On Site | Colliery | 1921 |
| 893AW | 0 | On Site | Unspecified Heap | 1921 |
| 894Q | 0 | On Site | Old Shaft | 1921 |
| 895AV | 0 | On Site | Old Coal Level | 1921 |
| 896Q | 0 | On Site | Slant | 1921 |
| 897Q | 0 | On Site | Old Shaft | 1921 |
| 898AY | 0 | On Site | Engine House | 1921 |
| 899AY | 0 | On Site | Refuse Heap | 1921 |
| 900T | 0 | On Site | Railway Station | 1921 |
| 901R | 0 | On Site | Unspecified Ground Workings | 1921 |
| 902AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 903BD | 0 | On Site | Unspecified Ground Workings | 1921 |
| 904CC | 0 | On Site | Unspecified Heap | 1921 |
| 905CC | 0 | On Site | Unspecified Heap | 1921 |
| 906BT | 0 | On Site | Unspecified Heap | 1921 |
| 907BP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 908CO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 909BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 910BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 911BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 912BQ | 0 | On Site | Unspecified Pit | 1921 |
| 913BC | 2 | S | Unspecified Pit | 1921 |
| 914BC | 2 | S | Unspecified Pit | 1921 |
| 915AR | 2 | S | Unspecified Ground Workings | 1877 |
| 916CG | 2 | N | Cuttings | 1877 |
| 917AZ | 3 | W | Unspecified Drift | 1921 |
| 918U | 3 | W | Unspecified Heap | 1877 |
| 919V | 3 | SE | Unspecified Disused Tip | 1987 |

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|---|---|---|---|---|
| 920CK | 3 | N | Colliery | 1921 |
| 921BD | 3 | SE | Unspecified Ground Workings | 1921 |
| 922CT | 3 | NE | Unspecified Old Quarry | 1900 |
| 923CQ | 4 | S | Cuttings | 1962 |
| 924AR | 4 | S | Old Coal Level | 1903 |
| 925BU | 5 | W | Unspecified Drift | 1914 |
| 926BU | 5 | W | Unspecified Drift | 1914 |
| 927AR | 5 | S | Old Coal Pit | 1900 |
| 928CK | 5 | N | Unspecified Disused Drift | 1987 |
| 929J | 5 | S | Unspecified Heap | 1948 |
| 930CP | 5 | SE | Unspecified Ground Workings | 1921 |
| 931CP | 5 | SE | Unspecified Ground Workings | 1921 |
| 932BU | 5 | W | Unspecified Drift | 1921 |
| 933DR | 6 | NE | Railway Sidings | 1921 |
| 934CQ | 6 | S | Old Coal Level | 1900 |
| 935CR | 7 | NW | Old Coal Level | 1903 |
| 936CR | 7 | NW | Old Coal Level | 1877 |
| 937CS | 7 | S | Old Level (Coal) | 1914 |
| 938CS | 7 | S | Old Level (Coal) | 1914 |
| 939CT | 7 | NE | Old Quarry | 1921 |
| 940V | 8 | SE | Refuse Heap | 1948 |
| 941CG | 8 | N | Unspecified Heap | 1921 |
| 942CK | 8 | N | Colliery | 1921 |
| 943CK | 8 | N | Colliery | 1921 |
| 944CG | 8 | N | Unspecified Ground Workings | 1921 |
| 945CT | 9 | NE | Unspecified Old Quarry | 1921 |
| 946CH | 9 | SE | Unspecified Ground Workings | 1876 |
| 947CK | 9 | N | Colliery | 1914 |
| 948CS | 9 | S | Old Coal Level | 1948 |
| 949CS | 9 | S | Old Coal Level | 1903 |
| 950CT | 9 | NE | Unspecified Quarry | 1962 |
| 951CT | 10 | NE | Unspecified Old Quarry | 1921 |
| 952CH | 10 | SE | Old Coal Level | 1901 |
| 953CT | 10 | NE | Unspecified Old Quarry | 1948 |
| 954CQ | 11 | S | Unspecified Ground Workings | 1877 |
| 955V | 11 | SE | Refuse Heap | 1914 |
| 956V | 11 | SE | Refuse Heap | 1914 |
| 957AY | 11 | N | Shale Tip | 1914 |
| 958AY | 11 | N | Shale Tip | 1914 |
| 959CK | 11 | N | Unspecified Drift | 1914 |
| 960CU | 12 | NE | Cuttings | 1903 |
| 961CU | 12 | NE | Cuttings | 1877 |

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|---|---|---|---|---|
| 962CK | 12 | N | Refuse Heap | 1965 |
| 963CK | 12 | N | Drift | 1921 |
| 964CK | 12 | N | Drift | 1921 |
| 965CP | 12 | SE | Railway Buildings | 1965 |
| 966BU | 13 | W | Railway Buildings | 1948 |
| 967CV | 13 | S | Unspecified Pit | 1987 |
| 968CV | 14 | S | Unspecified Heaps | 1965 |
| 969CV | 14 | S | Unspecified Ground Workings | 1948 |
| 970CP | 14 | SE | Refuse Heaps | 1921 |
| 971CP | 15 | SE | Refuse Heap | 1965 |
| 972CG | 15 | N | Unspecified Heaps | 1877 |
| 973CS | 15 | S | Old Coal Level | 1921 |
| 974CK | 16 | N | Unspecified Drift | 1921 |
| 975CG | 17 | N | Unspecified Heap | 1948 |
| 976DA | 17 | S | Unspecified Disused Tip | 1987 |
| 977CW | 17 | NE | Railway Sidings | 1948 |
| 978CW | 17 | NE | Railway Sidings | 1921 |
| 979CX | 17 | S | Cuttings | 1921 |
| 980BU | 17 | S | Unspecified Heap | 1921 |
| 981DB | 18 | S | Unspecified Heap | 1903 |
| 982CG | 19 | N | Unspecified Ground Workings | 1921 |
| 983CG | 19 | N | Unspecified Ground Workings | 1921 |
| 984CV | 19 | S | Unspecified Ground Workings | 1921 |
| 985CG | 19 | N | Unspecified Ground Workings | 1914 |
| 986CG | 19 | N | Unspecified Ground Workings | 1914 |
| 987CY | 19 | NW | Unspecified Ground Workings | 1914 |
| 988CV | 19 | S | Unspecified Ground Workings | 1903 |
| 989BV | 20 | S | Old Coal Level | 1901 |
| 990CG | 20 | N | Unspecified Old Level | 1948 |
| 991CX | 20 | S | Old Coal Pit | 1921 |
| 992CG | 21 | N | Unspecified Pit | 1914 |
| 993CG | 21 | N | Unspecified Pit | 1914 |
| 994CX | 21 | S | Unspecified Pit | 1877 |
| 995V | 22 | S | Unspecified Ground Workings | 1876 |
| 996BV | 22 | S | Unspecified Pit | 1948 |
| 997BV | 22 | S | Unspecified Pit | 1903 |
| 998CG | 22 | N | Unspecified Heap | 1921 |
| 999CG | 22 | N | Unspecified Heap | 1921 |
| 1000V | 22 | S | Unspecified Ground Workings | 1877 |

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|---|---|---|---|---|
| 1001BV | 22 | SE | Refuse Heap | 1921 |
| 1002BV | 22 | SE | Refuse Heap | 1921 |
| 1003BV | 22 | S | Old Coal Level | 1921 |
| 1004BV | 22 | S | Old Coal Level | 1921 |
| 1005AT | 24 | S | Unspecified Ground Workings | 1948 |
| 1006CY | 25 | NW | Unspecified Ground Workings | 1921 |
| 1007CY | 25 | NW | Unspecified Ground Workings | 1921 |
| 1008CY | 25 | NW | Unspecified Ground Workings | 1921 |
| 1009BV | 25 | SE | Refuse Heap | 1914 |
| 1010BV | 25 | SE | Refuse Heap | 1914 |
| 1011CX | 26 | S | Unspecified Pit | 1962 |
| 1012CX | 28 | S | Unspecified Pits | 1948 |
| 1013BV | 28 | S | Old Coal Level | 1921 |
| 1014CQ | 28 | SE | Unspecified Heap | 1900 |
| 1015CD | 29 | S | Unspecified Ground Workings | 1921 |
| 1016CD | 29 | S | Unspecified Ground Workings | 1921 |
| 1017CZ | 31 | SE | Unspecified Ground Workings | 1914 |
| 1018CZ | 31 | SE | Unspecified Ground Workings | 1914 |
| 1019AT | 31 | S | Unspecified Heap | 1948 |
| 1020V | 31 | S | Unspecified Mine | 1965 |
| 1021DD | 31 | N | Unspecified Pit | 1921 |
| 1022DA | 31 | S | Refuse Heap | 1965 |
| 1023DC | 33 | NE | Unspecified Pit | 1914 |
| 1024BV | 34 | SE | Refuse Heap | 1921 |
| 1025DB | 34 | S | Unspecified Heap | 1948 |
| 1026BU | 34 | S | Unspecified Heap | 1903 |
| 1027CD | 34 | S | Unspecified Ground Workings | 1877 |
| 1028DC | 35 | NE | Unspecified Pit | 1921 |
| 1029DC | 35 | NE | Unspecified Pit | 1921 |
| 1030DC | 35 | NE | Unspecified Pit | 1903 |
| 1031DC | 35 | NE | Unspecified Pit | 1948 |
| 1032DC | 36 | NE | Unspecified Pit | 1921 |
| 1033CY | 36 | NW | Unspecified Heaps | 1877 |
| 1034DC | 37 | NE | Unspecified Pit | 1877 |
| 1035CX | 37 | S | Old Coal Level | 1903 |
| 1036DD | 37 | N | Old Coal Pit | 1877 |
| 1037DD | 37 | N | Unspecified Pit | 1921 |
| 1038BV | 38 | S | Old Trial Drift | 1914 |
| 1039BV | 38 | S | Old Trial Drift | 1914 |
| 1040DA | 40 | S | Unspecified Old Quarries | 1903 |

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|---|---|---|---|---|
| 1041DC | 41 | NE | Unspecified Old Level | 1903 |
| 1042CG | 42 | N | Unspecified Old Level | 1921 |
| 1043CS | 43 | S | Unspecified Heap | 1948 |
| 1044CN | 43 | SE | Unspecified Heap | 1965 |
| 1045CN | 43 | SE | Unspecified Heap | 1987 |
| 1046CY | 43 | NW | Old Coal Level | 1921 |
| 1047CY | 43 | NW | Old Coal Level | 1921 |
| 1048DD | 44 | N | Unspecified Pit | 1914 |
| 1049DD | 44 | N | Unspecified Pit | 1914 |
| 1050DD | 44 | N | Unspecified Pit | 1948 |
| 1051CS | 44 | S | Unspecified Heap | 1921 |
| 1052CS | 44 | S | Unspecified Heap | 1921 |
| 1053CY | 44 | NW | Old Coal Level | 1914 |
| 1054DP | 45 | S | Unspecified Disused Workings | 1987 |
| 1055DD | 45 | N | Unspecified Pit | 1921 |
| 1056DD | 45 | N | Unspecified Pit | 1921 |
| 1057CS | 45 | S | Unspecified Pit | 1914 |
| 1058CS | 45 | S | Unspecified Pit | 1914 |
| 1059BD | 45 | SE | Unspecified Pit | 1948 |
| 1060CG | 45 | N | Old Level | 1921 |
| 1061AQ | 46 | NE | Unspecified Disused Level | 1977 |
| 1062CY | 47 | NW | Old Coal Level | 1948 |
| 1063CS | 47 | S | Unspecified Ground Workings | 1877 |
| 1064BV | 47 | S | Old Trail Drift | 1921 |
| 1065BC | 47 | S | Unspecified Heap | 1903 |
| 1066BC | 47 | S | Unspecified Heap | 1877 |
| 1067CX | 47 | S | Unspecified Pit | 1877 |
| 1068CQ | 49 | SE | Unspecified Heap | 1921 |
| 1069CQ | 49 | SE | Unspecified Heap | 1921 |
| 1070CX | 49 | S | Unspecified Ground Workings | 1962 |
| 1071CP | 50 | W | Unspecified Ground Workings | 1901 |
| 1072CY | 50 | NW | Old Coal Level | 1921 |
| 1073DE | 51 | SW | Unspecified Ground Workings | 1876 |
| 1074AQ | 51 | NE | Old Coal Level | 1921 |
| 1075AQ | 51 | NE | Old Coal Level | 1921 |
| 1076AQ | 52 | NE | Old Coal Pit | 1921 |
| 1077CG | 52 | N | Unspecified Old Level | 1914 |
| 1078CG | 52 | N | Unspecified Old Level | 1914 |
| 1079AT | 52 | S | Unspecified Quarry | 1876 |
| 1080DF | 52 | NE | Unspecified Heap | 1877 |
| 1081DE | 53 | SW | Unspecified Ground Workings | 1877 |
| 1082DG | 53 | SE | Coal Pit | 1877 |

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|---|---|---|---|---|
| 1083AQ | 53 | NE | Old Coal Level | 1921 |
| 1084DE | 53 | SW | Unspecified Old Quarry | 1901 |
| 1085DA | 53 | S | Refuse Heap | 1948 |
| 1086DC | 53 | NE | Old Coal Level | 1877 |
| 1087DF | 53 | NE | Unspecified Heap | 1962 |
| 1088DE | 54 | SW | Unspecified Old Quarry | 1903 |
| 1089CG | 54 | N | Unspecified Old Level | 1921 |
| 1090CG | 54 | N | Unspecified Old Level | 1921 |
| 1091CS | 54 | S | Unspecified Heap | 1921 |
| 1092DF | 55 | NE | Unspecified Heap | 1921 |
| 1093DF | 55 | NE | Unspecified Heap | 1921 |
| 1094DG | 55 | S | Unspecified Ground Workings | 1921 |
| 1095DG | 55 | S | Unspecified Ground Workings | 1921 |
| 1096DF | 56 | NE | Unspecified Heap | 1948 |
| 1097DF | 56 | NE | Unspecified Heap | 1921 |
| 1098DF | 56 | NE | Unspecified Heap | 1921 |
| 1099DG | 57 | S | Unspecified Ground Workings | 1948 |
| 1100DB | 57 | S | Unspecified Ground Workings | 1965 |
| 1101DE | 57 | S | Unspecified Ground Workings | 1921 |
| 1102DE | 57 | S | Unspecified Ground Workings | 1921 |
| 1103CP | 58 | SE | Unspecified Ground Workings | 1877 |
| 1104CQ | 58 | S | Old Coal Level | 1903 |
| 1105DE | 59 | S | Unspecified Ground Workings | 1914 |
| 1106DE | 59 | S | Unspecified Ground Workings | 1914 |
| 1107DB | 59 | S | Unspecified Pit | 1948 |
| 1108CS | 60 | S | Unspecified Pit | 1876 |
| 1109CK | 60 | N | Cuttings | 1877 |
| 1110CP | 60 | SE | Unspecified Ground Workings | 1914 |
| 1111CP | 60 | SE | Unspecified Ground Workings | 1914 |
| 1112DH | 61 | NW | Unspecified Heap | 1948 |
| 1113DH | 61 | NW | Unspecified Ground Workings | 1914 |
| 1114DH | 61 | NW | Unspecified Ground Workings | 1914 |
| 1115DH | 61 | NW | Unspecified Heaps | 1921 |
| 1116DE | 63 | S | Unspecified Ground Workings | 1921 |
| 1117DH | 64 | NW | Unspecified Heaps | 1921 |
| 1118DH | 64 | NW | Unspecified Heaps | 1921 |
| 1119BC | 64 | S | Unspecified Ground | 1921 |

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|---|---|---|---|---|
| | | | Workings | |
| 1120BC | 64 | S | Unspecified Ground Workings | 1921 |
| 1121CS | 64 | S | Unspecified Pit | 1877 |
| 1122CN | 65 | S | Unspecified Old Quarries | 1903 |
| 1123CD | 66 | S | Unspecified Heap | 1948 |
| 1124CS | 66 | S | Unspecified Pit | 1903 |
| 1125CP | 66 | SE | Unspecified Ground Workings | 1921 |
| 1126CS | 66 | S | Unspecified Pit | 1901 |
| 1127DE | 67 | SW | Unspecified Ground Workings | 1921 |
| 1128DH | 68 | NW | Unspecified Heap | 1877 |
| 1129DE | 70 | SW | Unspecified Ground Workings | 1948 |
| 1130CD | 71 | S | Unspecified Ground Workings | 1965 |
| 1131CD | 71 | S | Unspecified Ground Workings | 1987 |
| 1132CS | 71 | S | Unspecified Heap | 1876 |
| 1133CS | 72 | S | Unspecified Heap | 1877 |
| 1134DE | 72 | S | Unspecified Heap | 1877 |
| 1135CP | 72 | SE | Unspecified Ground Workings | 1921 |
| 1136BC | 73 | S | Unspecified Heap | 1948 |
| 1137CS | 73 | S | Unspecified Pit | 1921 |
| 1138CS | 73 | S | Unspecified Pit | 1921 |
| 1139DI | 74 | NE | Unspecified Ground Workings | 1876 |
| 1140CS | 74 | S | Unspecified Pit | 1948 |
| 1141DI | 74 | NE | Unspecified Ground Workings | 1962 |
| 1142CS | 75 | S | Unspecified Pit | 1914 |
| 1143CS | 75 | S | Unspecified Pit | 1914 |
| 1144CY | 77 | NW | Unspecified Ground Workings | 1914 |
| 1145DD | 78 | N | Unspecified Pit | 1921 |
| 1146DI | 78 | NE | Unspecified Ground Workings | 1921 |
| 1147DI | 78 | NE | Unspecified Ground Workings | 1921 |
| 1148CS | 78 | S | Unspecified Heap | 1921 |
| 1149DE | 79 | S | Unspecified Pit | 1948 |
| 1150CY | 79 | NW | Unspecified Ground Workings | 1965 |
| 1151BC | 80 | S | Unspecified Heap | 1948 |
| 1152DJ | 80 | SE | Old Shafts (Coal) | 1914 |
| 1153DJ | 80 | SE | Old Shafts (Coal) | 1914 |
| 1154DK | 80 | NW | Unspecified Ground Workings | 1921 |
| 1155DK | 80 | NW | Unspecified Ground | 1921 |

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|---|---|---|---|---|
| | | | Workings | |
| 1156DJ | 81 | SE | Old Coal Shafts | 1921 |
| 1157DK | 81 | NW | Unspecified Ground Workings | 1921 |
| 1158DH | 82 | NW | Unspecified Pit | 1877 |
| 1159DI | 82 | NE | Unspecified Pit | 1877 |
| 1160DJ | 82 | SE | Old Clay Pit | 1877 |
| 1161DD | 83 | N | Old Coal Shaft | 1921 |
| 1162DI | 83 | NE | Unspecified Ground Workings | 1877 |
| 1163DJ | 83 | SE | Unspecified Pit | 1948 |
| 1164DJ | 83 | SE | Unspecified Old Shafts | 1903 |
| 1165FV | 83 | NE | Cuttings | 1877 |
| 1166DJ | 84 | SE | Old Clay Pit | 1901 |
| 1167DD | 84 | N | Disused Old Coal Pit | 1877 |
| 1168DD | 84 | N | Old Coal Pit | 1901 |
| 1169DG | 84 | S | Unspecified Pit | 1921 |
| 1170DD | 85 | N | Unspecified Heap | 1921 |
| 1171DD | 85 | N | Unspecified Old Shaft | 1903 |
| 1172DG | 85 | S | Old Trial Drift | 1948 |
| 1173DG | 86 | S | Old Trial Drift | 1921 |
| 1174DG | 86 | S | Old Trial Drift | 1921 |
| 1175DG | 86 | S | Unspecified Drift | 1876 |
| 1176DE | 86 | SW | Refuse Heap | 1965 |
| 1177BC | 86 | S | Unspecified Ground Workings | 1921 |
| 1178CY | 87 | NW | Unspecified Heaps | 1903 |
| 1179DD | 88 | N | Old Coal Shaft | 1921 |
| 1180DI | 88 | NE | Unspecified Ground Workings | 1948 |
| 1181DI | 88 | NE | Unspecified Ground Workings | 1903 |
| 1182DI | 89 | NE | Unspecified Ground Workings | 1900 |
| 1183DG | 90 | S | Unspecified Drift | 1877 |
| 1184DD | 91 | N | Unspecified Pit | 1914 |
| 1185DD | 91 | N | Unspecified Pit | 1914 |
| 1186DG | 91 | S | Old Trial Drift | 1921 |
| 1187DD | 91 | N | Unspecified Pit | 1948 |
| 1188DD | 91 | N | Unspecified Pit | 1921 |
| 1189DD | 91 | N | Unspecified Pit | 1921 |
| 1190DJ | 91 | SE | Unspecified Pit | 1921 |
| 1191DL | 93 | N | Old Coal Shaft | 1921 |
| 1192DI | 93 | NE | Unspecified Ground Workings | 1921 |
| 1193DL | 94 | N | Old Coal Shaft | 1948 |
| 1194DL | 94 | N | Old Shafts (Coal) | 1914 |
| 1195DL | 94 | N | Old Shafts (Coal) | 1914 |

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|---|---|---|---|---|
| 1196BD | 95 | SE | Unspecified Pit | 1877 |
| 1197BD | 95 | SE | Unspecified Pit | 1948 |
| 1198DM | 95 | SE | Cuttings | 1921 |
| 1199DM | 96 | SE | Cuttings | 1877 |
| 1200DI | 100 | NE | Unspecified Ground Workings | 1921 |
| 1201DI | 100 | NE | Unspecified Pit | 1948 |
| 1202DM | 101 | SE | Cuttings | 1914 |
| 1203DM | 101 | SE | Cuttings | 1914 |
| 1204DT | 101 | W | Unspecified Ground Workings | 1876 |
| 1205DM | 102 | SE | Cuttings | 1921 |
| 1206DN | 102 | NW | Old Ironstone Levels | 1914 |
| 1207DM | 102 | SE | Cuttings | 1948 |
| 1208DN | 103 | NW | Old Ironstone Levels | 1921 |
| 1209BD | 104 | SE | Unspecified Pit | 1965 |
| 1210DD | 104 | N | Old Coal Shafts | 1921 |
| 1211DN | 106 | NW | Unspecified Old Levels | 1903 |
| 1212DN | 106 | NW | Old Ironstone Levels | 1948 |
| 1213DI | 106 | NE | Unspecified Ground Workings | 1921 |
| 1214DN | 106 | NW | Old Ironstone Levels | 1921 |
| 1215DO | 106 | NE | Unspecified Heap | 1903 |
| 1216DO | 106 | NE | Unspecified Ground Workings | 1921 |
| 1217DO | 107 | NE | Unspecified Ground Workings | 1877 |
| 1218DN | 107 | NW | Unspecified Pit | 1965 |
| 1219CZ | 108 | S | Unspecified Heap | 1965 |
| 1220DJ | 108 | N | Old Coal Shafts | 1921 |
| 1221DO | 108 | NE | Unspecified Heap | 1900 |
| 1222GD | 109 | NW | Old Gravel Pit | 1877 |
| 1223DQ | 109 | N | Unspecified Heap | 1903 |
| 1224DM | 109 | SE | Cuttings | 1921 |
| 1225DN | 109 | NW | Old Ironstone Level | 1877 |
| 1226DO | 110 | NE | Unspecified Heap | 1948 |
| 1227DO | 112 | NE | Unspecified Ground Workings | 1876 |
| 1228DV | 112 | NW | Unspecified Drifts | 1948 |
| 1229CZ | 113 | S | Unspecified Ground Workings | 1965 |
| 1230CZ | 113 | S | Unspecified Ground Workings | 1987 |
| 1231DS | 113 | S | Unspecified Ground Workings | 1876 |
| 1232DD | 114 | N | Old Coal Pit | 1901 |
| 1233BD | 114 | SE | Unspecified Pit | 1948 |
| 1234BD | 114 | SE | Old Shafts (Coal) | 1914 |
| 1235BD | 114 | SE | Old Shafts (Coal) | 1914 |

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|---|---|---|---|---|
| 1236BD | 114 | SE | Unspecified Pit | 1877 |
| 1237DD | 114 | N | Old Coal Shafts | 1948 |
| 1238DD | 114 | N | Unspecified Old Shafts | 1903 |
| 1239DP | 115 | S | Unspecified Ground Workings | 1914 |
| 1240DP | 115 | S | Unspecified Ground Workings | 1914 |
| 1241DQ | 115 | N | Unspecified Heap | 1877 |
| 1242DD | 115 | N | Old Coal Shafts | 1921 |
| 1243DR | 120 | NW | Cuttings | 1877 |
| 1244DS | 120 | S | Unspecified Ground Workings | 1876 |
| 1245DS | 122 | S | Unspecified Heaps | 1876 |
| 1246DD | 123 | N | Cuttings | 1877 |
| 1247DT | 123 | S | Lime Kiln | 1876 |
| 1248DP | 124 | S | Unspecified Pit | 1965 |
| 1249BD | 124 | SE | Unspecified Pit | 1921 |
| 1250DD | 125 | N | Old Coal Shafts | 1921 |
| 1251CP | 126 | S | Lime Kiln | 1877 |
| 1252DD | 126 | N | Old Coal Shafts | 1921 |
| 1253DS | 127 | S | Unspecified Heap | 1876 |
| 1254DP | 127 | S | Unspecified Old Quarry | 1901 |
| 1255DX | 128 | N | Cuttings | 1903 |
| 1256DP | 129 | S | Unspecified Pit | 1903 |
| 1257DY | 129 | NW | Colliery | 1921 |
| 1258DT | 130 | SW | Old Coal Pit | 1921 |
| 1259DT | 130 | SW | Old Coal Pit | 1921 |
| 1260DT | 130 | SW | Old Coal Pit | 1914 |
| 1261DT | 130 | SW | Old Coal Pit | 1914 |
| 1262DP | 131 | S | Unspecified Ground Workings | 1914 |
| 1263DP | 131 | S | Unspecified Ground Workings | 1914 |
| 1264DO | 132 | NE | Unspecified Heap | 1900 |
| 1265DT | 132 | SW | Old Coal Pit | 1921 |
| 1266DD | 132 | N | Old Shafts (Coal) | 1914 |
| 1267DD | 132 | N | Old Shafts (Coal) | 1914 |
| 1268DD | 132 | N | Old Coal Shafts | 1948 |
| 1269DT | 133 | SW | Old Coal Pit | 1921 |
| 1270DT | 134 | SW | Old Coal Pit | 1948 |
| 1271DT | 134 | SW | Old Coal Pit | 1903 |
| 1272DN | 134 | NW | Old Ironstone Levels | 1921 |
| 1273DT | 135 | SW | Old Coal Pit | 1901 |
| 1274DD | 135 | N | Old Coal Shafts | 1921 |
| 1275DN | 136 | NW | Unspecified Heap | 1965 |
| 1276DN | 138 | NW | Old Ironstone Levels | 1921 |
| 1277DJ | 139 | SE | Unspecified Pit | 1877 |

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|---|---|---|---|---|
| 1278CW | 140 | N | Railway Sidings | 1965 |
| 1279DU | 141 | NE | Unspecified Heap | 1914 |
| 1280DU | 142 | NE | Unspecified Ground Workings | 1921 |
| 1281DU | 142 | NE | Unspecified Ground Workings | 1921 |
| 1282DS | 144 | S | Unspecified Pit | 1948 |
| 1283DS | 145 | S | Unspecified Ground Workings | 1921 |
| 1284DU | 145 | NE | Unspecified Ground Workings | 1921 |
| 1285DV | 145 | NW | Unspecified Pit | 1965 |
| 1286DU | 145 | NE | Unspecified Pit | 1903 |
| 1287DU | 145 | NE | Old Ironstone Quarry | 1877 |
| 1288DE | 145 | SW | Old Coal Level | 1901 |
| 1289DW | 146 | NW | Unspecified Ground Workings | 1903 |
| 1290DW | 146 | NW | Unspecified Ground Workings | 1921 |
| 1291DU | 146 | NE | Unspecified Pit | 1948 |
| 1292DW | 146 | NW | Unspecified Ground Workings | 1900 |
| 1293DS | 147 | S | Unspecified Pit | 1921 |
| 1294DS | 147 | S | Unspecified Pit | 1921 |
| 1295DX | 147 | N | Cuttings | 1903 |
| 1296DW | 149 | NW | Unspecified Ground Workings | 1948 |
| 1297DW | 150 | NW | Unspecified Ground Workings | 1921 |
| 1298DW | 150 | NW | Unspecified Ground Workings | 1921 |
| 1299DW | 150 | NW | Unspecified Ground Workings | 1921 |
| 1300DU | 152 | NE | Unspecified Heap | 1948 |
| 1301DS | 154 | S | Unspecified Ground Workings | 1876 |
| 1302DJ | 154 | N | Unspecified Pit | 1877 |
| 1303DS | 154 | S | Old Coal Level | 1903 |
| 1304DY | 156 | NW | Colliery | 1914 |
| 1305DW | 156 | NW | Unspecified Ground Workings | 1877 |
| 1306EI | 157 | S | Refuse Heap | 1965 |
| 1307DU | 158 | NE | Unspecified Pit | 1965 |
| 1308DY | 158 | NW | Colliery | 1921 |
| 1309DY | 158 | NW | Colliery | 1921 |
| 1310DZ | 158 | SE | Cuttings | 1877 |
| 1311DJ | 158 | N | Old Coal Shafts | 1948 |
| 1312DU | 159 | NE | Unspecified Pit | 1987 |
| 1313DZ | 164 | SE | Cuttings | 1876 |
| 1314DS | 164 | S | Old Coal Level | 1900 |

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|---|---|---|---|---|
| 1315DS | 165 | S | Old Coal Level | 1903 |
| 1316DY | 166 | NW | Railway Sidings | 1921 |
| 1317DY | 169 | NW | Railway Sidings | 1914 |
| 1318DV | 169 | NW | Unspecified Drift | 1914 |
| 1319DN | 169 | NW | Old Ironstone Levels | 1921 |
| 1320DE | 172 | SW | Unspecified Pit | 1921 |
| 1321DE | 172 | SW | Unspecified Pit | 1921 |
| 1322GG | 172 | S | Refuse Heap | 1948 |
| 1323DN | 172 | NW | Old Ironstone Levels | 1921 |
| 1324DN | 172 | NW | Unspecified Old Levels | 1903 |
| 1325DN | 172 | NW | Old Ironstone Levels | 1948 |
| 1326DE | 173 | SW | Unspecified Pit | 1948 |
| 1327DV | 173 | NW | Unspecified Drifts | 1921 |
| 1328DY | 173 | NW | Railway Sidings | 1921 |
| 1329DE | 173 | SW | Unspecified Pit | 1921 |
| 1330DN | 176 | NW | Old Ironstone Level | 1877 |
| 1331EA | 176 | SE | Old Coal Level | 1903 |
| 1332EC | 176 | NW | Unspecified Ground Workings | 1965 |
| 1333EA | 180 | SE | Unspecified Heap | 1921 |
| 1334EA | 180 | SE | Unspecified Heap | 1921 |
| 1335EB | 180 | S | Unspecified Ground Workings | 1965 |
| 1336EB | 180 | S | Unspecified Ground Workings | 1987 |
| 1337EA | 180 | SE | Old Level (Coal) | 1914 |
| 1338EA | 180 | SE | Old Level (Coal) | 1914 |
| 1339EA | 180 | SE | Unspecified Heap | 1876 |
| 1340EA | 181 | SE | Unspecified Heap | 1948 |
| 1341EA | 181 | SE | Unspecified Heap | 1877 |
| 1342EA | 181 | SE | Old Coal Level | 1921 |
| 1343DG | 181 | SE | Burial Ground | 1876 |
| 1344DK | 183 | NW | Unspecified Heap | 1965 |
| 1345DK | 183 | NW | Unspecified Heap | 1987 |
| 1346DG | 183 | SE | Burial Ground | 1877 |
| 1347EA | 183 | SW | Old Coal Level | 1921 |
| 1348EA | 183 | SW | Old Coal Level | 1921 |
| 1349EA | 184 | SW | Old Coal Level | 1948 |
| 1350EA | 186 | SW | Old Coal Level | 1921 |
| 1351DY | 189 | NW | Unspecified Ground Workings | 1914 |
| 1352DY | 189 | NW | Unspecified Ground Workings | 1921 |
| 1353DY | 189 | NW | Unspecified Ground Workings | 1921 |
| 1354DW | 189 | W | Unspecified Heap | 1921 |
| 1355DY | 191 | NW | Unspecified Pit | 1948 |
| 1356DY | 191 | NW | Unspecified Pit | 1903 |

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|---|---|---|---|---|
| 1357EA | 191 | SE | Unspecified Heap | 1921 |
| 1358DY | 191 | NW | Unspecified Ground Workings | 1965 |
| 1359DW | 191 | W | Unspecified Heap | 1948 |
| 1360DN | 192 | NW | Old Ironstone Levels | 1914 |
| 1361DY | 192 | NW | Colliery | 1903 |
| 1362DN | 193 | NW | Old Ironstone Levels | 1921 |
| 1363DY | 193 | NW | Unspecified Old Quarry | 1877 |
| 1364DY | 193 | NW | Unspecified Ground Workings | 1921 |
| 1365DV | 194 | NW | Engine House | 1914 |
| 1366DY | 194 | NW | Refuse Heap | 1921 |
| 1367DY | 194 | NW | Refuse Heaps | 1921 |
| 1368DY | 194 | NW | Refuse Heaps | 1921 |
| 1369DV | 194 | NW | Engine House | 1921 |
| 1370GF | 194 | N | Unspecified Old Quarries | 1877 |
| 1371DY | 195 | NW | Unspecified Pit | 1965 |
| 1372EC | 197 | NW | Unspecified Drifts | 1948 |
| 1373DV | 197 | NW | Engine House | 1921 |
| 1374ED | 197 | S | Unspecified Heap | 1876 |
| 1375DN | 197 | NW | Old Ironstone Levels | 1921 |
| 1376DN | 199 | NW | Unspecified Heap | 1965 |
| 1377EC | 200 | NW | Railway Sidings | 1903 |
| 1378DV | 200 | NW | Unspecified Drift | 1914 |
| 1379ED | 200 | S | Unspecified Heap | 1877 |
| 1380DV | 201 | NW | Unspecified Drifts | 1921 |
| 1381EE | 203 | NW | Unspecified Pit | 1900 |
| 1382EE | 205 | NW | Unspecified Pit | 1877 |
| 1383DV | 206 | NW | Unspecified Drifts | 1921 |
| 1384EF | 207 | S | Unspecified Heap | 1876 |
| 1385DY | 208 | NW | Unspecified Ground Workings | 1948 |
| 1386EF | 210 | S | Unspecified Pit | 1914 |
| 1387EF | 210 | S | Unspecified Pit | 1914 |
| 1388EF | 210 | S | Unspecified Heap | 1921 |
| 1389EF | 210 | S | Unspecified Heap | 1921 |
| 1390EF | 210 | S | Unspecified Heap | 1921 |
| 1391EF | 211 | S | Unspecified Heap | 1948 |
| 1392EF | 211 | S | Unspecified Heap | 1877 |
| 1393DY | 213 | NW | Unspecified Ground Workings | 1965 |
| 1394DN | 213 | NW | Old Ironstone Levels | 1914 |
| 1395DN | 213 | NW | Unspecified Ground Workings | 1921 |
| 1396DN | 213 | NW | Unspecified Ground Workings | 1921 |
| 1397DN | 218 | NW | Old Ironstone Levels | 1921 |
| 1398CW | 219 | NE | Unspecified Pit | 1903 |

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|---|---|---|---|---|
| 1399EF | 219 | S | Unspecified Heap | 1921 |
| 1400EG | 220 | NW | Unspecified Heaps | 1903 |
| 1401EG | 220 | NW | Old Ironstone Levels | 1948 |
| 1402EG | 221 | NW | Unspecified Pit | 1965 |
| 1403EG | 222 | NW | Unspecified Old Level | 1903 |
| 1404EG | 222 | NW | Old Ironstone Level | 1877 |
| 1405DV | 227 | NW | Unspecified Drifts | 1921 |
| 1406EH | 227 | S | Cemetery | 1948 |
| 1407EH | 229 | S | Cemetery | 1964 |
| 1408EH | 229 | S | Cemetery | 1980 |
| 1409EH | 229 | S | Cemetery | 1981 |
| 1410EC | 236 | NW | Unspecified Heap | 1921 |
| 1411EC | 236 | NW | Unspecified Heap | 1921 |
| 1412EC | 236 | NW | Unspecified Ground Workings | 1914 |
| 1413EG | 237 | NW | Unspecified Ground Workings | 1921 |
| 1414EF | 238 | S | Unspecified Pits | 1876 |
| 1415EC | 238 | NW | Unspecified Ground Workings | 1921 |
| 1416EF | 238 | S | Unspecified Pit | 1964 |
| 1417EF | 238 | S | Unspecified Pit | 1988 |
| 1418EF | 239 | SE | Unspecified Pit | 1903 |
| 1419EF | 239 | SE | Unspecified Pit | 1877 |
| 1420EF | 239 | SE | Unspecified Pit | 1921 |
| 1421DY | 239 | NW | Railway Sidings | 1948 |
| 1422EF | 240 | SE | Unspecified Old Quarry | 1901 |
| 1423EF | 240 | SE | Unspecified Ground Workings | 1921 |
| 1424EF | 240 | SE | Unspecified Ground Workings | 1921 |
| 1425EF | 240 | S | Unspecified Ground Workings | 1914 |
| 1426EF | 240 | S | Unspecified Ground Workings | 1914 |
| 1427EF | 240 | S | Unspecified Ground Workings | 1948 |
| 1428EC | 240 | NW | Unspecified Ground Workings | 1965 |
| 1429EI | 242 | S | Cuttings | 1948 |
| 1430EJ | 242 | S | Cuttings | 1903 |
| 1431EJ | 242 | S | Cuttings | 1877 |
| 1432EJ | 243 | S | Cuttings | 1914 |
| 1433EJ | 243 | S | Cuttings | 1914 |
| 1434EJ | 243 | S | Cuttings | 1901 |
| 1435EJ | 245 | S | Cuttings | 1921 |
| 1436EF | 245 | SE | Unspecified Ground Workings | 1988 |
| 1437EF | 245 | SE | Unspecified Ground Workings | 1964 |

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|---|---|---|---|---|
| 1438EC | 246 | NW | Unspecified Ground Workings | 1948 |
| 1439EF | 247 | SE | Unspecified Pit | 1877 |
| 1440EG | 248 | NW | Unspecified Heap | 1965 |
| 1441EJ | 249 | S | Cuttings | 1921 |
| 1442ER | 249 | NE | Cuttings | 1877 |
| 1443EF | 249 | S | Unspecified Ground Workings | 1921 |
| 1444EJ | 250 | S | Cuttings | 1921 |
| 1445EK | 251 | SE | Railway Sidings | 1964 |
| 1446EK | 251 | SE | Railway Sidings | 1980 |
| 1447EL | 252 | NW | Brick Works | 1914 |
| 1448EL | 252 | NW | Brick Works | 1914 |
| 1449 | 257 | SE | Railway Sidings | 1981 |
| 1450EG | 268 | NW | Unspecified Old Quarry | 1877 |
| 1451ED | 269 | S | Old Coal Drift | 1921 |
| 1452EG | 269 | NW | Old Ironstone Level | 1914 |
| 1453ED | 270 | S | Old Coal Drift | 1921 |
| 1454ED | 270 | S | Old Coal Drift | 1921 |
| 1455EG | 270 | NW | Old Ironstone Level | 1921 |
| 1456EG | 271 | NW | Unspecified Pit | 1965 |
| 1457ED | 271 | S | Old Coal Drift | 1948 |
| 1458ED | 272 | S | Old Coal Drift | 1914 |
| 1459ED | 272 | S | Old Coal Drift | 1914 |
| 1460EG | 272 | NW | Old Ironstone Level | 1948 |
| 1461EG | 275 | NW | Old Ironstone Level | 1921 |
| 1462EM | 276 | N | Unspecified Pit | 1903 |
| 1463EG | 280 | NW | Unspecified Old Level | 1903 |
| 1464ED | 283 | S | Old Coal Drift | 1921 |
| 1465EM | 286 | N | Unspecified Old Quarry | 1877 |
| 1466EJ | 287 | S | Unspecified Ground Workings | 1914 |
| 1467EJ | 287 | S | Unspecified Ground Workings | 1914 |
| 1468EJ | 288 | S | Unspecified Heap | 1921 |
| 1469EJ | 288 | S | Unspecified Heap | 1921 |
| 1470EJ | 289 | S | Unspecified Heap | 1948 |
| 1471EJ | 290 | S | Unspecified Heap | 1921 |
| 1472DU | 290 | NE | Old Ironstone Level | 1948 |
| 1473EN | 291 | S | Refuse Heaps | 1964 |
| 1474EN | 291 | S | Refuse Heaps | 1988 |
| 1475EO | 293 | NW | Unspecified Old Quarry | 1948 |
| 1476EO | 293 | NW | Unspecified Old Quarry | 1903 |
| 1477ET | 294 | SE | Old Coal Drift | 1901 |
| 1478EP | 295 | N | Unspecified Mill | 1921 |
| 1479EP | 295 | N | Unspecified Mill | 1921 |
| 1480ED | 297 | SE | Unspecified Ground | 1914 |

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|---|---|---|---|---|
| | | | Workings | |
| 1481ED | 297 | SE | Unspecified Ground Workings | 1914 |
| 1482DU | 298 | NE | Old Ironstone Level | 1921 |
| 1483EP | 300 | N | Unspecified Mill | 1921 |
| 1484EQ | 302 | S | Refuse Heap | 1964 |
| 1485EQ | 302 | S | Refuse Heap | 1988 |
| 1486EQ | 302 | S | Railway Sidings | 1964 |
| 1487EQ | 302 | S | Railway Sidings | 1988 |
| 1488ER | 302 | NE | Cuttings | 1914 |
| 1489FI | 303 | N | Railway Sidings | 1962 |
| 1490ER | 304 | NE | Cuttings | 1948 |
| 1491ER | 304 | NE | Cuttings | 1877 |
| 1492ER | 304 | NE | Cuttings | 1903 |
| 1493EP | 304 | N | Unspecified Mill | 1914 |
| 1494ES | 306 | S | Refuse Heap | 1964 |
| 1495ES | 306 | S | Refuse Heap | 1988 |
| 1496GH | 307 | N | Unspecified Pit | 1877 |
| 1497EU | 308 | NW | Old Ironstone Level | 1948 |
| 1498ET | 310 | S | Unspecified Old Quarries | 1901 |
| 1499EP | 310 | N | Mill Pond | 1903 |
| 1500EP | 310 | N | Mill Pond | 1877 |
| 1501ES | 312 | S | Refuse Heap | 1964 |
| 1502ES | 312 | S | Refuse Heap | 1988 |
| 1503EC | 313 | NW | Unspecified Heap | 1903 |
| 1504EJ | 313 | S | Unspecified Pit | 1877 |
| 1505ET | 313 | S | Unspecified Pit | 1914 |
| 1506ET | 313 | S | Unspecified Pit | 1914 |
| 1507ET | 315 | S | Unspecified Heap | 1948 |
| 1508ET | 315 | S | Unspecified Ground Workings | 1921 |
| 1509ET | 315 | S | Unspecified Ground Workings | 1921 |
| 1510ET | 315 | S | Unspecified Ground Workings | 1921 |
| 1511ET | 315 | SE | Unspecified Heaps | 1876 |
| 1512ET | 315 | S | Unspecified Heap | 1903 |
| 1513ET | 316 | S | Unspecified Ground Workings | 1876 |
| 1514ET | 317 | SE | Unspecified Heap | 1903 |
| 1515ET | 318 | SE | Unspecified Heap | 1948 |
| 1516ET | 318 | S | Unspecified Heap | 1964 |
| 1517ET | 318 | S | Unspecified Heap | 1988 |
| 1518EU | 318 | NW | Unspecified Ground Workings | 1914 |
| 1519EU | 318 | NW | Unspecified Ground Workings | 1914 |
| 1520ET | 319 | S | Unspecified Ground | 1877 |

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|---|---|---|---|---|
| | | | Workings | |
| 1521EO | 319 | NW | Unspecified Ground Workings | 1914 |
| 1522ET | 319 | S | Old Coal Drift | 1903 |
| 1523EO | 320 | NW | Unspecified Pit | 1921 |
| 1524EO | 320 | NW | Unspecified Pit | 1921 |
| 1525ET | 322 | S | Unspecified Ground Workings | 1921 |
| 1526EO | 322 | NW | Unspecified Pit | 1921 |
| 1527EO | 323 | NW | Unspecified Pit | 1903 |
| 1528EO | 323 | NW | Unspecified Pit | 1948 |
| 1529EU | 324 | NW | Unspecified Pit | 1921 |
| 1530EU | 324 | NW | Unspecified Pit | 1921 |
| 1531EZ | 325 | NE | Old Ironstone Level | 1877 |
| 1532EU | 325 | NW | Old Ironstone Level | 1914 |
| 1533EU | 325 | NW | Old Ironstone Level | 1914 |
| 1534EU | 325 | NW | Unspecified Pit | 1903 |
| 1535EU | 325 | NW | Unspecified Pit | 1948 |
| 1536EU | 326 | NW | Unspecified Pit | 1921 |
| 1537EU | 326 | NW | Disused Old Ironstone Level | 1877 |
| 1538EU | 326 | NW | Unspecified Pit | 1901 |
| 1539EO | 329 | NW | Unspecified Pit | 1965 |
| 1540EP | 330 | N | Unspecified Mill | 1948 |
| 1541EP | 330 | N | Unspecified Mill | 1903 |
| 1542EP | 330 | N | Unspecified Mill | 1877 |
| 1543EV | 334 | NE | Unspecified Heap | 1921 |
| 1544EV | 334 | NE | Unspecified Heap | 1921 |
| 1545EW | 334 | NW | Unspecified Ground Workings | 1914 |
| 1546EW | 334 | NW | Unspecified Ground Workings | 1921 |
| 1547EW | 334 | NW | Unspecified Ground Workings | 1921 |
| 1548EV | 335 | NE | Unspecified Heap | 1914 |
| 1549FB | 335 | NE | Cuttings | 1877 |
| 1550ET | 336 | S | Unspecified Pit | 1948 |
| 1551EV | 336 | NE | Unspecified Ground Workings | 1921 |
| 1552EY | 337 | S | Unspecified Heap | 1877 |
| 1553 | 337 | SE | Mineral Railway Sidings | 1948 |
| 1554EO | 338 | NW | Unspecified Old Quarry | 1914 |
| 1555ET | 338 | S | Unspecified Pit | 1903 |
| 1556EV | 339 | NE | Unspecified Heap | 1948 |
| 1557EV | 339 | NE | Unspecified Heap | 1903 |
| 1558EV | 339 | NE | Old Ironstone Quarry | 1877 |
| 1559EO | 339 | NW | Unspecified Old Quarry | 1921 |
| 1560EW | 339 | NW | Unspecified Ground | 1948 |

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|---|---|---|---|---|
| | | | Workings | |
| 1561EW | 340 | NW | Unspecified Old Quarry | 1877 |
| 1562EO | 340 | NW | Unspecified Old Quarry | 1921 |
| 1563EQ | 340 | S | Unspecified Pit | 1988 |
| 1564EQ | 340 | S | Unspecified Pit | 1964 |
| 1565EW | 341 | NW | Unspecified Ground Workings | 1903 |
| 1566EW | 343 | NW | Unspecified Heap | 1965 |
| 1567FM | 343 | SE | Mineral Railway Sidings | 1921 |
| 1568EO | 343 | NW | Colliery | 1877 |
| 1569EV | 347 | NE | Unspecified Pit | 1921 |
| 1570EV | 347 | NE | Unspecified Pit | 1921 |
| 1571EO | 348 | NW | Unspecified Quarry | 1965 |
| 1572EV | 349 | NE | Unspecified Pit | 1903 |
| 1573EV | 349 | NE | Unspecified Pit | 1948 |
| 1574EV | 349 | NE | Unidentified Pit | 1914 |
| 1575EQ | 350 | S | Unspecified Old Quarries | 1901 |
| 1576EX | 352 | S | Unspecified Ground Workings | 1876 |
| 1577EQ | 353 | S | Unspecified Pit | 1914 |
| 1578EQ | 353 | S | Unspecified Pit | 1914 |
| 1579EQ | 353 | S | Unspecified Pits | 1921 |
| 1580EQ | 353 | S | Unspecified Pits | 1921 |
| 1581EQ | 353 | S | Unspecified Pits | 1921 |
| 1582EV | 353 | NE | Unspecified Pit | 1877 |
| 1583EQ | 353 | S | Unspecified Heap | 1948 |
| 1584EQ | 353 | S | Unspecified Heap | 1903 |
| 1585EU | 354 | NW | Old Ironstone Level | 1921 |
| 1586EX | 354 | S | Unspecified Ground Workings | 1921 |
| 1587EQ | 354 | S | Unspecified Ground Workings | 1877 |
| 1588EX | 355 | S | Unspecified Ground Workings | 1914 |
| 1589EX | 355 | S | Unspecified Ground Workings | 1914 |
| 1590EQ | 355 | S | Unspecified Heaps | 1876 |
| 1591EY | 355 | S | Old Coal Level | 1901 |
| 1592EX | 355 | S | Unspecified Ground Workings | 1948 |
| 1593EZ | 355 | NE | Unspecified Disused Level | 1987 |
| 1594EX | 356 | S | Unspecified Ground Workings | 1903 |
| 1595EU | 356 | NW | Unspecified Old Level | 1903 |
| 1596EX | 356 | S | Unspecified Ground Workings | 1921 |
| 1597EX | 356 | S | Unspecified Ground Workings | 1921 |
| 1598EX | 357 | S | Unspecified Ground Workings | 1877 |

| | | | | |
|---|---|---|---|---|
| 1599EU | 357 | NW | Old Ironstone Level | 1921 |
| 1600EU | 358 | NW | Unspecified Ground Workings | 1914 |
| 1601EU | 358 | NW | Unspecified Ground Workings | 1914 |
| 1602EU | 358 | NW | Disused Old Ironstone Level | 1901 |
| 1603EU | 359 | NW | Old Ironstone Level | 1921 |
| 1604FA | 361 | W | Unspecified Disused Shaft | 1965 |
| 1605EU | 361 | NW | Unspecified Pit | 1948 |
| 1606EX | 361 | S | Unspecified Heap | 1964 |
| 1607EX | 361 | S | Unspecified Heap | 1988 |
| 1608FA | 362 | W | Old Ironstone Shaft | 1921 |
| 1609EQ | 362 | S | Unspecified Ground Workings | 1921 |
| 1610EU | 362 | NW | Unspecified Pit | 1965 |
| 1611EU | 362 | NW | Unspecified Pit | 1921 |
| 1612FA | 363 | W | Old Ironstone Shaft | 1921 |
| 1613FA | 364 | W | Old Ironstone Shaft | 1921 |
| 1614FB | 364 | NE | Old Ironstone Level | 1914 |
| 1615FA | 364 | W | Old Ironstone Level | 1914 |
| 1616FA | 364 | W | Old Ironstone Level | 1914 |
| 1617FA | 366 | W | Old Ironstone Pit | 1901 |
| 1618EZ | 366 | NE | Old Ironstone Level | 1921 |
| 1619EX | 367 | S | Unspecified Ground Workings | 1921 |
| 1620EZ | 367 | NE | Unspecified Tank | 1903 |
| 1621FA | 367 | W | Unspecified Old Shaft | 1903 |
| 1622FA | 367 | W | Old Ironstone Shaft | 1948 |
| 1623FA | 367 | W | Old Limestone Pit | 1877 |
| 1624ET | 367 | SE | Old Level (Coal) | 1914 |
| 1625ET | 367 | SE | Old Level (Coal) | 1914 |
| 1626EX | 368 | S | Unspecified Ground Workings | 1988 |
| 1627EX | 368 | S | Unspecified Ground Workings | 1964 |
| 1628FC | 376 | W | Unspecified Pit | 1921 |
| 1629FC | 378 | W | Unspecified Heap | 1914 |
| 1630FC | 378 | W | Unspecified Heap | 1914 |
| 1631FC | 379 | W | Unspecified Heap | 1877 |
| 1632EQ | 379 | S | Unspecified Pit | 1877 |
| 1633FC | 379 | W | Unspecified Heap | 1948 |
| 1634FC | 380 | W | Unspecified Heap | 1921 |
| 1635FC | 380 | W | Unspecified Heap | 1921 |
| 1636FD | 383 | N | Unspecified Heap | 1900 |
| 1637FD | 387 | N | Unspecified Heap | 1877 |
| 1638FD | 387 | N | Unspecified Heap | 1948 |
| 1639EQ | 388 | S | Unspecified Pit | 1948 |

| | | | | |
|---|---|---|---|---|
| 1640EQ | 388 | S | Unspecified Pit | 1903 |
| 1641EZ | 388 | NE | Unspecified Old Level | 1903 |
| 1642FD | 388 | N | Unspecified Heap | 1921 |
| 1643FD | 388 | N | Unspecified Heap | 1921 |
| 1644FD | 388 | N | Unspecified Heap | 1921 |
| 1645EQ | 389 | S | Unspecified Pit | 1914 |
| 1646EQ | 389 | S | Unspecified Pit | 1914 |
| 1647EQ | 389 | S | Unspecified Pit | 1948 |
| 1648FE | 390 | SW | Cuttings | 1876 |
| 1649FD | 391 | N | Unspecified Heap | 1921 |
| 1650FE | 392 | SW | Cuttings | 1877 |
| 1651FC | 392 | W | Unspecified Heap | 1965 |
| 1652FC | 392 | W | Unspecified Heap | 1987 |
| 1653EQ | 393 | S | Unspecified Pit | 1876 |
| 1654FG | 394 | E | Unspecified Old Quarries | 1903 |
| 1655EW | 394 | NW | Unspecified Heap | 1914 |
| 1656FF | 394 | S | Refuse Heap | 1964 |
| 1657FF | 394 | S | Refuse Heap | 1988 |
| 1658FG | 395 | E | Old Ironstone Quarry | 1877 |
| 1659FH | 397 | S | Unspecified Ground Workings | 1877 |
| 1660EQ | 398 | S | Unspecified Ground Workings | 1988 |
| 1661EQ | 398 | S | Unspecified Ground Workings | 1964 |
| 1662EU | 399 | NW | Unspecified Ground Workings | 1921 |
| 1663EW | 399 | NW | Unspecified Heap | 1948 |
| 1664EW | 399 | NW | Unspecified Heap | 1903 |
| 1665EQ | 400 | S | Unspecified Old Quarries | 1901 |
| 1666EQ | 400 | S | Unspecified Pit | 1921 |
| 1667FH | 400 | S | Unspecified Ground Workings | 1921 |
| 1668EQ | 400 | S | Old Coal Level | 1948 |
| 1669EL | 400 | NW | Disused Old Ironstone Level | 1877 |
| 1670FH | 400 | S | Unspecified Heap | 1914 |
| 1671FH | 400 | S | Unspecified Heap | 1914 |
| 1672EW | 401 | NW | Unspecified Heap | 1965 |
| 1673EQ | 401 | S | Old Coal Level | 1921 |
| 1674EQ | 401 | S | Old Coal Level | 1921 |
| 1675EU | 402 | NW | Unspecified Pit | 1903 |
| 1676FE | 402 | SW | Cuttings | 1914 |
| 1677FE | 402 | SW | Cuttings | 1914 |
| 1678EQ | 403 | S | Old Coal Level | 1903 |
| 1679EU | 403 | NW | Unspecified Pit | 1901 |
| 1680EU | 404 | NW | Unspecified Pit | 1965 |
| 1681EU | 404 | NW | Unspecified Ground | 1914 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 1682EU | 404 | NW | Unspecified Ground Workings | 1914 |
| 1683FE | 404 | SE | Cuttings | 1948 |
| 1684EL | 404 | NW | Brick Works | 1921 |
| 1685EL | 404 | NW | Unspecified Ground Workings | 1921 |
| 1686EL | 404 | NW | Brick Works | 1921 |
| 1687EL | 404 | NW | Unspecified Ground Workings | 1921 |
| 1688EX | 405 | SE | Old Coal Level | 1921 |
| 1689EL | 405 | NW | Unspecified Ground Workings | 1948 |
| 1690FI | 405 | N | Unspecified Tank | 1877 |
| 1691EL | 406 | NW | Unspecified Ground Workings | 1921 |
| 1692FE | 408 | SE | Cuttings | 1921 |
| 1693FH | 408 | S | Unspecified Ground Workings | 1921 |
| 1694FE | 410 | SE | Cuttings | 1921 |
| 1695FE | 412 | SW | Cuttings | 1921 |
| 1696FJ | 413 | SE | Old Coal Level | 1921 |
| 1697FJ | 414 | SE | Old Coal Level | 1948 |
| 1698EU | 414 | NW | Unspecified Heap | 1921 |
| 1699FK | 415 | E | Unspecified Ground Workings | 1948 |
| 1700FI | 415 | N | Railway Sidings | 1900 |
| 1701FK | 415 | E | Unspecified Ground Workings | 1921 |
| 1702FK | 415 | E | Unspecified Ground Workings | 1921 |
| 1703FJ | 417 | SE | Old Coal Level | 1921 |
| 1704FJ | 417 | SE | Old Coal Level | 1921 |
| 1705EU | 417 | NW | Unspecified Heap | 1877 |
| 1706FJ | 417 | SE | Old Coal Level | 1921 |
| 1707FI | 418 | N | Railway Sidings | 1948 |
| 1708FI | 418 | N | Railway Sidings | 1903 |
| 1709EU | 420 | NW | Unspecified Heap | 1948 |
| 1710FI | 420 | N | Railway Sidings | 1921 |
| 1711EU | 420 | NW | Unspecified Heap | 1921 |
| 1712EU | 420 | NW | Unspecified Heap | 1921 |
| 1713FI | 420 | N | Railway Buildings | 1977 |
| 1714FI | 420 | N | Railway Buildings | 1962 |
| 1715FI | 420 | N | Railway Buildings | 1948 |
| 1716FI | 420 | N | Railway Buildings | 1903 |
| 1717FL | 421 | N | Railway Sidings | 1965 |
| 1718FI | 421 | N | Railway Buildings | 1900 |
| 1719FI | 424 | N | Railway Building | 1921 |
| 1720FI | 424 | N | Railway Buildings | 1877 |

| | | | | |
|---|---|---|---|---|
| 1721FK | 425 | E | Old Ironstone Quarry | 1877 |
| 1722FK | 425 | E | Unspecified Ground Workings | 1903 |
| 1723FI | 426 | N | Junction Station | 1921 |
| 1724FI | 427 | N | Railway Sidings | 1921 |
| 1725FL | 427 | N | Railway Station | 1921 |
| 1726FI | 428 | N | Railway Building | 1921 |
| 1727FA | 429 | W | Unspecified Pit | 1901 |
| 1728FI | 430 | N | Railway Sidings | 1877 |
| 1729GK | 430 | W | Old Coal Pit | 1877 |
| 1730FK | 431 | E | Unspecified Ground Workings | 1921 |
| 1731GJ | 431 | W | Unspecified Ground Workings | 1903 |
| 1732FD | 432 | NW | Unspecified Drift | 1948 |
| 1733FK | 434 | E | Unspecified Ground Workings | 1914 |
| 1734FK | 434 | E | Unspecified Ground Workings | 1914 |
| 1735FA | 434 | W | Unspecified Heap | 1914 |
| 1736FA | 434 | W | Unspecified Heap | 1914 |
| 1737EW | 439 | NW | Unspecified Pit | 1877 |
| 1738FM | 440 | SE | Railway Sidings | 1903 |
| 1739FI | 440 | N | Railway Buildings | 1962 |
| 1740FL | 440 | N | Railway Sidings | 1914 |
| 1741FL | 440 | N | Railway Sidings | 1914 |
| 1742FI | 440 | N | Railway Building | 1962 |
| 1743FN | 441 | NE | Unspecified Ground Workings | 1977 |
| 1744FL | 441 | N | Railway Sidings | 1877 |
| 1745FN | 441 | NE | Unspecified Ground Workings | 1877 |
| 1746FL | 444 | N | Railway Sidings | 1948 |
| 1747FP | 444 | NE | Cuttings | 1877 |
| 1748EW | 445 | NW | Unspecified Ground Workings | 1965 |
| 1749EW | 445 | NW | Unspecified Ground Workings | 1903 |
| 1750EW | 445 | NW | Unspecified Ground Workings | 1948 |
| 1751FL | 445 | N | Railway Sidings | 1921 |
| 1752FL | 445 | N | Railway Sidings | 1921 |
| 1753FL | 446 | N | Railway Sidings | 1921 |
| 1754FN | 447 | NE | Unspecified Ground Workings | 1962 |
| 1755FI | 448 | NE | Cuttings | 1877 |
| 1756FN | 448 | NE | Unspecified Ground Workings | 1921 |
| 1757FN | 451 | NE | Unspecified Ground Workings | 1921 |

| | | | | |
|---|---|---|---|---|
| 1758FN | 451 | NE | Unspecified Ground Workings | 1921 |
| 1759FM | 451 | SE | Tramway Sidings | 1900 |
| 1760FN | 453 | NE | Unspecified Ground Workings | 1900 |
| 1761FN | 454 | NE | Unspecified Ground Workings | 1903 |
| 1762EW | 455 | NW | Unspecified Heap | 1877 |
| 1763FL | 458 | N | Colliery | 1914 |
| 1764FL | 458 | N | Colliery | 1914 |
| 1765EX | 461 | SE | Old Coal Level | 1921 |
| 1766FL | 462 | N | Colliery | 1921 |
| 1767FL | 462 | N | Colliery | 1921 |
| 1768FL | 463 | N | Colliery | 1921 |
| 1769FO | 463 | S | Old Coal Level | 1921 |
| 1770FI | 464 | N | Railway Building | 1962 |
| 1771FO | 465 | S | Old Coal Level | 1921 |
| 1772FO | 466 | S | Old Coal Level | 1948 |
| 1773FI | 466 | N | Railway Building | 1948 |
| 1774FM | 466 | S | Ambulance Station | 1981 |
| 1775FI | 466 | N | Railway Building | 1921 |
| 1776FO | 467 | S | Old Coal Level | 1921 |
| 1777FO | 467 | S | Old Coal Level | 1921 |
| 1778FG | 467 | E | Unspecified Heap | 1948 |
| 1779FH | 469 | S | Unspecified Ground Workings | 1948 |
| 1780FG | 470 | E | Unspecified Ground Workings | 1921 |
| 1781FG | 470 | E | Unspecified Ground Workings | 1914 |
| 1782FG | 470 | E | Unspecified Ground Workings | 1914 |
| 1783FG | 470 | E | Unspecified Heap | 1921 |
| 1784FG | 470 | E | Unspecified Heap | 1921 |
| 1785FS | 471 | E | Unspecified Heap | 1877 |
| 1786EW | 471 | NW | Cuttings | 1921 |
| 1787FL | 471 | N | Unspecified Drift | 1921 |
| 1788FN | 472 | NE | Unspecified Tank | 1877 |
| 1789FL | 472 | NW | Refuse Heap | 1987 |
| 1790FL | 473 | N | Railway Building | 1921 |
| 1791FL | 473 | N | Railway Building | 1921 |
| 1792FH | 474 | S | Unspecified Ground Workings | 1921 |
| 1793FH | 474 | S | Unspecified Ground Workings | 1921 |
| 1794FN | 476 | NE | Unspecified Ground Workings | 1877 |
| 1795GI | 478 | NW | Unspecified Old Quarry | 1877 |
| 1796FH | 479 | S | Unspecified Ground Workings | 1988 |

| | | | | |
|---|---|---|---|---|
| 1797FH | 479 | S | Unspecified Ground Workings | 1964 |
| 1798FP | 480 | NE | Cuttings | 1921 |
| 1799FQ | 481 | S | Unspecified Ground Workings | 1921 |
| 1800FQ | 483 | S | Unspecified Ground Workings | 1921 |
| 1801FH | 484 | S | Unspecified Ground Workings | 1903 |
| 1802FH | 485 | S | Unspecified Ground Workings | 1876 |
| 1803FQ | 485 | S | Old Coal Level | 1948 |
| 1804FQ | 485 | S | Unspecified Heap | 1921 |
| 1805FQ | 485 | S | Unspecified Heap | 1921 |
| 1806FK | 486 | E | Unspecified Ground Workings | 1921 |
| 1807FQ | 487 | S | Unspecified Ground Workings | 1876 |
| 1808FQ | 487 | S | Old Coal Level | 1900 |
| 1809FP | 488 | NE | Cuttings | 1903 |
| 1810FP | 488 | NE | Cuttings | 1948 |
| 1811FL | 488 | N | Unspecified Heap | 1965 |
| 1812FQ | 489 | S | Old Coal Level | 1903 |
| 1813FR | 491 | N | Unspecified Ground Workings | 1903 |
| 1814FR | 491 | N | Old Ironstone Quarry | 1877 |
| 1815FS | 491 | E | Unspecified Heap | 1948 |
| 1816FK | 491 | E | Unspecified Ground Workings | 1914 |
| 1817FK | 491 | E | Unspecified Ground Workings | 1914 |
| 1818FG | 492 | E | Unspecified Heap | 1965 |
| 1819FG | 492 | E | Unspecified Heap | 1987 |
| 1820FR | 493 | N | Refuse Heap | 1914 |
| 1821FR | 493 | N | Refuse Heap | 1914 |
| 1822FG | 493 | E | Unspecified Heap | 1903 |
| 1823EX | 493 | SE | Unspecified Pit | 1988 |
| 1824EX | 493 | SE | Unspecified Pit | 1964 |
| 1825FG | 494 | E | Unspecified Ground Workings | 1921 |
| 1826FG | 494 | E | Unspecified Ground Workings | 1921 |
| 1827FS | 496 | E | Unspecified Ground Workings | 1921 |
| 1828FS | 496 | E | Unspecified Ground Workings | 1921 |
| 1829FS | 496 | E | Unspecified Heap | 1877 |
| 1830FS | 496 | E | Unspecified Heap | 1903 |
| 1831FR | 497 | N | Refuse Heap | 1948 |
| 1832FO | 497 | S | Unspecified Ground Workings | 1921 |

| | | | | |
|---|---|---|---|---|
| 1833FO | 497 | S | Unspecified Ground Workings | 1921 |
| 1834FO | 498 | S | Old Coal Level | 1948 |
| 1835FR | 499 | N | Refuse Heap | 1921 |
| 1836FR | 499 | N | Refuse Heap | 1921 |
| 1837FO | 499 | S | Unspecified Ground Workings | 1921 |
| 1838FO | 499 | S | Unspecified Ground Workings | 1921 |

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 34

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 1839FW | 0 | On Site | Unspecified Tank | 1996 |
| 1840CF | 0 | On Site | Tanks | 1997 |
| 1841CO | 0 | On Site | Tanks | 1997 |
| 1842BY | 0 | On Site | Unspecified Tank | 1962 |
| 1843T | 0 | On Site | Unspecified Tank | 1962 |
| 1844BY | 0 | On Site | Tanks | 1997 |
| 1845B | 0 | On Site | Unspecified Tank | 1989 |
| 1846B | 0 | On Site | Unspecified Tank | 1989 |
| 1847B | 0 | On Site | Unspecified Tank | 1989 |
| 1848CF | 0 | On Site | Tanks | 1986 |
| 1849AI | 0 | On Site | Unspecified Tank | 1962 |
| 1850CO | 0 | On Site | Tanks | 1986 |
| 1851BY | 0 | On Site | Unspecified Tank | 1986 |
| 1852AI | 0 | On Site | Unspecified Tank | 1989 |
| 1853T | 0 | On Site | Unspecified Tank | 1986 |
| 1854B | 0 | On Site | Unspecified Tank | 1989 |
| 1855T | 0 | On Site | Unspecified Tank | 1918 |
| 1856T | 0 | On Site | Unspecified Tank | 1877 |
| 1857L | 0 | On Site | Unspecified Tank | 1918 |
| 1858B | 0 | On Site | Unspecified Tank | 1996 |
| 1859BD | 21 | SE | Unspecified Tank | 1877 |
| 1860DL | 93 | N | Unspecified Tank | 1997 |
| 1861FT | 256 | S | Unspecified Tank | 1962 |
| 1862FT | 257 | S | Unspecified Tank | 1989 |
| 1863FT | 257 | S | Unspecified Tank | 1990 |
| 1864EZ | 369 | NE | Unspecified Tank | 1919 |
| 1865EZ | 369 | NE | Unspecified Tank | 1905 |

| | | | | |
|---|---|---|---|---|
| 1866FU | 382 | N | Unspecified Tank | 1989 |
| 1867FU | 382 | N | Unspecified Tank | 1989 |
| 1868FU | 382 | N | Unspecified Tank | 1989 |
| 1869FU | 382 | N | Unspecified Tank | 1989 |
| 1870FI | 408 | N | Unspecified Tank | 1877 |
| 1871FI | 463 | NE | Unspecified Tank | 1962 |
| 1872FN | 482 | NE | Unspecified Tank | 1877 |

## 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 6

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 1873FV | 0 | On Site | Electricity Substation | 1993 |
| 1874CK | 0 | On Site | Electricity Substation | 1997 |
| 1875CK | 2 | N | Electricity Substation | 1980 |
| 1876CK | 2 | N | Electricity Substation | 1986 |
| 1877CK | 17 | N | Electricity Substation | 1980 |
| 1878CK | 19 | N | Electricity Substation | 1997 |

## 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

## 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 0

Database searched and no data found.

## 1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

## 1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 1752

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

| ID | Distance(m) | Direction | Use | Date |
|---|---|---|---|---|
| 1879BE | 0 | On Site | Unspecified Pit | 1921 |
| 1880M | 0 | On Site | Unspecified Heap | 1921 |
| 1881F | 0 | On Site | Unspecified Heap | 1921 |
| 1882FW | 0 | On Site | Air Shaft | 1921 |
| 1883AV | 0 | On Site | Old Coal Level | 1921 |
| 1884BA | 0 | On Site | Cuttings | 1921 |
| 1885BB | 0 | On Site | Cuttings | 1921 |
| 1886L | 0 | On Site | Unspecified Old Shaft | 1921 |
| 1887CE | 0 | On Site | Unspecified Old Shaft | 1921 |
| 1888Q | 0 | On Site | Unspecified Heap | 1921 |
| 1889AW | 0 | On Site | Unspecified Heap | 1921 |
| 1890AY | 0 | On Site | Refuse Heap | 1921 |
| 1891AY | 0 | On Site | Colliery | 1921 |
| 1892AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1893CJ | 0 | On Site | Pond | 1921 |
| 1894AZ | 0 | On Site | Colliery | 1921 |
| 1895CM | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1896M | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1897W | 0 | On Site | Unspecified Heap | 1914 |
| 1898X | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1899Y | 0 | On Site | Trial Shaft | 1914 |
| 1900Z | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1901AA | 0 | On Site | Unspecified Ground | 1914 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 1902F | 0 | On Site | Unspecified Heap | 1914 |
| 1903BE | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1904D | 0 | On Site | Unspecified Heap | 1914 |
| 1905AD | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1906N | 0 | On Site | Unspecified Pit | 1914 |
| 1907D | 0 | On Site | Unspecified Heap | 1914 |
| 1908N | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1909AE | 0 | On Site | Unspecified Heap | 1914 |
| 1910AF | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1911AF | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1912CM | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1913P | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1914C | 0 | On Site | Air Shaft | 1914 |
| 1915H | 0 | On Site | Colliery | 1914 |
| 1916C | 0 | On Site | Unspecified Heap | 1914 |
| 1917B | 0 | On Site | Unspecified Heap | 1914 |
| 1918D | 0 | On Site | Unspecified Drift | 1914 |
| 1919C | 0 | On Site | Unspecified Drift | 1914 |
| 1920G | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1921G | 0 | On Site | Unspecified Old Level | 1914 |
| 1922CO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1923AZ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1924DT | 0 | On Site | Air Shaft | 1921 |
| 1925AU | 0 | On Site | Refuse Heaps | 1921 |
| 1926E | 0 | On Site | Unspecified Drift | 1914 |
| 1927G | 0 | On Site | Unspecified Old Level | 1914 |
| 1928D | 0 | On Site | Unspecified Old Level | 1914 |
| 1929K | 0 | On Site | Colliery | 1914 |
| 1930F | 0 | On Site | Colliery | 1914 |
| 1931O | 0 | On Site | Old Coal Levels | 1914 |
| 1932AL | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1933D | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1934D | 0 | On Site | Unspecified Old Level | 1914 |
| 1935AM | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1936AN | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1937F | 0 | On Site | Old Coal Levels | 1914 |

| | | | | |
|---|---|---|---|---|
| 1938F | 0 | On Site | Old Coal Levels | 1914 |
| 1939F | 0 | On Site | Old Coal Levels | 1914 |
| 1940G | 0 | On Site | Unspecified Heaps | 1914 |
| 1941M | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1942M | 0 | On Site | Unspecified Old Level | 1914 |
| 1943BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1944J | 0 | On Site | Unspecified Pit | 1921 |
| 1945AO | 0 | On Site | Old Coal Level | 1921 |
| 1946BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1947AO | 0 | On Site | Unspecified Pit | 1921 |
| 1948BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1949BT | 0 | On Site | Unspecified Heap | 1921 |
| 1950AO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1951AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1952CD | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1953AR | 0 | On Site | Old Coal Level | 1921 |
| 1954CQ | 0 | On Site | Old Coal Pit | 1921 |
| 1955AR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1956AO | 0 | On Site | Cuttings | 1921 |
| 1957J | 0 | On Site | Unspecified Ground Workings | 1921 |
| 1958AU | 0 | On Site | Refuse Heap | 1914 |
| 1959FW | 0 | On Site | Air Shaft | 1914 |
| 1960AV | 0 | On Site | Old Level (Coal) | 1914 |
| 1961CC | 0 | On Site | Unspecified Ground Workings and Heap | 1914 |
| 1962AW | 0 | On Site | Unspecified Heap | 1914 |
| 1963CE | 0 | On Site | Unspecified Old Shaft | 1914 |
| 1964L | 0 | On Site | Unspecified Old Shaft | 1914 |
| 1965BC | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1966FX | 0 | On Site | Pond | 1914 |
| 1967AX | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1968BD | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1969AY | 0 | On Site | Refuse Heap | 1914 |
| 1970AY | 0 | On Site | Refuse Heap | 1914 |
| 1971AZ | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1972CO | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1973CO | 0 | On Site | Colliery | 1914 |

| | | | | |
|---|---|---|---|---|
| 1974L | 0 | On Site | Colliery | 1914 |
| 1975CJ | 0 | On Site | Pond | 1914 |
| 1976BA | 0 | On Site | Cuttings | 1914 |
| 1977BB | 0 | On Site | Cuttings | 1914 |
| 1978BC | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1979FX | 0 | On Site | Pond | 1914 |
| 1980AX | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1981BD | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1982AY | 0 | On Site | Refuse Heap | 1914 |
| 1983AY | 0 | On Site | Refuse Heap | 1914 |
| 1984AZ | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1985CO | 0 | On Site | Unspecified Ground Workings | 1914 |
| 1986CO | 0 | On Site | Colliery | 1914 |
| 1987L | 0 | On Site | Colliery | 1914 |
| 1988CJ | 0 | On Site | Pond | 1914 |
| 1989L | 0 | On Site | Unspecified Old Shaft | 1914 |
| 1990CE | 0 | On Site | Unspecified Old Shaft | 1914 |
| 1991AW | 0 | On Site | Unspecified Heap | 1914 |
| 1992AV | 0 | On Site | Unspecified Ground Workings and Heap | 1914 |
| 1993AV | 0 | On Site | Old Level (Coal) | 1914 |
| 1994FW | 0 | On Site | Air Shaft | 1914 |
| 1995AU | 0 | On Site | Refuse Heap | 1914 |
| 1996BA | 0 | On Site | Cuttings | 1914 |
| 1997BB | 0 | On Site | Cuttings | 1914 |
| 1998AC | 0 | On Site | Unspecified Ground Workings | 1948 |
| 1999AF | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2000BF | 0 | On Site | Unspecified Pit | 1948 |
| 2001AM | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2002BG | 0 | On Site | Unspecified Pit | 1948 |
| 2003F | 0 | On Site | Unspecified Pit | 1948 |
| 2004BE | 0 | On Site | Unspecified Pit | 1948 |
| 2005W | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2006AF | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2007AL | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2008AN | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2009AN | 0 | On Site | Unspecified Pit | 1948 |
| 2010AG | 0 | On Site | Unspecified Pit | 1948 |

| | | | | |
|---|---|---|---|---|
| 2011AH | 0 | On Site | Unspecified Pit | 1903 |
| 2012AH | 0 | On Site | Unspecified Pit | 1903 |
| 2013BH | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2014M | 0 | On Site | Unspecified Pit | 1903 |
| 2015G | 0 | On Site | Unspecified Pit | 1903 |
| 2016AC | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2017N | 0 | On Site | Unspecified Pit | 1903 |
| 2018N | 0 | On Site | Unspecified Pit | 1903 |
| 2019E | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2020AA | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2021AL | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2022D | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2023N | 0 | On Site | Unspecified Pit | 1948 |
| 2024M | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2025M | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2026M | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2027AH | 0 | On Site | Unspecified Pit | 1948 |
| 2028AH | 0 | On Site | Unspecified Pit | 1948 |
| 2029X | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2030BE | 0 | On Site | Unspecified Pit | 1903 |
| 2031AC | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2032AG | 0 | On Site | Unspecified Pit | 1903 |
| 2033X | 0 | On Site | Unspecified Pit | 1903 |
| 2034BF | 0 | On Site | Unspecified Pit | 1903 |
| 2035AM | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2036BG | 0 | On Site | Unspecified Pit | 1903 |
| 2037AN | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2038AN | 0 | On Site | Unspecified Pit | 1903 |
| 2039X | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2040W | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2041AF | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2042BJ | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2043AG | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2044AE | 0 | On Site | Unspecified Ground | 1877 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 2045BI | 0 | On Site | Old Coal Level | 1877 |
| 2046BI | 0 | On Site | Old Coal Level | 1877 |
| 2047B | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2048M | 0 | On Site | Unspecified Pit | 1877 |
| 2049D | 0 | On Site | Old Coal Level | 1877 |
| 2050AL | 0 | On Site | Old Coal Level | 1877 |
| 2051O | 0 | On Site | Old Coal Level | 1877 |
| 2052AL | 0 | On Site | Unspecified Pit | 1877 |
| 2053AL | 0 | On Site | Unspecified Pit | 1877 |
| 2054AE | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2055W | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2056BJ | 0 | On Site | Unspecified Pit | 1877 |
| 2057BP | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2058BQ | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2059BQ | 0 | On Site | Unspecified Pit | 1948 |
| 2060CD | 0 | On Site | Unspecified Pit | 1948 |
| 2061AR | 0 | On Site | Unspecified Pit | 1948 |
| 2062BL | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2063CD | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2064AP | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2065AQ | 0 | On Site | Old Coal Level | 1948 |
| 2066BQ | 0 | On Site | Unspecified Pit | 1948 |
| 2067J | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2068A | 0 | On Site | Unspecified Pit | 1948 |
| 2069A | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2070BN | 0 | On Site | Unspecified Pit | 1948 |
| 2071BQ | 0 | On Site | Unspecified Pit | 1903 |
| 2072A | 0 | On Site | Unspecified Pit | 1903 |
| 2073BQ | 0 | On Site | Unspecified Pit | 1903 |
| 2074CD | 0 | On Site | Unspecified Pit | 1903 |
| 2075BQ | 0 | On Site | Old Coal Level | 1903 |
| 2076BO | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2077A | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2078AR | 0 | On Site | Old Coal Level | 1903 |
| 2079BP | 0 | On Site | Unspecified Pit | 1903 |
| 2080BP | 0 | On Site | Unspecified Pit | 1903 |
| 2081BN | 0 | On Site | Unspecified Ground | 1903 |

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|---|---|---|---|---|
| | | | Workings | |
| 2082BL | 0 | On Site | Unspecified Ground Workings | 1903 |
| 2083AR | 0 | On Site | Old Coal Pit | 1903 |
| 2084CD | 0 | On Site | Unspecified Pit | 1877 |
| 2085AR | 0 | On Site | Unspecified Pit | 1877 |
| 2086AR | 0 | On Site | Unspecified Pit | 1877 |
| 2087BQ | 0 | On Site | Unspecified Pit | 1877 |
| 2088BP | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2089BO | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2090AT | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2091BO | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2092BN | 0 | On Site | Unspecified Pit | 1877 |
| 2093BN | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2094BL | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2095BQ | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2096BL | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2097CD | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2098BQ | 0 | On Site | Unspecified Pit | 1877 |
| 2099AP | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2100AZ | 0 | On Site | Unspecified Ground Workings | 1876 |
| 2101AV | 0 | On Site | Old Coal Level | 1901 |
| 2102L | 0 | On Site | Old Coal Pit | 1901 |
| 2103CO | 0 | On Site | Unspecified Ground Workings | 1901 |
| 2104AZ | 0 | On Site | Unspecified Ground Workings | 1901 |
| 2105Q | 0 | On Site | Unspecified Ground Workings | 1901 |
| 2106BU | 0 | On Site | Unspecified Ground Workings | 1901 |
| 2107BQ | 0 | On Site | Old Coal Level | 1900 |
| 2108BR | 0 | On Site | Unspecified Ground Workings | 1900 |
| 2109AR | 0 | On Site | Old Coal Level | 1900 |
| 2110BP | 0 | On Site | Unspecified Ground Workings | 1900 |
| 2111CD | 0 | On Site | Unspecified Pit | 1900 |
| 2112BO | 0 | On Site | Unspecified Ground Workings | 1900 |
| 2113BN | 0 | On Site | Unspecified Pit | 1900 |

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|---|---|---|---|---|
| 2114BL | 0 | On Site | Unspecified Ground Workings | 1900 |
| 2115P | 0 | On Site | Unspecified Heap | 1948 |
| 2116AH | 0 | On Site | Unspecified Heap | 1948 |
| 2117BI | 0 | On Site | Unspecified Old Level | 1948 |
| 2118AI | 0 | On Site | Unspecified Heap | 1948 |
| 2119AD | 0 | On Site | Unspecified Old Level | 1948 |
| 2120M | 0 | On Site | Unspecified Heap | 1948 |
| 2121AD | 0 | On Site | Unspecified Heap | 1948 |
| 2122AD | 0 | On Site | Unspecified Heap | 1948 |
| 2123N | 0 | On Site | Unspecified Heap | 1948 |
| 2124D | 0 | On Site | Unspecified Heap | 1948 |
| 2125AD | 0 | On Site | Unspecified Heap | 1948 |
| 2126Y | 0 | On Site | Coal Shaft | 1948 |
| 2127AK | 0 | On Site | Unspecified Heap | 1948 |
| 2128F | 0 | On Site | Old Coal Levels | 1948 |
| 2129AA | 0 | On Site | Unspecified Heaps | 1948 |
| 2130AC | 0 | On Site | Unspecified Heap | 1948 |
| 2131BS | 0 | On Site | Unspecified Heap | 1948 |
| 2132AC | 0 | On Site | Unspecified Heap | 1948 |
| 2133AM | 0 | On Site | Unspecified Heap | 1948 |
| 2134AM | 0 | On Site | Unspecified Heaps | 1948 |
| 2135AM | 0 | On Site | Unspecified Heaps | 1948 |
| 2136F | 0 | On Site | Unspecified Heap | 1948 |
| 2137F | 0 | On Site | Refuse Heap | 1948 |
| 2138F | 0 | On Site | Unspecified Heap | 1948 |
| 2139F | 0 | On Site | Colliery | 1948 |
| 2140G | 0 | On Site | Unspecified Old Levels | 1948 |
| 2141K | 0 | On Site | Colliery | 1948 |
| 2142BF | 0 | On Site | Unspecified Heap | 1948 |
| 2143AI | 0 | On Site | Colliery | 1948 |
| 2144AN | 0 | On Site | Unspecified Heap | 1948 |
| 2145CI | 0 | On Site | Refuse Heap | 1948 |
| 2146E | 0 | On Site | Refuse Heap | 1948 |
| 2147AE | 0 | On Site | Unspecified Heap | 1948 |
| 2148AE | 0 | On Site | Unspecified Heap | 1948 |
| 2149AH | 0 | On Site | Unspecified Heap | 1903 |
| 2150P | 0 | On Site | Unspecified Heap | 1903 |
| 2151M | 0 | On Site | Unspecified Heap | 1903 |
| 2152M | 0 | On Site | Unspecified Heap | 1903 |
| 2153M | 0 | On Site | Unspecified Heaps | 1903 |
| 2154M | 0 | On Site | Unspecified Heap | 1903 |
| 2155AH | 0 | On Site | Unspecified Heap | 1903 |
| 2156BX | 0 | On Site | Unspecified Heap | 1903 |
| 2157AD | 0 | On Site | Unspecified Heaps | 1903 |
| 2158G | 0 | On Site | Unspecified Heap | 1903 |

| | | | | |
|---|---|---|---|---|
| 2159D | 0 | On Site | Unspecified Old Levels | 1903 |
| 2160AK | 0 | On Site | Unspecified Heaps | 1903 |
| 2161AL | 0 | On Site | Unspecified Old Levels | 1903 |
| 2162AE | 0 | On Site | Unspecified Heap | 1903 |
| 2163AC | 0 | On Site | Unspecified Heap | 1903 |
| 2164BF | 0 | On Site | Unspecified Heap | 1903 |
| 2165AN | 0 | On Site | Unspecified Heap | 1903 |
| 2166AM | 0 | On Site | Unspecified Heap | 1903 |
| 2167AM | 0 | On Site | Unspecified Heaps | 1903 |
| 2168F | 0 | On Site | Unspecified Heap | 1903 |
| 2169F | 0 | On Site | Unspecified Old Levels | 1903 |
| 2170K | 0 | On Site | Colliery | 1903 |
| 2171AI | 0 | On Site | Colliery | 1903 |
| 2172AI | 0 | On Site | Coal Levels | 1877 |
| 2173G | 0 | On Site | Coal Levels | 1877 |
| 2174C | 0 | On Site | Colliery | 1877 |
| 2175F | 0 | On Site | Unspecified Heap | 1877 |
| 2176AD | 0 | On Site | Unspecified Heap | 1877 |
| 2177M | 0 | On Site | Unspecified Heap | 1877 |
| 2178G | 0 | On Site | Unspecified Heaps | 1877 |
| 2179BT | 0 | On Site | Unspecified Heap | 1948 |
| 2180M | 0 | On Site | Unspecified Heaps | 1877 |
| 2181M | 0 | On Site | Unspecified Heaps | 1877 |
| 2182BW | 0 | On Site | Refuse Heap | 1948 |
| 2183BN | 0 | On Site | Refuse Heaps | 1948 |
| 2184BR | 0 | On Site | Refuse Heap | 1948 |
| 2185AP | 0 | On Site | Unspecified Heaps | 1948 |
| 2186AP | 0 | On Site | Unspecified Heap | 1903 |
| 2187CD | 0 | On Site | Unspecified Heap | 1903 |
| 2188AR | 0 | On Site | Unspecified Heap | 1903 |
| 2189BT | 0 | On Site | Unspecified Heap | 1877 |
| 2190BQ | 0 | On Site | Unspecified Heap | 1877 |
| 2191AP | 0 | On Site | Unspecified Heap | 1877 |
| 2192AQ | 0 | On Site | Unspecified Heap | 1877 |
| 2193AP | 0 | On Site | Unspecified Heap | 1877 |
| 2194AD | 0 | On Site | Unspecified Heap | 1903 |
| 2195BS | 0 | On Site | Unspecified Heap | 1903 |
| 2196AZ | 0 | On Site | Colliery | 1901 |
| 2197AZ | 0 | On Site | Unspecified Heap | 1901 |
| 2198BT | 0 | On Site | Unspecified Heap | 1900 |
| 2199AR | 0 | On Site | Unspecified Heap | 1900 |
| 2200F | 0 | On Site | Unspecified Old Level | 1903 |
| 2201AL | 0 | On Site | Unspecified Heap | 1903 |
| 2202AL | 0 | On Site | Unspecified Old Levels | 1903 |
| 2203AM | 0 | On Site | Unspecified Heaps | 1903 |
| 2204BJ | 0 | On Site | Unspecified Heap | 1903 |

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|---|---|---|---|---|
| 2205AD | 0 | On Site | Unspecified Old Levels | 1903 |
| 2206CD | 0 | On Site | Unspecified Ground Workings | 1962 |
| 2207BK | 0 | On Site | Unspecified Ground Workings | 1962 |
| 2208AL | 0 | On Site | Unspecified Heap | 1877 |
| 2209BQ | 0 | On Site | Unspecified Ground Workings | 1962 |
| 2210AR | 0 | On Site | Unspecified Ground Workings | 1962 |
| 2211AR | 0 | On Site | Unspecified Ground Workings | 1962 |
| 2212BP | 0 | On Site | Refuse Heap | 1977 |
| 2213BN | 0 | On Site | Refuse Heap | 1977 |
| 2214AR | 0 | On Site | Refuse Heap | 1977 |
| 2215BN | 0 | On Site | Colliery | 1948 |
| 2216CA | 0 | On Site | Refuse Heap | 1965 |
| 2217K | 0 | On Site | Refuse Heap | 1965 |
| 2218P | 0 | On Site | Unspecified Heap | 1965 |
| 2219E | 0 | On Site | Unspecified Disused Drift | 1965 |
| 2220BR | 0 | On Site | Refuse Heap | 1965 |
| 2221BN | 0 | On Site | Refuse Heap | 1965 |
| 2222AE | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2223BI | 0 | On Site | Unspecified Disused Level | 1965 |
| 2224G | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2225G | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2226D | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2227AI | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2228AG | 0 | On Site | Unspecified Heaps | 1965 |
| 2229AH | 0 | On Site | Unspecified Heap | 1965 |
| 2230BT | 0 | On Site | Unspecified Heap | 1903 |
| 2231M | 0 | On Site | Unspecified Heap | 1965 |
| 2232M | 0 | On Site | Unspecified Heap | 1965 |
| 2233AD | 0 | On Site | Unspecified Heaps | 1965 |
| 2234M | 0 | On Site | Unspecified Heaps | 1965 |
| 2235F | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2236F | 0 | On Site | Unspecified Disused Levels | 1965 |
| 2237AD | 0 | On Site | Unspecified Heap | 1965 |
| 2238AI | 0 | On Site | Unspecified Heap | 1965 |
| 2239D | 0 | On Site | Unspecified Heaps | 1965 |
| 2240AD | 0 | On Site | Unspecified Heap | 1965 |
| 2241AD | 0 | On Site | Unspecified Heaps | 1965 |
| 2242AC | 0 | On Site | Unspecified Heap | 1965 |

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|---|---|---|---|---|
| 2243AN | 0 | On Site | Unspecified Heaps | 1965 |
| 2244AM | 0 | On Site | Unspecified Heaps | 1965 |
| 2245FY | 0 | On Site | Unspecified Heap | 1965 |
| 2246AK | 0 | On Site | Unspecified Heap | 1965 |
| 2247AA | 0 | On Site | Unspecified Heaps | 1965 |
| 2248AK | 0 | On Site | Unspecified Heap | 1965 |
| 2249F | 0 | On Site | Unspecified Heap | 1965 |
| 2250AF | 0 | On Site | Unspecified Heaps | 1965 |
| 2251X | 0 | On Site | Unspecified Heap | 1965 |
| 2252CB | 0 | On Site | Unspecified Disused Level | 1965 |
| 2253Q | 0 | On Site | Unspecified Disused Level | 1965 |
| 2254L | 0 | On Site | Unspecified Disused Level | 1965 |
| 2255AY | 0 | On Site | Unspecified Heaps | 1965 |
| 2256AZ | 0 | On Site | Refuse Heap | 1965 |
| 2257BO | 0 | On Site | Refuse Heap | 1965 |
| 2258BO | 0 | On Site | Unspecified Heap | 1965 |
| 2259M | 0 | On Site | Unspecified Heap | 1965 |
| 2260AC | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2261AL | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2262AL | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2263AH | 0 | On Site | Unspecified Pit | 1965 |
| 2264BV | 0 | On Site | Unspecified Heap | 1876 |
| 2265M | 0 | On Site | Unspecified Pit | 1965 |
| 2266M | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2267AH | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2268AC | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2269AH | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2270D | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2271AD | 0 | On Site | Unspecified Pit | 1965 |
| 2272BE | 0 | On Site | Unspecified Pit | 1965 |
| 2273BE | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2274BF | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2275AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2276BJ | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2277AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2278AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2279BG | 0 | On Site | Unspecified Ground | 1965 |

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|---|---|---|---|---|
| | | | Workings | |
| 2280AM | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2281FY | 0 | On Site | Unspecified Pit | 1965 |
| 2282AK | 0 | On Site | Unspecified Pit | 1965 |
| 2283AK | 0 | On Site | Unspecified Pit | 1965 |
| 2284AA | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2285W | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2286AF | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2287CC | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2288BN | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2289J | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2290AX | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2291B | 0 | On Site | Unspecified Mine | 1965 |
| 2292CA | 0 | On Site | Unspecified Disused Tip | 1987 |
| 2293E | 0 | On Site | Unspecified Disused Drift | 1987 |
| 2294AM | 0 | On Site | Refuse Heap | 1987 |
| 2295F | 0 | On Site | Unspecified Disused Drift | 1987 |
| 2296F | 0 | On Site | Unspecified Disused Levels | 1987 |
| 2297F | 0 | On Site | Unspecified Disused Levels | 1987 |
| 2298FZ | 0 | On Site | Unspecified Disused Workings | 1987 |
| 2299Q | 0 | On Site | Unspecified Disused Level | 1987 |
| 2300AY | 0 | On Site | Unspecified Heaps | 1987 |
| 2301BR | 0 | On Site | Opencast Workings | 1987 |
| 2302CB | 0 | On Site | Unspecified Disused Level | 1987 |
| 2303L | 0 | On Site | Unspecified Disused Shaft | 1987 |
| 2304CE | 0 | On Site | Unspecified Disused Level | 1987 |
| 2305FY | 0 | On Site | Unspecified Pit | 1987 |
| 2306AA | 0 | On Site | Unspecified Ground Workings | 1987 |
| 2307CC | 0 | On Site | Unspecified Ground Workings | 1987 |
| 2308CD | 0 | On Site | Unspecified Ground Workings | 1987 |
| 2309AZ | 0 | On Site | Refuse Heap | 1987 |
| 2310BN | 0 | On Site | Refuse Heap | 1987 |
| 2311CD | 0 | On Site | Unspecified Heap | 1900 |
| 2312BQ | 0 | On Site | Unspecified Pit | 1962 |
| 2313AP | 0 | On Site | Unspecified Ground Workings | 1876 |
| 2314AP | 0 | On Site | Unspecified Ground | 1876 |

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|---|---|---|---|---|
| | | | Workings | |
| 2315BS | 0 | On Site | Unspecified Heap | 1965 |
| 2316AC | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2317M | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2318M | 0 | On Site | Unspecified Pit | 1965 |
| 2319CD | 0 | On Site | Unspecified Ground Workings | 1965 |
| 2320CC | 0 | On Site | Unspecified Heap | 1948 |
| 2321CE | 0 | On Site | Unspecified Old Shaft | 1948 |
| 2322AW | 0 | On Site | Unspecified Heap | 1948 |
| 2323AZ | 0 | On Site | Colliery | 1948 |
| 2324AY | 0 | On Site | Refuse Heap | 1948 |
| 2325Q | 0 | On Site | Unspecified Heap | 1948 |
| 2326Q | 0 | On Site | Unspecified Slant | 1948 |
| 2327Q | 0 | On Site | Refuse Heap | 1948 |
| 2328L | 0 | On Site | Refuse Heap | 1948 |
| 2329L | 0 | On Site | Unspecified Old Shaft | 1948 |
| 2330BO | 0 | On Site | Brick Works | 1948 |
| 2331AV | 0 | On Site | Old Coal Level | 1948 |
| 2332CB | 0 | On Site | Unspecified Pit | 1948 |
| 2333AZ | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2334L | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2335BD | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2336AP | 0 | On Site | Unspecified Disused Level | 1962 |
| 2337AX | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2338CE | 0 | On Site | Unspecified Old Shaft | 1903 |
| 2339AV | 0 | On Site | Coal Level | 1903 |
| 2340GA | 0 | On Site | Refuse Heap | 1903 |
| 2341L | 0 | On Site | Unspecified Old Shaft | 1903 |
| 2342L | 0 | On Site | Unspecified Heap | 1903 |
| 2343AZ | 0 | On Site | Unspecified Heap | 1903 |
| 2344AX | 0 | On Site | Unspecified Pit | 1903 |
| 2345CH | 0 | On Site | Old Coal Level | 1903 |
| 2346AU | 0 | On Site | Refuse Heap | 1903 |
| 2347CD | 0 | On Site | Unspecified Heap | 1962 |
| 2348AQ | 0 | On Site | Unspecified Ground Workings | 1962 |
| 2349AT | 0 | On Site | Unspecified Ground Workings | 1876 |
| 2350AX | 0 | On Site | Unspecified Heap | 1877 |
| 2351AW | 0 | On Site | Unspecified Heap | 1877 |
| 2352L | 0 | On Site | Old Coal Pit | 1877 |
| 2353AZ | 0 | On Site | Unspecified Ground | 1877 |

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|---|---|---|---|---|
| | | | Workings | |
| 2354AV | 0 | On Site | Old Coal Level | 1877 |
| 2355BD | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2356BT | 0 | On Site | Unspecified Heap | 1876 |
| 2357AX | 0 | On Site | Unspecified Pit | 1877 |
| 2358AX | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2359CJ | 0 | On Site | Unspecified Pit | 1877 |
| 2360BR | 0 | On Site | Unspecified Ground Workings | 1876 |
| 2361BN | 0 | On Site | Unspecified Ground Workings | 1876 |
| 2362AV | 0 | On Site | Unspecified Heap | 1948 |
| 2363D | 0 | On Site | Unspecified Drift | 1948 |
| 2364E | 0 | On Site | Unspecified Drift | 1948 |
| 2365C | 0 | On Site | Unspecified Drift | 1948 |
| 2366BI | 0 | On Site | Reservoir | 1903 |
| 2367D | 0 | On Site | Unspecified Drift | 1903 |
| 2368AI | 0 | On Site | Unspecified Drift | 1903 |
| 2369CS | 0 | On Site | Unspecified Ground Workings | 1877 |
| 2370AH | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2371FY | 0 | On Site | Cuttings | 1877 |
| 2372AK | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2373AL | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2374AF | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2375X | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2376AN | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2377CR | 0 | On Site | Cuttings | 1877 |
| 2378BV | 0 | On Site | Unspecified Heap | 1877 |
| 2379BB | 0 | On Site | Cuttings | 1901 |
| 2380R | 0 | On Site | Pond | 1901 |
| 2381Q | 0 | On Site | Unspecified Heap | 1877 |
| 2382AZ | 0 | On Site | Pond | 1901 |
| 2383CD | 0 | On Site | Pond | 1900 |
| 2384AM | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2385F | 0 | On Site | Air Shaft | 1903 |
| 2386AC | 0 | On Site | Unspecified Old Quarries | 1877 |
| 2387BQ | 0 | On Site | Unspecified Old Quarries | 1903 |
| 2388AZ | 0 | On Site | Cuttings | 1876 |
| 2389R | 0 | On Site | Pond | 1876 |
| 2390BQ | 0 | On Site | Unspecified Old Quarries | 1900 |
| 2391AT | 0 | On Site | Unspecified Old Quarries | 1900 |
| 2392BQ | 0 | On Site | Unspecified Old Quarries | 1900 |
| 2393CJ | 0 | On Site | Pond | 1901 |
| 2394CJ | 0 | On Site | Pond | 1901 |

| | | | | |
|---|---|---|---|---|
| 2395FX | 0 | On Site | Pond | 1901 |
| 2396BA | 0 | On Site | Cuttings | 1901 |
| 2397C | 0 | On Site | Air Shaft | 1948 |
| 2398BA | 0 | On Site | Cuttings | 1965 |
| 2399CJ | 0 | On Site | Pond | 1965 |
| 2400W | 0 | On Site | Pond | 1965 |
| 2401AF | 0 | On Site | Ponds | 1965 |
| 2402AG | 0 | On Site | Pond | 1965 |
| 2403X | 0 | On Site | Pond | 1965 |
| 2404X | 0 | On Site | Pond | 1965 |
| 2405B | 0 | On Site | Air Shaft | 1903 |
| 2406CJ | 0 | On Site | Ponds | 1987 |
| 2407W | 0 | On Site | Pond | 1987 |
| 2408CJ | 0 | On Site | Pond | 1987 |
| 2409X | 0 | On Site | Pond | 1987 |
| 2410 | 0 | On Site | Pond | 1987 |
| 2411R | 0 | On Site | Ponds | 1987 |
| 2412BB | 0 | On Site | Cuttings | 1987 |
| 2413BA | 0 | On Site | Cuttings | 1987 |
| 2414BB | 0 | On Site | Cuttings | 1948 |
| 2415CJ | 0 | On Site | Ponds | 1948 |
| 2416BA | 0 | On Site | Cuttings | 1948 |
| 2417FW | 0 | On Site | Air Shaft | 1903 |
| 2418BB | 0 | On Site | Cuttings | 1903 |
| 2419BA | 0 | On Site | Cuttings | 1903 |
| 2420CJ | 0 | On Site | Ponds | 1903 |
| 2421R | 0 | On Site | Pond | 1903 |
| 2422GB | 0 | On Site | Unspecified Old Quarries | 1877 |
| 2423R | 0 | On Site | Pond | 1877 |
| 2424GC | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2425CJ | 0 | On Site | Ponds | 1877 |
| 2426CF | 0 | On Site | Cuttings | 1877 |
| 2427BA | 0 | On Site | Cuttings | 1877 |
| 2428CG | 0 | On Site | Cuttings | 1877 |
| 2429CH | 0 | On Site | Cuttings | 1877 |
| 2430BL | 0 | On Site | Unspecified Old Quarries | 1900 |
| 2431BB | 0 | On Site | Cuttings | 1965 |
| 2432B | 0 | On Site | Pond | 1987 |
| 2433BJ | 0 | On Site | Pond | 1987 |
| 2434K | 0 | On Site | Colliery | 1921 |
| 2435FW | 0 | On Site | Air Shaft | 1948 |
| 2436D | 0 | On Site | Unspecified Old Level | 1921 |
| 2437G | 0 | On Site | Unspecified Old Levels | 1921 |
| 2438BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 2439BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 2440BX | 0 | On Site | Unspecified Old Levels | 1921 |

| | | | | |
|---|---|---|---|---|
| 2441D | 0 | On Site | Unspecified Old Levels | 1921 |
| 2442H | 0 | On Site | Colliery | 1921 |
| 2443BH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2444CL | 0 | On Site | Unspecified Heap | 1921 |
| 2445B | 0 | On Site | Unspecified Heap | 1921 |
| 2446BX | 0 | On Site | Unspecified Heap | 1921 |
| 2447M | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2448M | 0 | On Site | Unspecified Heaps | 1921 |
| 2449N | 0 | On Site | Unspecified Pit | 1921 |
| 2450D | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2451G | 0 | On Site | Unspecified Heap | 1921 |
| 2452G | 0 | On Site | Unspecified Heap | 1921 |
| 2453H | 0 | On Site | Refuse Heap | 1921 |
| 2454D | 0 | On Site | Unspecified Heap | 1921 |
| 2455BJ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2456H | 0 | On Site | Unspecified Heap | 1921 |
| 2457D | 0 | On Site | Refuse Heap | 1921 |
| 2458Y | 0 | On Site | Coal Trial Shaft | 1921 |
| 2459F | 0 | On Site | Old Coal Levels | 1921 |
| 2460F | 0 | On Site | Old Coal Levels | 1921 |
| 2461F | 0 | On Site | Old Coal Levels | 1921 |
| 2462F | 0 | On Site | Old Coal Levels | 1921 |
| 2463AA | 0 | On Site | Old Coal Levels | 1921 |
| 2464BI | 0 | On Site | Unspecified Old Level | 1921 |
| 2465W | 0 | On Site | Unspecified Heap | 1921 |
| 2466CJ | 0 | On Site | Unspecified Heap | 1921 |
| 2467BH | 0 | On Site | Unspecified Pit | 1921 |
| 2468AE | 0 | On Site | Old Coal Levels | 1921 |
| 2469BS | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2470X | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2471AN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2472BX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2473AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2474AD | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2475C | 0 | On Site | Unspecified Heap | 1921 |
| 2476E | 0 | On Site | Refuse Heap | 1921 |
| 2477Y | 0 | On Site | Colliery | 1921 |
| 2478F | 0 | On Site | Refuse Heap | 1921 |
| 2479Z | 0 | On Site | Unspecified Ground Workings | 1921 |

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|---|---|---|---|---|
| 2480O | 0 | On Site | Old Coal Levels | 1921 |
| 2481AG | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2482AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2483BE | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2484AM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2485AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2486AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2487BX | 0 | On Site | Unspecified Old Level | 1921 |
| 2488AV | 0 | On Site | Old Coal Level | 1921 |
| 2489CC | 0 | On Site | Unspecified Heap | 1921 |
| 2490CB | 0 | On Site | Unspecified Pit | 1921 |
| 2491AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2492AW | 0 | On Site | Unspecified Heap | 1921 |
| 2493L | 0 | On Site | Unspecified Old Shaft | 1921 |
| 2494Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 2495S | 0 | On Site | Colliery | 1921 |
| 2496S | 0 | On Site | Refuse Heap | 1921 |
| 2497V | 0 | On Site | Colliery | 1921 |
| 2498Q | 0 | On Site | Unspecified Slant | 1921 |
| 2499L | 0 | On Site | Refuse Heap | 1921 |
| 2500Q | 0 | On Site | Unspecified Heap | 1921 |
| 2501U | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2502BD | 0 | On Site | Unspecified Pits | 1921 |
| 2503AV | 0 | On Site | Unspecified Heap | 1921 |
| 2504BT | 0 | On Site | Unspecified Heaps | 1921 |
| 2505BQ | 0 | On Site | Old Coal Level | 1921 |
| 2506BQ | 0 | On Site | Unspecified Pit | 1921 |
| 2507BP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2508BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2509BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2510DB | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2511BM | 0 | On Site | Unspecified Pit | 1921 |
| 2512BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2513BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2514CX | 0 | On Site | Old Coal Pit | 1921 |
| 2515AR | 0 | On Site | Old Coal Level | 1921 |
| 2516AR | 0 | On Site | Unspecified Ground | 1921 |

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|---|---|---|---|---|
| | | | Workings | |
| 2517AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2518BY | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2519K | 0 | On Site | Colliery | 1921 |
| 2520BI | 0 | On Site | Unspecified Old Level | 1921 |
| 2521D | 0 | On Site | Unspecified Old Level | 1921 |
| 2522H | 0 | On Site | Unspecified Drift | 1921 |
| 2523D | 0 | On Site | Unspecified Drift | 1921 |
| 2524G | 0 | On Site | Unspecified Old Levels | 1921 |
| 2525BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 2526BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 2527BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 2528D | 0 | On Site | Unspecified Old Levels | 1921 |
| 2529H | 0 | On Site | Colliery | 1921 |
| 2530E | 0 | On Site | Unspecified Drift | 1921 |
| 2531C | 0 | On Site | Unspecified Drift | 1921 |
| 2532BH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2533B | 0 | On Site | Air Shaft | 1921 |
| 2534CL | 0 | On Site | Unspecified Heap | 1921 |
| 2535B | 0 | On Site | Unspecified Heap | 1921 |
| 2536BX | 0 | On Site | Unspecified Heap | 1921 |
| 2537M | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2538M | 0 | On Site | Unspecified Heaps | 1921 |
| 2539N | 0 | On Site | Unspecified Pit | 1921 |
| 2540D | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2541G | 0 | On Site | Unspecified Heap | 1921 |
| 2542G | 0 | On Site | Unspecified Heap | 1921 |
| 2543H | 0 | On Site | Refuse Heap | 1921 |
| 2544D | 0 | On Site | Unspecified Heap | 1921 |
| 2545BJ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2546H | 0 | On Site | Unspecified Heap | 1921 |
| 2547D | 0 | On Site | Refuse Heap | 1921 |
| 2548Y | 0 | On Site | Coal Trial Shaft | 1921 |
| 2549F | 0 | On Site | Old Coal Levels | 1921 |
| 2550F | 0 | On Site | Old Coal Levels | 1921 |
| 2551F | 0 | On Site | Old Coal Levels | 1921 |
| 2552F | 0 | On Site | Old Coal Levels | 1921 |
| 2553AA | 0 | On Site | Old Coal Levels | 1921 |
| 2554W | 0 | On Site | Unspecified Heap | 1921 |
| 2555CJ | 0 | On Site | Unspecified Heap | 1921 |
| 2556BH | 0 | On Site | Unspecified Pit | 1921 |
| 2557AE | 0 | On Site | Old Coal Levels | 1921 |

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|---|---|---|---|---|
| 2558BS | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2559X | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2560AN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2561BX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2562AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2563AD | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2564C | 0 | On Site | Unspecified Heap | 1921 |
| 2565E | 0 | On Site | Refuse Heap | 1921 |
| 2566Y | 0 | On Site | Colliery | 1921 |
| 2567F | 0 | On Site | Refuse Heap | 1921 |
| 2568Z | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2569O | 0 | On Site | Old Coal Levels | 1921 |
| 2570AG | 0 | On Site | Pond | 1921 |
| 2571AG | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2572AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2573BE | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2574AM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2575AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2576AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2577BX | 0 | On Site | Unspecified Old Level | 1921 |
| 2578CJ | 0 | On Site | Ponds | 1921 |
| 2579FW | 0 | On Site | Air Shaft | 1921 |
| 2580AV | 0 | On Site | Old Coal Level | 1921 |
| 2581CC | 0 | On Site | Unspecified Heap | 1921 |
| 2582CB | 0 | On Site | Unspecified Pit | 1921 |
| 2583AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2584BA | 0 | On Site | Cuttings | 1921 |
| 2585BB | 0 | On Site | Cuttings | 1921 |
| 2586AW | 0 | On Site | Unspecified Heap | 1921 |
| 2587L | 0 | On Site | Unspecified Old Shaft | 1921 |
| 2588Q | 0 | On Site | Unspecified Old Shaft | 1921 |
| 2589S | 0 | On Site | Colliery | 1921 |
| 2590S | 0 | On Site | Refuse Heap | 1921 |
| 2591V | 0 | On Site | Colliery | 1921 |
| 2592Q | 0 | On Site | Unspecified Slant | 1921 |
| 2593L | 0 | On Site | Refuse Heap | 1921 |
| 2594Q | 0 | On Site | Unspecified Heap | 1921 |

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|---|---|---|---|---|
| 2595U | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2596BD | 0 | On Site | Unspecified Pits | 1921 |
| 2597AV | 0 | On Site | Unspecified Heap | 1921 |
| 2598BT | 0 | On Site | Unspecified Heaps | 1921 |
| 2599BQ | 0 | On Site | Old Coal Level | 1921 |
| 2600BQ | 0 | On Site | Cuttings | 1921 |
| 2601BQ | 0 | On Site | Unspecified Pit | 1921 |
| 2602BP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2603BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2604A | 0 | On Site | Cuttings | 1921 |
| 2605BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2606DB | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2607BM | 0 | On Site | Unspecified Pit | 1921 |
| 2608BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2609BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2610CX | 0 | On Site | Old Coal Pit | 1921 |
| 2611AR | 0 | On Site | Old Coal Level | 1921 |
| 2612AR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2613AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2614BY | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2615CG | 0 | On Site | Disused Colliery | 1948 |
| 2616BU | 0 | On Site | Colliery | 1903 |
| 2617CG | 0 | On Site | Colliery | 1903 |
| 2618AD | 0 | On Site | Unspecified Ground Workings | 1948 |
| 2619S | 0 | On Site | Unspecified Disused Mine | 1965 |
| 2620S | 0 | On Site | Unspecified Disused Mine | 1987 |
| 2621M | 0 | On Site | Unspecified Pit | 1948 |
| 2622M | 0 | On Site | Unspecified Old Levels | 1948 |
| 2623BX | 0 | On Site | Unspecified Old Levels | 1948 |
| 2624Z | 0 | On Site | Unspecified Heaps | 1948 |
| 2625O | 0 | On Site | Old Coal Levels | 1948 |
| 2626CK | 0 | On Site | Colliery | 1948 |
| 2627BX | 0 | On Site | Unspecified Old Level | 1903 |
| 2628BS | 0 | On Site | Unspecified Level | 1903 |
| 2629P | 0 | On Site | Unspecified Heaps | 1877 |
| 2630M | 0 | On Site | Unspecified Heaps | 1877 |
| 2631G | 0 | On Site | Unspecified Old Drift | 1877 |
| 2632AG | 0 | On Site | Coal Level | 1877 |
| 2633CJ | 0 | On Site | Pond | 1921 |

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|---|---|---|---|---|
| 2634BA | 0 | On Site | Cuttings | 1921 |
| 2635BB | 0 | On Site | Cuttings | 1921 |
| 2636FW | 0 | On Site | Air Shaft | 1921 |
| 2637V | 0 | On Site | Colliery | 1921 |
| 2638S | 0 | On Site | Colliery | 1921 |
| 2639AW | 0 | On Site | Unspecified Heap | 1921 |
| 2640Q | 0 | On Site | Old Shaft | 1921 |
| 2641AV | 0 | On Site | Old Coal Level | 1921 |
| 2642L | 0 | On Site | Old Shaft | 1921 |
| 2643AY | 0 | On Site | Refuse Heap | 1921 |
| 2644R | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2645U | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2646AX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2647BD | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2648CC | 0 | On Site | Unspecified Heap | 1921 |
| 2649AV | 0 | On Site | Unspecified Heap | 1921 |
| 2650BT | 0 | On Site | Unspecified Heap | 1921 |
| 2651BP | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2652CO | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2653BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2654BK | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2655BL | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2656BQ | 0 | On Site | Unspecified Pit | 1921 |
| 2657AR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2658AR | 0 | On Site | Old Coal Level | 1921 |
| 2659AQ | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2660CK | 0 | On Site | Unspecified Drift | 1948 |
| 2661C | 0 | On Site | Air Shaft | 1877 |
| 2662A | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2663BM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2664A | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2665A | 0 | On Site | Cuttings | 1921 |
| 2666BM | 0 | On Site | Unspecified Pit | 1921 |
| 2667BR | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2668AO | 0 | On Site | Unspecified Pit | 1921 |
| 2669BL | 0 | On Site | Unspecified Ground | 1921 |

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|---|---|---|---|---|
| | | | Workings | |
| 2670AT | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2671AG | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2672AD | 0 | On Site | Unspecified Old Quarry | 1877 |
| 2673P | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2674B | 0 | On Site | Unspecified Heap | 1921 |
| 2675B | 0 | On Site | Air Shaft | 1921 |
| 2676C | 0 | On Site | Unspecified Drift | 1921 |
| 2677D | 0 | On Site | Unspecified Old Level | 1921 |
| 2678D | 0 | On Site | Unspecified Drift | 1921 |
| 2679D | 0 | On Site | Refuse Heap | 1921 |
| 2680D | 0 | On Site | Unspecified Heap | 1921 |
| 2681H | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2682E | 0 | On Site | Unspecified Drift | 1921 |
| 2683E | 0 | On Site | Refuse Heap | 1921 |
| 2684F | 0 | On Site | Old Coal Levels | 1921 |
| 2685F | 0 | On Site | Old Coal Levels | 1921 |
| 2686F | 0 | On Site | Unspecified Heap | 1921 |
| 2687F | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2688Z | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2689AA | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2690Y | 0 | On Site | Coal Trial Shaft | 1921 |
| 2691F | 0 | On Site | Colliery | 1921 |
| 2692B | 0 | On Site | Colliery | 1921 |
| 2693G | 0 | On Site | Unspecified Old Levels | 1921 |
| 2694G | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2695D | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2696H | 0 | On Site | Refuse Heap | 1921 |
| 2697G | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2698BX | 0 | On Site | Unspecified Old Levels | 1921 |
| 2699H | 0 | On Site | Colliery | 1921 |
| 2700C | 0 | On Site | Unspecified Heap | 1921 |
| 2701AZ | 0 | On Site | Unspecified Drift | 1948 |
| 2702C | 0 | On Site | Coal Drift | 1877 |
| 2703CP | 0 | On Site | Coal Pit | 1876 |
| 2704A | 0 | On Site | Unspecified Heap | 1921 |
| 2705BX | 0 | On Site | Unspecified Old Level | 1921 |
| 2706BX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2707M | 0 | On Site | Unspecified Ground Workings | 1921 |

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|---|---|---|---|---|
| 2708N | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2709AD | 0 | On Site | Unspecified Heaps | 1921 |
| 2710BX | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2711AM | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2712AN | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2713X | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2714O | 0 | On Site | Old Coal Levels | 1921 |
| 2715O | 0 | On Site | Old Coal Levels | 1921 |
| 2716AH | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2717O | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2718AE | 0 | On Site | Unspecified Heap | 1921 |
| 2719W | 0 | On Site | Unspecified Heap | 1921 |
| 2720AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2721AF | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2722AC | 0 | On Site | Unspecified Ground Workings | 1921 |
| 2723N | 0 | On Site | Unspecified Pit | 1921 |
| 2724BU | 0 | W | Air Shaft | 1914 |
| 2725BU | 0 | W | Air Shaft | 1914 |
| 2726BU | 0 | W | Air Shaft | 1921 |
| 2727BC | 2 | S | Unspecified Pit | 1921 |
| 2728BC | 2 | S | Unspecified Pit | 1921 |
| 2729CX | 2 | S | Unspecified Ground Workings | 1877 |
| 2730CG | 2 | N | Cuttings | 1877 |
| 2731BU | 3 | W | Unspecified Drift | 1921 |
| 2732BU | 3 | W | Unspecified Heap | 1877 |
| 2733V | 3 | SE | Unspecified Disused Tip | 1987 |
| 2734CK | 3 | N | Colliery | 1921 |
| 2735BD | 3 | SE | Unspecified Ground Workings | 1921 |
| 2736CT | 3 | NE | Unspecified Old Quarry | 1900 |
| 2737CX | 4 | S | Cuttings | 1962 |
| 2738CX | 4 | S | Old Coal Level | 1903 |
| 2739BU | 5 | W | Unspecified Drift | 1914 |
| 2740BU | 5 | W | Unspecified Drift | 1914 |
| 2741CX | 5 | S | Old Coal Pit | 1900 |
| 2742CK | 5 | N | Unspecified Disused Drift | 1987 |
| 2743A | 5 | S | Unspecified Heap | 1948 |
| 2744V | 5 | SE | Unspecified Ground Workings | 1921 |

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|---|---|---|---|---|
| 2745V | 5 | SE | Unspecified Ground Workings | 1921 |
| 2746BU | 5 | W | Unspecified Drift | 1921 |
| 2747CX | 6 | S | Old Coal Level | 1900 |
| 2748BI | 7 | NW | Old Coal Level | 1903 |
| 2749BI | 7 | NW | Old Coal Level | 1877 |
| 2750CS | 7 | S | Old Level (Coal) | 1914 |
| 2751CS | 7 | S | Old Level (Coal) | 1914 |
| 2752CT | 7 | NE | Old Quarry | 1921 |
| 2753V | 8 | SE | Refuse Heap | 1948 |
| 2754CG | 8 | N | Unspecified Heap | 1921 |
| 2755CK | 8 | N | Colliery | 1921 |
| 2756CK | 8 | N | Colliery | 1921 |
| 2757CG | 8 | N | Unspecified Ground Workings | 1921 |
| 2758CT | 9 | NE | Unspecified Old Quarry | 1921 |
| 2759CZ | 9 | SE | Unspecified Ground Workings | 1876 |
| 2760CK | 9 | N | Colliery | 1914 |
| 2761CS | 9 | S | Old Coal Level | 1903 |
| 2762CS | 9 | S | Old Coal Level | 1948 |
| 2763CT | 9 | NE | Unspecified Quarry | 1962 |
| 2764CT | 10 | NE | Unspecified Old Quarry | 1921 |
| 2765CZ | 10 | SE | Old Coal Level | 1901 |
| 2766CT | 10 | NE | Unspecified Old Quarry | 1948 |
| 2767BU | 11 | W | Air Shaft | 1948 |
| 2768CQ | 11 | S | Unspecified Ground Workings | 1877 |
| 2769V | 11 | SE | Refuse Heap | 1914 |
| 2770V | 11 | SE | Refuse Heap | 1914 |
| 2771AY | 11 | N | Shale Tip | 1914 |
| 2772AY | 11 | N | Shale Tip | 1914 |
| 2773CK | 11 | N | Unspecified Drift | 1914 |
| 2774CU | 12 | NE | Cuttings | 1903 |
| 2775CU | 12 | NE | Cuttings | 1877 |
| 2776CK | 12 | N | Refuse Heap | 1965 |
| 2777CK | 12 | N | Drift | 1921 |
| 2778CK | 12 | N | Drift | 1921 |
| 2779CV | 13 | S | Unspecified Pit | 1987 |
| 2780DA | 14 | S | Unspecified Heaps | 1965 |
| 2781CV | 14 | S | Unspecified Ground Workings | 1948 |
| 2782V | 14 | SE | Refuse Heaps | 1921 |
| 2783V | 15 | SE | Refuse Heap | 1965 |
| 2784CG | 15 | N | Unspecified Heaps | 1877 |
| 2785BU | 15 | W | Air Shaft | 1921 |
| 2786CS | 15 | S | Old Coal Level | 1921 |

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|---|---|---|---|---|
| 2787CK | 16 | N | Unspecified Drift | 1921 |
| 2788CG | 17 | N | Unspecified Heap | 1948 |
| 2789DA | 17 | S | Unspecified Disused Tip | 1987 |
| 2790CX | 17 | S | Cuttings | 1921 |
| 2791BU | 17 | S | Unspecified Heap | 1921 |
| 2792BU | 18 | S | Unspecified Heap | 1903 |
| 2793CG | 19 | N | Unspecified Ground Workings | 1921 |
| 2794CG | 19 | N | Unspecified Ground Workings | 1921 |
| 2795CD | 19 | S | Unspecified Ground Workings | 1921 |
| 2796CG | 19 | N | Unspecified Ground Workings | 1914 |
| 2797CG | 19 | N | Unspecified Ground Workings | 1914 |
| 2798CY | 19 | NW | Unspecified Ground Workings | 1914 |
| 2799CX | 19 | S | Pond | 1876 |
| 2800CV | 19 | S | Unspecified Ground Workings | 1903 |
| 2801DG | 20 | S | Old Coal Level | 1901 |
| 2802CG | 20 | N | Unspecified Old Level | 1948 |
| 2803CX | 20 | S | Old Coal Pit | 1921 |
| 2804CG | 21 | N | Unspecified Pit | 1914 |
| 2805CG | 21 | N | Unspecified Pit | 1914 |
| 2806DF | 21 | NE | Pond | 1948 |
| 2807CX | 21 | S | Unspecified Pit | 1877 |
| 2808DF | 21 | NE | Pond | 1921 |
| 2809V | 22 | S | Unspecified Ground Workings | 1876 |
| 2810DG | 22 | S | Unspecified Pit | 1903 |
| 2811DG | 22 | S | Unspecified Pit | 1948 |
| 2812CG | 22 | N | Unspecified Heap | 1921 |
| 2813CG | 22 | N | Unspecified Heap | 1921 |
| 2814V | 22 | S | Unspecified Ground Workings | 1877 |
| 2815DG | 22 | SE | Refuse Heap | 1921 |
| 2816DG | 22 | SE | Refuse Heap | 1921 |
| 2817DG | 22 | S | Old Coal Level | 1921 |
| 2818DG | 22 | S | Old Coal Level | 1921 |
| 2819AT | 24 | S | Unspecified Ground Workings | 1948 |
| 2820DK | 25 | NW | Unspecified Ground Workings | 1921 |
| 2821DK | 25 | NW | Unspecified Ground Workings | 1921 |
| 2822DK | 25 | NW | Unspecified Ground Workings | 1921 |
| 2823DG | 25 | SE | Refuse Heap | 1914 |

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|---|---|---|---|---|
| 2824DG | 25 | SE | Refuse Heap | 1914 |
| 2825CX | 25 | S | Ponds | 1921 |
| 2826CX | 26 | S | Unspecified Pit | 1962 |
| 2827CX | 28 | S | Unspecified Pits | 1948 |
| 2828DG | 28 | S | Old Coal Level | 1921 |
| 2829CQ | 28 | SE | Unspecified Heap | 1900 |
| 2830CD | 29 | S | Unspecified Ground Workings | 1921 |
| 2831CD | 29 | S | Unspecified Ground Workings | 1921 |
| 2832CZ | 31 | SE | Unspecified Ground Workings | 1914 |
| 2833CZ | 31 | SE | Unspecified Ground Workings | 1914 |
| 2834AT | 31 | S | Unspecified Heap | 1948 |
| 2835V | 31 | S | Unspecified Mine | 1965 |
| 2836DD | 31 | N | Unspecified Pit | 1921 |
| 2837DA | 31 | S | Refuse Heap | 1965 |
| 2838DC | 33 | NE | Unspecified Pit | 1914 |
| 2839DG | 34 | SE | Refuse Heap | 1921 |
| 2840BU | 34 | S | Unspecified Heap | 1948 |
| 2841BU | 34 | S | Unspecified Heap | 1903 |
| 2842CD | 34 | S | Unspecified Ground Workings | 1877 |
| 2843DC | 35 | NE | Unspecified Pit | 1921 |
| 2844DC | 35 | NE | Unspecified Pit | 1921 |
| 2845DC | 35 | NE | Unspecified Pit | 1948 |
| 2846DC | 35 | NE | Unspecified Pit | 1903 |
| 2847DC | 36 | NE | Unspecified Pit | 1921 |
| 2848DK | 36 | NW | Unspecified Heaps | 1877 |
| 2849DC | 37 | NE | Unspecified Pit | 1877 |
| 2850CX | 37 | S | Old Coal Level | 1903 |
| 2851DD | 37 | N | Old Coal Pit | 1877 |
| 2852DD | 37 | N | Unspecified Pit | 1921 |
| 2853DG | 38 | S | Old Trial Drift | 1914 |
| 2854DG | 38 | S | Old Trial Drift | 1914 |
| 2855DA | 40 | S | Unspecified Old Quarries | 1903 |
| 2856DC | 41 | NE | Unspecified Old Level | 1903 |
| 2857CG | 42 | N | Unspecified Old Level | 1921 |
| 2858CS | 43 | S | Unspecified Heap | 1948 |
| 2859DB | 43 | SE | Unspecified Heap | 1965 |
| 2860DB | 43 | SE | Unspecified Heap | 1987 |
| 2861V | 43 | W | Pond | 1921 |
| 2862DK | 43 | NW | Old Coal Level | 1921 |
| 2863DK | 43 | NW | Old Coal Level | 1921 |
| 2864DD | 44 | N | Unspecified Pit | 1914 |
| 2865DD | 44 | N | Unspecified Pit | 1914 |

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|---|---|---|---|---|
| 2866DD | 44 | N | Unspecified Pit | 1948 |
| 2867CS | 44 | S | Unspecified Heap | 1921 |
| 2868CS | 44 | S | Unspecified Heap | 1921 |
| 2869CR | 44 | NW | Old Coal Level | 1914 |
| 2870DP | 45 | S | Unspecified Disused Workings | 1987 |
| 2871DD | 45 | N | Unspecified Pit | 1921 |
| 2872DD | 45 | N | Unspecified Pit | 1921 |
| 2873CS | 45 | S | Unspecified Pit | 1914 |
| 2874CS | 45 | S | Unspecified Pit | 1914 |
| 2875BD | 45 | SE | Unspecified Pit | 1948 |
| 2876CG | 45 | N | Old Level | 1921 |
| 2877V | 46 | W | Pond | 1914 |
| 2878V | 46 | W | Pond | 1914 |
| 2879AQ | 46 | NE | Unspecified Disused Level | 1977 |
| 2880V | 46 | W | Pond | 1903 |
| 2881V | 46 | W | Pond | 1877 |
| 2882V | 46 | W | Pond | 1921 |
| 2883DK | 47 | NW | Old Coal Level | 1948 |
| 2884DG | 47 | S | Unspecified Ground Workings | 1877 |
| 2885BC | 47 | S | Unspecified Heap | 1903 |
| 2886BC | 47 | S | Unspecified Heap | 1877 |
| 2887CX | 47 | S | Unspecified Pit | 1877 |
| 2888CQ | 49 | SE | Unspecified Heap | 1921 |
| 2889CQ | 49 | SE | Unspecified Heap | 1921 |
| 2890CX | 49 | S | Unspecified Ground Workings | 1962 |
| 2891V | 49 | W | Pond | 1876 |
| 2892V | 50 | W | Unspecified Ground Workings | 1901 |
| 2893V | 50 | W | Pond | 1921 |
| 2894V | 50 | W | Pond | 1901 |
| 2895CR | 50 | NW | Old Coal Level | 1921 |
| 2896DE | 51 | SW | Unspecified Ground Workings | 1876 |
| 2897AQ | 51 | NE | Old Coal Level | 1921 |
| 2898AQ | 51 | NE | Old Coal Level | 1921 |
| 2899AQ | 52 | NE | Old Coal Pit | 1921 |
| 2900CG | 52 | N | Unspecified Old Level | 1914 |
| 2901CG | 52 | N | Unspecified Old Level | 1914 |
| 2902DB | 52 | S | Unspecified Quarry | 1876 |
| 2903DF | 52 | NE | Unspecified Heap | 1877 |
| 2904DE | 53 | SW | Unspecified Ground Workings | 1877 |
| 2905DG | 53 | SE | Coal Pit | 1877 |
| 2906AQ | 53 | NE | Old Coal Level | 1921 |
| 2907DE | 53 | SW | Unspecified Old Quarry | 1901 |

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|---|---|---|---|---|
| 2908DA | 53 | S | Refuse Heap | 1948 |
| 2909DC | 53 | NE | Old Coal Level | 1877 |
| 2910DF | 53 | NE | Unspecified Heap | 1962 |
| 2911DE | 54 | SW | Unspecified Old Quarry | 1903 |
| 2912CG | 54 | N | Unspecified Old Level | 1921 |
| 2913CG | 54 | N | Unspecified Old Level | 1921 |
| 2914DG | 54 | S | Unspecified Heap | 1921 |
| 2915DF | 55 | NE | Unspecified Heap | 1921 |
| 2916DF | 55 | NE | Unspecified Heap | 1921 |
| 2917DG | 55 | S | Unspecified Ground Workings | 1921 |
| 2918DG | 55 | S | Unspecified Ground Workings | 1921 |
| 2919DF | 56 | NE | Unspecified Heap | 1948 |
| 2920DF | 56 | NE | Unspecified Heap | 1921 |
| 2921DF | 56 | NE | Unspecified Heap | 1921 |
| 2922DG | 57 | S | Unspecified Ground Workings | 1948 |
| 2923DB | 57 | S | Unspecified Ground Workings | 1965 |
| 2924DE | 57 | S | Unspecified Ground Workings | 1921 |
| 2925DE | 57 | S | Unspecified Ground Workings | 1921 |
| 2926DT | 58 | SE | Unspecified Ground Workings | 1877 |
| 2927CX | 58 | S | Old Coal Level | 1903 |
| 2928DE | 59 | S | Unspecified Ground Workings | 1914 |
| 2929DE | 59 | S | Unspecified Ground Workings | 1914 |
| 2930BU | 59 | S | Unspecified Pit | 1948 |
| 2931CS | 60 | S | Unspecified Pit | 1876 |
| 2932CK | 60 | N | Cuttings | 1877 |
| 2933DT | 60 | SE | Unspecified Ground Workings | 1914 |
| 2934DT | 60 | SE | Unspecified Ground Workings | 1914 |
| 2935DH | 61 | NW | Unspecified Heap | 1948 |
| 2936DH | 61 | NW | Unspecified Ground Workings | 1914 |
| 2937DH | 61 | NW | Unspecified Ground Workings | 1914 |
| 2938DH | 61 | NW | Unspecified Heaps | 1921 |
| 2939DE | 63 | S | Unspecified Ground Workings | 1921 |
| 2940DH | 64 | NW | Unspecified Heaps | 1921 |
| 2941DH | 64 | NW | Unspecified Heaps | 1921 |
| 2942BC | 64 | S | Unspecified Ground Workings | 1921 |
| 2943BC | 64 | S | Unspecified Ground | 1921 |

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|---|---|---|---|---|
| | | | Workings | |
| 2944CS | 64 | S | Unspecified Pit | 1877 |
| 2945DB | 65 | S | Unspecified Old Quarries | 1903 |
| 2946CD | 66 | S | Unspecified Heap | 1948 |
| 2947DG | 66 | S | Unspecified Pit | 1903 |
| 2948DT | 66 | SE | Unspecified Ground Workings | 1921 |
| 2949DG | 66 | S | Unspecified Pit | 1901 |
| 2950DE | 67 | SW | Unspecified Ground Workings | 1921 |
| 2951DH | 68 | NW | Unspecified Heap | 1877 |
| 2952DT | 70 | SW | Unspecified Ground Workings | 1948 |
| 2953CD | 71 | S | Unspecified Ground Workings | 1965 |
| 2954CD | 71 | S | Unspecified Ground Workings | 1987 |
| 2955DG | 71 | S | Unspecified Heap | 1876 |
| 2956DG | 72 | S | Unspecified Heap | 1877 |
| 2957DE | 72 | S | Unspecified Heap | 1877 |
| 2958DT | 72 | SE | Unspecified Ground Workings | 1921 |
| 2959BC | 73 | S | Unspecified Heap | 1948 |
| 2960DG | 73 | S | Unspecified Pit | 1921 |
| 2961DG | 73 | S | Unspecified Pit | 1921 |
| 2962DI | 74 | NE | Unspecified Ground Workings | 1876 |
| 2963DG | 74 | S | Unspecified Pit | 1948 |
| 2964DI | 74 | NE | Unspecified Ground Workings | 1962 |
| 2965DG | 75 | S | Unspecified Pit | 1914 |
| 2966DG | 75 | S | Unspecified Pit | 1914 |
| 2967DK | 77 | NW | Unspecified Ground Workings | 1914 |
| 2968DD | 78 | N | Unspecified Pit | 1921 |
| 2969DI | 78 | NE | Unspecified Ground Workings | 1921 |
| 2970DI | 78 | NE | Unspecified Ground Workings | 1921 |
| 2971DG | 78 | S | Unspecified Heap | 1921 |
| 2972DE | 79 | S | Unspecified Pit | 1948 |
| 2973DK | 79 | NW | Unspecified Ground Workings | 1965 |
| 2974BC | 80 | S | Unspecified Heap | 1948 |
| 2975DJ | 80 | SE | Old Shafts (Coal) | 1914 |
| 2976DJ | 80 | SE | Old Shafts (Coal) | 1914 |
| 2977DK | 80 | NW | Unspecified Ground Workings | 1921 |
| 2978DK | 80 | NW | Unspecified Ground Workings | 1921 |
| 2979DJ | 81 | SE | Old Coal Shafts | 1921 |

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|---|---|---|---|---|
| 2980DK | 81 | NW | Unspecified Ground Workings | 1921 |
| 2981DH | 82 | NW | Unspecified Pit | 1877 |
| 2982DO | 82 | NE | Unspecified Pit | 1877 |
| 2983DJ | 82 | SE | Old Clay Pit | 1877 |
| 2984DD | 83 | N | Old Coal Shaft | 1921 |
| 2985DI | 83 | NE | Unspecified Ground Workings | 1877 |
| 2986DJ | 83 | SE | Unspecified Old Shafts | 1903 |
| 2987DJ | 83 | SE | Unspecified Pit | 1948 |
| 2988FV | 83 | NE | Cuttings | 1877 |
| 2989DJ | 84 | SE | Old Clay Pit | 1901 |
| 2990DD | 84 | N | Disused Old Coal Pit | 1877 |
| 2991DD | 84 | N | Old Coal Pit | 1901 |
| 2992DG | 84 | S | Unspecified Pit | 1921 |
| 2993DD | 85 | N | Unspecified Heap | 1921 |
| 2994DD | 85 | N | Unspecified Old Shaft | 1903 |
| 2995DG | 85 | S | Old Trial Drift | 1948 |
| 2996DG | 86 | S | Old Trial Drift | 1921 |
| 2997DG | 86 | S | Old Trial Drift | 1921 |
| 2998DG | 86 | S | Unspecified Drift | 1876 |
| 2999DE | 86 | SW | Refuse Heap | 1965 |
| 3000BC | 86 | S | Unspecified Ground Workings | 1921 |
| 3001DK | 87 | NW | Unspecified Heaps | 1903 |
| 3002DD | 88 | N | Old Coal Shaft | 1921 |
| 3003DI | 88 | NE | Unspecified Ground Workings | 1948 |
| 3004DI | 88 | NE | Unspecified Ground Workings | 1903 |
| 3005DI | 89 | NE | Unspecified Ground Workings | 1900 |
| 3006DG | 90 | S | Unspecified Drift | 1877 |
| 3007DO | 90 | NE | Ponds | 1977 |
| 3008DD | 91 | N | Unspecified Pit | 1914 |
| 3009DD | 91 | N | Unspecified Pit | 1914 |
| 3010DG | 91 | S | Old Trial Drift | 1921 |
| 3011DD | 91 | N | Unspecified Pit | 1948 |
| 3012DD | 91 | N | Unspecified Pit | 1921 |
| 3013DD | 91 | N | Unspecified Pit | 1921 |
| 3014DJ | 91 | SE | Unspecified Pit | 1921 |
| 3015DL | 93 | N | Old Coal Shaft | 1921 |
| 3016DI | 93 | NE | Unspecified Ground Workings | 1921 |
| 3017DL | 94 | N | Old Coal Shaft | 1948 |
| 3018DL | 94 | N | Old Shafts (Coal) | 1914 |
| 3019DL | 94 | N | Old Shafts (Coal) | 1914 |
| 3020DJ | 95 | SE | Unspecified Pit | 1877 |

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|---|---|---|---|---|
| 3021DJ | 95 | SE | Unspecified Pit | 1948 |
| 3022DM | 95 | SE | Cuttings | 1921 |
| 3023BD | 96 | SE | Cuttings | 1877 |
| 3024DI | 100 | NE | Unspecified Ground Workings | 1921 |
| 3025DO | 100 | NE | Unspecified Pit | 1948 |
| 3026DM | 101 | SE | Cuttings | 1914 |
| 3027DM | 101 | SE | Cuttings | 1914 |
| 3028DT | 101 | W | Unspecified Ground Workings | 1876 |
| 3029DM | 102 | SE | Cuttings | 1921 |
| 3030DN | 102 | NW | Old Ironstone Levels | 1914 |
| 3031DM | 102 | SE | Cuttings | 1948 |
| 3032DN | 103 | NW | Old Ironstone Levels | 1921 |
| 3033BD | 104 | SE | Unspecified Pit | 1965 |
| 3034DD | 104 | N | Old Coal Shafts | 1921 |
| 3035EG | 106 | NW | Unspecified Old Levels | 1903 |
| 3036EG | 106 | NW | Old Ironstone Levels | 1948 |
| 3037DO | 106 | NE | Unspecified Ground Workings | 1921 |
| 3038DN | 106 | NW | Old Ironstone Levels | 1921 |
| 3039DO | 106 | NE | Unspecified Heap | 1903 |
| 3040DO | 106 | NE | Unspecified Ground Workings | 1921 |
| 3041DO | 107 | NE | Unspecified Ground Workings | 1877 |
| 3042DN | 107 | NW | Unspecified Pit | 1965 |
| 3043CZ | 108 | S | Unspecified Heap | 1965 |
| 3044DD | 108 | N | Old Coal Shafts | 1921 |
| 3045DO | 108 | NE | Unspecified Heap | 1900 |
| 3046GD | 109 | NW | Old Gravel Pit | 1877 |
| 3047DQ | 109 | N | Unspecified Heap | 1903 |
| 3048BD | 109 | SE | Cuttings | 1921 |
| 3049EG | 109 | NW | Old Ironstone Level | 1877 |
| 3050DO | 110 | NE | Unspecified Heap | 1948 |
| 3051DO | 112 | NE | Unspecified Ground Workings | 1876 |
| 3052DV | 112 | NW | Unspecified Drifts | 1948 |
| 3053CZ | 113 | S | Unspecified Ground Workings | 1965 |
| 3054CZ | 113 | S | Unspecified Ground Workings | 1987 |
| 3055DS | 113 | S | Unspecified Ground Workings | 1876 |
| 3056DD | 114 | N | Old Coal Pit | 1901 |
| 3057DJ | 114 | SE | Unspecified Pit | 1948 |
| 3058DJ | 114 | SE | Old Shafts (Coal) | 1914 |
| 3059DJ | 114 | SE | Old Shafts (Coal) | 1914 |
| 3060DJ | 114 | SE | Unspecified Pit | 1877 |

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|---|---|---|---|---|
| 3061DD | 114 | N | Old Coal Shafts | 1948 |
| 3062DD | 114 | N | Unspecified Old Shafts | 1903 |
| 3063DP | 115 | S | Unspecified Ground Workings | 1914 |
| 3064DP | 115 | S | Unspecified Ground Workings | 1914 |
| 3065DQ | 115 | N | Unspecified Heap | 1877 |
| 3066DD | 115 | N | Old Coal Shafts | 1921 |
| 3067GD | 120 | NW | Cuttings | 1877 |
| 3068GE | 120 | S | Unspecified Ground Workings | 1876 |
| 3069GE | 122 | S | Unspecified Heaps | 1876 |
| 3070DJ | 123 | N | Cuttings | 1877 |
| 3071DP | 124 | S | Unspecified Pit | 1965 |
| 3072BD | 124 | SE | Unspecified Pit | 1921 |
| 3073DJ | 125 | N | Old Coal Shafts | 1921 |
| 3074DJ | 126 | N | Old Coal Shafts | 1921 |
| 3075DS | 127 | S | Unspecified Heap | 1876 |
| 3076DP | 127 | S | Unspecified Old Quarry | 1901 |
| 3077GF | 128 | N | Cuttings | 1903 |
| 3078DP | 129 | S | Unspecified Pit | 1903 |
| 3079DY | 129 | NW | Colliery | 1921 |
| 3080ED | 130 | S | Air Shaft | 1877 |
| 3081DE | 130 | SW | Old Coal Pit | 1921 |
| 3082DE | 130 | SW | Old Coal Pit | 1921 |
| 3083DE | 130 | SW | Old Coal Pit | 1914 |
| 3084DE | 130 | SW | Old Coal Pit | 1914 |
| 3085DP | 131 | S | Unspecified Ground Workings | 1914 |
| 3086DP | 131 | S | Unspecified Ground Workings | 1914 |
| 3087DO | 132 | NE | Unspecified Heap | 1900 |
| 3088DE | 132 | SW | Old Coal Pit | 1921 |
| 3089DJ | 132 | N | Old Shafts (Coal) | 1914 |
| 3090DJ | 132 | N | Old Shafts (Coal) | 1914 |
| 3091DJ | 132 | N | Old Coal Shafts | 1948 |
| 3092DE | 133 | SW | Old Coal Pit | 1921 |
| 3093DE | 134 | SW | Old Coal Pit | 1948 |
| 3094DE | 134 | SW | Old Coal Pit | 1903 |
| 3095EG | 134 | NW | Old Ironstone Levels | 1921 |
| 3096DE | 135 | SW | Old Coal Pit | 1901 |
| 3097DJ | 135 | N | Old Coal Shafts | 1921 |
| 3098DP | 136 | S | Air Shaft | 1876 |
| 3099EG | 136 | NW | Unspecified Heap | 1965 |
| 3100DG | 137 | S | Air Shaft | 1876 |
| 3101EG | 138 | NW | Old Ironstone Levels | 1921 |
| 3102DJ | 139 | SE | Unspecified Pit | 1877 |

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|---|---|---|---|---|
| 3103DP | 140 | S | Air Shaft | 1877 |
| 3104DU | 141 | NE | Unspecified Heap | 1914 |
| 3105DU | 142 | NE | Unspecified Ground Workings | 1921 |
| 3106DU | 142 | NE | Unspecified Ground Workings | 1921 |
| 3107GE | 144 | S | Unspecified Pit | 1948 |
| 3108GE | 145 | S | Unspecified Ground Workings | 1921 |
| 3109DU | 145 | NE | Unspecified Ground Workings | 1921 |
| 3110DV | 145 | NW | Unspecified Pit | 1965 |
| 3111DU | 145 | NE | Unspecified Pit | 1903 |
| 3112DU | 145 | NE | Old Ironstone Quarry | 1877 |
| 3113DE | 145 | SW | Old Coal Level | 1901 |
| 3114DW | 146 | NW | Unspecified Ground Workings | 1903 |
| 3115DW | 146 | NW | Unspecified Ground Workings | 1921 |
| 3116GE | 146 | S | Ponds | 1877 |
| 3117DU | 146 | NE | Unspecified Pit | 1948 |
| 3118DW | 146 | NW | Unspecified Ground Workings | 1900 |
| 3119GE | 147 | S | Unspecified Pit | 1921 |
| 3120GE | 147 | S | Unspecified Pit | 1921 |
| 3121DX | 147 | N | Cuttings | 1903 |
| 3122DW | 149 | NW | Unspecified Ground Workings | 1948 |
| 3123DU | 149 | NE | Pond | 1987 |
| 3124DU | 149 | NE | Pond | 1965 |
| 3125DW | 150 | NW | Unspecified Ground Workings | 1921 |
| 3126DW | 150 | NW | Unspecified Ground Workings | 1921 |
| 3127DW | 150 | NW | Unspecified Ground Workings | 1921 |
| 3128DU | 152 | NE | Unspecified Heap | 1948 |
| 3129GE | 154 | S | Unspecified Ground Workings | 1876 |
| 3130DJ | 154 | N | Unspecified Pit | 1877 |
| 3131GE | 154 | S | Old Coal Level | 1903 |
| 3132EC | 156 | NW | Colliery | 1914 |
| 3133DW | 156 | NW | Unspecified Ground Workings | 1877 |
| 3134EI | 157 | S | Refuse Heap | 1965 |
| 3135DU | 158 | NE | Unspecified Pit | 1965 |
| 3136EC | 158 | NW | Colliery | 1921 |
| 3137EC | 158 | NW | Colliery | 1921 |
| 3138DZ | 158 | SE | Cuttings | 1877 |
| 3139DJ | 158 | N | Old Coal Shafts | 1948 |

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|---|---|---|---|---|
| 3140DU | 159 | NE | Unspecified Pit | 1987 |
| 3141DZ | 164 | SE | Cuttings | 1876 |
| 3142GE | 164 | S | Old Coal Level | 1900 |
| 3143GE | 165 | S | Old Coal Level | 1903 |
| 3144EC | 169 | NW | Unspecified Drift | 1914 |
| 3145EG | 169 | NW | Old Ironstone Levels | 1921 |
| 3146DE | 172 | SW | Unspecified Pit | 1921 |
| 3147DE | 172 | SW | Unspecified Pit | 1921 |
| 3148GG | 172 | S | Refuse Heap | 1948 |
| 3149EG | 172 | NW | Old Ironstone Levels | 1921 |
| 3150EG | 172 | NW | Unspecified Old Levels | 1903 |
| 3151EG | 172 | NW | Old Ironstone Levels | 1948 |
| 3152DE | 173 | SW | Unspecified Pit | 1948 |
| 3153EC | 173 | NW | Unspecified Drifts | 1921 |
| 3154DE | 173 | SW | Unspecified Pit | 1921 |
| 3155EG | 176 | NW | Old Ironstone Level | 1877 |
| 3156EA | 176 | SE | Old Coal Level | 1903 |
| 3157EC | 176 | NW | Unspecified Ground Workings | 1965 |
| 3158EE | 179 | NW | Ponds | 1948 |
| 3159EE | 179 | NW | Ponds | 1903 |
| 3160EE | 179 | NW | Ponds | 1965 |
| 3161EE | 179 | NW | Ponds | 1987 |
| 3162EA | 180 | SE | Unspecified Heap | 1921 |
| 3163EA | 180 | SE | Unspecified Heap | 1921 |
| 3164EB | 180 | S | Unspecified Ground Workings | 1965 |
| 3165EB | 180 | S | Unspecified Ground Workings | 1987 |
| 3166EA | 180 | SE | Old Level (Coal) | 1914 |
| 3167EA | 180 | SE | Old Level (Coal) | 1914 |
| 3168EA | 180 | SE | Unspecified Heap | 1876 |
| 3169EA | 181 | SE | Unspecified Heap | 1948 |
| 3170EA | 181 | SE | Unspecified Heap | 1877 |
| 3171EA | 181 | SE | Old Coal Level | 1921 |
| 3172EA | 181 | SE | Burial Ground | 1876 |
| 3173EE | 183 | NW | Ponds | 1921 |
| 3174DK | 183 | NW | Unspecified Heap | 1965 |
| 3175DK | 183 | NW | Unspecified Heap | 1987 |
| 3176EA | 183 | SE | Burial Ground | 1877 |
| 3177DE | 183 | SW | Old Coal Level | 1921 |
| 3178DE | 183 | SW | Old Coal Level | 1921 |
| 3179DE | 184 | SW | Old Coal Level | 1948 |
| 3180DE | 186 | SW | Old Coal Level | 1921 |
| 3181DY | 189 | NW | Unspecified Ground Workings | 1914 |
| 3182DY | 189 | NW | Unspecified Ground | 1921 |

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|---|---|---|---|---|
| | | | Workings | |
| 3183DY | 189 | NW | Unspecified Ground Workings | 1921 |
| 3184DW | 189 | W | Unspecified Heap | 1921 |
| 3185EE | 189 | NW | Ponds | 1877 |
| 3186DY | 191 | NW | Unspecified Pit | 1948 |
| 3187DY | 191 | NW | Unspecified Pit | 1903 |
| 3188EA | 191 | SE | Unspecified Heap | 1921 |
| 3189DY | 191 | NW | Unspecified Ground Workings | 1965 |
| 3190DW | 191 | W | Unspecified Heap | 1948 |
| 3191EG | 192 | NW | Old Ironstone Levels | 1914 |
| 3192EC | 192 | NW | Colliery | 1903 |
| 3193EG | 193 | NW | Old Ironstone Levels | 1921 |
| 3194DY | 193 | NW | Unspecified Old Quarry | 1877 |
| 3195DY | 193 | NW | Unspecified Ground Workings | 1921 |
| 3196EC | 194 | NW | Refuse Heap | 1921 |
| 3197EC | 194 | NW | Refuse Heaps | 1921 |
| 3198EC | 194 | NW | Refuse Heaps | 1921 |
| 3199GF | 194 | N | Unspecified Old Quarries | 1877 |
| 3200DY | 195 | NW | Unspecified Pit | 1965 |
| 3201EC | 197 | NW | Unspecified Drifts | 1948 |
| 3202ED | 197 | S | Unspecified Heap | 1876 |
| 3203EG | 197 | NW | Old Ironstone Levels | 1921 |
| 3204EG | 199 | NW | Unspecified Heap | 1965 |
| 3205EC | 200 | NW | Unspecified Drift | 1914 |
| 3206ED | 200 | S | Unspecified Heap | 1877 |
| 3207EC | 201 | NW | Unspecified Drifts | 1921 |
| 3208EE | 203 | NW | Unspecified Pit | 1900 |
| 3209EE | 205 | NW | Unspecified Pit | 1877 |
| 3210EC | 206 | NW | Unspecified Drifts | 1921 |
| 3211EE | 207 | NW | Pond | 1921 |
| 3212EF | 207 | S | Unspecified Heap | 1876 |
| 3213DY | 208 | NW | Unspecified Ground Workings | 1948 |
| 3214EF | 210 | S | Unspecified Pit | 1914 |
| 3215EF | 210 | S | Unspecified Pit | 1914 |
| 3216EF | 210 | S | Unspecified Heap | 1921 |
| 3217EF | 210 | S | Unspecified Heap | 1921 |
| 3218EF | 210 | S | Unspecified Heap | 1921 |
| 3219EE | 211 | NW | Pond | 1921 |
| 3220EF | 211 | S | Unspecified Heap | 1948 |
| 3221EF | 211 | S | Unspecified Heap | 1877 |
| 3222DY | 213 | NW | Unspecified Ground Workings | 1965 |
| 3223EG | 213 | NW | Old Ironstone Levels | 1914 |

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|---|---|---|---|---|
| 3224EG | 213 | NW | Unspecified Ground Workings | 1921 |
| 3225EG | 213 | NW | Unspecified Ground Workings | 1921 |
| 3226EG | 218 | NW | Old Ironstone Levels | 1921 |
| 3227CW | 219 | NE | Unspecified Pit | 1903 |
| 3228EF | 219 | S | Unspecified Heap | 1921 |
| 3229EG | 220 | NW | Unspecified Heaps | 1903 |
| 3230EG | 220 | NW | Old Ironstone Levels | 1948 |
| 3231EG | 221 | NW | Unspecified Pit | 1965 |
| 3232EW | 222 | NW | Unspecified Old Level | 1903 |
| 3233EG | 222 | NW | Old Ironstone Level | 1877 |
| 3234EC | 227 | NW | Unspecified Drifts | 1921 |
| 3235EH | 227 | S | Cemetery | 1948 |
| 3236EH | 229 | S | Cemetery | 1964 |
| 3237EH | 229 | S | Cemetery | 1980 |
| 3238EH | 229 | S | Cemetery | 1981 |
| 3239ET | 232 | S | Reservoir | 1948 |
| 3240EC | 236 | NW | Unspecified Heap | 1921 |
| 3241EC | 236 | NW | Unspecified Heap | 1921 |
| 3242EC | 236 | NW | Unspecified Ground Workings | 1914 |
| 3243EG | 237 | NW | Unspecified Ground Workings | 1921 |
| 3244EF | 238 | S | Unspecified Pits | 1876 |
| 3245EC | 238 | NW | Unspecified Ground Workings | 1921 |
| 3246EF | 238 | S | Unspecified Pit | 1988 |
| 3247EF | 238 | S | Unspecified Pit | 1964 |
| 3248EF | 239 | SE | Unspecified Pit | 1903 |
| 3249EF | 239 | SE | Unspecified Pit | 1877 |
| 3250EF | 239 | SE | Unspecified Pit | 1921 |
| 3251EF | 240 | SE | Unspecified Old Quarry | 1901 |
| 3252EF | 240 | SE | Unspecified Ground Workings | 1921 |
| 3253EF | 240 | SE | Unspecified Ground Workings | 1921 |
| 3254EF | 240 | S | Unspecified Ground Workings | 1914 |
| 3255EF | 240 | S | Unspecified Ground Workings | 1914 |
| 3256EF | 240 | S | Unspecified Ground Workings | 1948 |
| 3257EC | 240 | NW | Unspecified Ground Workings | 1965 |
| 3258EJ | 242 | S | Cuttings | 1948 |
| 3259EJ | 242 | S | Cuttings | 1903 |
| 3260EJ | 242 | S | Cuttings | 1877 |
| 3261EJ | 243 | S | Cuttings | 1914 |
| 3262EJ | 243 | S | Cuttings | 1914 |

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|---|---|---|---|---|
| 3263EJ | 243 | S | Cuttings | 1901 |
| 3264EJ | 245 | S | Cuttings | 1921 |
| 3265EF | 245 | SE | Unspecified Ground Workings | 1988 |
| 3266EF | 245 | SE | Unspecified Ground Workings | 1964 |
| 3267EC | 246 | NW | Unspecified Ground Workings | 1948 |
| 3268EF | 247 | SE | Unspecified Pit | 1877 |
| 3269EG | 248 | NW | Unspecified Heap | 1965 |
| 3270EJ | 249 | S | Cuttings | 1921 |
| 3271ER | 249 | NE | Cuttings | 1877 |
| 3272EF | 249 | S | Unspecified Ground Workings | 1921 |
| 3273EJ | 250 | S | Cuttings | 1921 |
| 3274EL | 252 | NW | Brick Works | 1914 |
| 3275EL | 252 | NW | Brick Works | 1914 |
| 3276EW | 268 | NW | Unspecified Old Quarry | 1877 |
| 3277ED | 269 | S | Old Coal Drift | 1921 |
| 3278EW | 269 | NW | Old Ironstone Level | 1914 |
| 3279ED | 270 | S | Old Coal Drift | 1921 |
| 3280ED | 270 | S | Old Coal Drift | 1921 |
| 3281EW | 270 | NW | Old Ironstone Level | 1921 |
| 3282EW | 271 | NW | Unspecified Pit | 1965 |
| 3283ED | 271 | S | Old Coal Drift | 1948 |
| 3284ED | 272 | S | Old Coal Drift | 1914 |
| 3285ED | 272 | S | Old Coal Drift | 1914 |
| 3286EW | 272 | NW | Old Ironstone Level | 1948 |
| 3287EW | 275 | NW | Old Ironstone Level | 1921 |
| 3288EM | 276 | N | Unspecified Pit | 1903 |
| 3289EW | 280 | NW | Unspecified Old Level | 1903 |
| 3290ED | 283 | S | Old Coal Drift | 1921 |
| 3291ET | 283 | S | Reservoir | 1914 |
| 3292ET | 283 | S | Reservoir | 1914 |
| 3293ET | 284 | S | Reservoir | 1921 |
| 3294EM | 286 | N | Unspecified Old Quarry | 1877 |
| 3295EJ | 287 | S | Unspecified Ground Workings | 1914 |
| 3296EJ | 287 | S | Unspecified Ground Workings | 1914 |
| 3297EJ | 288 | S | Unspecified Heap | 1921 |
| 3298EJ | 288 | S | Unspecified Heap | 1921 |
| 3299EJ | 289 | S | Unspecified Heap | 1948 |
| 3300EJ | 290 | S | Unspecified Heap | 1921 |
| 3301EZ | 290 | NE | Old Ironstone Level | 1948 |
| 3302EN | 291 | S | Refuse Heaps | 1988 |
| 3303EN | 291 | S | Refuse Heaps | 1964 |
| 3304EO | 293 | NW | Unspecified Old Quarry | 1903 |

| | | | | |
|---|---|---|---|---|
| 3305EO | 293 | NW | Unspecified Old Quarry | 1948 |
| 3306ET | 294 | SE | Old Coal Drift | 1901 |
| 3307ET | 295 | S | Air Shaft | 1876 |
| 3308ED | 297 | SE | Unspecified Ground Workings | 1914 |
| 3309ED | 297 | SE | Unspecified Ground Workings | 1914 |
| 3310EZ | 298 | NE | Old Ironstone Level | 1921 |
| 3311ET | 298 | S | Air Shaft | 1877 |
| 3312EQ | 302 | S | Refuse Heap | 1988 |
| 3313EQ | 302 | S | Refuse Heap | 1964 |
| 3314FB | 302 | NE | Cuttings | 1914 |
| 3315FB | 304 | NE | Cuttings | 1948 |
| 3316FB | 304 | NE | Cuttings | 1903 |
| 3317FB | 304 | NE | Cuttings | 1877 |
| 3318ES | 306 | S | Refuse Heap | 1964 |
| 3319ES | 306 | S | Refuse Heap | 1988 |
| 3320GH | 307 | N | Unspecified Pit | 1877 |
| 3321EU | 308 | NW | Old Ironstone Level | 1948 |
| 3322ET | 310 | S | Unspecified Old Quarries | 1901 |
| 3323EP | 310 | N | Mill Pond | 1903 |
| 3324EP | 310 | N | Mill Pond | 1877 |
| 3325ES | 312 | S | Refuse Heap | 1988 |
| 3326ES | 312 | S | Refuse Heap | 1964 |
| 3327EC | 313 | NW | Unspecified Heap | 1903 |
| 3328EJ | 313 | S | Unspecified Pit | 1877 |
| 3329ET | 313 | S | Unspecified Pit | 1914 |
| 3330ET | 313 | S | Unspecified Pit | 1914 |
| 3331ET | 315 | S | Unspecified Heap | 1948 |
| 3332ET | 315 | S | Unspecified Ground Workings | 1921 |
| 3333ET | 315 | S | Unspecified Ground Workings | 1921 |
| 3334ET | 315 | S | Unspecified Ground Workings | 1921 |
| 3335ET | 315 | SE | Unspecified Heaps | 1876 |
| 3336ET | 315 | S | Unspecified Heap | 1903 |
| 3337ET | 316 | S | Unspecified Ground Workings | 1876 |
| 3338ET | 317 | SE | Unspecified Heap | 1903 |
| 3339ET | 318 | SE | Unspecified Heap | 1948 |
| 3340ET | 318 | S | Unspecified Heap | 1988 |
| 3341ET | 318 | S | Unspecified Heap | 1964 |
| 3342EU | 318 | NW | Unspecified Ground Workings | 1914 |
| 3343EU | 318 | NW | Unspecified Ground Workings | 1914 |
| 3344ET | 319 | S | Unspecified Ground Workings | 1877 |

| | | | | |
|---|---|---|---|---|
| 3345EG | 319 | NW | Unspecified Ground Workings | 1914 |
| 3346ET | 319 | S | Old Coal Drift | 1903 |
| 3347EG | 320 | NW | Unspecified Pit | 1921 |
| 3348EG | 320 | NW | Unspecified Pit | 1921 |
| 3349ET | 322 | S | Unspecified Ground Workings | 1921 |
| 3350EG | 322 | NW | Unspecified Pit | 1921 |
| 3351EG | 323 | NW | Unspecified Pit | 1903 |
| 3352EG | 323 | NW | Unspecified Pit | 1948 |
| 3353EU | 324 | NW | Unspecified Pit | 1921 |
| 3354EU | 324 | NW | Unspecified Pit | 1921 |
| 3355ET | 324 | SE | Reservoir | 1921 |
| 3356EZ | 325 | NE | Old Ironstone Level | 1877 |
| 3357EU | 325 | NW | Old Ironstone Level | 1914 |
| 3358EU | 325 | NW | Old Ironstone Level | 1914 |
| 3359EU | 325 | NW | Unspecified Pit | 1903 |
| 3360EU | 325 | NW | Unspecified Pit | 1948 |
| 3361EU | 326 | NW | Unspecified Pit | 1921 |
| 3362EU | 326 | NW | Disused Old Ironstone Level | 1877 |
| 3363EU | 326 | NW | Unspecified Pit | 1901 |
| 3364EG | 329 | NW | Unspecified Pit | 1965 |
| 3365EV | 334 | NE | Unspecified Heap | 1921 |
| 3366EV | 334 | NE | Unspecified Heap | 1921 |
| 3367EW | 334 | NW | Unspecified Ground Workings | 1914 |
| 3368EW | 334 | NW | Unspecified Ground Workings | 1921 |
| 3369EW | 334 | NW | Unspecified Ground Workings | 1921 |
| 3370EV | 335 | NE | Unspecified Heap | 1914 |
| 3371FB | 335 | NE | Cuttings | 1877 |
| 3372ET | 336 | S | Unspecified Pit | 1948 |
| 3373EV | 336 | NE | Unspecified Ground Workings | 1921 |
| 3374EY | 337 | S | Unspecified Heap | 1877 |
| 3375EO | 338 | NW | Unspecified Old Quarry | 1914 |
| 3376ET | 338 | S | Unspecified Pit | 1903 |
| 3377EV | 339 | NE | Unspecified Heap | 1948 |
| 3378EV | 339 | NE | Unspecified Heap | 1903 |
| 3379EV | 339 | NE | Old Ironstone Quarry | 1877 |
| 3380GI | 339 | NW | Unspecified Old Quarry | 1921 |
| 3381EW | 339 | NW | Unspecified Ground Workings | 1948 |
| 3382EW | 340 | NW | Unspecified Old Quarry | 1877 |
| 3383EO | 340 | NW | Unspecified Old Quarry | 1921 |
| 3384EQ | 340 | S | Unspecified Pit | 1988 |

| | | | | |
|---|---|---|---|---|
| 3385EQ | 340 | S | Unspecified Pit | 1964 |
| 3386EW | 341 | NW | Unspecified Ground Workings | 1903 |
| 3387EW | 343 | NW | Unspecified Heap | 1965 |
| 3388EY | 343 | S | Air Shaft | 1876 |
| 3389EO | 343 | NW | Colliery | 1877 |
| 3390EY | 345 | S | Air Shaft | 1877 |
| 3391EV | 347 | NE | Unspecified Pit | 1921 |
| 3392EV | 347 | NE | Unspecified Pit | 1921 |
| 3393EO | 348 | NW | Unspecified Quarry | 1965 |
| 3394EV | 349 | NE | Unspecified Pit | 1948 |
| 3395EV | 349 | NE | Unspecified Pit | 1903 |
| 3396EV | 349 | NE | Unidentified Pit | 1914 |
| 3397EQ | 350 | S | Unspecified Old Quarries | 1901 |
| 3398EX | 352 | S | Unspecified Ground Workings | 1876 |
| 3399EQ | 353 | S | Unspecified Pit | 1914 |
| 3400EQ | 353 | S | Unspecified Pit | 1914 |
| 3401EQ | 353 | S | Unspecified Pits | 1921 |
| 3402EQ | 353 | S | Unspecified Pits | 1921 |
| 3403EQ | 353 | S | Unspecified Pits | 1921 |
| 3404EV | 353 | NE | Unspecified Pit | 1877 |
| 3405EQ | 353 | S | Unspecified Heap | 1948 |
| 3406EQ | 353 | S | Unspecified Heap | 1903 |
| 3407EU | 354 | NW | Old Ironstone Level | 1921 |
| 3408EX | 354 | S | Unspecified Ground Workings | 1921 |
| 3409EQ | 354 | S | Unspecified Ground Workings | 1877 |
| 3410EX | 355 | S | Unspecified Ground Workings | 1914 |
| 3411EX | 355 | S | Unspecified Ground Workings | 1914 |
| 3412EQ | 355 | S | Unspecified Heaps | 1876 |
| 3413EX | 355 | S | Old Coal Level | 1901 |
| 3414EX | 355 | S | Unspecified Ground Workings | 1948 |
| 3415EZ | 355 | NE | Unspecified Disused Level | 1987 |
| 3416EX | 356 | S | Unspecified Ground Workings | 1903 |
| 3417EU | 356 | NW | Unspecified Old Level | 1903 |
| 3418EX | 356 | S | Unspecified Ground Workings | 1921 |
| 3419EX | 356 | S | Unspecified Ground Workings | 1921 |
| 3420EX | 357 | S | Unspecified Ground Workings | 1877 |
| 3421EU | 357 | NW | Old Ironstone Level | 1921 |
| 3422EU | 358 | NW | Unspecified Ground Workings | 1914 |

| | | | | |
|---|---|---|---|---|
| 3423EU | 358 | NW | Unspecified Ground Workings | 1914 |
| 3424EU | 358 | NW | Disused Old Ironstone Level | 1901 |
| 3425EU | 359 | NW | Old Ironstone Level | 1921 |
| 3426GJ | 361 | W | Unspecified Disused Shaft | 1965 |
| 3427EU | 361 | NW | Unspecified Pit | 1948 |
| 3428EX | 361 | S | Unspecified Heap | 1988 |
| 3429EX | 361 | S | Unspecified Heap | 1964 |
| 3430FA | 362 | W | Old Ironstone Shaft | 1921 |
| 3431EQ | 362 | S | Unspecified Ground Workings | 1921 |
| 3432EU | 362 | NW | Unspecified Pit | 1965 |
| 3433EU | 362 | NW | Unspecified Pit | 1921 |
| 3434FA | 363 | W | Old Ironstone Shaft | 1921 |
| 3435FA | 364 | W | Old Ironstone Shaft | 1921 |
| 3436EZ | 364 | NE | Old Ironstone Level | 1914 |
| 3437FA | 364 | W | Old Ironstone Level | 1914 |
| 3438FA | 364 | W | Old Ironstone Level | 1914 |
| 3439FA | 366 | W | Old Ironstone Pit | 1901 |
| 3440EZ | 366 | NE | Old Ironstone Level | 1921 |
| 3441EX | 367 | S | Unspecified Ground Workings | 1921 |
| 3442FA | 367 | W | Unspecified Old Shaft | 1903 |
| 3443FA | 367 | W | Old Limestone Pit | 1877 |
| 3444FA | 367 | W | Old Ironstone Shaft | 1948 |
| 3445ET | 367 | SE | Old Level (Coal) | 1914 |
| 3446ET | 367 | SE | Old Level (Coal) | 1914 |
| 3447EX | 368 | S | Unspecified Ground Workings | 1964 |
| 3448EX | 368 | S | Unspecified Ground Workings | 1988 |
| 3449FC | 376 | W | Unspecified Pit | 1921 |
| 3450FC | 378 | W | Unspecified Heap | 1914 |
| 3451FC | 378 | W | Unspecified Heap | 1914 |
| 3452FC | 379 | W | Unspecified Heap | 1877 |
| 3453EQ | 379 | S | Unspecified Pit | 1877 |
| 3454FC | 379 | W | Unspecified Heap | 1948 |
| 3455FC | 380 | W | Unspecified Heap | 1921 |
| 3456FC | 380 | W | Unspecified Heap | 1921 |
| 3457FD | 383 | N | Unspecified Heap | 1900 |
| 3458FR | 387 | N | Unspecified Heap | 1877 |
| 3459FR | 387 | N | Unspecified Heap | 1948 |
| 3460EQ | 388 | S | Unspecified Pit | 1948 |
| 3461EQ | 388 | S | Unspecified Pit | 1903 |
| 3462EZ | 388 | NE | Unspecified Old Level | 1903 |
| 3463FR | 388 | N | Unspecified Heap | 1921 |
| 3464FD | 388 | N | Unspecified Heap | 1921 |

| | | | | |
|---|---|---|---|---|
| 3465FD | 388 | N | Unspecified Heap | 1921 |
| 3466EQ | 389 | S | Unspecified Pit | 1914 |
| 3467EQ | 389 | S | Unspecified Pit | 1914 |
| 3468EQ | 389 | S | Unspecified Pit | 1948 |
| 3469FE | 390 | SW | Cuttings | 1876 |
| 3470FR | 391 | N | Unspecified Heap | 1921 |
| 3471FE | 392 | SW | Cuttings | 1877 |
| 3472FC | 392 | W | Unspecified Heap | 1965 |
| 3473FC | 392 | W | Unspecified Heap | 1987 |
| 3474EQ | 393 | S | Unspecified Pit | 1876 |
| 3475FG | 394 | E | Unspecified Old Quarries | 1903 |
| 3476EW | 394 | NW | Unspecified Heap | 1914 |
| 3477FF | 394 | S | Refuse Heap | 1988 |
| 3478FF | 394 | S | Refuse Heap | 1964 |
| 3479FG | 395 | E | Old Ironstone Quarry | 1877 |
| 3480FH | 397 | S | Unspecified Ground Workings | 1877 |
| 3481FH | 398 | S | Unspecified Ground Workings | 1988 |
| 3482FH | 398 | S | Unspecified Ground Workings | 1964 |
| 3483EU | 399 | NW | Unspecified Ground Workings | 1921 |
| 3484EW | 399 | NW | Unspecified Heap | 1948 |
| 3485EW | 399 | NW | Unspecified Heap | 1903 |
| 3486FS | 399 | E | Pond | 1948 |
| 3487FH | 400 | S | Unspecified Old Quarries | 1901 |
| 3488EQ | 400 | S | Unspecified Pit | 1921 |
| 3489FH | 400 | S | Unspecified Ground Workings | 1921 |
| 3490FH | 400 | S | Old Coal Level | 1948 |
| 3491EL | 400 | NW | Disused Old Ironstone Level | 1877 |
| 3492FH | 400 | S | Unspecified Heap | 1914 |
| 3493FH | 400 | S | Unspecified Heap | 1914 |
| 3494FS | 401 | E | Pond | 1921 |
| 3495EW | 401 | NW | Unspecified Heap | 1965 |
| 3496FH | 401 | S | Old Coal Level | 1921 |
| 3497FH | 401 | S | Old Coal Level | 1921 |
| 3498EU | 402 | NW | Unspecified Pit | 1903 |
| 3499FE | 402 | SW | Cuttings | 1914 |
| 3500FE | 402 | SW | Cuttings | 1914 |
| 3501EQ | 403 | S | Old Coal Level | 1903 |
| 3502EU | 403 | NW | Unspecified Pit | 1901 |
| 3503EU | 404 | NW | Unspecified Pit | 1965 |
| 3504EU | 404 | NW | Unspecified Ground Workings | 1914 |
| 3505EU | 404 | NW | Unspecified Ground | 1914 |

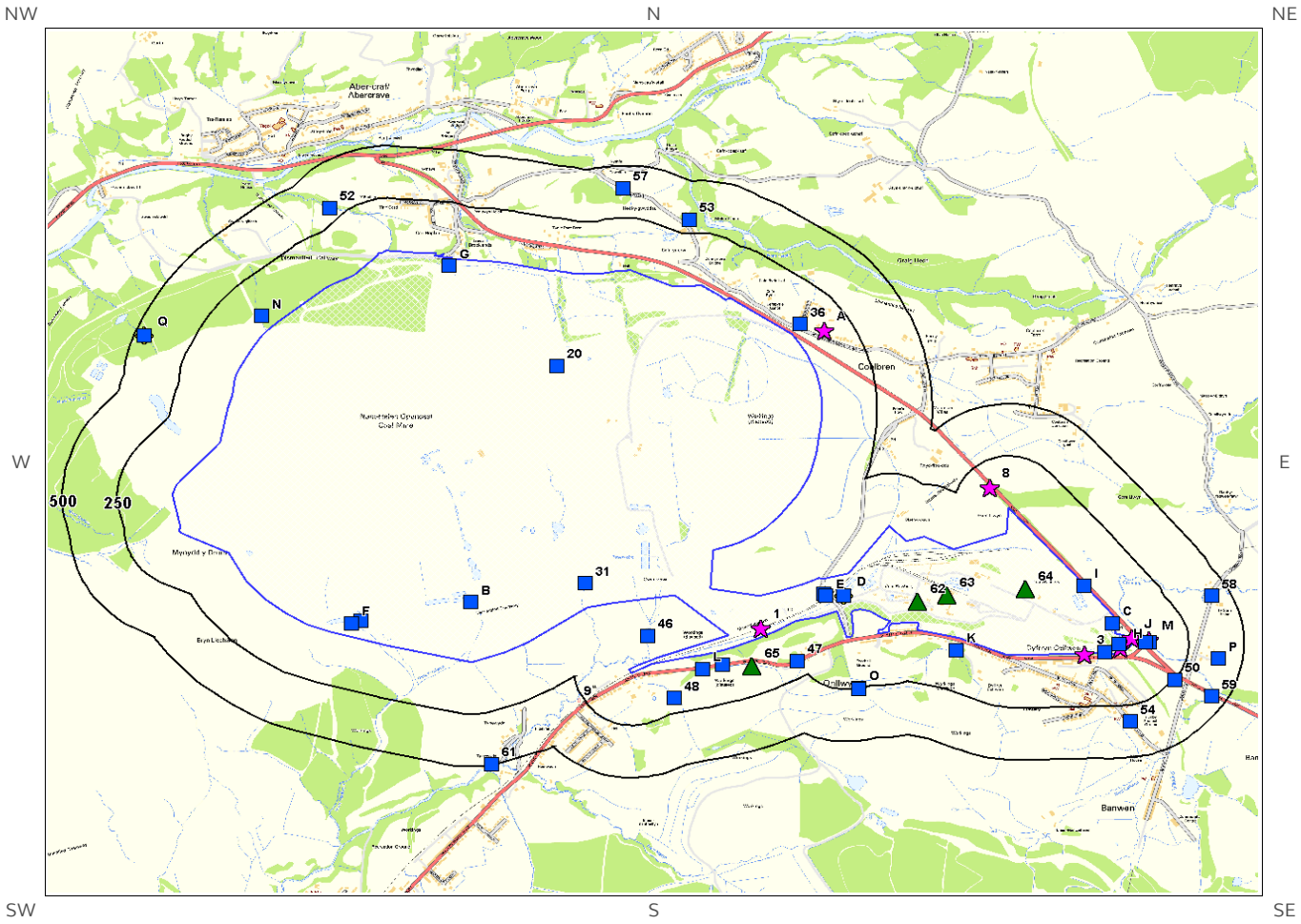
| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 3506FS | 404 | E | Pond | 1965 |
| 3507FS | 404 | E | Pond | 1987 |
| 3508FE | 404 | SE | Cuttings | 1948 |
| 3509EL | 404 | NW | Brick Works | 1921 |
| 3510EL | 404 | NW | Unspecified Ground Workings | 1921 |
| 3511EL | 404 | NW | Brick Works | 1921 |
| 3512EL | 404 | NW | Unspecified Ground Workings | 1921 |
| 3513EX | 405 | SE | Old Coal Level | 1921 |
| 3514EL | 405 | NW | Unspecified Ground Workings | 1948 |
| 3515EL | 406 | NW | Unspecified Ground Workings | 1921 |
| 3516FE | 408 | SE | Cuttings | 1921 |
| 3517FH | 408 | S | Unspecified Ground Workings | 1921 |
| 3518FE | 410 | SE | Cuttings | 1921 |
| 3519FE | 412 | SW | Cuttings | 1921 |
| 3520FJ | 413 | SE | Old Coal Level | 1921 |
| 3521FJ | 414 | SE | Old Coal Level | 1948 |
| 3522EU | 414 | NW | Unspecified Heap | 1921 |
| 3523FK | 415 | E | Unspecified Ground Workings | 1948 |
| 3524FK | 415 | E | Unspecified Ground Workings | 1921 |
| 3525FK | 415 | E | Unspecified Ground Workings | 1921 |
| 3526FJ | 417 | SE | Old Coal Level | 1921 |
| 3527FJ | 417 | SE | Old Coal Level | 1921 |
| 3528EU | 417 | NW | Unspecified Heap | 1877 |
| 3529FJ | 417 | SE | Old Coal Level | 1921 |
| 3530EU | 420 | NW | Unspecified Heap | 1948 |
| 3531EU | 420 | NW | Unspecified Heap | 1921 |
| 3532EU | 420 | NW | Unspecified Heap | 1921 |
| 3533FK | 425 | E | Old Ironstone Quarry | 1877 |
| 3534FK | 425 | E | Unspecified Ground Workings | 1903 |
| 3535FA | 429 | W | Unspecified Pit | 1901 |
| 3536GK | 430 | W | Old Coal Pit | 1877 |
| 3537FK | 431 | E | Unspecified Ground Workings | 1921 |
| 3538GJ | 431 | W | Unspecified Ground Workings | 1903 |
| 3539FL | 432 | NW | Unspecified Drift | 1948 |
| 3540FK | 434 | E | Unspecified Ground Workings | 1914 |
| 3541FK | 434 | E | Unspecified Ground Workings | 1914 |

| | | | | |
|---|---|---|---|---|
| 3542FA | 434 | W | Unspecified Heap | 1914 |
| 3543FA | 434 | W | Unspecified Heap | 1914 |
| 3544EW | 439 | NW | Unspecified Pit | 1877 |
| 3545EN | 440 | S | Pond | 1964 |
| 3546EN | 440 | S | Pond | 1988 |
| 3547FN | 441 | NE | Unspecified Ground Workings | 1977 |
| 3548FN | 441 | NE | Unspecified Ground Workings | 1877 |
| 3549FP | 444 | NE | Cuttings | 1877 |
| 3550EW | 445 | NW | Unspecified Ground Workings | 1965 |
| 3551EW | 445 | NW | Unspecified Ground Workings | 1903 |
| 3552EW | 445 | NW | Unspecified Ground Workings | 1948 |
| 3553FN | 447 | NE | Unspecified Ground Workings | 1962 |
| 3554FI | 448 | NE | Cuttings | 1877 |
| 3555FN | 448 | NE | Unspecified Ground Workings | 1921 |
| 3556FN | 451 | NE | Unspecified Ground Workings | 1921 |
| 3557FN | 451 | NE | Unspecified Ground Workings | 1921 |
| 3558FN | 453 | NE | Unspecified Ground Workings | 1900 |
| 3559FN | 454 | NE | Unspecified Ground Workings | 1903 |
| 3560EW | 455 | NW | Unspecified Heap | 1877 |
| 3561FL | 458 | N | Colliery | 1914 |
| 3562FL | 458 | N | Colliery | 1914 |
| 3563EX | 461 | SE | Old Coal Level | 1921 |
| 3564FL | 462 | N | Colliery | 1921 |
| 3565FL | 462 | N | Colliery | 1921 |
| 3566FL | 463 | N | Colliery | 1921 |
| 3567FO | 463 | S | Old Coal Level | 1921 |
| 3568FO | 465 | S | Old Coal Level | 1921 |
| 3569FO | 466 | S | Old Coal Level | 1948 |
| 3570FO | 467 | S | Old Coal Level | 1921 |
| 3571FO | 467 | S | Old Coal Level | 1921 |
| 3572FG | 467 | E | Unspecified Heap | 1948 |
| 3573FH | 469 | S | Unspecified Ground Workings | 1948 |
| 3574FG | 470 | E | Unspecified Ground Workings | 1921 |
| 3575FG | 470 | E | Unspecified Ground Workings | 1914 |
| 3576FG | 470 | E | Unspecified Ground Workings | 1914 |
| 3577FG | 470 | E | Unspecified Heap | 1921 |

| | | | | |
|---|---|---|---|---|
| 3578FG | 470 | E | Unspecified Heap | 1921 |
| 3579FS | 471 | E | Unspecified Heap | 1877 |
| 3580EW | 471 | NW | Cuttings | 1921 |
| 3581FL | 471 | N | Unspecified Drift | 1921 |
| 3582FL | 472 | NW | Refuse Heap | 1987 |
| 3583FH | 474 | S | Unspecified Ground Workings | 1921 |
| 3584FH | 474 | S | Unspecified Ground Workings | 1921 |
| 3585FN | 476 | NE | Unspecified Ground Workings | 1877 |
| 3586GI | 478 | NW | Unspecified Old Quarry | 1877 |
| 3587FH | 479 | S | Unspecified Ground Workings | 1988 |
| 3588FH | 479 | S | Unspecified Ground Workings | 1964 |
| 3589FP | 480 | NE | Cuttings | 1921 |
| 3590FQ | 481 | S | Unspecified Ground Workings | 1921 |
| 3591EL | 481 | W | Pond | 1901 |
| 3592FQ | 483 | S | Unspecified Ground Workings | 1921 |
| 3593FH | 484 | S | Unspecified Ground Workings | 1903 |
| 3594FH | 485 | S | Unspecified Ground Workings | 1876 |
| 3595FQ | 485 | S | Old Coal Level | 1948 |
| 3596FQ | 485 | S | Unspecified Heap | 1921 |
| 3597FQ | 485 | S | Unspecified Heap | 1921 |
| 3598FK | 486 | E | Unspecified Ground Workings | 1921 |
| 3599FQ | 487 | S | Unspecified Ground Workings | 1876 |
| 3600FQ | 487 | S | Old Coal Level | 1900 |
| 3601FP | 488 | NE | Cuttings | 1948 |
| 3602FP | 488 | NE | Cuttings | 1903 |
| 3603FL | 488 | N | Unspecified Heap | 1965 |
| 3604FQ | 489 | S | Old Coal Level | 1903 |
| 3605FR | 491 | N | Unspecified Ground Workings | 1903 |
| 3606FR | 491 | N | Old Ironstone Quarry | 1877 |
| 3607FS | 491 | E | Unspecified Heap | 1948 |
| 3608FK | 491 | E | Unspecified Ground Workings | 1914 |
| 3609FK | 491 | E | Unspecified Ground Workings | 1914 |
| 3610FG | 492 | E | Unspecified Heap | 1965 |
| 3611FG | 492 | E | Unspecified Heap | 1987 |
| 3612FL | 493 | N | Refuse Heap | 1914 |
| 3613FL | 493 | N | Refuse Heap | 1914 |
| 3614FS | 493 | E | Unspecified Heap | 1903 |

| | | | | |
|---|---|---|---|---|
| 3615EX | 493 | SE | Unspecified Pit | 1964 |
| 3616EX | 493 | SE | Unspecified Pit | 1988 |
| 3617FG | 494 | E | Unspecified Ground Workings | 1921 |
| 3618FG | 494 | E | Unspecified Ground Workings | 1921 |
| 3619FS | 496 | E | Unspecified Ground Workings | 1921 |
| 3620FS | 496 | E | Unspecified Ground Workings | 1921 |
| 3621FS | 496 | E | Unspecified Heap | 1877 |
| 3622FS | 496 | E | Unspecified Heap | 1903 |
| 3623FL | 497 | N | Refuse Heap | 1948 |
| 3624FO | 497 | S | Unspecified Ground Workings | 1921 |
| 3625FO | 497 | S | Unspecified Ground Workings | 1921 |
| 3626FO | 498 | S | Old Coal Level | 1948 |
| 3627FL | 499 | N | Refuse Heap | 1921 |
| 3628FL | 499 | N | Refuse Heap | 1921 |
| 3629FO | 499 | S | Unspecified Ground Workings | 1921 |
| 3630FO | 499 | S | Unspecified Ground Workings | 1921 |

# 2. Environmental Permits, Incidents and Registers Map




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- Site Outline
- 250 / 500 Search Buffers (m)
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

# 2. Environmental Permits, Incidents and Registers

## 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

### 2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

### 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

### 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

### 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

### 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

2

The following List 2 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 10D | 0 | On Site | 284200 | Name: Onllwyn Washery | Authorised Substances: Iron |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | 210500 | Status: Active<br>Receiving Water: River Dulais | |
| 11Q | 456 | NW | 281028<br>211744 | Name: Nant Helen Occs Treatment Area H<br>Status: Active<br>Receiving Water: None | Authorised Substances: pH |

### 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

4

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 62 | 0 | On Site | 284534<br>210463 | Address: Celtic Energy, Nant Helen Opencast Site, Coelbren, Neath, West Glamorgan, SA10 9NL<br>Process: Other Mineral Processes<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 63 | 0 | On Site | 284669<br>210494 | Address: Celtic Energy Limited, Onllwyn Central Washery, Onllwyn, Neath Port Talbot, SA10 9HN<br>Process: Coal & Coke<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No enforcements issued<br>Date of Enforcement: No enforcements issued<br>Comment: No enforcements issued |
| 64 | 0 | On Site | 285022<br>210523 | Address: CPL Distribution Limited, CPL Onllwyn Depot, Onllwyn Washery, Seven Sisters, Neath Port Talbot, SA10 9HN<br>Process: Coal & Coke<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No enforcements issued<br>Date of Enforcement: No enforcements issued<br>Comment: No enforcements issued |
| 65 | 123 | S | 283784<br>210155 | Address: Celtic Energy Limited/CPL Distribution Limited, Onllwyn Central Washery, Onllwyn, Neath, Port Talbot, SA10 9HN<br>Process: Coal & Coke<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No enforcements issued<br>Date of Enforcement: 08/04/2003<br>Comment: No enforcements issued |

### 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

## 2.1.8 Records of Licensed Discharge Consents within 500m of the study site:



The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 12B | 0 | On Site | 282510 210470 | Address: STORM OUTLET B2 NANT HELEN OCCS , STORM OUTLET B2 NANT HELEN OCCS, NANT HELEN OCCS , Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BM0032102 Permit Version: -9999 | Receiving Water: RIVER DULAIS Status: Effective Issue date: 12/03/1997 Effective Date: 13-Mar-1997 Revocation Date: |
| 13B | 0 | On Site | 282510 210470 | Address: STORM OUTLET B2 NANT HELEN OCCS , STORM OUTLET B2 NANT HELEN OCCS, NANT HELEN OCCS , Effluent Type: MINEWATER Permit Number: BM0032107 Permit Version: -9999 | Receiving Water: R DULAIS Status: Effective Issue date: 12/03/1997 Effective Date: 12-Mar-1997 Revocation Date: |
| 14C | 0 | On Site | 285420 210370 | Address: HEOL GAER ONLLWYN SWO 1, ONLLWYN SWO 1 Effluent Type: UNSPECIFIED Permit Number: BW2903101 Permit Version: -9999 | Receiving Water: CAMNANT (DYFFRYN CELLWEN) Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 17/06/1963 Effective Date: 17-Jun-1963 Revocation Date: 30/03/2008 |
| 15C | 0 | On Site | 285420 210370 | Address: HEOL GAER ONLLWYN SWO 1, ONLLWYN SWO 1 Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BW2903101 Permit Version: -9999 | Receiving Water: CAMNANT (DYFFRYN CELLWEN) Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 07/03/2005 Effective Date: 01-Apr-2008 Revocation Date: 31/03/2009 |
| 16D | 0 | On Site | 284200 210500 | Address: ONLLWYN WASHERY NEATH , NEATH Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BA2010001 Permit Version: -9999 | Receiving Water: AFON DULAIS (TRIB OF RIVER NEA Status: Effective Issue date: 30/03/1994 Effective Date: 30-Mar-1994 Revocation Date: |
| 17E | 0 | On Site | 284120 210500 | Address: ONLLWYN WASHERY NEATH , NEATH Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BA2010001 Permit Version: -9999 | Receiving Water: AFON DULAIS (TRIB OF RIVER NEA Status: REVOKED - UNSPECIFIED Issue date: 30/07/1985 Effective Date: 30-Jul-1985 Revocation Date: 29/03/1994 |
| 18F | 0 | On Site | 281970 210370 | Address: STORM OUTLET A2 NANT HELEN OCCS , STORM OUTLET A2 NANT HELEN OCCS, NANT HELEN OCCS Effluent Type: MINEWATER Permit Number: BM0032106 Permit Version: -9999 | Receiving Water: RIVER DULAIS Status: REVOKED - UNSPECIFIED Issue date: 14/09/1992 Effective Date: 14-Sep-1992 Revocation Date: 12/03/1997 |
| 19E | 0 | On Site | 284110 210510 | Address: ONLLWYN OPENCAST SITE - POINTS Effluent Type: UNSPECIFIED Permit Number: BB3024801 Permit Version: -9999 | Receiving Water: RIVER DULAIS Status: CONSENT EXPIRED - TIME LIMIT Issue date: 28/06/1971 Effective Date: 28-Jun-1971 Revocation Date: 02/03/1992 |
| 20 | 0 | On Site | 282900 211600 | Address: ONLLWYN OPENCAST SITE POINT B (ABAN, ONLLWYN OPENCAST SITE POINT B (A, POINT B (ABANDONED) Effluent Type: UNSPECIFIED Permit Number: BC0013002 | Receiving Water: NANT HELEN Status: CONSENT EXPIRED - TIME LIMIT Issue date: 01/07/1971 Effective Date: 01-Jul-1971 Revocation Date: 02/03/1992 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | Permit Version: -9999 | |
| 21F | 0 | On Site | 281970 210370 | Address: STORM OUTLET A2 NANT HELEN OCCS , STORM OUTLET A2 NANT HELEN OCCS, NANT HELEN OCCS<br>Effluent Type: MINEWATER<br>Permit Number: BM0032106<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV<br>Issue date: 12/03/1997<br>Effective Date: 13-Mar-1997<br>Revocation Date: 10/07/2001 |
| 22F | 0 | On Site | 281970 210370 | Address: STORM OUTLET A2 NANT HELEN OCCS , STORM OUTLET A2 NANT HELEN OCCS, NANT HELEN OCCS<br>Effluent Type: MINEWATER<br>Permit Number: BM0032106<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 11/07/1990<br>Effective Date: 11-Jul-1990<br>Revocation Date: 13/09/1992 |
| 23I | 0 | On Site | 285290 210550 | Address: VEDMORE SIDINGS OUTLET B ,<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: BB4027002<br>Permit Version: -9999 | Receiving Water: NANT CAMNANT<br>Status: Effective<br>Issue date: 20/03/1989<br>Effective Date: 20-Mar-1989<br>Revocation Date: |
| 24G | 0 | On Site | 282410 212080 | Address: NANT HELEN OCCS OUTLET D , OUTLET D ,<br>Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: BM0032104<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 11/07/1990<br>Effective Date: 11-Jul-1990<br>Revocation Date: 13/09/1992 |
| 25G | 0 | On Site | 282410 212080 | Address: NANT HELEN OCCS OUTLET D , OUTLET D ,<br>Effluent Type: UNSPECIFIED<br>Permit Number: BM0032104<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 30/01/1985<br>Effective Date: 30-Jan-1985<br>Revocation Date: 10/07/1990 |
| 26G | 0 | On Site | 282410 212080 | Address: NANT HELEN OCCS OUTLET D , OUTLET D ,<br>Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: BM0032104<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE<br>Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV<br>Issue date: 14/09/1992<br>Effective Date: 14-Sep-1992<br>Revocation Date: 18/11/1998 |
| 27F | 0 | On Site | 282010 210380 | Address: NANT HELEN OCCS OUTLET A1 , OUTLET A1 ,<br>Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: BM0032101<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 11/07/1990<br>Effective Date: 11-Jul-1990<br>Revocation Date: 13/09/1992 |
| 28F | 0 | On Site | 282010 210380 | Address: NANT HELEN OCCS OUTLET A1 , OUTLET A1 ,<br>Effluent Type: UNSPECIFIED<br>Permit Number: BM0032101<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 30/01/1985<br>Effective Date: 30-Jan-1985<br>Revocation Date: 10/07/1990 |
| 29F | 0 | On Site | 282010 210380 | Address: NANT HELEN OCCS OUTLET A1 , OUTLET A1 ,<br>Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: BM0032101<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV<br>Issue date: 14/09/1992<br>Effective Date: 14-Sep-1992<br>Revocation Date: 10/07/2001 |
| 30H | 0 | On Site | 285450 210270 | Address: ONLLWYN STORM WATER OVERFLOW, STORM WATER OVERFLOW<br>Effluent Type: UNSPECIFIED<br>Permit Number: BP0058701<br>Permit Version: -9999 | Receiving Water: RIVER CAMNANT<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY<br>Issue date: 02/09/1987<br>Effective Date: 02-Sep-1987<br>Revocation Date: 17/02/1988 |
| 31 | 0 | On Site | 283030 210560 | Address: OUTLET C NANT HELEN OCCS , NANT HELEN OCCS , | Receiving Water: RIVER DULAIS<br>Status: Effective |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | Effluent Type: MINEWATER<br>Permit Number: BM0032103<br>Permit Version: -9999 | Issue date: 08/01/1998<br>Effective Date: 09-Jan-1998<br>Revocation Date: |
| 32I | 0 | On Site | 285290<br>210550 | Address: VEDMORE SIDINGS OUTLET B ,<br>Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: BB4027001<br>Permit Version: -9999 | Receiving Water: NANT CAMNANT<br>Status: Effective<br>Issue date: 20/03/1989<br>Effective Date: 20-Mar-1989<br>Revocation Date: |
| 33H | 5 | E | 285382<br>210231 | Address: DYFFRYN CELLWEN, NR 7 SISTERS<br>Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: BP0135001<br>Permit Version: -9999 | Receiving Water: AFON CAMNANT TO PYRDDIN - R. N<br>Status: Effective<br>Issue date: 20/02/2009<br>Effective Date: 20-Feb-2009<br>Revocation Date: |
| 34J | 54 | E | 285570<br>210280 | Address: DYFFRYN CELLWEN, NR 7 SISTERS<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: BP0135001<br>Permit Version: -9999 | Receiving Water: AFON CAMNANT TO PYRDDIN - R. N<br>Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995)<br>Issue date: 01/08/1990<br>Effective Date: 01-Aug-1990<br>Revocation Date: 19/02/2009 |
| 35J | 54 | E | 285570<br>210280 | Address: DYFFRYN CELLWEN, NR 7 SISTERS<br>Effluent Type: UNSPECIFIED<br>Permit Number: BP0135001<br>Permit Version: -9999 | Receiving Water: AFON CAMNANT TO PYRDDIN - R. N<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 10/07/1990<br>Effective Date: 10-Jul-1990<br>Revocation Date: 31/07/1990 |
| 36 | 60 | NE | 284000<br>211800 | Address: ONLLWYN OPENCAST SITE POINT A (ABAN, ONLLWYN OPENCAST SITE POINT A (A, POINT A (ABANDONED)<br>Effluent Type: UNSPECIFIED<br>Permit Number: BC0013001<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF NANT LLECH<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 01/07/1971<br>Effective Date: 01-Jul-1971<br>Revocation Date: 02/03/1992 |
| 37K | 62 | S | 284710<br>210240 | Address: ONLLWYN A.R'WAY TIP, AERIAL ROPEWAY TIP, PT.B<br>Effluent Type: UNSPECIFIED<br>Permit Number: BP0155502<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 01/01/1901<br>Effective Date: 01-Jan-1901<br>Revocation Date: 13/03/1990 |
| 38K | 62 | S | 284710<br>210240 | Address: ONLLWYN A.R'WAY TIP, AERIAL ROPEWAY TIP, PT.B<br>Effluent Type: UNSPECIFIED<br>Permit Number: BP0155502<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 14/03/1990<br>Effective Date: 14-Mar-1990<br>Revocation Date: 18/05/1993 |
| 39L | 67 | S | 283560<br>210150 | Address: DRYM OPENCAST SITE - POINT E (<br>Effluent Type: MINEWATER<br>Permit Number: BB4004401<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER DULAIS<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 09/08/1973<br>Effective Date: 09-Aug-1973<br>Revocation Date: 24/12/1991 |
| 40L | 68 | S | 283650<br>210170 | Address: DRYM OPENCAST SITE - POINT C (<br>Effluent Type: MINEWATER<br>Permit Number: BB3025802<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER DULAIS<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 09/08/1971<br>Effective Date: 09-Aug-1971<br>Revocation Date: 11/06/1986 |
| 41M | 70 | E | 285586<br>210280 | Address: DYFFRYN CELLWEN, NR 7 SISTERS<br>Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: BP0135001<br>Permit Version: -9999 | Receiving Water: AFON CAMNANT TO PYRDDIN - R. N<br>Status: Effective<br>Issue date: 20/02/2009<br>Effective Date: 20-Feb-2009<br>Revocation Date: |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 42N | 71 | NW | 281560 211840 | Address: OUTLET E NANT HELEN OCCS , NANT HELEN OCCS , Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BM0032105 Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE Status: REVOKED - UNSPECIFIED Issue date: 11/07/1990 Effective Date: 11-Jul-1990 Revocation Date: 13/09/1992 |
| 43N | 71 | NW | 281560 211840 | Address: OUTLET E NANT HELEN OCCS , NANT HELEN OCCS , Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BM0032105 Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE Status: REVOKED - UNSPECIFIED Issue date: 14/09/1992 Effective Date: 14-Sep-1992 Revocation Date: 12/03/1997 |
| 44N | 71 | NW | 281560 211840 | Address: OUTLET E NANT HELEN OCCS , NANT HELEN OCCS , Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BM0032105 Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 12/03/1997 Effective Date: 13-Mar-1997 Revocation Date: 01/11/2002 |
| 45N | 71 | NW | 281560 211840 | Address: OUTLET E NANT HELEN OCCS , NANT HELEN OCCS , Effluent Type: UNSPECIFIED Permit Number: BM0032105 Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER TAWE Status: REVOKED - UNSPECIFIED Issue date: 30/01/1985 Effective Date: 30-Jan-1985 Revocation Date: 10/07/1990 |
| 46 | 116 | N | 283310 210310 | Address: ONLLWYN RD SWO1A GOLWG Y BRY, ONLLWYN RD SWO1A GOLWG Y, SWO1A GOLWG Y BRYN Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BW2903001 Permit Version: -9999 | Receiving Water: RIVER DULAIS Status: Surrendered Issue date: 17/06/1963 Effective Date: 17-Jun-1963 Revocation Date: |
| 47 | 172 | SE | 283990 210190 | Address: DRYM OPENCAST SITE - POINT D ( Effluent Type: MINEWATER Permit Number: BB3025803 Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER DULAIS Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/08/1971 Effective Date: 09-Aug-1971 Revocation Date: 22/01/1992 |
| 48 | 180 | S | 283430 210010 | Address: DRYM OPENCAST SITE - POINT B ( Effluent Type: UNSPECIFIED Permit Number: BB3025801 Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF RIVER DULAIS Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/08/1971 Effective Date: 09-Aug-1971 Revocation Date: 22/01/1992 |
| 49O | 250 | S | 284270 210060 | Address: ONLLWYN AERIAL ROPEWAY, (POINT A) Effluent Type: UNSPECIFIED Permit Number: BP0155501 Permit Version: -9999 | Receiving Water: RIVER DULAIS Status: CONSENT EXPIRED - TIME LIMIT Issue date: 14/03/1990 Effective Date: 14-Mar-1990 Revocation Date: 18/05/1993 |
| 50 | 253 | SE | 285700 210100 | Address: TAVERN Y BANWEN BANWEN, BANWEN Effluent Type: UNSPECIFIED Permit Number: BM0046101 Permit Version: -9999 | Receiving Water: UNDERGROUND STRATA Status: CONSENT EXPIRED - TIME LIMIT Issue date: 26/04/1985 Effective Date: 26-Apr-1985 Revocation Date: 11/07/1994 |
| 51O | 255 | S | 284270 210055 | Address: ONLLWYN AERIAL ROPEWAY, (POINT A) Effluent Type: UNSPECIFIED Permit Number: BP0155501 Permit Version: -9999 | Receiving Water: RIVER DULAIS Status: REVOKED - UNSPECIFIED Issue date: 01/01/1901 Effective Date: 01-Jan-1901 Revocation Date: 13/03/1990 |
| 52 | 307 | NW | 281871 212355 | Address: INTERNATIONAL TIPS RECLAMATION AREA, INTERNATIONAL TIPS RECLAMATION, NANT HELEN | Receiving Water: A TRIB OF THE RIVER TAWE Status: NEW CONSENT (WRA 91, S88 & |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | EXTENSION OCCS, COELBREN, NR ABERCRAF<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: BP0300901<br>Permit Version: -9999 | SCHED 10 AS AMENDED BY<br>Issue date: 28/02/2003<br>Effective Date: 28-Feb-2003<br>Revocation Date: |
| 53 | 316 | N | 283500 212300 | Address: CEFN YR ERW FARM, ABERCRAF, SWANSEA VALLEY, Swansea, SA9 1UD<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: BP0100601<br>Permit Version: -9999 | Receiving Water: UNDERGROUND STRATA<br>Status: Effective<br>Issue date: 26/11/2012<br>Effective Date: 26-Nov-2012<br>Revocation Date: |
| 54 | 329 | S | 285500 209900 | Address: PLAYGROUND MAIN ROAD DYFFRYN C<br>Effluent Type: UNSPECIFIED<br>Permit Number: BB4024401<br>Permit Version: -9999 | Receiving Water: RIVER PYRDDIN VIA NANT CAMNANT<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 07/11/1977<br>Effective Date: 07-Nov-1977<br>Revocation Date: 19/10/1992 |
| 55P | 391 | E | 285900 210200 | Address: 11 CWMCELYN BUNGALOWS CAMNANT RD. B, 11 CWMCELYN BUNGALOWS CAMNANT RD, CAMNANT RD. BANWEN NEATH., BANWEN NEATH., NEATH.<br>Effluent Type: UNSPECIFIED<br>Permit Number: BP0133301<br>Permit Version: -9999 | Receiving Water: TO LAND<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 23/08/1989<br>Effective Date: 23-Aug-1989<br>Revocation Date: 11/07/1994 |
| 56P | 391 | E | 285900 210200 | Address: 11 CWMCELYN BUNGALOWS CAMNANT RD. B, 11 CWMCELYN BUNGALOWS CAMNANT RD, CAMNANT RD. BANWEN NEATH., BANWEN NEATH., NEATH.<br>Effluent Type: UNSPECIFIED<br>Permit Number: BP0133302<br>Permit Version: -9999 | Receiving Water: TO LAND<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 27/11/1989<br>Effective Date: 27-Nov-1989<br>Revocation Date: 11/07/1994 |
| 57 | 393 | N | 283200 212450 | Address: BRONWYDD CAEHOPKIN ABERCRAVE SWANSE, BRONWYDD CAEHOPKIN ABERCRAVE SWA, CAEHOPKIN ABERCRAVE SWANSEA, ABERCRAVE SWANSEA, SWANSEA<br>Effluent Type: UNSPECIFIED<br>Permit Number: BM0033201<br>Permit Version: -9999 | Receiving Water: UNDERGROUND STRATA<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 21/10/1983<br>Effective Date: 21-Oct-1983<br>Revocation Date: 24/02/1995 |
| 58 | 420 | NE | 285870 210500 | Address: TY SARN HELEN CAMNANT BANWEN NEATH, TY SARN HELEN CAMNANT BANWEN NEA, CAMNANT BANWEN NEATH, BANWEN NEATH, NEATH<br>Effluent Type: UNSPECIFIED<br>Permit Number: BM0006301<br>Permit Version: -9999 | Receiving Water: UNDERGROUND STRATA<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 16/06/1980<br>Effective Date: 16-Jun-1980<br>Revocation Date: |
| 59 | 436 | SE | 285870 210020 | Address: POINT C - BANWEN DISPOSAL PT BANW, POINT C - BANWEN DISPOSAL PT B, BANWEN, NEATH<br>Effluent Type: MINEWATER<br>Permit Number: BA2014403<br>Permit Version: -9999 | Receiving Water: RIVER CAMNANT<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 21/06/1993<br>Effective Date: 21-Jun-1993<br>Revocation Date: 05/06/1996 |
| 60Q | 456 | NW | 281028 211744 | Address: NANT HELEN OCCS TREATM'T AREA H, COELBREN, ABERCRAVE, SWANSEA<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: BP0345401<br>Permit Version: -9999 | Receiving Water: UNNAMED TRIB OF TAWE<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY<br>Issue date: 27/06/2005<br>Effective Date: 27-Jun-2005<br>Revocation Date: 19/03/2008 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 61 | 497 | S | 282604 209695 | Address: TYNEWYDD FARM SEVEN SISTERS NEATH, TYNEWYDD FARM, SEVEN SISTERS, NEATH, NEATH PORT TALBOT, SA10 9BP<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: BP0318401<br>Permit Version: -9999 | Receiving Water: RIVER DULAIS<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY<br>Issue date: 06/08/2004<br>Effective Date: 06-Aug-2004<br>Revocation Date: |

### 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

### 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

## 2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

## 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

### 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

8

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 1 | 0 | On Site | 283823.0 210346.0 | Incident Date: 16-Oct-2013<br>Incident Identification: 1168129.0<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Coal | Water Impact: Category 2 (Significant)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 2H | 0 | On Site | 285452.0 210250.0 | Incident Date: 21-Jun-2001<br>Incident Identification: 10516.0<br>Pollutant: Sewage Materials | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | Pollutant Description: Crude Sewage | |
| 3 | 1 | S | 285288.0 210222.0 | Incident Date: 16-Jun-2014<br>Incident Identification: 1245993.0<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes | Water Impact:<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor) |
| 4J | 4 | NE | 285503.0 210298.0 | Incident Date: 25-May-2001<br>Incident Identification: 6652.0<br>Pollutant: Sewage Materials<br>Pollutant Description: Crude Sewage | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 5M | 67 | E | 285582.0 210288.0 | Incident Date: 10-Apr-2014<br>Incident Identification: 1226179.0<br>Pollutant: Sewage Materials<br>Pollutant Description: Other Sewage Material | Water Impact:<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 6A | 123 | NE | 284109.0 211768.0 | Incident Date: 06-Feb-2016<br>Incident Identification: 1408918.0<br>Pollutant: Oils and Fuel<br>Pollutant Description: Gas and Fuel Oils | Water Impact:<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 7A | 123 | NE | 284109.0 211768.0 | Incident Date: 02-Feb-2016<br>Incident Identification: 1407834.0<br>Pollutant: Oils and Fuel<br>Pollutant Description: Gas and Fuel Oils | Water Impact:<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 8 | 134 | NW | 284860.0 211020.0 | Incident Date: 09-May-2012<br>Incident Identification: 989062.0<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Other Inert Material or Waste | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 4 (No Impact) |

### 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

1

The following NIRS List 1 records are represented as points on the Environmental Permits, Incidents and Registers Map:

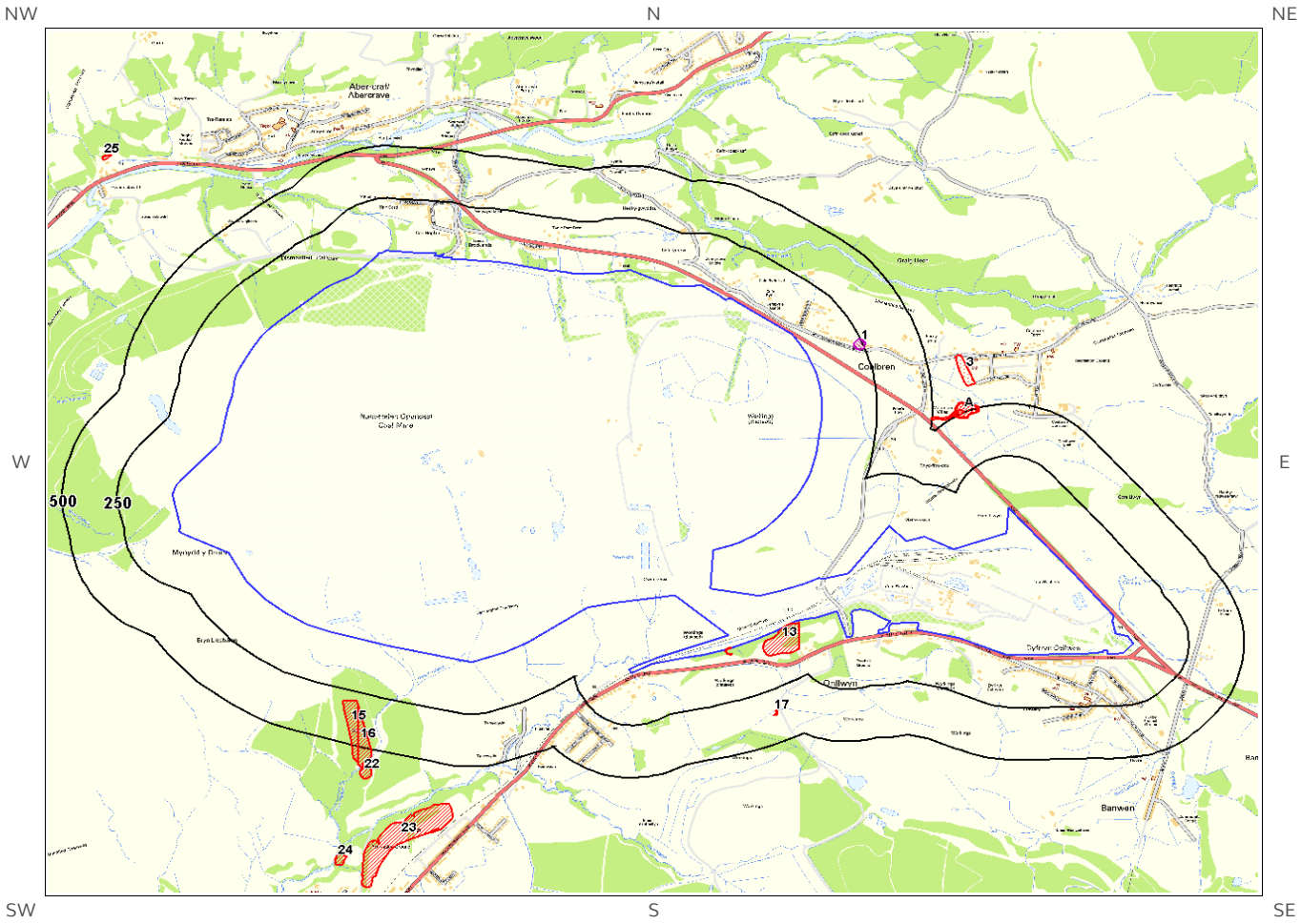
| ID | Distance(m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 9 | 272 | SW | | Incident Date: 04-Dec-1999<br>Incident Identification: 6335.0<br>Catchments Name: DULAIS<br>Water Description: RIVER STRETCH (FRESHWATER)<br>Water Course: DULAIS<br>Incident Substantiated: Yes | Priority Description: Immediate (2 Hours)<br>Waste Description: Not Available<br>Water Impact: Significant Impact<br>Land Impact: No Impact<br>Air Impact: No Impact<br>Action Taken: Not Available |

## 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

| | |
|---|---|
| Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site | 0 |

Database searched and no data found.

# 3. Landfill and Other Waste Sites Map




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Site Outline

250
500
Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

# 3. Landfill and Other Waste Sites

## 3.1 Landfill Sites

### 3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

### 3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

4

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 2A | 473 | NW | | Site Address: Moorside Villas<br>Waste Licence: -<br>Site Reference: CS11/38<br>Waste Type: Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: 31-Dec-1974 |
| 3 | 612 | N | | Site Address: Coelbren<br>Waste Licence: -<br>Site Reference: CS11/43<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1391 | W | | Site Address: Land at 295-297 Brecon Road<br>Waste Licence: -<br>Site Reference: CS11/35<br>Waste Type: Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: 31-Dec-1950 |
| Not shown | 1496 | NE | | Site Address: Ynyswen Tip<br>Waste Licence: -<br>Site Reference: CS11/39<br>Waste Type: Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: Ystradgynlais Rural District Council<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: 31-Dec-1974 |

### 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

---

### 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

16

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|---|---|---|---|---|---|---|
| 13 | 0 | On Site | 283918 210294 | Refuse Tip | 1961 mapping | Polygon |
| 14 | 0 | On Site | 283668 210235 | Refuse Tip | 1961 mapping | Polygon |
| 15 | 290 | S | 281966 209849 | Refuse Tip | 1961 mapping | Polygon |
| 16 | 310 | S | 282031 209830 | Refuse Tip | 1962 mapping | Polygon |
| 17 | 350 | S | 283898 209942 | Refuse Tip | 1962 mapping | Polygon |
| 18A | 469 | NW | 284747 211387 | Refuse Tip | 1987 mapping | Polygon |
| 19A | 471 | NW | 284746 211388 | Refuse Tip | 1986 mapping | Polygon |
| 20A | 497 | NW | 284716 211376 | Refuse Tip | 1979 mapping | Polygon |
| 21A | 499 | NW | 284721 211380 | Refuse Tip | 1962 mapping | Polygon |
| 22 | 587 | S | 282035 209654 | Refuse Tip | 1962 mapping | Polygon |
| 23 | 687 | S | 282106 209306 | Refuse Tip | 1962 mapping | Polygon |
| 24 | 1015 | S | 281921 209243 | Refuse Tip | 1961 mapping | Polygon |
| 25 | 1097 | NW | 280861 212598 | Refuse Tip | 1962 mapping | Polygon |
| Not shown | 1467 | S | 284486 208749 | Refuse Tip | 1961 mapping | Polygon |
| Not shown | 1494 | S | 284544 208749 | Refuse Tip | 1961 mapping | Polygon |
| Not shown | 1496 | NE | 284316 213306 | Refuse Tip | 1962 mapping | Polygon |

---

## 3.2 Other Waste Sites

### 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | | |
|---|---|---|---|---|---|---|
| 1 | 211 | NE | 284273 211703 | Type of Site: Waste Transfer Station (Conversion/Extension)<br>Site Address: Maesgwyn Open Cast Site, Banwen, Coelbren, NEATH, West Glamorgan, SA10 9NY | Planning Application Reference: P2008/0869<br>Date: - | Further Details: Scheme comprises change of use to transfer station and construction of ancillary offices with car parking spaces and landscaping. Construction - black top surfacing, planting site works. An application (ref: P2008/0869) for detailed planning permissiowas granted by Neath & Port Talbot B.C. Planning decision obtained<br>Data Source: Historic Planning Application<br>Data Type: Point |

### 3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

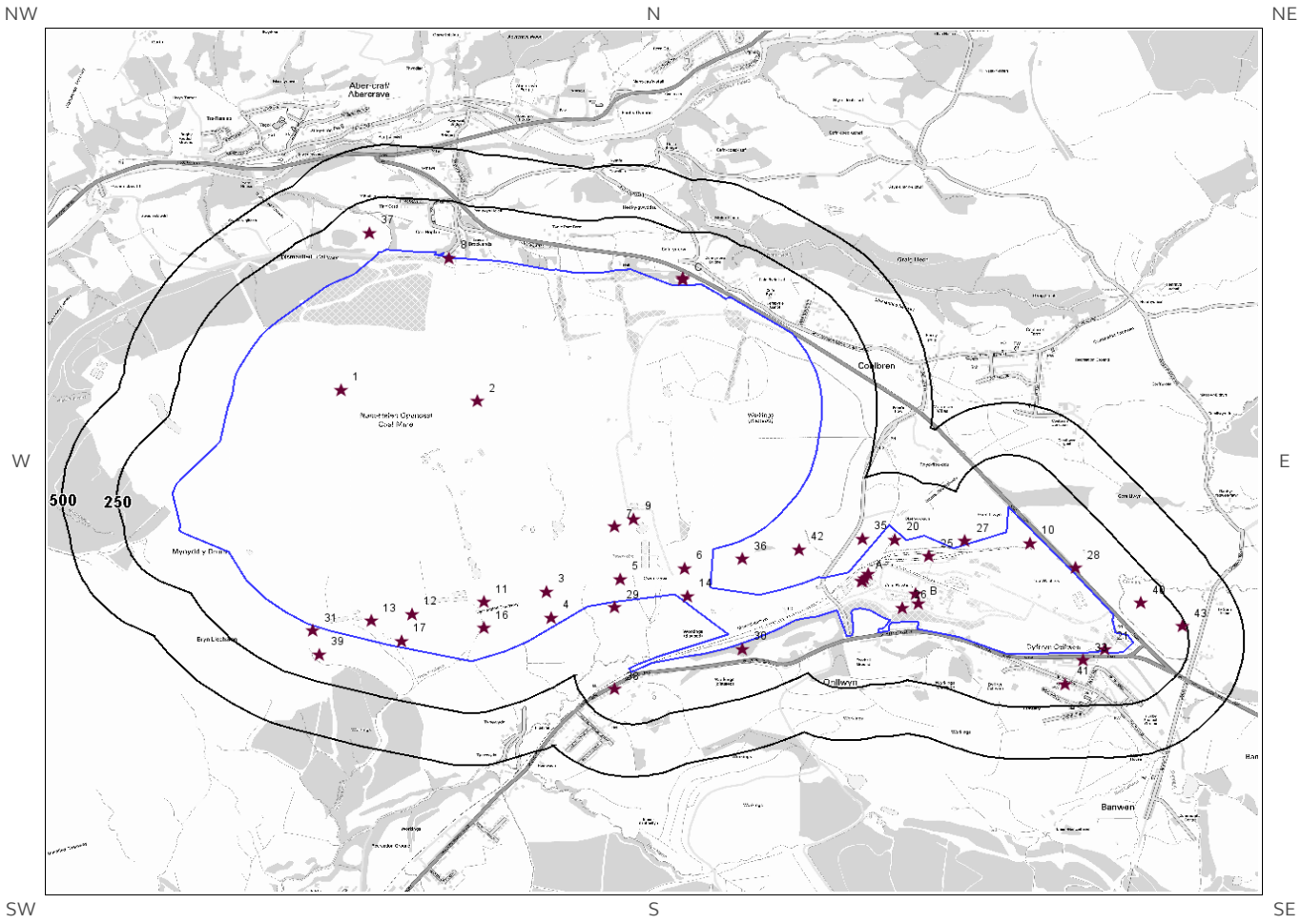
7

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 1230 | W | 280308 212027 | Site Address: Dan Y Parc Council Depot, Caerbont, Abercrave, Powys, SA9 1SP<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: POW070<br>EPR reference: UP3290VF/A001<br>Operator: Powys County Council<br>Waste Management licence No: 102481<br>Annual Tonnage: 0.0 | Issue Date: 28/06/2012<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Issued<br>Site Name: Dan Y Parc Council Depot<br>Correspondence Address: - |
| Not shown | 1230 | W | 280307 212026 | Site Address: Dan Y Parc Council Depot, Caerbont, Abercrave, Powys, SA9 1SP<br>Type: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: UP3290VF<br>EPR reference: -<br>Operator: Powys County Council<br>Waste Management licence No: 0<br>Annual Tonnage: 6860.0 | Issue Date: 28/06/2012<br>Effective Date: 28/06/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective<br>Site Name: -<br>Correspondence Address: - |
| Not | 1230 | W | 280307 | Site Address: Dan Y Parc Council Depot, | Issue Date: 28/06/2012 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| shown | | | 212026 | Caerbont, Abercrave, Powys, SA9 1SP<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: POW070<br>EPR reference: EA/EPR/UP3290VF/A001<br>Operator: Powys County Council<br>Waste Management licence No: 102481<br>Annual Tonnage: 6860.0 | Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Dan Y Parc Council Depot<br>Correspondence Address: - |
| Not shown | 1230 | W | 280307 212026 | Site Address: Dan Y Parc Council Depot, Caerbont, Abercrave, Powys, SA9 1SP<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: UP3290VF<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 102481<br>Annual Tonnage: 6860.0 | Issue Date: 28/06/2012<br>Effective Date: 28/06/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective<br>Site Name: -<br>Correspondence Address: - |
| Not shown | 1230 | W | 280307 212026 | Site Address: Dan Y Parc Council Depot, Caerbont, , , Abercrave, Powys, SA9 1SP<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: UP3290VF<br>EPR reference: -<br>Operator: Powys County Council<br>Waste Management licence No: 102481<br>Annual Tonnage: 6860.0 | Issue Date: 28/06/2012<br>Effective Date: 28/06/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective<br>Site Name: -<br>Correspondence Address: - |
| Not shown | 1230 | W | 280307 212026 | Site Address: Dan Y Parc Council Depot, Caerbont, , , Abercrave, Powys, SA9 1SP<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: UP3290VF<br>EPR reference: -<br>Operator: Powys County Council<br>Waste Management licence No: 102481<br>Annual Tonnage: 6860.0 | Issue Date: 28/06/2012<br>Effective Date: 28/06/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective<br>Site Name: -<br>Correspondence Address: - |
| Not shown | 1230 | W | 280307 212026 | Site Address: Dan Y Parc Council Depot, Caerbont, Powys, Abercrave, Powys, SA9 1SP<br>Type: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: UP3290VF<br>EPR reference: -<br>Operator: Powys County Council<br>Waste Management licence No: 102481<br>Annual Tonnage: 6860.0 | Issue Date: 28/06/2012<br>Effective Date: 28/06/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective<br>Site Name: -<br>Correspondence Address: - |

# 4. Current Land Use Map




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Site Outline

250
500
Search Buffers (m)

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

# 4. Current Land Uses

## 4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 43

The following records are represented as points on the Current Land Uses map.

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 1 | 0 | On Site | Opencast Mine Workings | 281919 211486 | Powys, SA9 | Unspecified Quarries Or Mines | Extractive Industries |
| 2 | 0 | On Site | Nant-Helen Opencast Coal Mine | 282540 211432 | Powys, SA9 | Unspecified Quarries Or Mines | Extractive Industries |
| 3 | 0 | On Site | Pylon | 282853 210520 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 4 | 0 | On Site | Pylon | 282874 210396 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 5 | 0 | On Site | Pylon | 283188 210579 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 6 | 0 | On Site | Pylon | 283477 210630 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 7 | 0 | On Site | Opencast Workings | 283159 210831 | Powys, SA10 | Unspecified Quarries Or Mines | Extractive Industries |
| 8 | 0 | On Site | Tank | 282408 212116 | Powys, SA9 | Tanks (Generic) | Industrial Features |
| 9 | 0 | On Site | Tank | 283248 210867 | Powys, SA10 | Tanks (Generic) | Industrial Features |
| 10 | 0 | On Site | Pylon | 285045 210751 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 11 | 0 | On Site | Pylon | 282570 210470 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 12 | 0 | On Site | Pylon | 282244 210412 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 13 | 0 | On Site | Pylon | 282058 210379 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 14 | 0 | On Site | Pylon | 283490 210499 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 15B | 0 | On Site | Celtic Energy | 284538 210462 | Coelbren, Neath, West Glamorgan, SA10 9NL | Fuel Distributors and Suppliers | Household, Office, Leisure and Garden |
| 16 | 0 | On Site | Pylon | 282567 210346 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 17 | 0 | On Site | Pylon | 282196 210283 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 18A | 0 | On Site | Tank | 284292 210584 | West Glamorgan, SA10 | Tanks (Generic) | Industrial Features |
| 19A | 0 | On Site | Tank | 284309 210604 | West Glamorgan, SA10 | Tanks (Generic) | Industrial Features |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 20 | 0 | On Site | Pylon | 284431 210769 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 21 | 0 | On Site | Pumping Station | 285384 210245 | West Glamorgan, SA10 | Water Pumping Stations | Industrial Features |
| 22B | 0 | On Site | Works | 284525 210509 | West Glamorgan, SA10 | Unspecified Works Or Factories | Industrial Features |
| 23A | 0 | On Site | Tank | 284285 210568 | West Glamorgan, SA10 | Tanks (Generic) | Industrial Features |
| 24A | 0 | On Site | Tank | 284282 210571 | West Glamorgan, SA10 | Tanks (Generic) | Industrial Features |
| 25 | 0 | On Site | Gantry | 284586 210690 | West Glamorgan, SA10 | Travelling Cranes and Gantries | Industrial Features |
| 26 | 0 | On Site | CPL Distribution Ltd | 284464 210442 | Weighbridge, Onllwyn, Neath, West Glamorgan, SA10 9HN | Fuel Distributors and Suppliers | Household, Office, Leisure and Garden |
| 27 | 20 | N | Pylon | 284748 210761 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 28 | 22 | NE | Pylon | 285250 210634 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 29 | 23 | S | Pylon | 283160 210444 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 30 | 23 | S | Pylon | 283740 210245 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 31 | 23 | S | Pylon | 281793 210332 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 32C | 28 | N | Electricity Sub Station | 283469 212011 | Powys, SA9 | Electrical Features | Infrastructure and Facilities |
| 33 | 31 | S | Electricity Sub Station | 285286 210192 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 34C | 36 | N | Electricity Sub Station | 283468 212019 | Powys, SA9 | Electrical Features | Infrastructure and Facilities |
| 35 | 56 | NW | Pylon | 284284 210772 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 36 | 81 | S | Pylon | 283741 210676 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 37 | 104 | NW | Slag Heap (Disused) | 282048 212236 | Powys, SA9 | Refuse Disposal Facilities | Infrastructure and Facilities |
| 38 | 110 | SW | R C Davies Skip Hire | 283163 210054 | 48, Golwg y Bryn, Seven Sisters, Neath, West Glamorgan, SA10 9BY | Construction and Tool Hire | Hire Services |
| 39 | 121 | S | Pylon | 281824 210219 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 40 | 136 | NE | Pylon | 285545 210465 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |
| 41 | 144 | S | R C Davies Skip Hire | 285203 210077 | 49, Main Road, Dyffryn Cellwen, West Glamorgan, SA10 9HR | Construction and Tool Hire | Hire Services |
| 42 | 160 | N | Pylon | 283997 210721 | Powys, SA10 | Electrical Features | Infrastructure and Facilities |
| 43 | 233 | E | Pylon | 285735 210354 | West Glamorgan, SA10 | Electrical Features | Infrastructure and Facilities |

## 4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

---

## 4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

---

## 4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

---

# 5. Geology

## 5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

## 5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| PEAT-P | PEAT | PEAT |
| PEAT-P | PEAT | PEAT |
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |

## 5.3 Bedrock and Solid Geology

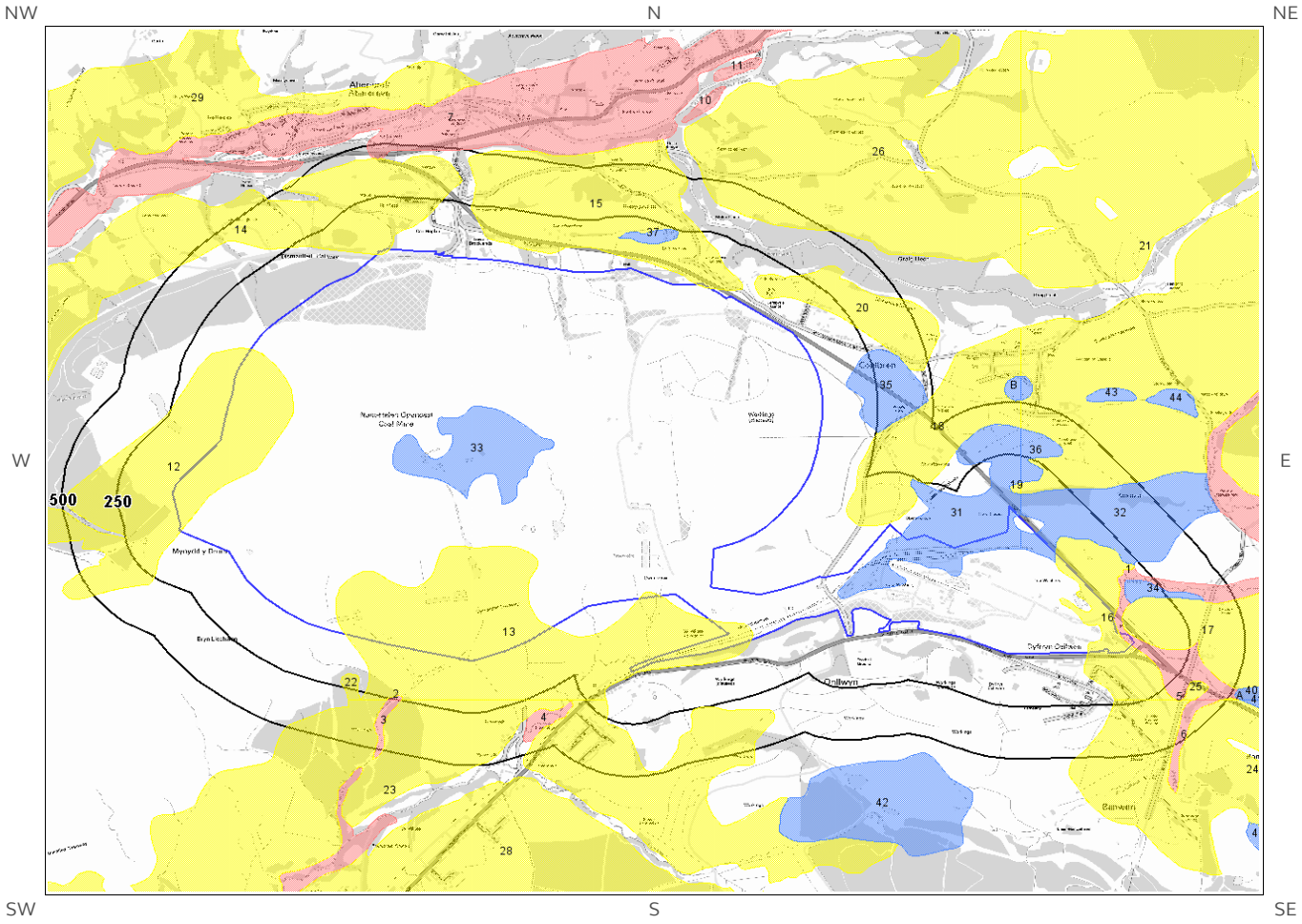
The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| SWLCM-MDSS | SOUTH WALES LOWER COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| SWLCM-MDSS | SOUTH WALES LOWER COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| SWLCM-MDSS | SOUTH WALES LOWER COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| SWMCM-SDST | SOUTH WALES MIDDLE COAL MEASURES FORMATION | SANDSTONE |
| SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology




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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

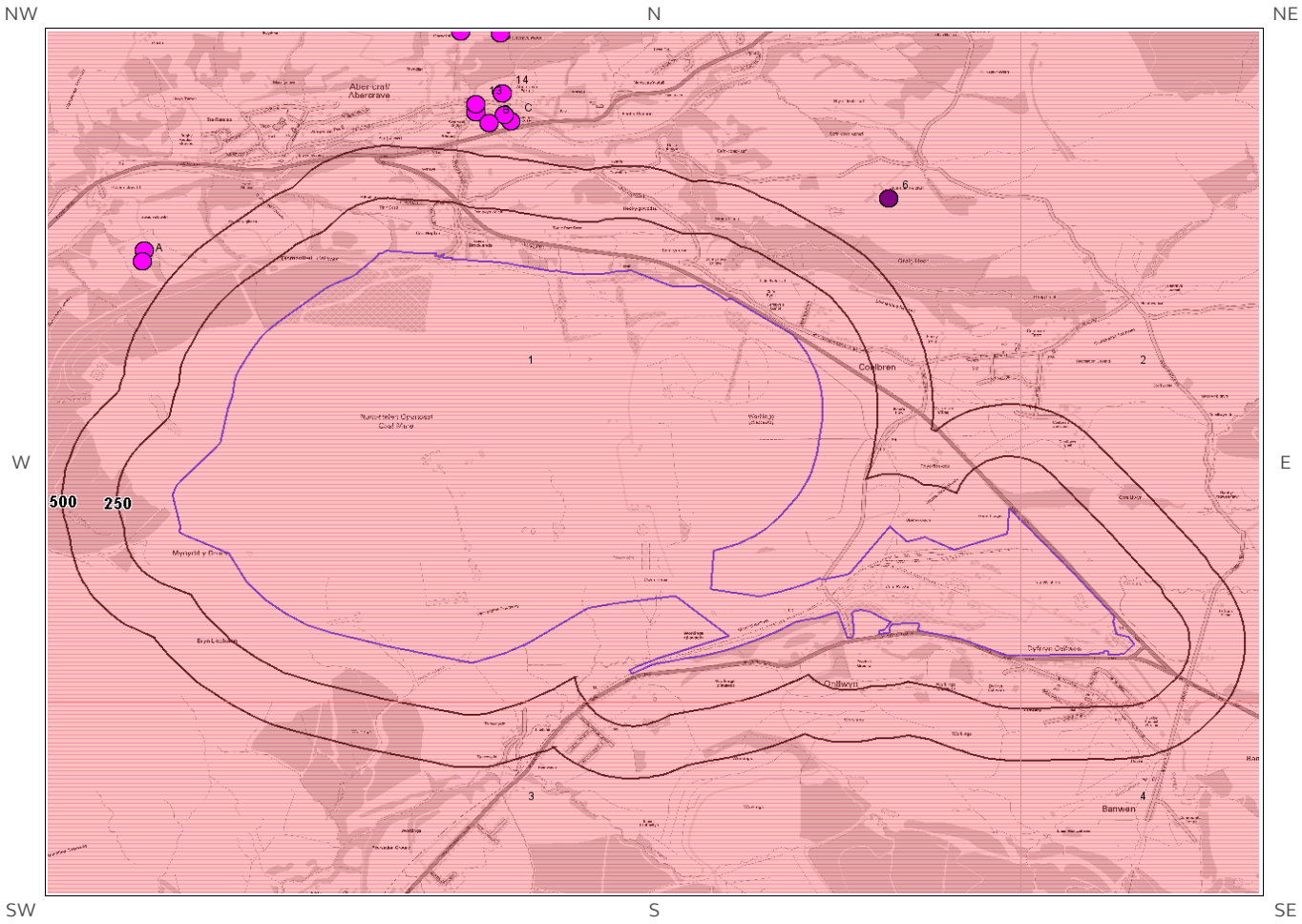
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

# 6b. Aquifer Within Bedrock Geology and Abstraction Licences




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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

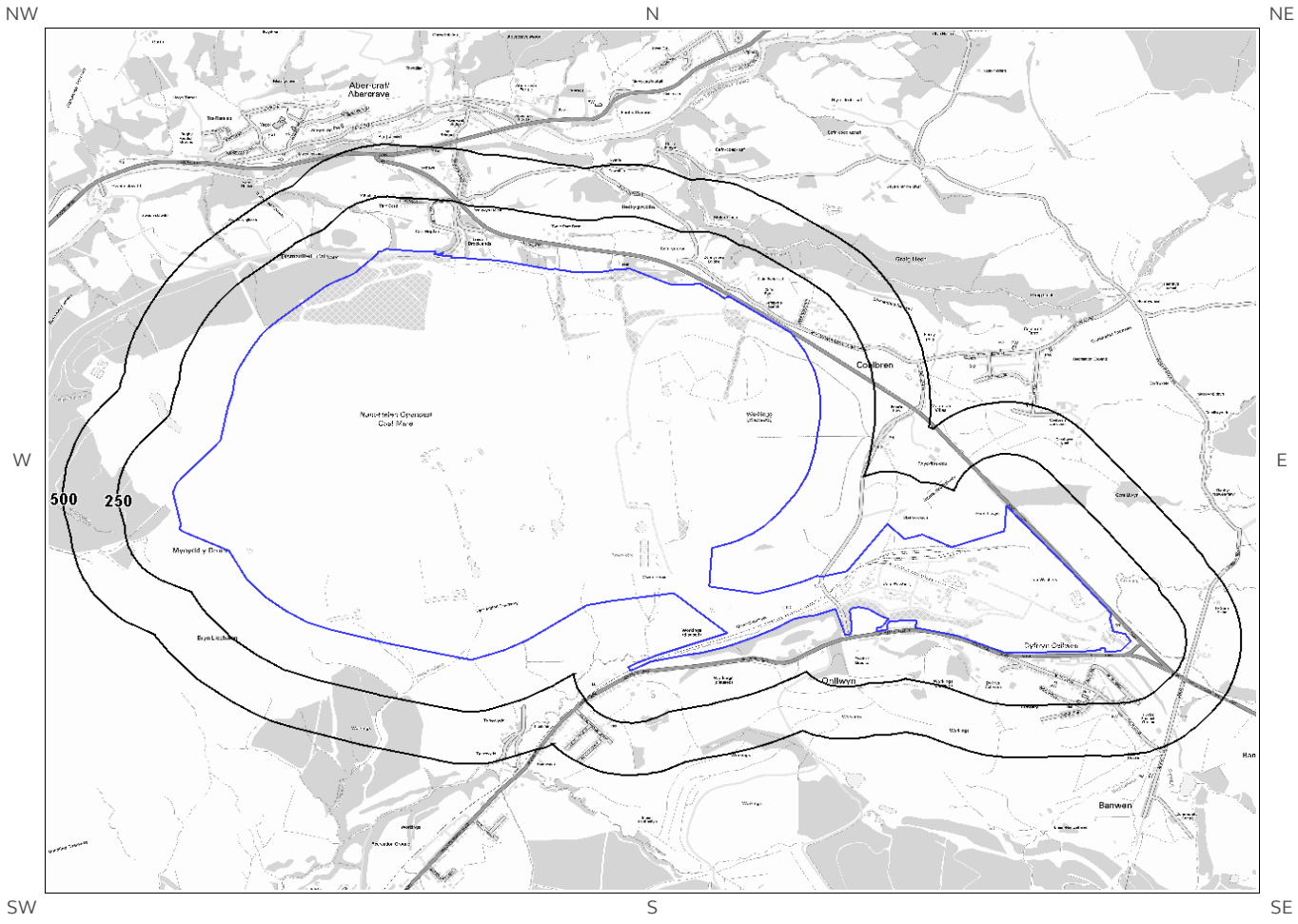
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences




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Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

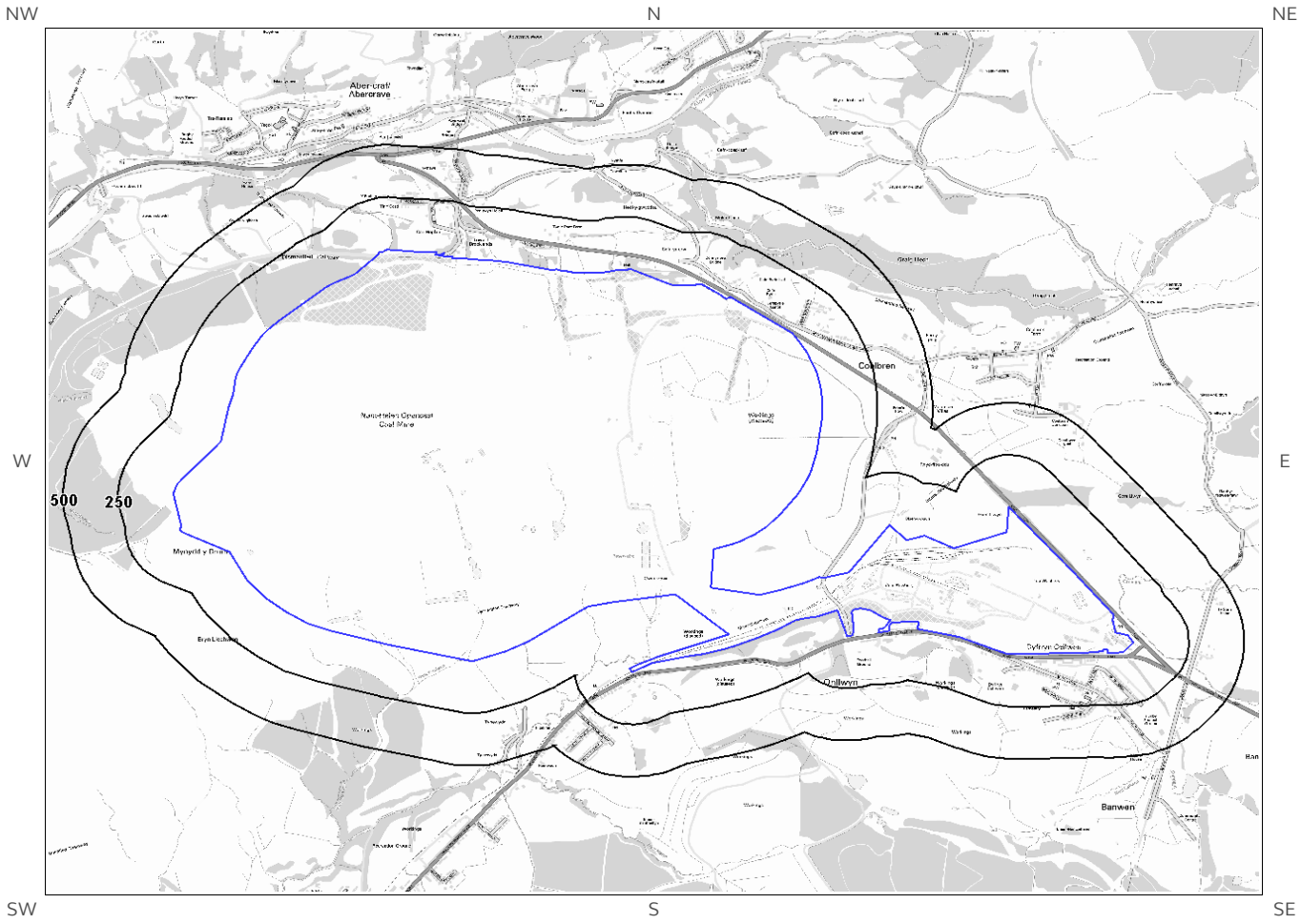
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

# 6d. Hydrogeology – Source Protection Zones within confined aquifer




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Site Outline

250
500
Search Buffers (m)

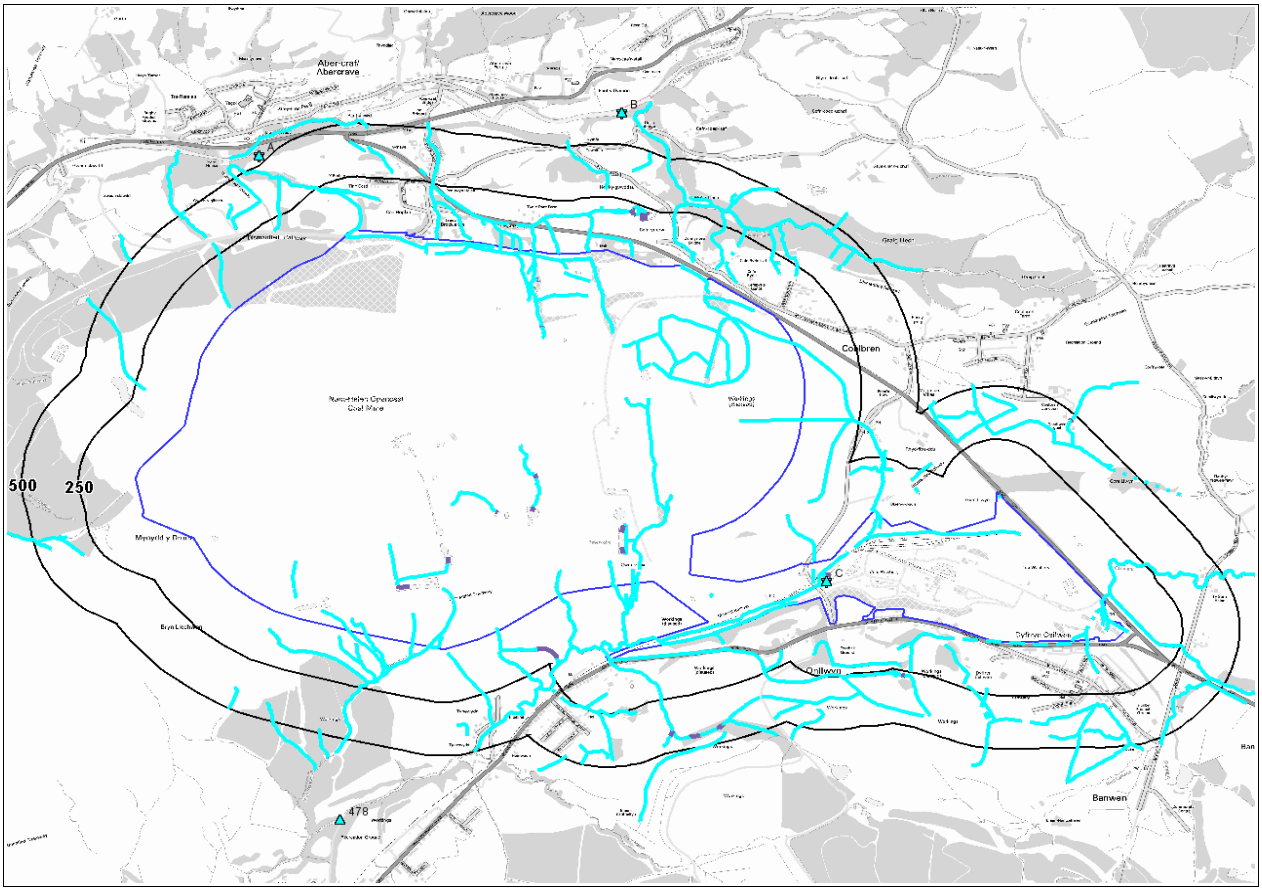
Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

# 6e. Hydrology – Watercourse Network and River Quality




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Site Outline

250 500 Search Buffers (m)

Watercourse type

- Tidal River
- Inland River
- Canal
- Lock or Flight of Locks
- Lake, Reservoir, or Marsh
- Foreshore
- Drain or Transfer

Watercourse level

- On ground surface
- Underground or Elevated
- Level unknown

- General Quality Assessment: Biology
- General Quality Assessment: Chemistry

# 6.Hydrogeology and Hydrology

## 6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| 1 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 12 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 13 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 14 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 15 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 16 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 31 | 0 | On Site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 32 | 0 | On Site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 33 | 0 | On Site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 17 | 4 | NE | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 18 | 10 | N | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 19 | 70 | N | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 20 | 71 | NE | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 21 | 81 | NE | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 34 | 94 | NE | Unproductive | These are rock layers or drift deposits with low permeability that have negligible |

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| | | | | significance for water supply or river base flow |
| 35 | 118 | E | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 36 | 129 | NE | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 37 | 136 | N | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 22 | 175 | S | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 23 | 179 | SW | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 24 | 223 | S | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 2 | 228 | S | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 3 | 245 | S | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 4 | 306 | SW | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 25 | 316 | SE | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 5 | 327 | SE | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 6 | 373 | SE | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 26 | 377 | NE | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 7 | 431 | N | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 27A | 481 | SE | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

## 6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| 1 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 3 | 131 | S | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 4 | 217 | S | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

## 6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 5A | 647 | NW | 281020 212100 | Status: Active<br>Licence No: 22/59/1/0119<br>Details: Unknown (Impounding) -<br>Direct Source: -<br>Point: -<br>Data Type: Point<br>Name: - | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date:<br>Expiry Date:<br>Issue No:<br>Version Start Date: -<br>Version End Date: |
| 6 | 781 | NE | 284400 212400 | Status: Historical<br>Licence No: 22/59/1/0032<br>Details: General Farming & Domestic<br>Direct Source: EAW Groundwater<br>Point: SPRING AT GLYNLLECH<br>Data Type: Point<br>Name: Millward | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date:<br>Expiry Date:<br>Issue No:<br>Version Start Date: 28/12/1966<br>Version End Date: |

## 6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site — Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 7A | 647 | NW | 281020<br>212100 | Status: Historical<br>Licence No: 22/59/1/0105<br>Details: Make-Up Or Top Up Water<br>Direct Source: EAW Surface Water<br>Point: RESERVOIR AT GWAUNCLAWDD FARM, CAERLAN<br>Data Type: Point<br>Name: Morgan | Annual Volume ($m^3$): 1,310<br>Max Daily Volume ($m^3$): 164<br>Application No: -<br>Original Start Date: -<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2007<br>Version End Date: |
| 8B | 655 | N | 282590<br>212760 | Status: Historical<br>Licence No: 22/59/1/0126<br>Details: Fish Farm/Cress Pond Throughflow<br>Direct Source: EAW Surface Water<br>Point: RIVER TAWE<br>Data Type: Point<br>Name: Tawe and Tributaries Angling Association Limited | Annual Volume ($m^3$): 1,401,600<br>Max Daily Volume ($m^3$): 3,840<br>Application No: -<br>Original Start Date: 17/05/2005<br>Expiry Date: 31/03/2014<br>Issue No: 3<br>Version Start Date: 17/11/2009<br>Version End Date: |
| 9A | 670 | NW | 281030<br>212150 | Status: Historical<br>Licence No: 22/59/1/0105<br>Details: Make-Up Or Top Up Water<br>Direct Source: EAW Surface Water<br>Point: RESERVOIR AT GWAUNCLAWDD FARM, CAERLAN<br>Data Type: Point<br>Name: Morgan | Annual Volume ($m^3$): 1,310<br>Max Daily Volume ($m^3$): 164<br>Application No: -<br>Original Start Date: 30/07/1991<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2007<br>Version End Date: |
| 10C | 672 | N | 282690<br>212770 | Status: Historical<br>Licence No: 22/59/1/0103<br>Details: Fish Farm/Cress Pond Throughflow<br>Direct Source: EAW Surface Water<br>Point: UNAMED TRIBUTARY OF RIVER TAWE<br>Data Type: Point<br>Name: Tawe and Tributaries Angling Association | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Application No: -<br>Original Start Date: -<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 07/06/1991<br>Version End Date: |
| 11B | 688 | N | 282530<br>212810 | Status: Historical<br>Licence No: 22/59/1/0126<br>Details: Fish Farm/Cress Pond Throughflow<br>Direct Source: EAW Surface Water<br>Point: CRAF TRIBUTARY<br>Data Type: Point<br>Name: Tawe and Tributaries Angling Association Limited | Annual Volume ($m^3$): 1,401,600<br>Max Daily Volume ($m^3$): 3,840<br>Application No: -<br>Original Start Date: 17/05/2005<br>Expiry Date: 31/03/2014<br>Issue No: 3<br>Version Start Date: 17/11/2009<br>Version End Date: |
| 12C | 699 | N | 282660<br>212800 | Status: Historical<br>Licence No: 22/59/1/0126<br>Details: Fish Farm/Cress Pond Throughflow<br>Direct Source: EAW Surface Water<br>Point: UN NAMED TRIB OF RIVER TAWE<br>Data Type: Point<br>Name: Tawe and Tributaries Angling Association Limited | Annual Volume ($m^3$): 1,401,600<br>Max Daily Volume ($m^3$): 3,840<br>Application No: -<br>Original Start Date: 17/05/2005<br>Expiry Date: 31/03/2014<br>Issue No: 3<br>Version Start Date: 17/11/2009<br>Version End Date: |
| 13 | 728 | N | 282530<br>212850 | Status: Historical<br>Licence No: 22/59/1/0126<br>Details: Fish Farm/Cress Pond Throughflow<br>Direct Source: EAW Surface Water<br>Point: CRAF TRIBUTARY<br>Data Type: Point<br>Name: Tawe and Tributaries Angling Association | Annual Volume ($m^3$): 1,401,600<br>Max Daily Volume ($m^3$): 3,840<br>Application No: -<br>Original Start Date: 17/05/2005<br>Expiry Date: 31/03/2014<br>Issue No: 1<br>Version Start Date: 17/05/2005<br>Version End Date: |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 14 | 798 | N | 282650<br>212900 | Status: Historical<br>Licence No: 22/59/1/0126<br>Details: Fish Farm/Cress Pond Throughflow<br>Direct Source: EAW Surface Water<br>Point: UN NAMED TRIB OF RIVER TAWE<br>Data Type: Point<br>Name: Tawe and Tributaries Angling Association | Annual Volume (m³): 1,401,600<br>Max Daily Volume (m³): 3,840<br>Application No: -<br>Original Start Date: 17/05/2005<br>Expiry Date: 31/03/2014<br>Issue No: 1<br>Version Start Date: 17/05/2005<br>Version End Date: |
| 15D | 1066 | N | 282460<br>213200 | Status: Active<br>Licence No: 22/59/1/0132<br>Details: Hydro-electric Power Generation - Very Low<br>Direct Source: pond at Garwleisau<br>Point: -<br>Data Type: Point<br>Name: - | Annual Volume (m³): 65,000<br>Max Daily Volume (m³): -<br>Application No: -<br>Original Start Date: 04/04/2017<br>Expiry Date: Mar 31 2029 12:00AM<br>Issue No: -<br>Version Start Date: -<br>Version End Date: |
| 16D | 1066 | N | 282460<br>213200 | Status: Historical<br>Licence No: 22/59/1/0132<br>Details: Hydroelectric Power Generation<br>Direct Source: EAW Surface Water<br>Point: UNNAMED POND AT GARW LEISIAU, ABERCRAF<br>Data Type: Point<br>Name: Bull | Annual Volume (m³): 65,000<br>Max Daily Volume (m³): 432<br>Application No: -<br>Original Start Date: 15/11/2007<br>Expiry Date: 31/03/2017<br>Issue No: 1<br>Version Start Date: 15/11/2007<br>Version End Date: |
| 17E | 1083 | N | 282640<br>213190 | Status: Historical<br>Licence No: 22/59/1/0131<br>Details: Hydroelectric Power Generation<br>Direct Source: EAW Surface Water<br>Point: ABERCRAF FARM<br>Data Type: Point<br>Name: Williams | Annual Volume (m³): 630,720<br>Max Daily Volume (m³): 1,728<br>Application No: -<br>Original Start Date: 28/11/2007<br>Expiry Date: 31/3/2017<br>Issue No: 1<br>Version Start Date: 28/11/2007<br>Version End Date: |
| 18E | 1083 | N | 282640<br>213190 | Status: Active<br>Licence No: WA/059/0001/011<br>Details: Hydro-electric Power Generation - Very Low<br>Direct Source: -<br>Point: -<br>Data Type: Point<br>Name: - | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Application No: -<br>Original Start Date: 07/03/2013<br>Expiry Date: -<br>Issue No: -<br>Version Start Date: -<br>Version End Date: |
| Not shown | 1110 | N | 282622<br>213221 | Status: Active<br>Licence No: WA/059/0001/008<br>Details: Hydro-electric Power Generation - Very Low<br>Direct Source: unnamed trib' of Afon Tawe<br>Point: -<br>Data Type: Point<br>Name: - | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Application No: -<br>Original Start Date: 03/11/2016<br>Expiry Date: -<br>Issue No: -<br>Version Start Date: -<br>Version End Date: |
| Not shown | 1110 | N | 282622<br>213221 | Status: Active<br>Licence No: WA/059/0001/010<br>Details: Hydro-electric Power Generation - Very Low<br>Direct Source: unnamed trib' of Afon Tawe<br>Point: -<br>Data Type: Point<br>Name: - | Annual Volume (m³): 589,248<br>Max Daily Volume (m³): -<br>Application No: -<br>Original Start Date: 03/11/2016<br>Expiry Date: Mar 30 2029 12:00AM<br>Issue No: -<br>Version Start Date: -<br>Version End Date: |
| Not shown | 1110 | N | 282622<br>213221 | Status: Historical<br>Licence No: WA/059/0001/010<br>Details: Hydroelectric Power Generation<br>Direct Source: EAW Surface Water<br>Point: UN-NAMED TRIBUTARY OF THE AFON TAWE<br>Data Type: Point<br>Name: Williams | Annual Volume (m³): 589,248<br>Max Daily Volume (m³): 2,678<br>Application No: -<br>Original Start Date: 07/03/2013<br>Expiry Date: 31/03/2029<br>Issue No: 1<br>Version Start Date: 07/03/2013<br>Version End Date: |
| Not | 1274 | N | 281820 | Status: Historical | Annual Volume (m³): - |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| shown | | | 213390 | Licence No: 22/59/1/0122<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: EAW Surface Water<br>Point: SPRING, UNNAMED TRIB OF AFON TAWE AT MAES-Y-FRON<br>Data Type: Point<br>Name: Call of the Wild (Adventure Activities) Ltd. | Max Daily Volume ($m^3$): -<br>Application No: -<br>Original Start Date: -<br>Expiry Date: 31/03/2014<br>Issue No: 2<br>Version Start Date: 01/04/2005<br>Version End Date: |

## 6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site — Identified

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 1274 | N | 281820 213390 | Status: Historical<br>Licence No: 22/59/1/0122<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: EAW Surface Water<br>Point: SPRING, UNNAMED TRIB OF AFON TAWE AT MAES-Y-FRON<br>Data Type: Point<br>Name: Call of the Wild (Adventure Activities) Ltd. | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: -<br>Expiry Date: 31/03/2014<br>Issue No: 2<br>Version Start Date:<br>Version End Date: |

## 6.6 Source Protection Zones

Source Protection Zones within 500m of the study site — None identified

Database searched and no data found.

## 6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

## 6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

| Distance (m) | Direction | Classification | Soil Vulnerability Category | Description |
|---|---|---|---|---|
| 0 | On Site | Minor Aquifer/High Leaching Potential | HU | Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information. |
| 0 | On Site | Minor Aquifer/Low Leaching Potential | L | Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants. |
| 31 | S | Minor Aquifer/High Leaching Potential | HU | Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information. |
| 131 | S | Minor Aquifer/Low Leaching Potential | L | Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants. |
| 324 | N | Minor Aquifer/Intermediate Leaching Potential | I1 | Soils which can possibly transmit a wide range of pollutants. |

## 6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

### 6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

| ID | Distance (m) | Direction | NGR | River Quality Grade | Biological Quality Grade | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2005 | 2006 | 2007 | 2008 | 2009 |
| 466C | 0 | On Site | 284200 210500 | River Name: Neath Dulais<br>Reach: Conf.nant Hir (7 Sisters)-onllwyn Rd.br.<br>End/Start of Stretch: Start of Stretch NGR | B | B | B | B | B |
| 467A | 531 | NW | 281700 212500 | River Name: Tawe<br>Reach: Conf.r.giedd - Abercraf R.b.<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| 468A | 531 | NW | 281700 212500 | River Name: Tawe<br>Reach: Abercraf R.b. - Conf. Nant Llech<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| 469B | 645 | N | 283300 212700 | River Name: Tawe<br>Reach: Abercraf R.b. - Conf. Nant Llech<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| 470B | 645 | N | 283300 212700 | River Name: Tawe<br>Reach: Conf. Nant Llech - Conf.nant Tawe Fechan<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 849 | NE | 286300 210600 | River Name: Nedd Fechan<br>Reach: Conf.r.nedd Fechan - Conf.r.camnant<br>End/Start of Stretch: Start of Stretch NGR | B | B | B | B | B |

### 6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

| | | | | | Chemical Quality Grade | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ID | Distance (m) | Direction | NGR | River Quality Grade | 2005 | 2006 | 2007 | 2008 | 2009 |
| 472C | 0 | On Site | 284200 210500 | River Name: Dulais<br>Reach: Conf.nant Hir (7 Sisters)-onllwyn Rd.br.<br>End/Start of Stretch: Start of Stretch NGR | A | B | B | C | - |
| 473A | 531 | NW | 281700 212500 | River Name: Tawe<br>Reach: Abercraf R.b. - Conf. Nant Llech<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | - |
| 474A | 531 | NW | 281700 212500 | River Name: Tawe<br>Reach: Conf.r.giedd - Abercraf R.b.<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | - |
| 475B | 645 | N | 283300 212700 | River Name: Tawe<br>Reach: Conf. Nant Llech - Conf.nant Tawe Fechan<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | - |
| 476B | 645 | N | 283300 212700 | River Name: Tawe<br>Reach: Abercraf R.b. - Conf. Nant Llech<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | - |
| Not shown | 849 | NE | 286300 210600 | River Name: Pyrddin<br>Reach: Conf.r.nedd Fechan - Conf.r.camnant<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | - |
| 478 | 879 | S | 282060 209380 | River Name: Dulais<br>Reach: Conf.nant Hir (7 Sisters)-onllwyn Rd.br.<br>End/Start of Stretch: Sample Point NGR | A | B | B | C | - |

## 6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 1 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 2 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 3 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 4 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 5 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 6 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 7 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 8 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 9 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 10 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 11 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 12 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): 2.3 |
| 13 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 14 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 15 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 16 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 17 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 18 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 19 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 20 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 21 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 22 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 23 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 24 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 25 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 26 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 27 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 28 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 29 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 30 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 31 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 32 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 33 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 34 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 35 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 36 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 37 | 0 | Nant Helen | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.8 |
| 38 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 39 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 40 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 41 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 42 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 43 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 44 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 45 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 46 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 47 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 48 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 49 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 50 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 51 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 52 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 53 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 54 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.8 |
| 55 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 56 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 57 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 58 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 59 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.6 |
| 60 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area:<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 61 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.6 |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 62 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 63 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 64 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 65 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 66 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 67 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 68 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.6 |
| 69 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 70 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 71 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 72 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 73 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 74 | 0 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 75 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 76 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 77 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 78 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 79 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 80 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 81 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 82 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 83 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 84 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 85 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 86 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 87 | 0<br>On Site | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 88 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 89 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 90 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 91 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 92 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 93 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 94 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 95 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 96 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 97 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 98 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 99 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 100 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 101 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 102 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 103 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 32.8 |
| 104 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 105 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 8.4 |
| 106 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 107 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 108 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 109 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 110 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 111 | 0 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 112 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.2 |
| 113 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 114 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 115 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 116 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 117 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 118 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 119 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 120 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 121 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 122 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 123 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): 22.4 |
| 124 | 0 On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 23.3 |
| 125 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 126 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 127 | 0 On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 128 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 129 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 130 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 131 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 132 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 133 | 0 On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 134 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 135 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 136 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 137 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 138 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 139 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 140 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 141 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 142 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 143 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 144 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 145 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 146 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 147 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 148 | 0 | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 149 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 150 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 151 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 152 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 153 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 154 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.3 |
| 155 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 156 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.4 |
| 157 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 158 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.4 |
| 159 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 160 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 161 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.4 |
| 162 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 163 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 164 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 165 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 166 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 167 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 168 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 169 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 170 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 171 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 172 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 173 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 174 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 175 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 176 | 0<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 177 | 0<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 178 | 0<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 179 | 0<br>N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 34 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 35 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 36 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 37 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 38 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 39 | 0 | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 40 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 41 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 42 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 43 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 44 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 45 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 46 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 47 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 48 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 49 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 50 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 51 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 52 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 53 | 0 On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 54 | 0 On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 55 | 0 On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 56 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 57 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 58 | 0 On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 59 | 0 On Site | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 60 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 61 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 62 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 63 | 0 On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 64 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 65 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 66 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 67 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 68 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 69 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 70 | 0<br>On Site | Nant Helen | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.8 |
| 71 | 0<br>On Site | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 72 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 73 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 74 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 75 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 76 | 0 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 77 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 78 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 79 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 80 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 81 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 82 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 83 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 84 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 85 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 86 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 87 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.8 |
| 88 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): 2.5 |
| 89 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 90 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 91 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 92 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.6 |
| 93 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area:<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 94 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.6 |
| 95 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 96 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 97 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 98 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 99 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 100 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 101 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.6 |
| 102 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 103 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 104 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 105 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 106 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 107 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 108 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 109 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 110 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 111 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 112 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 113 | 0 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 114 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 115 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 116 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 117 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 118 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 119 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 120 | 0<br>On Site | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 121 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 122 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 123 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 124 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 125 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 126 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 127 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 128 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 129 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 130 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 131 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 132 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 133 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 134 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 135 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 136 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 32.8 |
| 137 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 138 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 8.4 |
| 139 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 140 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 141 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 142 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 143 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 144 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 145 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.2 |
| 146 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 147 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 148 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 149 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 150 | 0 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 151 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 152 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 153 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 154 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 155 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 156 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 22.4 |
| 157 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 23.3 |
| 158 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 159 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 160 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 161 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 162 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 163 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 164 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 165 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 166 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 167 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 168 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 169 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 170 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 171 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 172 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 173 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 174 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 175 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 176 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 177 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 178 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 179 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 180 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 181 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 182 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 183 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 184 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 185 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 186 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 187 | 0 | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.3 |
| 188 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 189 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.4 |
| 190 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 191 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.4 |
| 192 | 0<br>On Site | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 193 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 194 | 0<br>On Site | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.4 |
| 195 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 196 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 197 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 198 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 199 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 200 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 201 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 202 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 203 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 204 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 205 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 206 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 207 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 208 | 0<br>On Site | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 209 | 0<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 210 | 0<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 211 | 0<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 212 | 0 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 180 | 1 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 181 | 1 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 182 | 1 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.8 |
| 213 | 1 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 214 | 1 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 215 | 1 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.8 |
| 183 | 2 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 184 | 2 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 185 | 2 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 216 | 2 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 217 | 2 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 218 | 2 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | E | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 186 | 5<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 219 | 5<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 187 | 11<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 220 | 11<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 188 | 12<br>N | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.4 |
| 221 | 12<br>N | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.4 |
| 189 | 17<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 222 | 17<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 190 | 22<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 223 | 22<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 191 | 23<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 224 | 23<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 192 | 24 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 225 | 24 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 193 | 25 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 226 | 25 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 194 | 30 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 227 | 30 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 195 | 35 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 228 | 35 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 196 | 38 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 229 | 38 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 197 | 40 NE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.2 |
| 230 | 40 NE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.2 |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 198 | 41 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 231 | 41 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 199 | 43 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 200 | 43 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 232 | 43 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 233 | 43 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 201 | 45 NE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.2 |
| 234 | 45 NE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.2 |
| 202 | 47 NW | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.3 |
| 235 | 47 NW | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.3 |
| 203 | 51 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 204 | 51 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 236 | 51 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | S | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 237 | 51<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 205 | 53<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 206 | 53<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 207 | 53<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 238 | 53<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 239 | 53<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 240 | 53<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 208 | 54<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 241 | 54<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 209 | 55<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 242 | 55<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 210 | 57<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 243 | 57 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 211 | 62 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 212 | 62 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 244 | 62 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 245 | 62 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 213 | 63 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 246 | 63 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 214 | 69 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 247 | 69 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 215 | 71 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 216 | 71 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 248 | 71 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 249 | 71 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 217 | 74 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 250 | 74 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.1 |
| 218 | 76 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 219 | 76 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 251 | 76 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 252 | 76 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 220 | 79 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 221 | 79 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 253 | 79 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 254 | 79 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 222 | 83 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 255 | 83 | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | N | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 223 | 86<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 224 | 86<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 256 | 86<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 257 | 86<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 225 | 87<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 226 | 87<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 258 | 87<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 259 | 87<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 227 | 89<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 260 | 89<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 228 | 90<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 261 | 90<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 229 | 96 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 262 | 96 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 230 | 98 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 263 | 98 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 231 | 100 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 264 | 100 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 232 | 103 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 265 | 103 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 233 | 106 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 234 | 106 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 235 | 106 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 236 | 106 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 266 | 106 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 267 | 106 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 268 | 106 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 269 | 106 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 237 | 112 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 270 | 112 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 238 | 113 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 271 | 113 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 239 | 115 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 272 | 115 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 240 | 120 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 273 | 120 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 241 | 125 | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | N | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 274 | 125<br>N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 242 | 128<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 275 | 128<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 243 | 129<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 276 | 129<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 244 | 133<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 277 | 133<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 245 | 139<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 278 | 139<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 246 | 140<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 279 | 140<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 247 | 143<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 280 | 143 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 248 | 145 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 281 | 145 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 249 | 147 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 282 | 147 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 250 | 149 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 251 | 149 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 283 | 149 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 284 | 149 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 252 | 153 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.1 |
| 285 | 153 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.1 |
| 253 | 154 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 254 | 154 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 286 | 154 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 287 | 154 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 255 | 155 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 288 | 155 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 256 | 156 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 257 | 156 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.7 |
| 258 | 156 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 259 | 156 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.7 |
| 289 | 156 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 290 | 156 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.7 |
| 291 | 156 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 292 | 156 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | E | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.7 |
| 260 | 158<br>W | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.6 |
| 293 | 158<br>W | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.6 |
| 261 | 160<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 294 | 160<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 262 | 163<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.4 |
| 295 | 163<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.4 |
| 263 | 164<br>SE | - | Marsh. An area that is predominantly waterlogged by freshwater. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 296 | 164<br>SE | - | Marsh. An area that is predominantly waterlogged by freshwater. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 264 | 165<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 297 | 165<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 265 | 166<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 298 | 166<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 266 | 169 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 267 | 169 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 299 | 169 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 300 | 169 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 268 | 171 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 301 | 171 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 269 | 172 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 302 | 172 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 270 | 179 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 303 | 179 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 271 | 180 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 304 | 180 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 272 | 181 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 305 | 181 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 273 | 184 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 274 | 184 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 306 | 184 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 307 | 184 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 275 | 185 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 276 | 185 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 308 | 185 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 309 | 185 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 277 | 186 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 310 | 186 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 278 | 189 | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | N | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 311 | 189<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 279 | 193<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 280 | 193<br>S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 312 | 193<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 313 | 193<br>S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 281 | 194<br>N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 314 | 194<br>N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 282 | 195<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 283 | 195<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 315 | 195<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 316 | 195<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 284 | 198<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): 1.9 |
| 285 | 198 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 317 | 198 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 318 | 198 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 286 | 199 N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.3 |
| 287 | 199 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 4.9 |
| 319 | 199 N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.3 |
| 320 | 199 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 4.9 |
| 288 | 200 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 321 | 200 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 289 | 202 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 290 | 202 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 322 | 202 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 323 | 202 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 291 | 205 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 292 | 205 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 324 | 205 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 325 | 205 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 293 | 206 N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.3 |
| 326 | 206 N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.3 |
| 294 | 207 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 295 | 207 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 296 | 207 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 327 | 207 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 328 | 207 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 329 | 207 | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | NW | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.3 |
| 297 | 209<br>N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.3 |
| 330 | 209<br>N | - | Lake, loch or reservoir. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.3 |
| 298 | 210<br>S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 331 | 210<br>S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 299 | 211<br>W | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.7 |
| 300 | 211<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 332 | 211<br>W | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.7 |
| 333 | 211<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 301 | 216<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 334 | 216<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 302 | 217<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 335 | 217<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 303 | 218 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 304 | 218 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 336 | 218 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 337 | 218 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 305 | 219 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 338 | 219 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 306 | 221 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 339 | 221 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 307 | 222 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 340 | 222 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 308 | 224 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 341 | 224 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 309 | 226 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.7 |
| 342 | 226 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.7 |
| 310 | 228 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 343 | 228 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 311 | 229 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 344 | 229 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 312 | 232 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.1 |
| 345 | 232 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.1 |
| 313 | 238 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 346 | 238 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 314 | 239 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 315 | 239 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 347 | 239 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | S | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 348 | 239<br>N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 316 | 243<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 349 | 243<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 317 | 244<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 350 | 244<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 318 | 245<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 351 | 245<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 319 | 246<br>SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 352 | 246<br>SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 320 | 248<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 353 | 248<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 321 | 250<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 354 | 250 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 322 | 254 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 323 | 254 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 355 | 254 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 356 | 254 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 324 | 264 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 325 | 264 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 357 | 264 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 358 | 264 E | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 326 | 265 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 327 | 265 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 359 | 265 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 360 | 265 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 328 | 266 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 361 | 266 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 329 | 267 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 330 | 267 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 362 | 267 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 363 | 267 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 331 | 269 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 364 | 269 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 332 | 270 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 365 | 270 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 333 | 271 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 334 | 271 | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | S | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 5.9 |
| 366 | 271<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 367 | 271<br>S | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 5.9 |
| 335 | 275<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 368 | 275<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 336 | 277<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 369 | 277<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 337 | 279<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 370 | 279<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 338 | 283<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.4 |
| 371 | 283<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.4 |
| 339 | 284<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.1 |
| 372 | 284<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): 11.1 |
| 340 | 285 SW | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 373 | 285 SW | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 341 | 287 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 342 | 287 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 374 | 287 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 375 | 287 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 343 | 288 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 376 | 288 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 344 | 290 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 4.2 |
| 377 | 290 N | Nant Helen | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 4.2 |
| 345 | 291 N | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.1 |
| 378 | 291 N | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.1 |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 346 | 292 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 379 | 292 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 347 | 293 N | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 9.8 |
| 380 | 293 N | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 9.8 |
| 348 | 295 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 381 | 295 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 349 | 296 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 382 | 296 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 350 | 299 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 383 | 299 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 351 | 304 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 352 | 304 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 384 | 304 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | S | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 385 | 304<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 353 | 311<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 10.2 |
| 354 | 311<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 13.2 |
| 386 | 311<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 10.2 |
| 387 | 311<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 13.2 |
| 355 | 313<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 388 | 313<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 356 | 320<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.7 |
| 357 | 320<br>SW | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.8 |
| 389 | 320<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.7 |
| 390 | 320<br>SW | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.8 |
| 358 | 321<br>SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 391 | 321 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 359 | 327 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 392 | 327 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 360 | 330 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 361 | 330 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 362 | 330 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 363 | 330 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 393 | 330 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 394 | 330 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 395 | 330 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 396 | 330 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 364 | 331 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 397 | 331 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 365 | 339 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 366 | 339 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 398 | 339 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 399 | 339 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 367 | 342 NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.0 |
| 400 | 342 NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.0 |
| 368 | 345 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 369 | 345 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 401 | 345 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 402 | 345 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 370 | 347 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| 403 | 347 | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | NW | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| 371 | 350<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 404 | 350<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 372 | 352<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 373 | 352<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 405 | 352<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 406 | 352<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 374 | 353<br>S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 407 | 353<br>S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 375 | 359<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 376 | 359<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 377 | 359<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 378 | 359<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 408 | 359 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 409 | 359 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 410 | 359 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 411 | 359 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 379 | 361 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 380 | 361 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 412 | 361 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.9 |
| 413 | 361 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 381 | 363 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 382 | 363 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 414 | 363 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 415 | 363 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 383 | 364 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 384 | 364 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 416 | 364 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 417 | 364 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 385 | 367 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 418 | 367 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 386 | 370 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 419 | 370 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 387 | 374 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 420 | 374 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 388 | 375 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 421 | 375 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 389 | 376 | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | SE | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 422 | 376<br>SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 390 | 378<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 9.6 |
| 423 | 378<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 9.6 |
| 391 | 380<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 424 | 380<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 392 | 381<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 425 | 381<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 393 | 384<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 394 | 384<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 395 | 384<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 426 | 384<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 427 | 384<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 428 | 384 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 396 | 386 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 429 | 386 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 397 | 387 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 430 | 387 N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 398 | 391 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 431 | 391 S | Nant Ystalwyn | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 399 | 392 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 400 | 392 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 432 | 392 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 392 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 401 | 395 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 402 | 395 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 434 | 395 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 435 | 395 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 403 | 398 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 436 | 398 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 404 | 400 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 437 | 400 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 405 | 401 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| 438 | 401 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| 406 | 402 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 439 | 402 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 407 | 403 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 408 | 403 | - | Marsh. An area that is predominantly | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | S | | waterlogged by freshwater. | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 409 | 403<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 440 | 403<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 441 | 403<br>S | - | Marsh. An area that is predominantly waterlogged by freshwater. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 442 | 403<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 410 | 404<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 411 | 404<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 443 | 404<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 444 | 404<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 412 | 411<br>S | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 5.5 |
| 445 | 411<br>S | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 5.5 |
| 413 | 417<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 446 | 417<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 414 | 418 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 447 | 418 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 415 | 420 S | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.1 |
| 416 | 420 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 448 | 420 S | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.1 |
| 449 | 420 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 417 | 424 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 450 | 424 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 418 | 426 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 451 | 426 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 419 | 429 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.2 |
| 420 | 429 SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| Not shown | 429 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.2 |
| Not shown | 429 SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| 421 | 430 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 454 | 430 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 422 | 433 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 423 | 433 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 424 | 433 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 455 | 433 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 456 | 433 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 457 | 433 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 425 | 434 SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 426 | 434 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 434 | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | SE | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 434<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 427 | 436<br>SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 428 | 436<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 436<br>SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 436<br>SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 429 | 437<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 430 | 437<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 462 | 437<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 463 | 437<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 431 | 441<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 432 | 441<br>S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 464 | 441<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): Not Provided |
| 465 | 441 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 433 | 442 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 466 | 442 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 434 | 443 S | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 9.7 |
| 467 | 443 S | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 9.7 |
| 435 | 448 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 436 | 448 SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 468 | 448 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 469 | 448 SE | Camnant | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 437 | 449 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 438 | 449 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 470 | 449 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 471 | 449 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 439 | 450 NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.8 |
| 472 | 450 NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.8 |
| 440 | 451 NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.0 |
| 473 | 451 NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.0 |
| 441 | 453 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 474 | 453 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 442 | 455 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 443 | 455 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 475 | 455 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 476 | 455 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 444 | 456 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 477 | 456 | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | S | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 445 | 465<br>NE | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 4.4 |
| 478 | 465<br>NE | - | Lake, loch or reservoir. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 4.4 |
| 446 | 473<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.1 |
| 479 | 473<br>NE | Nant Llech | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.1 |
| 447 | 477<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 480 | 477<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 448 | 478<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 481 | 478<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 449 | 481<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 450 | 481<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 0.9 |
| 482 | 481<br>NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: Underground<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 481<br>W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | Average Width in Watercourse Section (m): 0.9 |
| 451 | 482 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 0.5 |
| Not shown | 482 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 0.5 |
| 452 | 483 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.6 |
| 453 | 483 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 483 W | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.6 |
| 486 | 483 SW | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 454 | 484 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 487 | 484 NE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 455 | 485 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 488 | 485 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 456 | 487 S | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 489 | 487 S | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 457 | 488 S | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.4 |
| 490 | 488 S | Dulais | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 7.4 |
| 458 | 490 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 459 | 490 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 491 | 490 S | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 490 SE | - | Inland river not influenced by normal tidal action. | Catchment Area: Neath<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 460 | 492 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 493 | 492 NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 461 | 493 N | Afon Tawe<br>Alternative Name: River Tawe | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 17.0 |
| 494 | 493 N | Afon Tawe<br>Alternative Name: River Tawe | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 17.0 |
| 462 | 496 N | Afon Tawe<br>Alternative Name: River Tawe | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 26.1 |
| 495 | 496 N | Afon Tawe<br>Alternative Name: River Tawe | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 26.1 |
| 463 | 498 | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | N | | | Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 496 | 498<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.5 |
| 464 | 499<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 465 | 499<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 497 | 499<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.9 |
| 498 | 499<br>NW | - | Inland river not influenced by normal tidal action. | Catchment Area: Tawe<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

## 6.11 Surface Water Features

| | |
|---|---|
| Surface water features within 250m of the study site | Identified |

The following surface water records are not represented on mapping:

| Distance (m) | Direction |
|---|---|
| 0 | N |
| 0 | N |
| 0 | N |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
| 0 | On Site |
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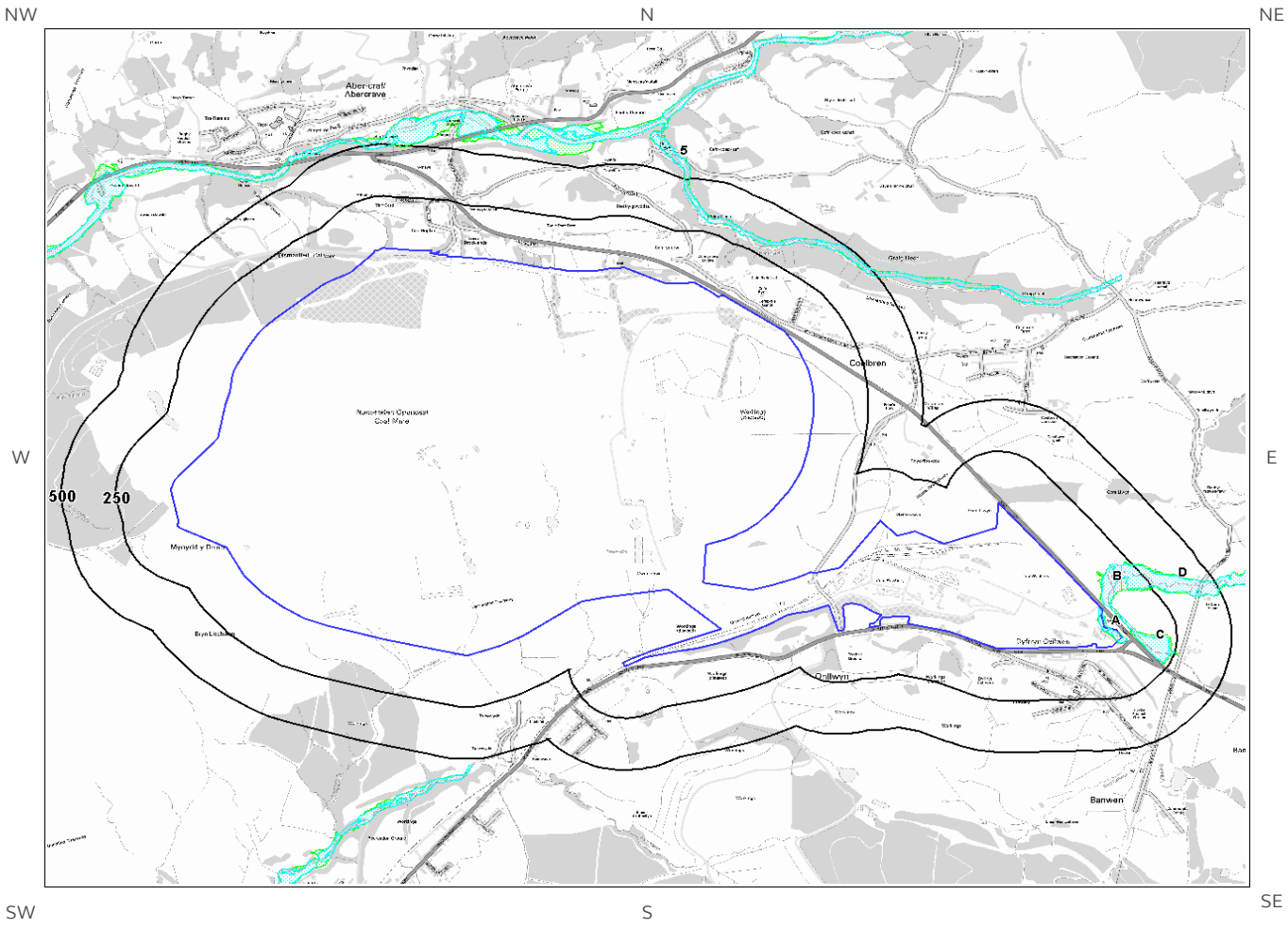
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| 1 | N |
| 1 | S |
| 2 | S |
| 5 | N |
| 7 | S |
| 11 | N |
| 14 | S |
| 15 | S |
| 16 | S |
| 17 | S |
| 23 | N |
| 25 | NW |
| 38 | NE |
| 40 | N |
| 41 | NE |
| 43 | NE |
| 43 | S |
| 47 | W |
| 51 | NE |
| 53 | NE |

| Distance (m) | Direction |
|---|---|
| 53 | NE |
| 54 | SE |
| 62 | N |
| 64 | S |
| 69 | N |
| 69 | S |
| 71 | N |
| 71 | N |
| 72 | S |
| 76 | N |
| 77 | NE |
| 77 | S |
| 79 | NE |
| 83 | N |
| 86 | S |
| 87 | SE |
| 87 | SE |
| 89 | S |
| 96 | N |
| 103 | S |
| 105 | S |
| 106 | S |
| 106 | S |
| 120 | S |
| 128 | N |
| 139 | N |
| 139 | S |
| 143 | N |
| 146 | N |
| 147 | S |
| 149 | N |
| 149 | N |
| 153 | N |
| 154 | N |
| 154 | S |
| 155 | E |
| 155 | N |
| 156 | S |
| 159 | W |
| 159 | W |
| 162 | NW |
| 171 | N |
| 173 | SW |
| 173 | W |
| 174 | NE |

| Distance (m) | Direction |
|---|---|
| 174 | SE |
| 180 | SE |
| 181 | N |
| 184 | N |
| 185 | N |
| 185 | N |
| 186 | N |
| 186 | W |
| 190 | N |
| 190 | NE |
| 193 | NE |
| 193 | S |
| 195 | N |
| 195 | NW |
| 200 | N |
| 202 | N |
| 205 | N |
| 207 | NE |
| 207 | NE |
| 208 | N |
| 212 | W |
| 216 | S |
| 217 | S |
| 222 | N |
| 228 | NW |
| 228 | SW |
| 230 | N |
| 232 | W |
| 233 | W |
| 238 | S |
| 239 | S |
| 246 | S |
| 246 | S |
| 246 | SW |
| 250 | S |

# 7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)




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Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

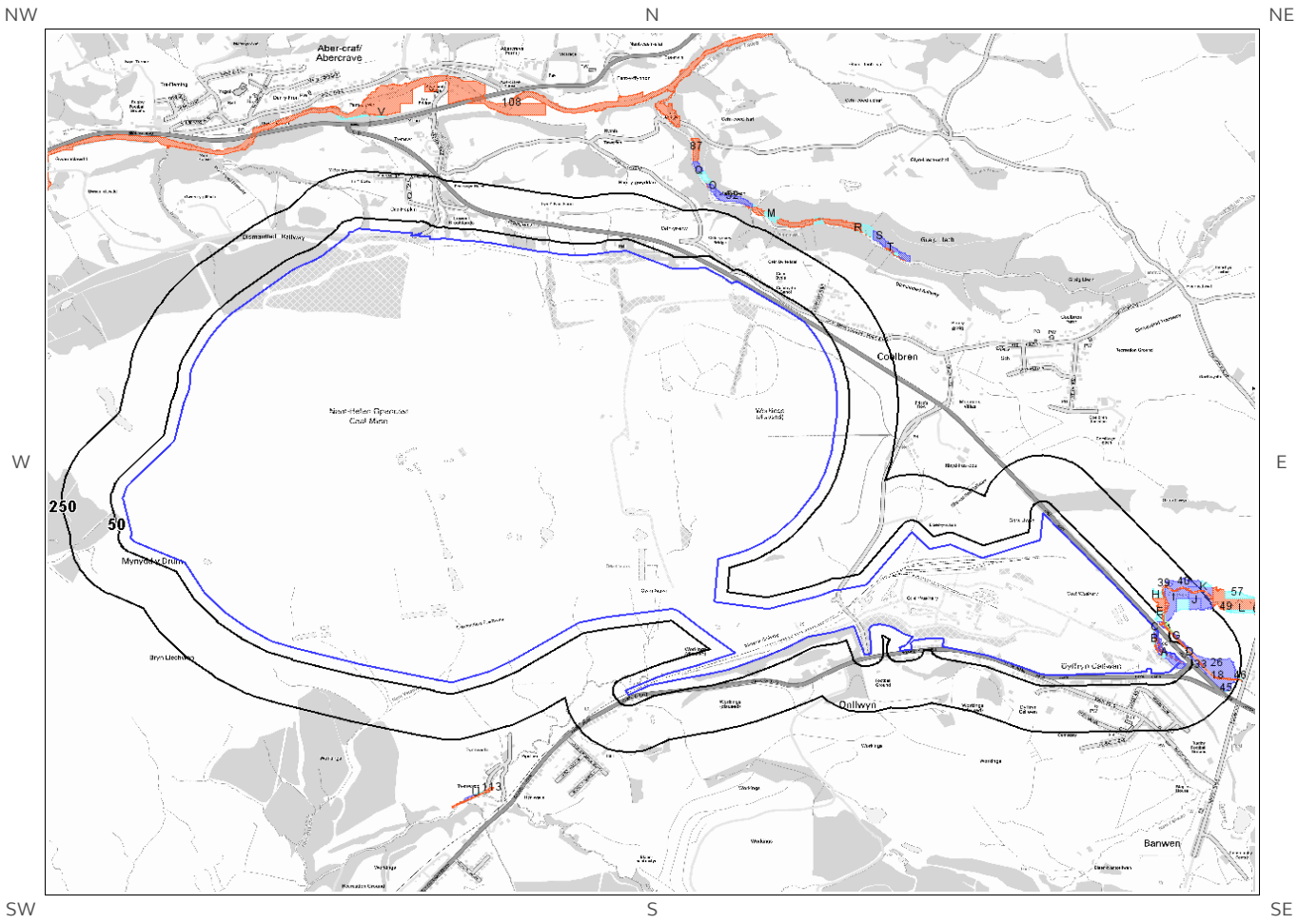
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

# 7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map




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Site Outline

Search Buffers (m)

RoFRaS Rating

- Very Low
- Low
- Medium
- High

Report Reference: GS-6396069
Client Reference: GCORE

# 7 Flooding

## 7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m — Identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

| ID | Distance (m) | Direction | Update | Type |
|---|---|---|---|---|
| 1A | 0 | On Site | 09-Sep-2019 | Zone 2 - (Fluvial /Tidal Models) |
| 2B | 25 | NE | 09-Sep-2019 | Zone 2 - (Fluvial /Tidal Models) |
| 3C | 44 | NE | 09-Sep-2019 | Zone 2 - (Fluvial /Tidal Models) |
| 4D | 128 | NE | 09-Sep-2019 | Zone 2 - (Fluvial /Tidal Models) |

## 7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m — Identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

| ID | Distance (m) | Direction | Update | Type |
|---|---|---|---|---|
| 1A | 0 | On Site | 09-Sep-2019 | Zone 3 - (Fluvial Models) |
| 2B | 25 | NE | 09-Sep-2019 | Zone 3 - (Fluvial Models) |
| 3C | 49 | NE | 09-Sep-2019 | Zone 3 - (Fluvial Models) |
| 4D | 155 | NE | 09-Sep-2019 | Zone 3 - (Fluvial Models) |
| | 167 | NE | 09-Sep-2019 | Zone 3 - (Fluvial Models) |

## 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite — High

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a High (1 in 30 or greater) chance of flooding in any given year.

Any relevant data within 250m is represented on the RoFRaS Flood map. Data to 50m is reported in the table below.

| ID | Distance (m) | Direction | RoFRas flood Risk |
|---|---|---|---|
| 1A | 0.0 | On Site | Low |
| 2A | 0.0 | On Site | Medium |
| 3B | 0.0 | On Site | Low |
| 4B | 0.0 | On Site | Low |
| 5B | 0.0 | On Site | Medium |
| 6B | 0.0 | On Site | Low |
| 7C | 0.0 | On Site | Medium |
| 8 | 0.0 | On Site | Medium |
| 9A | 0.0 | On Site | High |
| 10A | 0.0 | On Site | Medium |
| 11A | 0.0 | On Site | High |
| 12 | 25.0 | NE | High |
| 13C | 26.0 | NE | Medium |
| 14C | 27.0 | NE | Medium |
| 15E | 27.0 | NE | Low |
| 16C | 32.0 | NE | Low |
| 17F | 40.0 | NE | Very Low |
| 18 | 44.0 | NE | Medium |
| 19C | 44.0 | NE | Medium |
| 20D | 45.0 | NE | Low |
| 21D | 48.0 | NE | Low |
| 22D | 49.0 | NE | Low |
| 23D | 49.0 | NE | Low |
| 24E | 49.0 | NE | Low |
| 25I | 50.0 | NE | Medium |

## 7.4 Flood Defences

Flood Defences within 250m of the study site — None identified

Database searched and no data found.

## 7.5 Areas benefiting from Flood Defences

| | |
|---|---|
| Areas benefiting from Flood Defences within 250m of the study site | None identified |

## 7.6 Areas benefiting from Flood Storage

| | |
|---|---|
| Areas used for Flood Storage within 250m of the study site | None identified |

## 7.7 Groundwater Flooding Susceptibility Areas

| | |
|---|---|
| 7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site | Identified |
| Clearwater Flooding or Superficial Deposits Flooding | Superficial Deposits Flooding |

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

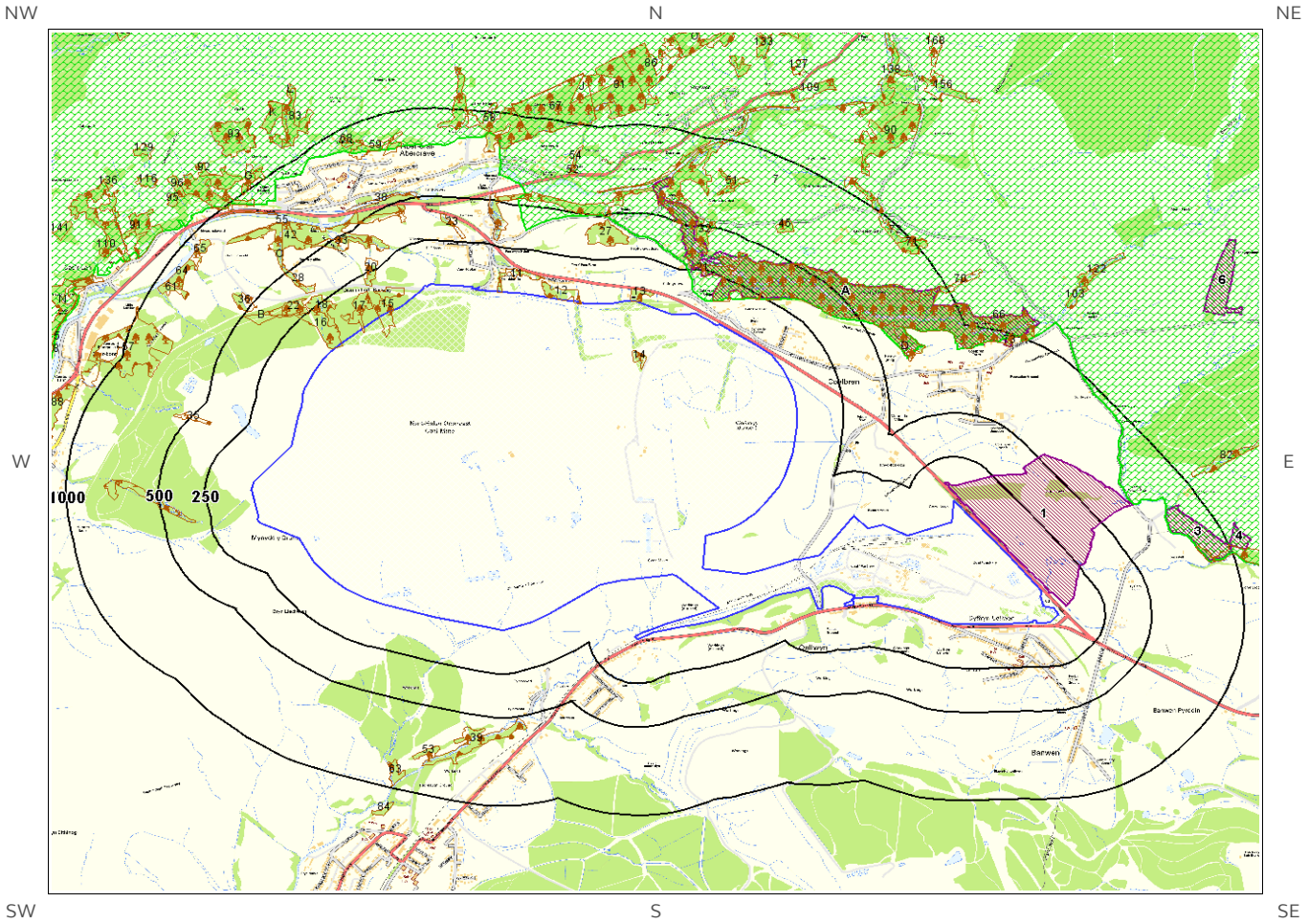
## 7.8 Groundwater Flooding Confidence Areas

| | |
|---|---|
| British Geological Survey confidence rating in this result | High |

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

# 8. Designated Environmentally Sensitive Sites Map




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Site Outline

100
250
Search Buffers (m)

AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones
Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas
Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

# 8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site — Identified

## 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

6

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | SSSI Name | Data Source |
|---|---|---|---|---|
| 1 | 19 | NE | Gorsllwyn, Onllwyn | Natural Resources Wales |
| 2A | 111 | NE | Nant Llech | Natural Resources Wales |
| 3 | 768 | NE | Caeau Ton-Y-Fildre | Natural Resources Wales |
| 4 | 1009 | NE | Caeau Ton-Y-Fildre | Natural Resources Wales |
| Not shown | 1130 | E | Caeau Ton-Y-Fildre | Natural Resources Wales |
| 6 | 1724 | NE | Waun Ton-Y-Spyddaden | Natural Resources Wales |

## 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

## 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

## 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

## 8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

## 8.6 Records of Ancient Woodland within 2000m of the study site:

170

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|---|---|---|---|---|
| 11 | 0 | On Site | Unknown | Ancient Semi Natural Woodland |
| 12 | 0 | On Site | Unknown | Ancient Semi Natural Woodland |
| 13 | 0 | On Site | Unknown | Ancient Semi Natural Woodland |
| 14 | 0 | On Site | Unknown | Ancient Semi Natural Woodland |
| 15 | 0 | On Site | Unknown | Plantation on Ancient Woodland Site |
| 16 | 0 | On Site | Unknown | Plantation on Ancient Woodland Site |
| 17 | 0 | On Site | Unknown | Plantation on Ancient Woodland Site |
| 18 | 105 | NW | Unknown | Plantation on Ancient Woodland Site |
| 19A | 107 | NE | Unknown | Ancient Semi Natural Woodland |
| 20 | 174 | NW | Unknown | Ancient Semi Natural Woodland |
| 21 | 214 | N | Unknown | Ancient Semi Natural Woodland |
| 22 | 242 | NW | Unknown | Plantation on Ancient Woodland Site |
| 23 | 272 | N | Unknown | Ancient Semi Natural Woodland |
| 24 | 283 | N | Unknown | Ancient Semi Natural Woodland |
| 25 | 292 | NW | Unknown | Ancient Semi Natural Woodland |
| 26 | 319 | NE | Unknown | Ancient Semi Natural Woodland |
| 27 | 320 | N | Unknown | Ancient Semi Natural Woodland |
| 28 | 324 | NW | Unknown | Ancient Semi Natural Woodland |
| 29B | 329 | NW | Unknown | Plantation on Ancient Woodland Site |
| 30 | 337 | W | Unknown | Plantation on Ancient Woodland Site |
| 31B | 338 | NW | Unknown | Plantation on Ancient Woodland Site |
| 32 | 371 | N | Unknown | Ancient Semi Natural Woodland |
| 33 | 372 | NW | Unknown | Ancient Semi Natural Woodland |
| 34 | 392 | NE | Unknown | Ancient Semi Natural Woodland |
| 35 | 398 | NW | Unknown | Ancient Woodland Site of Unknown Category |
| 36 | 468 | NW | Unknown | Restored Ancient Woodland Site |
| 37 | 486 | NE | Unknown | Ancient Semi Natural Woodland |
| 38 | 486 | N | Unknown | Ancient Semi Natural Woodland |
| 39 | 508 | S | Unknown | Ancient Semi Natural Woodland |
| 40C | 530 | NW | Unknown | Ancient Semi Natural Woodland |
| 41 | 535 | N | Unknown | Ancient Semi Natural Woodland |
| 42 | 552 | NW | Unknown | Ancient Semi Natural Woodland |
| 43 | 573 | NE | Unknown | Ancient Semi Natural Woodland |
| 44C | 582 | NW | Unknown | Ancient Semi Natural Woodland |
| 45 | 607 | NE | Unknown | Ancient Semi Natural Woodland |
| 46E | 619 | NW | Unknown | Ancient Semi Natural Woodland |
| 47D | 624 | E | Unknown | Ancient Semi Natural Woodland |
| 48 | 627 | N | Unknown | Ancient Semi Natural Woodland |

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|---|---|---|---|---|
| 49D | 632 | NE | Unknown | Ancient Semi Natural Woodland |
| 50D | 638 | E | Unknown | Ancient Semi Natural Woodland |
| 51 | 684 | N | Unknown | Ancient Semi Natural Woodland |
| 52 | 710 | N | Unknown | Plantation on Ancient Woodland Site |
| 53 | 712 | S | Unknown | Ancient Semi Natural Woodland |
| 54 | 731 | N | Unknown | Ancient Semi Natural Woodland |
| 55 | 742 | NW | Unknown | Ancient Semi Natural Woodland |
| 56E | 742 | NW | Unknown | Ancient Semi Natural Woodland |
| 57 | 756 | W | Unknown | Ancient Semi Natural Woodland |
| 58 | 767 | N | Unknown | Ancient Semi Natural Woodland |
| 59 | 775 | N | Unknown | Ancient Semi Natural Woodland |
| 60F | 793 | NW | Unknown | Ancient Semi Natural Woodland |
| 61 | 811 | NW | Unknown | Restored Ancient Woodland Site |
| 62 | 831 | NE | Unknown | Ancient Semi Natural Woodland |
| 63 | 838 | S | Unknown | Ancient Semi Natural Woodland |
| 64 | 854 | NW | Unknown | Restored Ancient Woodland Site |
| 65 | 860 | NW | Unknown | Ancient Semi Natural Woodland |
| 66 | 880 | NE | Unknown | Ancient Semi Natural Woodland |
| 67 | 884 | N | Unknown | Restored Ancient Woodland Site |
| 68 | 894 | NW | Unknown | Ancient Semi Natural Woodland |
| 69F | 908 | NW | Unknown | Ancient Semi Natural Woodland |
| 70 | 911 | NE | Unknown | Ancient Semi Natural Woodland |
| 71 | 920 | NE | Unknown | Ancient Semi Natural Woodland |
| 72 | 923 | NE | Unknown | Ancient Semi Natural Woodland |
| 73 | 929 | N | Unknown | Ancient Semi Natural Woodland |
| 74H | 986 | NW | Unknown | Ancient Semi Natural Woodland |
| 75 | 994 | NE | Unknown | Ancient Semi Natural Woodland |
| 76G | 997 | NW | Unknown | Ancient Semi Natural Woodland |
| 77G | 999 | NW | Unknown | Ancient Semi Natural Woodland |
| 78H | 1023 | NW | Unknown | Ancient Semi Natural Woodland |
| 79 | 1032 | N | Unknown | Ancient Semi Natural Woodland |
| 80 | 1040 | N | Unknown | Ancient Semi Natural Woodland |
| 81 | 1044 | N | Unknown | Ancient Semi Natural Woodland |
| 82 | 1044 | NE | Unknown | Ancient Semi Natural Woodland |
| 83 | 1070 | NW | Unknown | Ancient Semi Natural Woodland |
| 84 | 1078 | S | Unknown | Ancient Semi Natural Woodland |
| 85I | 1079 | NW | Unknown | Ancient Semi Natural Woodland |
| 86 | 1094 | N | Unknown | Ancient Semi Natural Woodland |
| 87I | 1094 | NW | Unknown | Ancient Semi Natural Woodland |
| 88 | 1095 | NW | Unknown | Ancient Semi Natural Woodland |
| 89J | 1110 | N | Unknown | Restored Ancient Woodland Site |

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|---|---|---|---|---|
| 90 | 1133 | NE | Unknown | Ancient Semi Natural Woodland |
| 91 | 1135 | NW | Unknown | Ancient Semi Natural Woodland |
| 92 | 1145 | NW | Unknown | Ancient Semi Natural Woodland |
| 93 | 1167 | NW | Unknown | Ancient Semi Natural Woodland |
| 94J | 1179 | N | Unknown | Ancient Semi Natural Woodland |
| 95 | 1181 | NW | Unknown | Ancient Semi Natural Woodland |
| 96 | 1187 | NW | Unknown | Ancient Semi Natural Woodland |
| 97K | 1200 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1211 | NE | Unknown | Ancient Semi Natural Woodland |
| 99K | 1217 | NW | Unknown | Ancient Semi Natural Woodland |
| 100P | 1230 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1234 | W | Unknown | Ancient Semi Natural Woodland |
| 102M | 1246 | NW | Unknown | Ancient Semi Natural Woodland |
| 103 | 1258 | NE | Unknown | Ancient Semi Natural Woodland |
| 104L | 1267 | NW | Unknown | Ancient Semi Natural Woodland |
| 105L | 1292 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1292 | NW | Unknown | Ancient Semi Natural Woodland |
| 107N | 1293 | NW | Unknown | Ancient Semi Natural Woodland |
| 108 | 1303 | NW | Unknown | Ancient Semi Natural Woodland |
| 109 | 1306 | N | Unknown | Ancient Semi Natural Woodland |
| 110 | 1308 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1310 | E | Unknown | Ancient Semi Natural Woodland |
| 112M | 1311 | NW | Unknown | Ancient Semi Natural Woodland |
| 113N | 1316 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1323 | E | Unknown | Ancient Semi Natural Woodland |
| 115 | 1336 | NW | Unknown | Ancient Semi Natural Woodland |
| 116 | 1337 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1343 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1348 | E | Unknown | Ancient Semi Natural Woodland |
| 119 | 1361 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1362 | W | Unknown | Ancient Semi Natural Woodland |
| 121 | 1377 | NE | Unknown | Ancient Semi Natural Woodland |
| 122 | 1393 | NE | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1400 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1403 | E | Unknown | Ancient Semi Natural Woodland |
| 125O | 1415 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1436 | W | Unknown | Ancient Semi Natural Woodland |

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|---|---|---|---|---|
| 127 | 1459 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1465 | E | Unknown | Ancient Semi Natural Woodland |
| 129 | 1469 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1471 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1481 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1495 | W | Unknown | Ancient Semi Natural Woodland |
| 133 | 1495 | N | Unknown | Ancient Semi Natural Woodland |
| 134O | 1497 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1500 | E | Unknown | Ancient Semi Natural Woodland |
| 136 | 1507 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1518 | NE | Unknown | Ancient Semi Natural Woodland |
| 138 | 1524 | NE | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1535 | E | Unknown | Ancient Semi Natural Woodland |
| 140P | 1551 | NW | Unknown | Ancient Semi Natural Woodland |
| 141 | 1552 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1555 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1583 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1586 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1590 | NE | Unknown | Plantation on Ancient Woodland Site |
| Not shown | 1605 | S | Unknown | Plantation on Ancient Woodland Site |
| Not shown | 1613 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1613 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1637 | S | Unknown | Ancient Semi Natural Woodland |
| 150 | 1647 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1648 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1668 | S | Unknown | Plantation on Ancient Woodland Site |
| Not shown | 1682 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1683 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1693 | NW | Unknown | Ancient Semi Natural Woodland |
| 156 | 1705 | NE | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1707 | NW | Unknown | Ancient Semi Natural Woodland |

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|---|---|---|---|---|
| Not shown | 1737 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1748 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1751 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1761 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1776 | S | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1794 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1795 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1801 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1833 | S | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1844 | E | Unknown | Ancient Semi Natural Woodland |
| 168 | 1852 | NE | Unknown | Ancient Semi Natural Woodland |
| 169 | 1855 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1860 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1882 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1917 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1919 | NW | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1952 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1960 | NW | Unknown | Ancient Woodland Site of Unknown Category |
| Not shown | 1969 | N | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1972 | NW | Unknown | Plantation on Ancient Woodland Site |
| Not shown | 1976 | E | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1983 | W | Unknown | Ancient Semi Natural Woodland |
| Not shown | 1991 | NW | Unknown | Ancient Semi Natural Woodland |

## 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

## 8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

## 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

## 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

## 8.11 Records of National Parks (NP) within 2000m of the study site:

4

The following National Park records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | NP Name | Data Source |
|---|---|---|---|---|
| 7 | 85 | NE | Brecon Beacons | Natural Resources Wales |
| Not shown | 1283 | NW | Brecon Beacons | Natural Resources Wales |
| Not shown | 1629 | E | Brecon Beacons | Natural Resources Wales |
| Not shown | 1915 | E | Brecon Beacons | Natural Resources Wales |

## 8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

## 8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

0

Database searched and no data found.

---

## 8.14 Records of Green Belt land within 2000m of the study site:

0

Database searched and no data found.

---

# 9. Natural Hazards Findings

## 9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

### 9.1.1 Shrink Swell

Maximum Shrink-Swell* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

### 9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site — Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |

### 9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

* This indicates an automatically generated 50m buffer and site.

### 9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site — High

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly. |

### 9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

### 9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site — Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property no significant increase in insurance risk due to running sand problems is likely. |

* This indicates an automatically generated 50m buffer and site.

## 9.2 Radon

### 9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

---

### 9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

# 10. Mining

## 10.1 Coal Mining

Coal mining areas within 75m of the study site — Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

| Distance (m) | Direction | Details |
|---|---|---|
| 0 | On Site | The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority |

## 10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary — Identified

The following non-coal mining information is provided by the BGS:

| Distance (m) | Direction | Name | Commodity | Assessment of likelihood |
|---|---|---|---|---|
| 0.0 | On Site | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |
| 0.0 | On Site | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |

Past underground mine workings may occur. The rock types present in these areas are such that small mineral veins may be present on which it is possible that small scale mining has been undertaken and/or it is possible that limited underground extraction of other materials may have occurred. All such occurrences are likely to be of minor localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

## 10.3 Brine Affected Areas

Brine affected areas within 75m of the study site — None identified
Guidance: No Guidance Required.

# Contact Details

**Groundsure Helpline**
Telephone: 08444 159 000
info@groundsure.com

**British Geological Survey Enquiries**
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries:
**enquiries@bgs.ac.uk**

**Natural Resources Wales**
Ty Cambria
29 Newport Road
Cardiff
CF24 0TP
Tel: 0300 065 3000
Email: enquiries@naturalresourceswales.gov.uk

**Public Health England**
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

**The Coal Authority**
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
**www.coal.gov.uk**

**Ordnance Survey**
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

**Local Authority**
Authority: Powys County Council
Phone: 01597 826000
Web: http://www.powys.gov.uk
Address: County Hall, Spa Road East, Llandrindod Wells, Powys, LD1

**Gemapping PLC**
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England/Natural Resources Wales who retain the Copyright and Intellectual Property Rights for the data.
PointX © Database Right/Copyright, Thomson Directories Limited © Copyright Link Interchange Network Limited © Database Right/Copyright and Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028].
This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

# Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:

https://www.groundsure.com/terms-and-conditions-feb11-2019

Groundsure
LOCATION INTELLIGENCE

Ove Arup & Partners International Ltd

4 OVE ARUP & PARTNERS, PIERHEAD STREET,
CARDIFF, CF10 4QP

| | |
|---|---|
| Groundsure Reference: | GS-6396070 |
| Your Reference: | GCORE |
| Report Date | 14 Oct 2019 |
| Report Delivery Method: | Email - pdf |

## Geo Insight

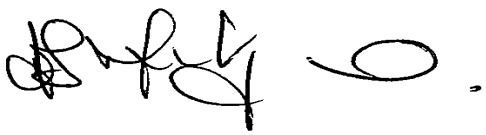
Address: 282917.86237392283, 211100.677756288,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Geo Insight

# Geo Insight

| | |
|---|---|
| **Address:** | **282917.86237392283, 211100.677756288,** |
| **Date:** | **14 Oct 2019** |
| **Reference:** | **GS-6396070** |
| **Client:** | **Ove Arup & Partners International Ltd** |

NW N NE

W E



SW S SE

| | |
|---|---|
| Aerial Photograph Capture date: | 26-May-2017 |
| Grid Reference: | 283073,211130 |
| Site Size: | 483.2560ha |

Groundsure
LOCATION INTELLIGENCE

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# Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Geology 1:10,000 Scale | | |
|---|---|---|
| 1.1 Artificial Ground | 1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale? | Yes |
| 1.2 Superficial Geology and Landslips | 1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?* | Yes |
| | 1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale? | No |
| 1.3 Bedrock, Solid Geology and linear features | 1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. | |
| | 1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? | Yes |

| Section 2: Geology 1:50,000 Scale | | |
|---|---|---|
| 2.1 Artificial Ground | 2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site? | Yes |
| | 2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary? | Yes |
| 2.2 Superficial Geology and Landslips | 2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?* | Yes |
| | 2.2.2 Are there any records of permeability of superficial ground within 500m of the study site? | Yes |
| | 2.2.3 Are there any records of landslip within 500m of the study site boundary? | No |
| | 2.2.4 Are there any records relating to permeability of landslips within the study site* boundary? | No |

## Section 2: Geology 1:50,000 Scale

| | | |
|---|---|---|
| 2.3 Bedrock, Solid Geology and linear features | 2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. | |
| | 2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary? | Yes |
| | 2.3.3 Are there any records of linear features within 500m of the study site boundary? | Yes |

## Section 3: Radon

| | | |
|---|---|---|
| 3. Radon | 3.1Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? | The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level. |
| | 3.2Radon Protection | No radon protective measures are necessary. |

| Section 4: Ground Workings | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 4.1 Historical Surface Ground Working Features from Small Scale Mapping | 800 | 160 | 346 | Not Searched | Not Searched |
| 4.2 Historical Underground Workings from Small Scale Mapping | 76 | 17 | 38 | 33 | 101 |
| 4.3 Current Ground Workings | 50 | 8 | 32 | 22 | 37 |

| Section 5: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 5.1 Historical Mining | 77 | 17 | 39 | 38 | 107 |
| 5.2 Coal Mining | 1 | 0 | 0 | 0 | 0 |
| 5.3 Johnson Poole and Bloomer Mining Area | 0 | 0 | 0 | 0 | 0 |
| 5.4 Non-Coal Mining* | 2 | 0 | 1 | 0 | 1 |
| 5.5 Non–Coal Mining Cavities | 0 | 0 | 0 | 0 | 0 |
| 5.5 Natural Cavities | 0 | 0 | 0 | 0 | 0 |

| Section 5: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 5.6 Brine Extraction | 0 | 0 | 0 | 0 | 0 |
| 5.7 Gypsum Extraction | 0 | 0 | 0 | 0 | 0 |
| 5.8 Cornwall and Devon Metalliferous Mining | 0 | 0 | 0 | 0 | 0 |
| 5.9 Clay Mining | 0 | 0 | 0 | 0 | 0 |

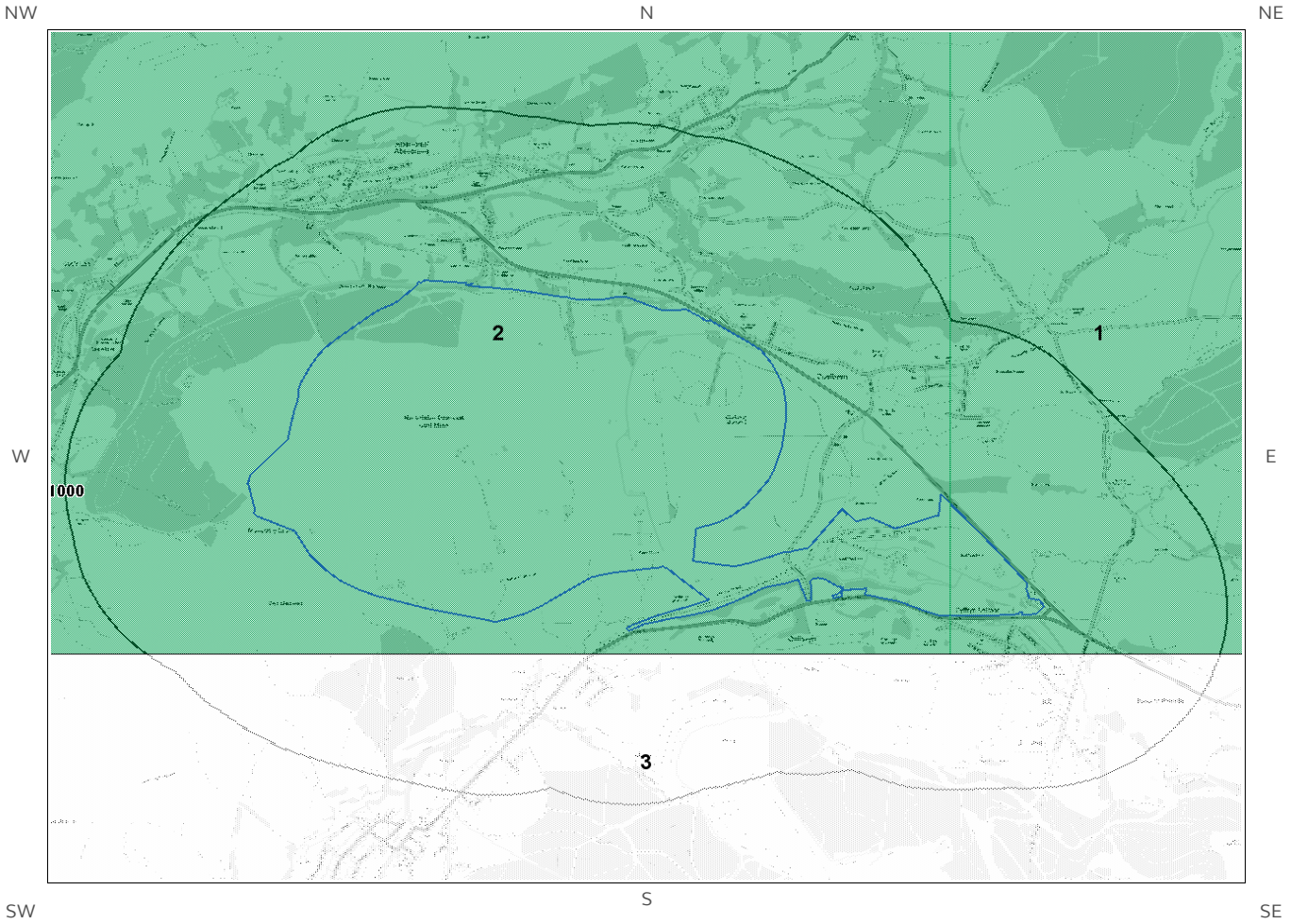
| Section 6: Natural Ground Subsidence | On-site |
|---|---|
| 6.1 Shrink-Swell Clay | Very Low |
| 6.2 Landslides | Moderate |
| 6.3 Ground Dissolution of Soluble Rocks | Negligible |
| 6.4 Compressible Deposits | High |
| 6.5 Collapsible Deposits | Very Low |
| 6.5 Running Sand | Low |

| Section 7: Borehole Records | On-site | 0-50m | 51-250 |
|---|---|---|---|
| 7 BGS Recorded Boreholes | 18 | 6 | 13 |

| Section 8: Estimated Background Soil Chemistry | On-site | 0-50m | 51-250 |
|---|---|---|---|
| 8 Records of Background Soil Chemistry | 128 | 14 | 0 |

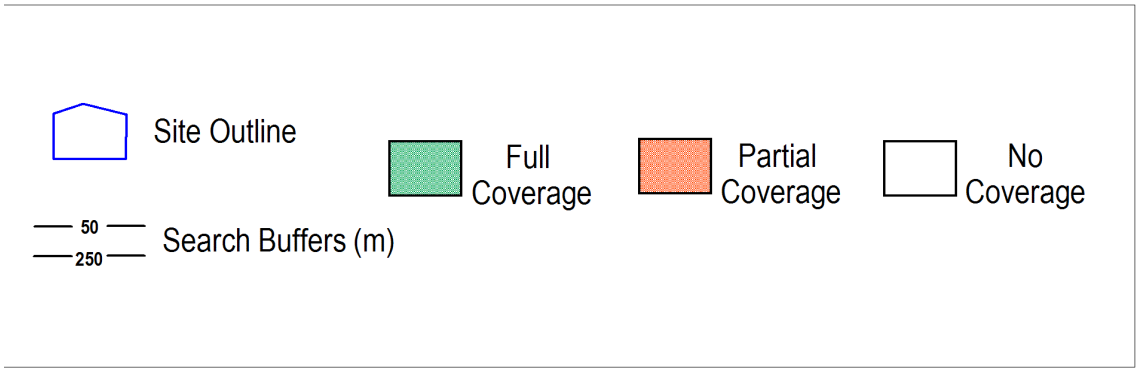
| Section 9: Railways and Tunnels | On-site | 0-50m | 51-250 | 250-500 |
|---|---|---|---|---|
| 9.1 Tunnels | 0 | 0 | 0 | Not Searched |
| 9.2 Historical Railway and Tunnel Features | 77 | 6 | 11 | Not Searched |
| 9.3 Historical Railways | 12 | 0 | 4 | Not Searched |
| 9.4 Active Railways | 18 | 0 | 2 | Not Searched |
| 9.5 Railway Projects | 0 | 0 | 0 | 0 |

# 1:10,000 Scale Availability




1_10,000 Availability Legend

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# Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

| ID | Distance | Artificial Coverage | Superficial Coverage | Bedrock Coverage | Mass Movement Coverage |
|---|---|---|---|---|---|
| 1 | 0.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |
| 2 | 0.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |
| 3 | 131.0 | No deposits are mapped | No coverage | No coverage | No coverage |
| N4 | 1158.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |
| N5 | 1441.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |

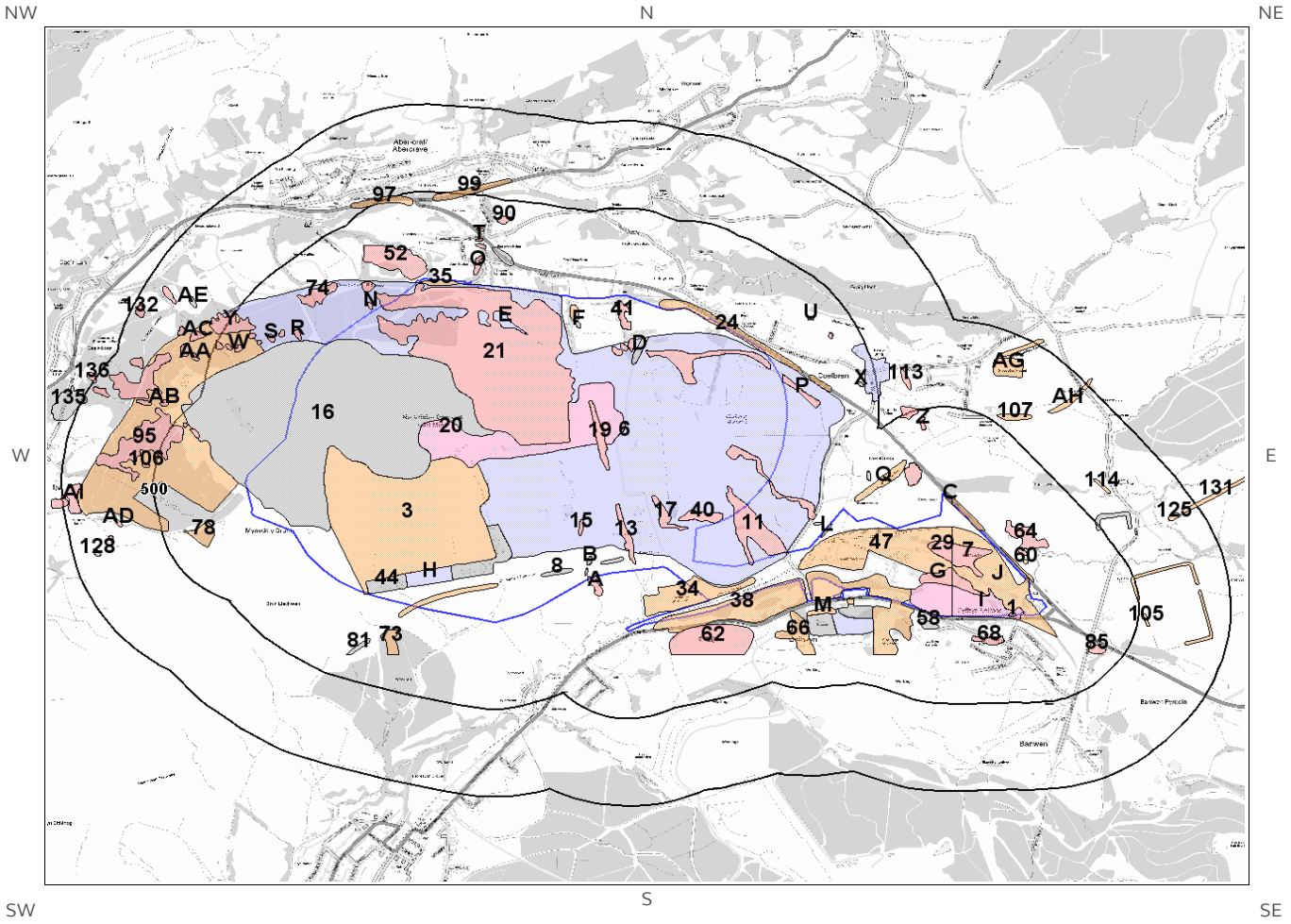
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

| Geology | Full Coverage | Partial Coverage | No Coverage |
|---|---|---|---|
| Bedrock | The whole tile has been mapped | Some but not all the tile has been mapped | No coverage |
| Superficial | The whole tile has been mapped | Some but not all of the tile has been mapped | No coverage |
| Artificial | Some deposits are mapped on this tile | - | No deposits are mapped |
| Mass Movement | Some deposits are mapped on this tile | - | No coverage |

# 1 Geology (1:10,000 scale).

# 1.1 Artificial Ground map (1:10,000 scale)




**Artificial Ground Legend**

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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

# 1. Geology 1:10,000 scale

## 1.1 Artificial Ground

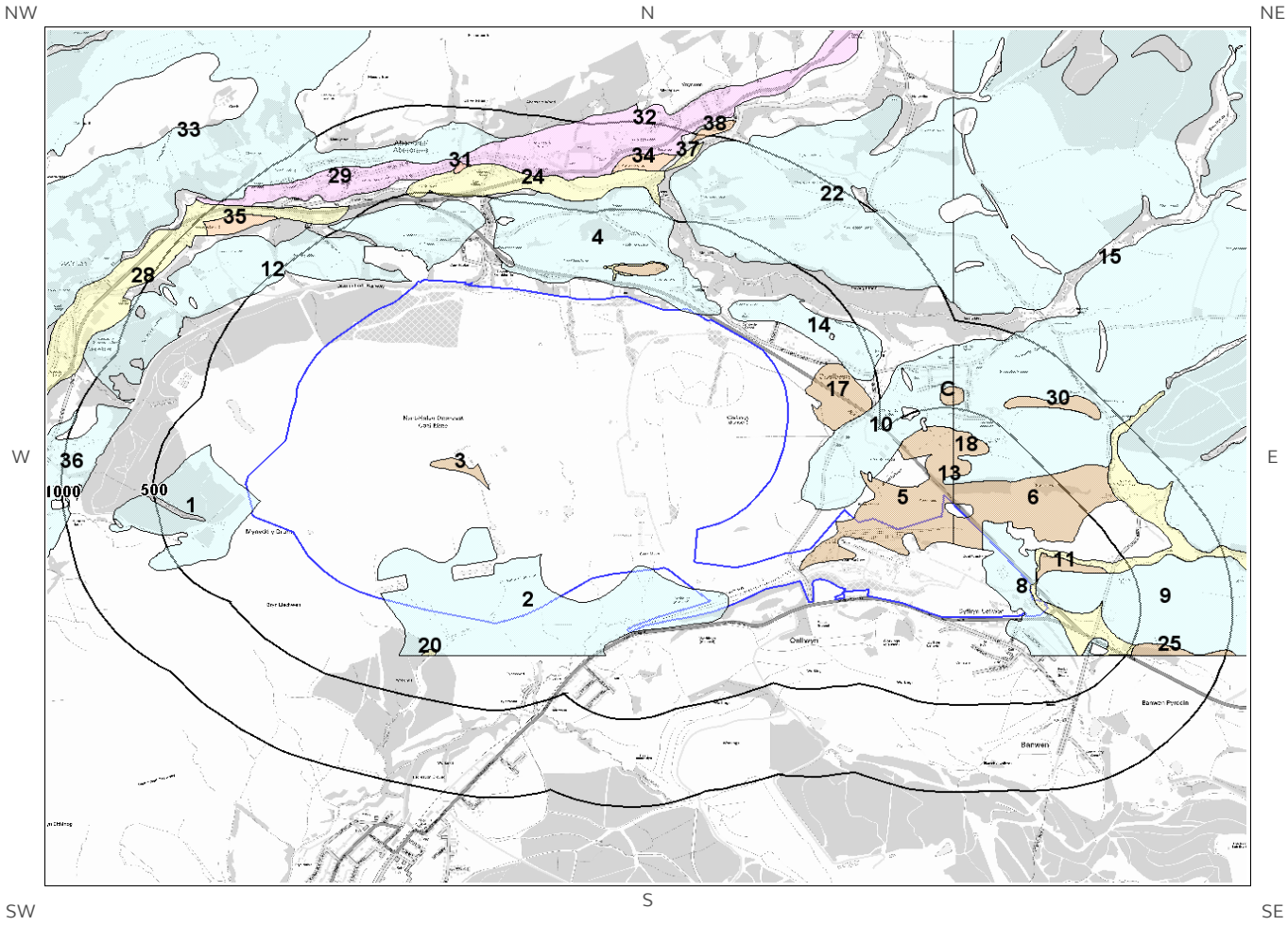
The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 2A | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 3 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 4H | 0.0 | On Site | LSGR-UKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 5G | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 6 | 0.0 | On Site | LSGR-UKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 7 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 8 | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 9A | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 10B | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 11 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 12B | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 13 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 14L | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 15 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 16 | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 17 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 18C | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 19 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 20 | 0.0 | On Site | DDGR-UKNOWN | Disturbed Ground (Undivided) | Unknown/unclassified Entry |
| 21 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 22C | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 23 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 24 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 25D | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 26D | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 27D | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 28D | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 29 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 30E | 0.0 | On Site | LSGR-UKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 31F | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 32E | 0.0 | On Site | LSGR-UKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 33F | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 34 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 35 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 36G | 0.0 | On Site | DDGR-UKNOWN | Disturbed Ground (Undivided) | Unknown/unclassified Entry |
| 37H | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 38 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 39I | 0.0 | On Site | DDGR-UKNOWN | Disturbed Ground (Undivided) | Unknown/unclassified Entry |
| 40 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 41 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 42 | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 43J | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 44 | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |

| | | | | | |
|---|---|---|---|---|---|
| 45K | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 46 | 0.0 | On Site | WGR-VOID | Worked Ground (Undivided) | Void |
| 47 | 0.0 | On Site | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 48I | 0.0 | On Site | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 49P | 2.0 | E | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 50N | 10.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 51J | 16.0 | NE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 52 | 19.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 53K | 24.0 | SE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 54V | 36.0 | W | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 55L | 38.0 | NW | WGR-VOID | Worked Ground (Undivided) | Void |
| 56O | 45.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 57K | 48.0 | SE | WGR-VOID | Worked Ground (Undivided) | Void |
| 58 | 48.0 | S | WGR-VOID | Worked Ground (Undivided) | Void |
| 59M | 54.0 | S | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 60 | 55.0 | NE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 61K | 60.0 | S | LSGR-UKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 62 | 65.0 | S | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 63Q | 74.0 | NE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 64 | 75.0 | NE | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 65M | 81.0 | S | WGR-VOID | Worked Ground (Undivided) | Void |
| 66 | 91.0 | SW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 67N | 105.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 68 | 112.0 | S | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 69R | 121.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 70O | 125.0 | N | WGR-VOID | Worked Ground (Undivided) | Void |
| 71P | 149.0 | E | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 72Q | 151.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 73 | 154.0 | S | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 74 | 199.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 75O | 202.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 76R | 206.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 77Q | 212.0 | N | WGR-VOID | Worked Ground (Undivided) | Void |
| 78 | 229.0 | SW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 79S | 231.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 80T | 239.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 81 | 240.0 | S | WGR-VOID | Worked Ground (Undivided) | Void |
| 82S | 286.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 83T | 296.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 84U | 299.0 | NE | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 85 | 313.0 | SE | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 86S | 332.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 87U | 338.0 | NE | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 88V | 345.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 89W | 359.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 90 | 361.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 91Y | 362.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 92Z | 382.0 | N | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 93X | 398.0 | E | WGR-VOID | Worked Ground (Undivided) | Void |
| 94W | 410.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 95 | 414.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 96X | 419.0 | E | LSGR-UKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 97 | 429.0 | N | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 98V | 437.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 99 | 451.0 | N | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 100Y | 454.0 | NW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 101W | 455.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 102Z | 467.0 | NW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 103 | 481.0 | NE | WGR-VOID | Worked Ground (Undivided) | Void |
| 104 | 482.0 | E | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |

# 1.2 Superficial Deposits and Landslips map (1:10,000 scale)




**Artificial Ground Legend**

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Site Outline

500
1000
Search Buffers (m)

# 1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

## 1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 2 | 0.0 | On Site | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 3 | 0.0 | On Site | PEAT-P | Peat - Peat | Peat |
| 4 | 0.0 | On Site | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 5 | 0.0 | On Site | PEAT-P | Peat - Peat | Peat |
| 6 | 0.0 | On Site | PEAT-P | Peat - Peat | Peat |
| 7 | 0.0 | On Site | ALV-XCZSV | Alluvium - Clay, Silt, Sand And Gravel | Clay, Silt, Sand And Gravel |
| 8 | 0.0 | On Site | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 9 | 2.0 | NE | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 10 | 14.0 | N | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 11 | 34.0 | NE | PEAT-P | Peat - Peat | Peat |
| 12 | 37.0 | W | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 13 | 64.0 | N | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 14 | 66.0 | NE | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 15 | 82.0 | NE | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 16A | 96.0 | N | ALV-XCZSV | Alluvium - Clay, Silt, Sand And Gravel | Clay, Silt, Sand And Gravel |
| 17 | 105.0 | E | PEAT-P | Peat - Peat | Peat |
| 18 | 122.0 | NE | PEAT-P | Peat - Peat | Peat |
| 19A | 129.0 | N | PEAT-P | Peat - Peat | Peat |
| 20 | 211.0 | S | ALV-XCZSV | Alluvium - Clay, Silt, Sand And Gravel | Clay, Silt, Sand And Gravel |
| 21B | 298.0 | SE | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 22 | 368.0 | NE | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 23B | 424.0 | SE | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 24 | 475.0 | N | ALV-XCZSV | Alluvium - Clay, Silt, Sand And Gravel | Clay, Silt, Sand And Gravel |

## 1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

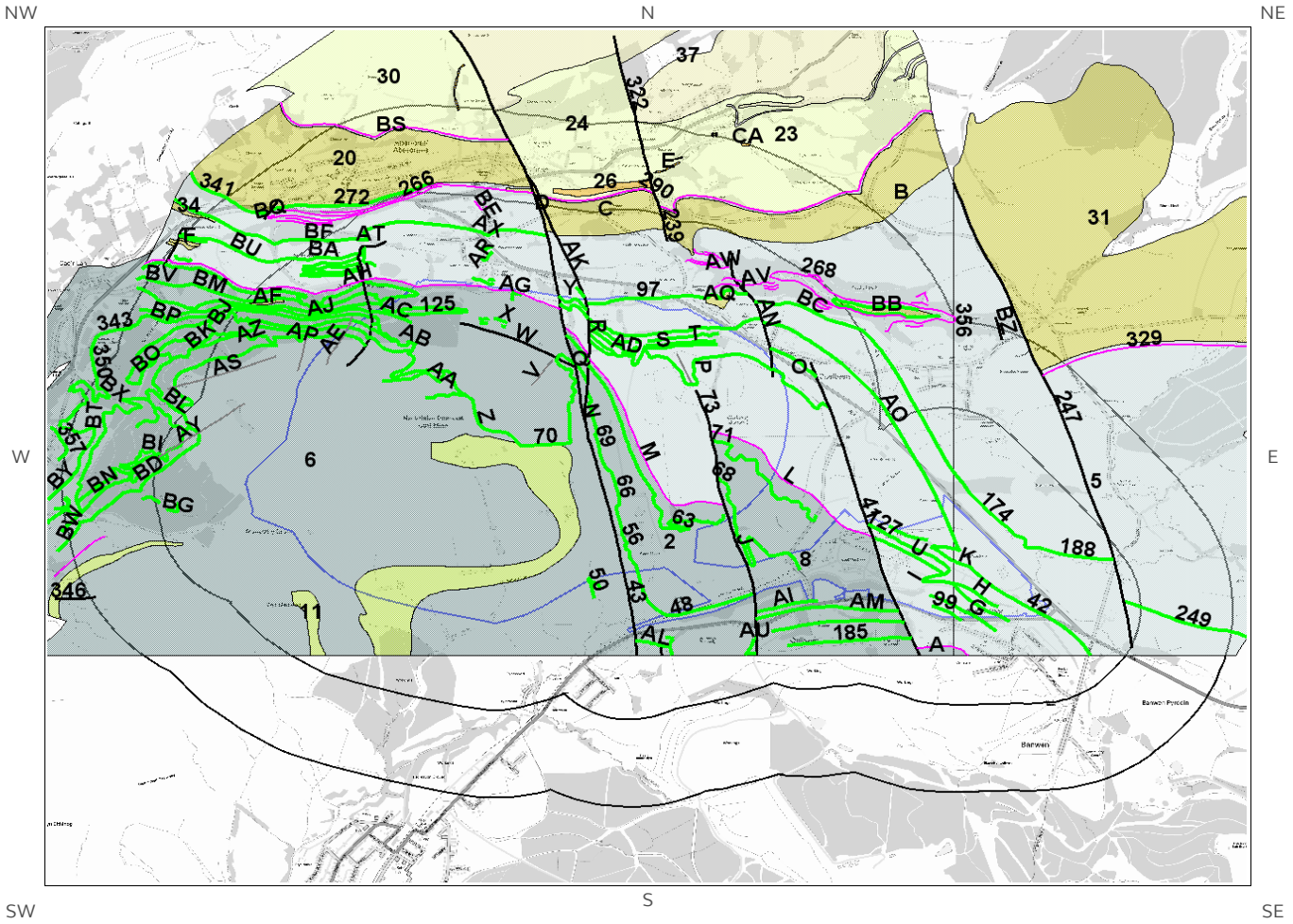
No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

# 1.3 Bedrock and linear features map (1:10,000 scale)




**Bedrock and linear features Legend**

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Site Outline

500
1000
Search Buffers (m)

# 1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

## 1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

| ID | Distance (m) | Direction | LEX Code | Description | Rock Age |
|---|---|---|---|---|---|
| 1Y | 0.0 | On Site | SWLCM-MDSS | South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 2 | 0.0 | On Site | SWMCM-MDSS | South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 3AT | 0.0 | On Site | SWLCM-MDSS | South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 4O | 0.0 | On Site | SWLCM-MDSS | South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 5 | 0.0 | On Site | SWLCM-MDSS | South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 6 | 0.0 | On Site | SWMCM-MDSS | South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 7 | 0.0 | On Site | SWMCM-SDST | South Wales Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 8 | 0.0 | On Site | SWMCM-MDSS | South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 9Q | 0.0 | On Site | SWMCM-MDSS | South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 10AQ | 81.0 | NE | SWLCM-SDST | South Wales Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 11 | 142.0 | SW | SWMCM-SDST | South Wales Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 12A | 166.0 | S | SWMCM-MDSS | South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 13A | 169.0 | S | SWMCM-MDSS | South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 14B | 310.0 | N | SWLCM-SDST | South Wales Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 15C | 341.0 | N | SWLCM-SDST | South Wales Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 16AF | 341.0 | NW | SWLCM-SDST | South Wales Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 17D | 355.0 | N | SWLCM-SDST | South Wales Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 18BR | 411.0 | SW | SWMCM-SDST | South Wales Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 19BB | 474.0 | NE | SWLCM-SDST | South Wales Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |

## 1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance (m) | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 40J | 0.0 | On Site | FAULT | Normal fault, observed |
| 41 | 0.0 | On Site | FAULT | Normal fault, inferred |
| 42 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 43 | 0.0 | On Site | FAULT | Normal fault, observed |
| 44G | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 45G | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 46G | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 47G | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 48 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 49H | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 50 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 51H | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 52I | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 53I | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 54J | 0.0 | On Site | ROCK | Coal seam, observed () |
| 55K | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 56 | 0.0 | On Site | ROCK | Coal seam, observed () |
| 57K | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 58K | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 59K | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 60L | 0.0 | On Site | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 61AO | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 62N | 0.0 | On Site | FAULT | Normal fault, observed |
| 63 | 0.0 | On Site | ROCK | Coal seam, observed () |
| 64L | 0.0 | On Site | ROCK | Coal seam, observed () |
| 65M | 0.0 | On Site | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 66 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 67M | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 68 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 69 | 0.0 | On Site | ROCK | Coal seam, observed () |
| 70 | 0.0 | On Site | ROCK | Coal seam, observed () |
| 71 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 72Z | 0.0 | On Site | ROCK | Coal seam, observed () |
| 73 | 0.0 | On Site | FAULT | Normal fault, inferred |
| 74N | 0.0 | On Site | FAULT | Normal fault, inferred |
| 75O | 0.0 | On Site | ROCK | Coal seam, observed () |
| 76N | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 77V | 0.0 | On Site | FOLD_AXIS | Axial plane trace of major syncline |
| 78P | 0.0 | On Site | ROCK | Coal seam, observed () |
| 79P | 0.0 | On Site | FOLD_AXIS | Axial plane trace of major anticline |
| 80Q | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 81AN | 0.0 | On Site | FAULT | Normal fault, observed |
| 82R | 0.0 | On Site | FAULT | Normal fault, observed |
| 83W | 0.0 | On Site | FAULT | Normal fault, inferred |
| 84R | 0.0 | On Site | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 85R | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 86R | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 87S | 0.0 | On Site | ROCK | Coal seam, observed () |

| ID | Distance (m) | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 88S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 89P | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 90T | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 91S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 92R | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 93S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 94R | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 95T | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 96R | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 97 | 0.0 | On Site | ROCK | Coal seam, observed () |
| 98AI | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 99 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 100U | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 101I | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 102U | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 103Q | 0.0 | On Site | ROCK | Coal seam, observed () |
| 104X | 0.0 | On Site | ROCK | Coal seam, observed () |
| 105V | 0.0 | On Site | ROCK | Coal seam, observed () |
| 106W | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 107X | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 108X | 0.0 | On Site | ROCK | Coal seam, observed () |
| 109Y | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 110Y | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 111R | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 112R | 0.0 | On Site | ROCK | Coal seam, observed () |
| 113Z | 0.0 | On Site | ROCK | Coal seam, observed () |
| 114AA | 0.0 | On Site | ROCK | Coal seam, observed () |
| 115AA | 0.0 | On Site | ROCK | Coal seam, observed () |
| 116AB | 0.0 | On Site | ROCK | Coal seam, observed () |
| 117AA | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 118AC | 0.0 | On Site | ROCK | Coal seam, observed () |
| 119AB | 0.0 | On Site | ROCK | Coal seam, observed () |
| 120AB | 0.0 | On Site | ROCK | Coal seam, observed () |
| 121AC | 0.0 | On Site | ROCK | Coal seam, observed () |
| 122AC | 0.0 | On Site | ROCK | Coal seam, observed () |
| 123AB | 0.0 | On Site | ROCK | Coal seam, observed () |
| 124AC | 0.0 | On Site | ROCK | Coal seam, observed () |
| 125 | 0.0 | On Site | ROCK | Coal seam, observed () |
| 126U | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 127 | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 128AB | 0.0 | On Site | ROCK | Coal seam, observed () |
| 129Q | 0.0 | On Site | ROCK | Coal seam, observed () |
| 130AD | 0.0 | On Site | ROCK | Coal seam, inferred () |
| 131AD | 0.0 | On Site | ROCK | Coal seam, observed () |
| 132R | 0.0 | On Site | ROCK | Coal seam, observed () |
| 133AD | 0.0 | On Site | ROCK | Coal seam, observed () |
| 134AD | 0.0 | On Site | ROCK | Coal seam, observed () |
| 135S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 136R | 0.0 | On Site | ROCK | Coal seam, observed () |
| 137S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 138AD | 0.0 | On Site | ROCK | Coal seam, observed () |
| 139S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 140AD | 0.0 | On Site | ROCK | Coal seam, observed () |

| ID | Distance (m) | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 141S | 0.0 | On Site | ROCK | Coal seam, observed () |
| 142AA | 0.0 | On Site | ROCK | Coal seam, observed () |
| 143AE | 0.0 | On Site | FOLD_AXIS | Axial plane trace of major syncline |
| 144AE | 0.0 | On Site | ROCK | Coal seam, observed () |
| 145AE | 0.0 | On Site | ROCK | Coal seam, observed () |
| 146AE | 0.0 | On Site | FAULT | Normal fault, observed |
| 147AE | 0.0 | On Site | ROCK | Coal seam, observed () |
| 148AF | 0.0 | On Site | ROCK | Coal seam, observed () |
| 149AH | 0.0 | On Site | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 150AG | 0.0 | On Site | ROCK | Coal seam, observed () |
| 151AJ | 5.0 | NW | ROCK | Coal seam, observed () |
| 152Y | 11.0 | N | ROCK | Coal seam, inferred () |
| 153AG | 14.0 | N | ROCK | Coal seam, inferred () |
| 154AH | 18.0 | NW | ROCK | Coal seam, observed () |
| 155AH | 19.0 | NW | ROCK | Coal seam, observed () |
| 156AI | 33.0 | S | ROCK | Coal seam, observed () |
| 157O | 36.0 | NE | ROCK | Coal seam, inferred () |
| 158AG | 39.0 | N | ROCK | Coal seam, observed () |
| 159AE | 39.0 | NW | FOLD_AXIS | Axial plane trace of major anticline |
| 160AM | 44.0 | S | ROCK | Coal seam, inferred () |
| 161AJ | 45.0 | NW | ROCK | Coal seam, observed () |
| 162AH | 47.0 | NW | ROCK | Coal seam, observed () |
| 163AH | 47.0 | NW | ROCK | Coal seam, inferred () |
| 164AJ | 53.0 | NW | ROCK | Coal seam, observed () |
| 165AL | 58.0 | SE | ROCK | Coal seam, observed () |
| 166AK | 68.0 | N | FAULT | Normal fault, inferred |
| 167AH | 72.0 | NW | FAULT | Normal fault, inferred |
| 168AK | 73.0 | N | FAULT | Normal fault, inferred |
| 169AH | 77.0 | NW | ROCK | Coal seam, observed () |
| 170AL | 91.0 | S | ROCK | Coal seam, inferred () |
| 171AM | 100.0 | S | ROCK | Coal seam, inferred () |
| 172AL | 105.0 | S | ROCK | Coal seam, observed () |
| 173AL | 106.0 | S | FAULT | Normal fault, inferred |
| 174 | 107.0 | NE | ROCK | Coal seam, inferred () |
| 175AP | 121.0 | NW | ROCK | Coal seam, observed () |
| 176AN | 128.0 | N | ROCK | Coal seam, inferred () |
| 177AH | 136.0 | NW | ROCK | Coal seam, observed () |
| 178AR | 144.0 | NE | ROCK | Coal seam, observed () |
| 179AO | 144.0 | N | ROCK | Coal seam, inferred () |
| 180AP | 159.0 | NW | ROCK | Coal seam, observed () |
| 181AQ | 165.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 182A | 166.0 | S | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 183AH | 166.0 | NW | ROCK | Coal seam, observed () |
| 184A | 169.0 | S | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 185 | 170.0 | S | ROCK | Coal seam, inferred () |
| 186AQ | 182.0 | NE | ROCK | Coal seam, observed () |
| 187AS | 183.0 | NW | FOLD_AXIS | Axial plane trace of major syncline |
| 188 | 186.0 | NE | ROCK | Coal seam, inferred () |
| 189AJ | 199.0 | NW | ROCK | Coal seam, observed () |
| 190AR | 200.0 | N | ROCK | Coal seam, observed () |
| 191AS | 206.0 | NW | ROCK | Coal seam, observed () |
| 192BC | 207.0 | NE | ROCK | Coal seam, observed () |
| 193AP | 209.0 | NW | ROCK | Coal seam, observed () |

| ID | Distance (m) | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 194AT | 221.0 | NW | ROCK | Coal seam, observed () |
| 195AP | 223.0 | NW | ROCK | Coal seam, observed () |
| 196AT | 228.0 | NW | FAULT | Normal fault, observed |
| 197AQ | 228.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 198AU | 229.0 | SE | ROCK | Coal seam, inferred () |
| 199AU | 230.0 | SE | ROCK | Coal seam, observed () |
| 200AP | 231.0 | NW | ROCK | Coal seam, observed () |
| 201AQ | 236.0 | NE | FAULT | Normal fault, inferred |
| 202AH | 242.0 | NW | ROCK | Coal seam, inferred () |
| 203AH | 257.0 | NW | ROCK | Coal seam, inferred () |
| 204AV | 257.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 205AY | 257.0 | W | FOLD_AXIS | Axial plane trace of major anticline |
| 206AV | 260.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 207AW | 265.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 208AH | 269.0 | NW | ROCK | Coal seam, observed () |
| 209AW | 277.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 210AP | 280.0 | NW | ROCK | Coal seam, observed () |
| 211AF | 280.0 | NW | ROCK | Coal seam, observed () |
| 212AH | 282.0 | NW | ROCK | Coal seam, inferred () |
| 213AX | 285.0 | N | ROCK | Coal seam, observed () |
| 214AU | 287.0 | S | ROCK | Coal seam, inferred () |
| 215AF | 288.0 | NW | ROCK | Coal seam, observed () |
| 216AT | 291.0 | NW | FAULT | Normal fault, inferred |
| 217AH | 294.0 | NW | ROCK | Coal seam, observed () |
| 218AV | 303.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 219BF | 303.0 | N | ROCK | Coal seam, inferred () |
| 220AT | 307.0 | NW | ROCK | Coal seam, inferred () |
| 221AF | 310.0 | NW | ROCK | Coal seam, inferred () |
| 222AV | 313.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 223AT | 314.0 | NW | ROCK | Coal seam, observed () |
| 224AH | 314.0 | NW | ROCK | Coal seam, observed () |
| 225AX | 322.0 | N | ROCK | Coal seam, inferred () |
| 226AF | 323.0 | NW | ROCK | Coal seam, inferred () |
| 227AT | 323.0 | NW | ROCK | Coal seam, observed () |
| 228AT | 328.0 | NW | ROCK | Coal seam, inferred () |
| 229BD | 329.0 | NW | ROCK | Coal seam, inferred () |
| 230AY | 329.0 | NW | ROCK | Coal seam, observed () |
| 231AT | 331.0 | NW | ROCK | Coal seam, observed () |
| 232AZ | 332.0 | NW | ROCK | Coal seam, observed () |
| 233AY | 345.0 | NW | ROCK | Coal seam, observed () |
| 234AT | 346.0 | NW | ROCK | Coal seam, observed () |
| 235BA | 350.0 | NW | ROCK | Coal seam, observed () |
| 236AZ | 362.0 | NW | ROCK | Coal seam, observed () |
| 237BA | 364.0 | NW | ROCK | Coal seam, observed () |
| 238AZ | 368.0 | NW | ROCK | Coal seam, observed () |
| 239 | 371.0 | N | FAULT | Normal fault, inferred |
| 240BB | 374.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 241BG | 379.0 | W | ROCK | Coal seam, observed () |
| 242BC | 381.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 243AF | 382.0 | NW | ROCK | Coal seam, inferred () |
| 244BC | 389.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 245AY | 401.0 | NW | ROCK | Coal seam, observed () |
| 246BC | 406.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |

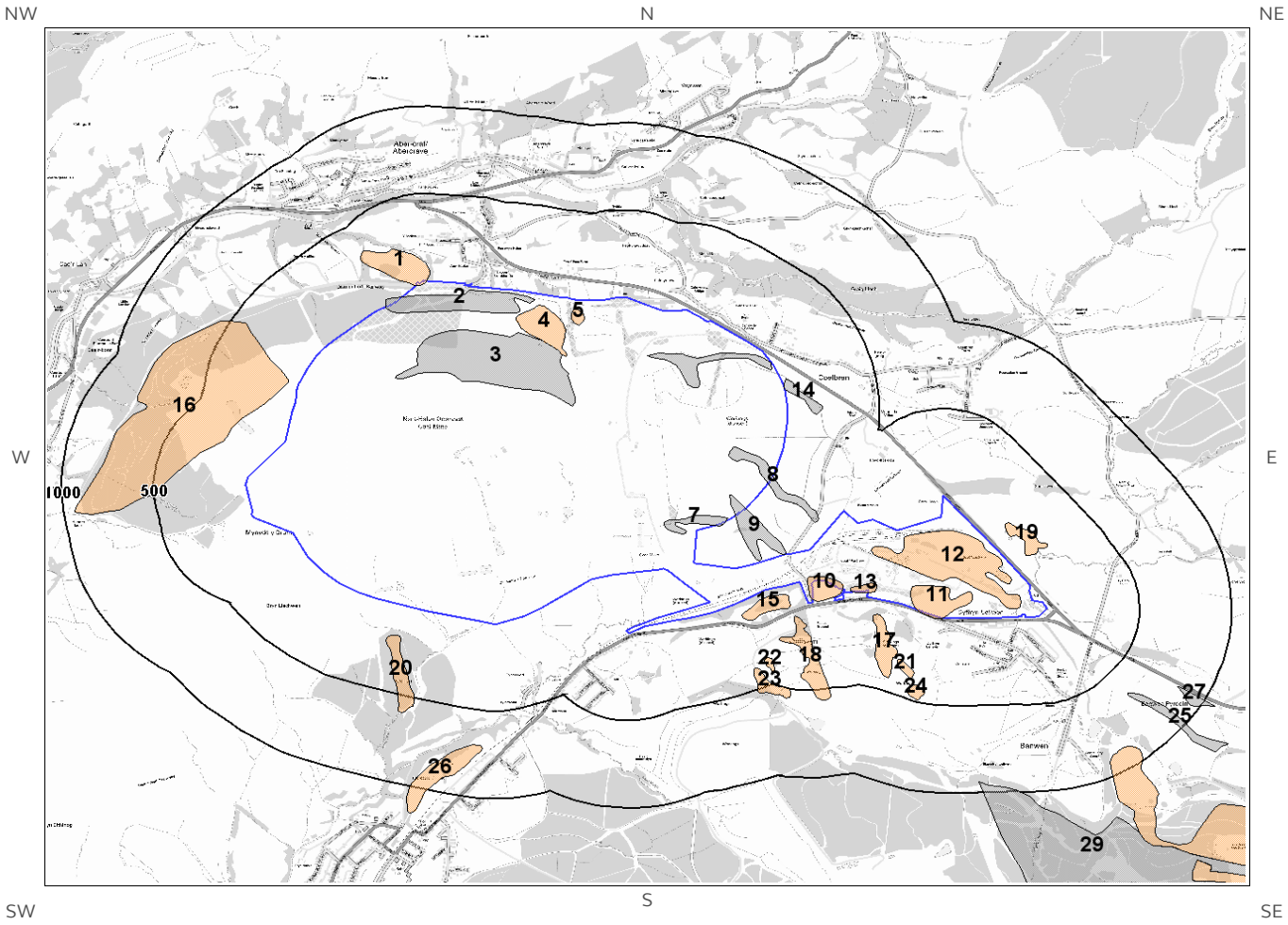
| ID | Distance (m) | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 247 | 408.0 | E | FAULT | Normal fault, inferred |
| 248AY | 410.0 | NW | ROCK | Coal seam, observed () |
| 249 | 411.0 | E | ROCK | Coal seam, inferred () |
| 250AF | 411.0 | NW | ROCK | Coal seam, inferred () |
| 251AY | 414.0 | NW | ROCK | Coal seam, observed () |
| 252BE | 421.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 253BC | 422.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 254AY | 426.0 | NW | ROCK | Coal seam, observed () |
| 255D | 426.0 | N | FAULT | Normal fault, observed |
| 256BD | 448.0 | W | ROCK | Coal seam, observed () |
| 257BE | 453.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 258AZ | 455.0 | NW | ROCK | Coal seam, observed () |
| 259BD | 468.0 | W | ROCK | Coal seam, observed () |
| 260BD | 468.0 | W | ROCK | Coal seam, observed () |
| 261BF | 471.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 262BJ | 472.0 | NW | ROCK | Coal seam, observed () |
| 263BB | 474.0 | NE | ROCK | Coal seam, observed () |
| 264BG | 477.0 | W | ROCK | Coal seam, observed () |
| 265BU | 483.0 | NW | ROCK | Coal seam, inferred () |
| 266 | 485.0 | N | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 267BH | 491.0 | N | FAULT | Normal fault, observed |
| 268 | 496.0 | NE | FOSSIL_HORIZON | Fossil horizon, marine band () |
| 269BB | 498.0 | NE | ROCK | Coal seam, inferred () |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

# 2 Geology 1:50,000 Scale

# 2.1 Artificial Ground map




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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Worked Ground (undivided)

Infilled Ground

Disturbed Ground (undivided)

Landscaped Ground (undivided)

Reclaimed Ground

# 2. Geology 1:50,000 scale

## 2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 231

### 2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 2 | 0.0 | On Site | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 3 | 0.0 | On Site | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 4 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 5 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 6 | 0.0 | On Site | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 7 | 0.0 | On Site | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 8 | 0.0 | On Site | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 9 | 0.0 | On Site | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 10 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 11 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 12 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 13 | 0.0 | On Site | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 14 | 2.0 | E | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 15 | 36.0 | SE | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 16 | 58.0 | W | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 17 | 84.0 | S | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 18 | 95.0 | SW | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 19 | 97.0 | NE | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 20 | 175.0 | S | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 21 | 296.0 | S | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 22 | 349.0 | SE | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 23 | 382.0 | S | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 24 | 408.0 | S | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

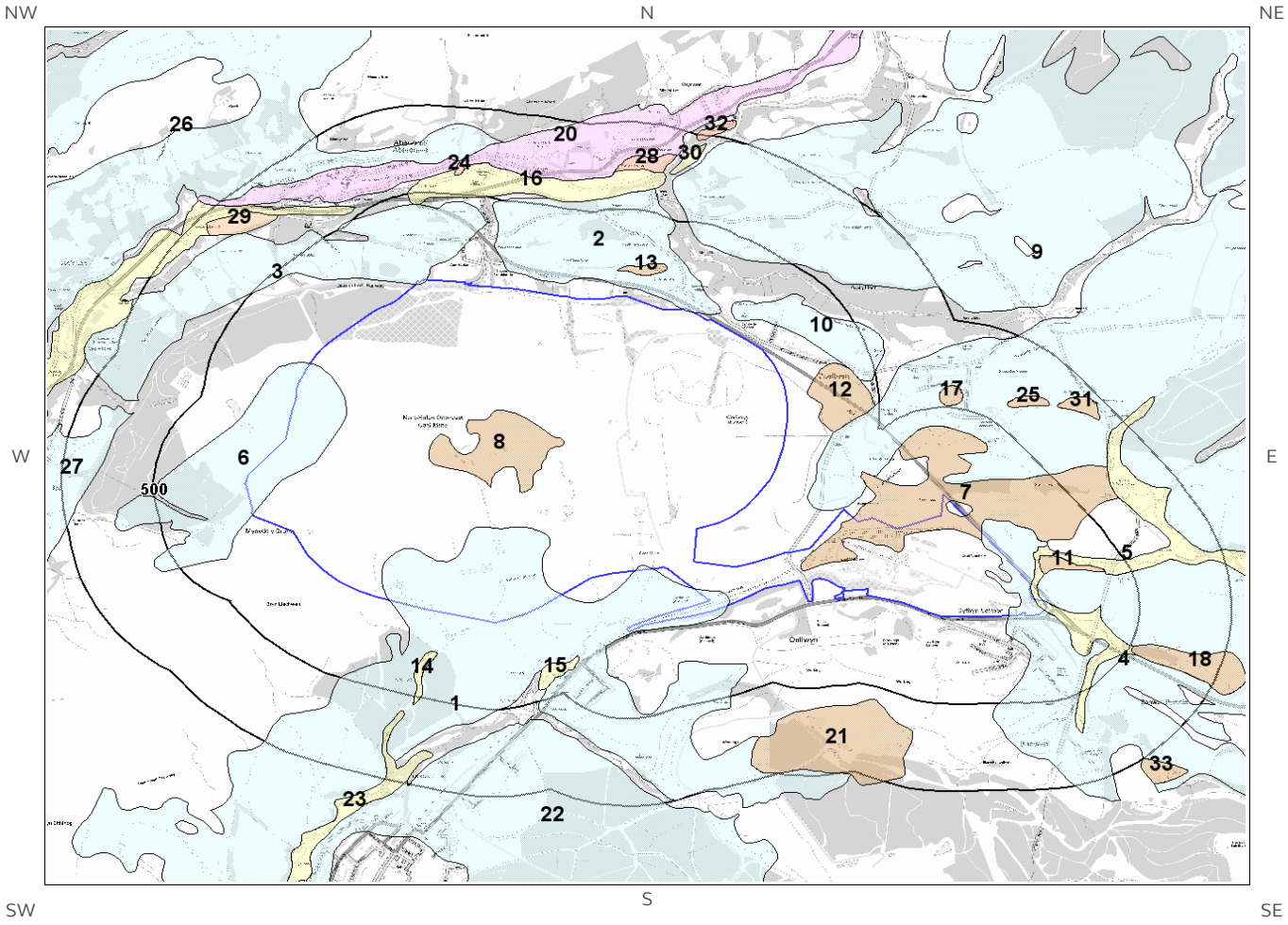
### 2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 36.0 | SE | Mixed | Very High | Low |

# 2.2 Superficial Deposits and Landslips map (1:50,000 scale)




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Site Outline

500
1000
Search Buffers (m)

# 2.2 Superficial Deposits and Landslips

## 2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

| ID | Distance | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 2 | 0.0 | On Site | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 3 | 0.0 | On Site | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 4 | 0.0 | On Site | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 5 | 0.0 | On Site | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| 6 | 0.0 | On Site | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 7 | 0.0 | On Site | PEAT-P | PEAT | PEAT |
| 8 | 0.0 | On Site | PEAT-P | PEAT | PEAT |
| 9 | 10.0 | N | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 10 | 71.0 | NE | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 11 | 94.0 | NE | PEAT-P | PEAT | PEAT |
| 12 | 118.0 | E | PEAT-P | PEAT | PEAT |
| 13 | 136.0 | N | PEAT-P | PEAT | PEAT |
| 14 | 228.0 | S | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| 15 | 306.0 | SW | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| 16 | 431.0 | N | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |

## 2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Mixed | High | Low |
| 0.0 | On Site | Mixed | High | Low |
| 0.0 | On Site | Mixed | High | Low |
| 0.0 | On Site | Mixed | Low | Very Low |
| 0.0 | On Site | Mixed | High | Low |
| 0.0 | On Site | Mixed | Low | Very Low |
| 0.0 | On Site | Mixed | Low | Very Low |
| 0.0 | On Site | Intergranular | High | Very Low |
| 0.0 | On Site | Mixed | High | Low |
| 4.0 | NE | Mixed | High | Low |
| 10.0 | N | Mixed | High | Low |

## 2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

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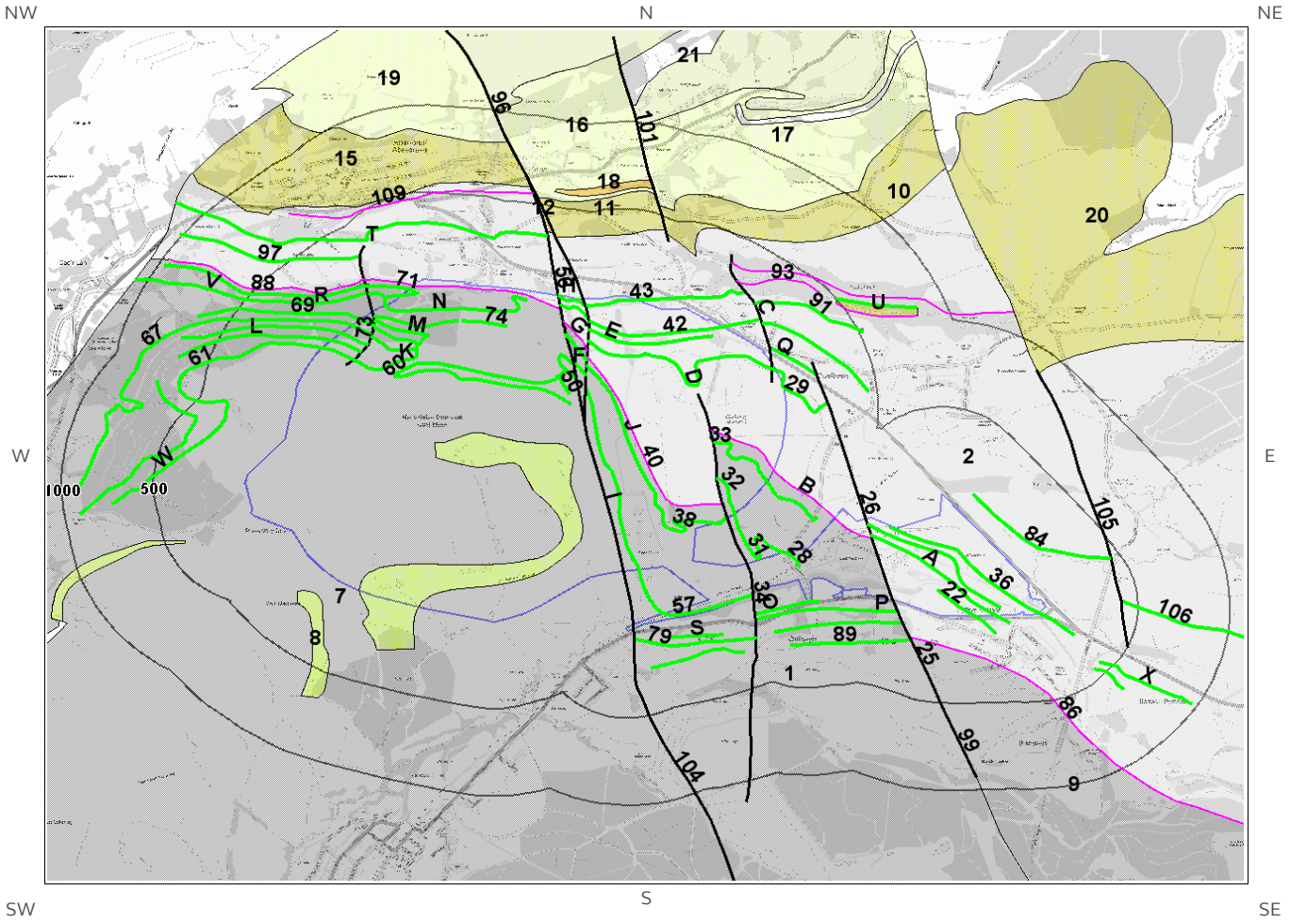
## 2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

---

# 2.3 Bedrock and linear features map (1:50,000 scale)




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Site Outline

500
1000
Search Buffers (m)

# 2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 231

## 2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

| ID | Distance | Direction | LEX Code | Rock Description | Rock Age |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 2 | 0.0 | On Site | SWLCM-MDSS | SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 3T | 0.0 | On Site | SWLCM-MDSS | SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 4H | 0.0 | On Site | SWLCM-MDSS | SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 5F | 0.0 | On Site | SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 6 | 0.0 | On Site | SWMCM-SDST | SOUTH WALES MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 7 | 0.0 | On Site | SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 8 | 137.0 | SW | SWMCM-SDST | SOUTH WALES MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 9 | 160.0 | S | SWMCM-MDSS | SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 10 | 303.0 | N | SWLCM-SDST | SOUTH WALES LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 11 | 331.0 | N | SWLCM-SDST | SOUTH WALES LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 12 | 350.0 | N | SWLCM-SDST | SOUTH WALES LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 13 | 399.0 | SW | SWMCM-SDST | SOUTH WALES MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |

| ID | Distance | Direction | LEX Code | Rock Description | Rock Age |
|---|---|---|---|---|---|
| 14U | 484.0 | NE | SWLCM-SDST | SOUTH WALES LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |

## 2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

| Distance | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Fracture | Moderate | Low |
| 0.0 | On Site | Fracture | Moderate | Low |
| 0.0 | On Site | Fracture | High | Moderate |
| 0.0 | On Site | Fracture | Moderate | Low |

## 2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? Yes

| ID | Distance | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 22 | 0.0 | On Site | ROCK | Coal seam, inferred |
| 23A | 0.0 | On Site | ROCK | Coal seam, inferred |
| 24A | 0.0 | On Site | ROCK | Coal seam, inferred |
| 25 | 0.0 | On Site | FAULT | Fault, observed, displacement unknown |
| 26 | 0.0 | On Site | FAULT | Fault, inferred, displacement unknown |
| 27B | 0.0 | On Site | FOSSIL_HORIZON | Marine band |
| 28 | 0.0 | On Site | ROCK | Coal seam, observed |
| 29 | 0.0 | On Site | ROCK | Coal seam, observed |
| 30B | 0.0 | On Site | ROCK | Coal seam, observed |
| 31 | 0.0 | On Site | ROCK | Coal seam, observed |
| 32 | 0.0 | On Site | ROCK | Coal seam, observed |
| 33 | 0.0 | On Site | ROCK | Coal seam, observed |
| 34 | 0.0 | On Site | FAULT | Fault, inferred, displacement unknown |
| 35C | 0.0 | On Site | FAULT | Fault, observed, displacement unknown |
| 36 | 0.0 | On Site | ROCK | Coal seam, inferred |
| 37C | 0.0 | On Site | ROCK | Coal seam, inferred |
| 38 | 0.0 | On Site | ROCK | Coal seam, observed |
| 39D | 0.0 | On Site | ROCK | Coal seam, observed |
| 40 | 0.0 | On Site | FOSSIL_HORIZON | Marine band |
| 41D | 0.0 | On Site | ROCK | Coal seam, observed |
| 42 | 0.0 | On Site | ROCK | Coal seam, observed |
| 43 | 0.0 | On Site | ROCK | Coal seam, observed |
| 44J | 0.0 | On Site | ROCK | Coal seam, inferred |
| 45I | 0.0 | On Site | FAULT | Fault, observed, displacement unknown |
| 46E | 0.0 | On Site | ROCK | Coal seam, inferred |
| 47E | 0.0 | On Site | ROCK | Coal seam, inferred |
| 48F | 0.0 | On Site | ROCK | Coal seam, observed |

| ID | Distance | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 49F | 0.0 | On Site | ROCK | Coal seam, inferred |
| 50 | 0.0 | On Site | ROCK | Coal seam, observed |
| 51G | 0.0 | On Site | FOSSIL_HORIZON | Marine band |
| 52F | 0.0 | On Site | ROCK | Coal seam, observed |
| 53G | 0.0 | On Site | FAULT | Fault, inferred, displacement unknown |
| 54H | 0.0 | On Site | ROCK | Coal seam, inferred |
| 55H | 0.0 | On Site | ROCK | Coal seam, inferred |
| 56 | 0.0 | On Site | FAULT | Fault, inferred, displacement unknown |
| 57 | 0.0 | On Site | ROCK | Coal seam, inferred |
| 58I | 0.0 | On Site | ROCK | Coal seam, observed |
| 59J | 0.0 | On Site | ROCK | Coal seam, inferred |
| 60 | 0.0 | On Site | ROCK | Coal seam, observed |
| 61 | 0.0 | On Site | ROCK | Coal seam, observed |
| 62K | 0.0 | On Site | ROCK | Coal seam, observed |
| 63L | 0.0 | On Site | ROCK | Coal seam, observed |
| 64K | 0.0 | On Site | ROCK | Coal seam, observed |
| 65L | 0.0 | On Site | ROCK | Coal seam, observed |
| 66M | 0.0 | On Site | ROCK | Coal seam, observed |
| 67 | 0.0 | On Site | ROCK | Coal seam, observed |
| 68M | 0.0 | On Site | ROCK | Coal seam, observed |
| 69 | 0.0 | On Site | ROCK | Coal seam, observed |
| 70N | 0.0 | On Site | ROCK | Coal seam, observed |
| 71 | 0.0 | On Site | ROCK | Coal seam, observed |
| 72N | 0.0 | On Site | FOSSIL_HORIZON | Marine band |
| 73 | 0.0 | On Site | FAULT | Fault, observed, displacement unknown |
| 74 | 0.0 | On Site | ROCK | Coal seam, inferred |
| 75O | 4.0 | S | ROCK | Coal seam, inferred |
| 76Q | 41.0 | NE | ROCK | Coal seam, inferred |
| 77O | 52.0 | S | ROCK | Coal seam, observed |
| 78P | 56.0 | S | ROCK | Coal seam, inferred |
| 79 | 57.0 | SE | ROCK | Coal seam, observed |
| 80R | 106.0 | NW | ROCK | Coal seam, observed |
| 81S | 106.0 | S | ROCK | Coal seam, inferred |
| 82P | 109.0 | S | ROCK | Coal seam, inferred |
| 83Q | 125.0 | NE | ROCK | Coal seam, inferred |
| 84 | 125.0 | NE | ROCK | Coal seam, inferred |
| 85R | 149.0 | NW | ROCK | Coal seam, observed |
| 86 | 160.0 | S | FOSSIL_HORIZON | Marine band |
| 87S | 164.0 | S | ROCK | Coal seam, inferred |
| 88 | 179.0 | NW | FOSSIL_HORIZON | Marine band |
| 89 | 183.0 | S | ROCK | Coal seam, inferred |
| 90T | 201.0 | NW | FAULT | Fault, inferred, displacement unknown |
| 91 | 202.0 | NE | ROCK | Coal seam, observed |
| 92S | 221.0 | S | ROCK | Coal seam, inferred |
| 93 | 261.0 | NE | FOSSIL_HORIZON | Marine band |
| 94T | 278.0 | N | ROCK | Coal seam, inferred |
| 95W | 301.0 | NW | ROCK | Coal seam, inferred |
| 96 | 306.0 | N | FAULT | Fault, observed, displacement unknown |
| 97 | 312.0 | NW | ROCK | Coal seam, inferred |
| 98U | 334.0 | NE | FOSSIL_HORIZON | Marine band |
| 99 | 343.0 | S | FAULT | Fault, inferred, displacement unknown |
| 100V | 357.0 | NW | ROCK | Coal seam, inferred |
| 101 | 370.0 | N | FAULT | Fault, inferred, displacement unknown |

| ID | Distance | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 102V | 391.0 | NW | ROCK | Coal seam, inferred |
| 103W | 393.0 | NW | ROCK | Coal seam, observed |
| 104 | 395.0 | S | FAULT | Fault, inferred, displacement unknown |
| 105 | 405.0 | E | FAULT | Fault, inferred, displacement unknown |
| 106 | 409.0 | E | ROCK | Coal seam, inferred |
| 107X | 432.0 | SE | ROCK | Coal seam, inferred |
| 108X | 444.0 | SE | ROCK | Coal seam, inferred |
| 109 | 465.0 | N | FOSSIL_HORIZON | Marine band |
| 110U | 484.0 | NE | FOSSIL_HORIZON | Marine band |
| 111U | 499.0 | NE | ROCK | Coal seam, inferred |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

# 3 Radon Data

## 3.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

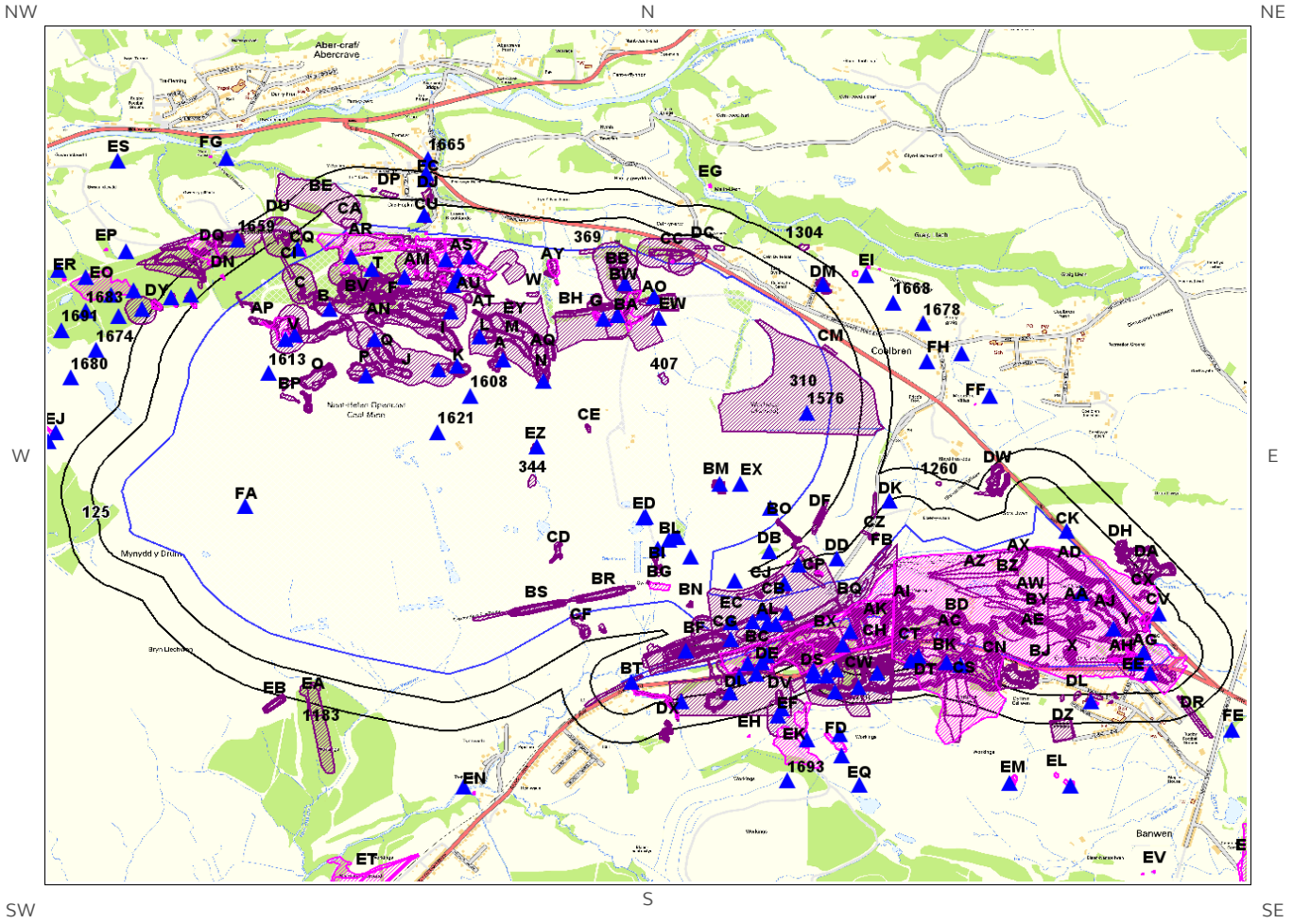
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## 3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

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# 4 Ground Workings map




**Ground Workings Legend**

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Site Outline

125
250
Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings

# 4 Ground Workings

## 4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1C | 0.0 | On Site | 281896 211838 | Unspecified Pit | 1948 |
| 2B | 0.0 | On Site | 281987 211776 | Unspecified Pit | 1948 |
| 3T | 0.0 | On Site | 282212 211920 | Unspecified Ground Workings | 1948 |
| 4D | 0.0 | On Site | 282166 211895 | Unspecified Ground Workings | 1948 |
| 5S | 0.0 | On Site | 282105 211908 | Unspecified Ground Workings | 1948 |
| 6F | 0.0 | On Site | 282277 211813 | Unspecified Pit | 1948 |
| 7U | 0.0 | On Site | 282491 211904 | Unspecified Ground Workings | 1948 |
| 8E | 0.0 | On Site | 282396 211774 | Unspecified Ground Workings | 1948 |
| 9Q | 0.0 | On Site | 282248 211590 | Unspecified Ground Workings | 1948 |
| 10L | 0.0 | On Site | 282661 211652 | Unspecified Pit | 1948 |
| 11M | 0.0 | On Site | 282815 211624 | Unspecified Ground Workings | 1948 |
| 12N | 0.0 | On Site | 282892 211494 | Unspecified Pit | 1948 |
| 13G | 0.0 | On Site | 283122 211755 | Unspecified Pit | 1948 |
| 14I | 0.0 | On Site | 282478 211636 | Unspecified Pit | 1948 |
| 15K | 0.0 | On Site | 282554 211514 | Unspecified Ground Workings | 1948 |
| 16O | 0.0 | On Site | 281966 211484 | Unspecified Ground Workings | 1948 |
| 17P | 0.0 | On Site | 282164 211508 | Unspecified Ground Workings | 1948 |
| 18H | 0.0 | On Site | 281986 211695 | Unspecified Ground Workings | 1948 |
| 19A | 0.0 | On Site | 282724 211575 | Unspecified Ground Workings | 1948 |
| 20A | 0.0 | On Site | 282713 211522 | Unspecified Pit | 1948 |
| 21J | 0.0 | On Site | 282338 211498 | Unspecified Pit | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 22B | 0.0 | On Site | 281987 211776 | Unspecified Pit | 1903 |
| 23C | 0.0 | On Site | 281896 211838 | Unspecified Pit | 1903 |
| 24R | 0.0 | On Site | 281654 211801 | Unspecified Ground Workings | 1903 |
| 25D | 0.0 | On Site | 282124 211862 | Unspecified Pit | 1903 |
| 26AM | 0.0 | On Site | 282380 211935 | Unspecified Pit | 1903 |
| 27E | 0.0 | On Site | 282396 211774 | Unspecified Ground Workings | 1903 |
| 28F | 0.0 | On Site | 282273 211813 | Unspecified Pit | 1903 |
| 29F | 0.0 | On Site | 282313 211798 | Unspecified Pit | 1903 |
| 30W | 0.0 | On Site | 282861 211847 | Unspecified Ground Workings | 1903 |
| 31G | 0.0 | On Site | 283130 211811 | Unspecified Ground Workings | 1903 |
| 32H | 0.0 | On Site | 281986 211695 | Unspecified Ground Workings | 1903 |
| 33I | 0.0 | On Site | 282478 211636 | Unspecified Pit | 1903 |
| 34AN | 0.0 | On Site | 282211 211720 | Unspecified Ground Workings | 1903 |
| 35J | 0.0 | On Site | 282338 211498 | Unspecified Pit | 1903 |
| 36K | 0.0 | On Site | 282470 211507 | Unspecified Pit | 1903 |
| 37L | 0.0 | On Site | 282661 211652 | Unspecified Pit | 1903 |
| 38M | 0.0 | On Site | 282815 211624 | Unspecified Ground Workings | 1903 |
| 39N | 0.0 | On Site | 282892 211494 | Unspecified Pit | 1903 |
| 40A | 0.0 | On Site | 282724 211575 | Unspecified Ground Workings | 1903 |
| 41A | 0.0 | On Site | 282713 211522 | Unspecified Pit | 1903 |
| 42K | 0.0 | On Site | 282554 211514 | Unspecified Ground Workings | 1903 |
| 43O | 0.0 | On Site | 281966 211484 | Unspecified Ground Workings | 1903 |
| 44P | 0.0 | On Site | 282164 211508 | Unspecified Ground Workings | 1903 |
| 45AT | 0.0 | On Site | 282651 211756 | Unspecified Ground Workings | 1903 |
| 46Q | 0.0 | On Site | 282263 211585 | Unspecified Ground Workings | 1903 |
| 47R | 0.0 | On Site | 281704 211793 | Unspecified Ground Workings | 1877 |
| 48S | 0.0 | On Site | 282047 211976 | Old Coal Level | 1877 |
| 49T | 0.0 | On Site | 282168 211954 | Old Coal Level | 1877 |
| 50AV | 0.0 | On Site | 282350 212069 | Unspecified Ground Workings | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 51D | 0.0 | On Site | 282163 211836 | Unspecified Pit | 1877 |
| 52U | 0.0 | On Site | 282506 211890 | Old Coal Level | 1877 |
| 53V | 0.0 | On Site | 281868 211655 | Old Coal Level | 1877 |
| 54H | 0.0 | On Site | 281893 211637 | Old Coal Level | 1877 |
| 55V | 0.0 | On Site | 281879 211669 | Unspecified Pit | 1877 |
| 56V | 0.0 | On Site | 281846 211646 | Unspecified Pit | 1877 |
| 57AP | 0.0 | On Site | 281704 211724 | Unspecified Ground Workings | 1877 |
| 58O | 0.0 | On Site | 281966 211484 | Unspecified Ground Workings | 1877 |
| 59W | 0.0 | On Site | 282782 211804 | Unspecified Pit | 1877 |
| 60AD | 0.0 | On Site | 285082 210657 | Unspecified Ground Workings | 1948 |
| 61AB | 0.0 | On Site | 285265 210535 | Unspecified Ground Workings | 1948 |
| 62AJ | 0.0 | On Site | 285231 210443 | Unspecified Pit | 1948 |
| 63X | 0.0 | On Site | 285098 210246 | Unspecified Pit | 1948 |
| 64AH | 0.0 | On Site | 285296 210247 | Unspecified Pit | 1948 |
| 65AF | 0.0 | On Site | 285096 210401 | Unspecified Ground Workings | 1948 |
| 66X | 0.0 | On Site | 285090 210281 | Unspecified Ground Workings | 1948 |
| 67Y | 0.0 | On Site | 285314 210362 | Unspecified Ground Workings | 1948 |
| 68Y | 0.0 | On Site | 285404 210409 | Old Coal Level | 1948 |
| 69AA | 0.0 | On Site | 285121 210463 | Unspecified Pit | 1948 |
| 70Z | 0.0 | On Site | 284746 210333 | Unspecified Ground Workings | 1948 |
| 71Z | 0.0 | On Site | 284676 210315 | Unspecified Pit | 1948 |
| 72AC | 0.0 | On Site | 284589 210354 | Unspecified Ground Workings | 1948 |
| 73AE | 0.0 | On Site | 284933 210359 | Unspecified Pit | 1948 |
| 74AA | 0.0 | On Site | 285143 210530 | Unspecified Pit | 1903 |
| 75Z | 0.0 | On Site | 284676 210315 | Unspecified Pit | 1903 |
| 76AA | 0.0 | On Site | 285108 210475 | Unspecified Pit | 1903 |
| 77X | 0.0 | On Site | 285088 210244 | Unspecified Pit | 1903 |
| 78AB | 0.0 | On Site | 285244 210511 | Old Coal Level | 1903 |
| 79AI | 0.0 | On Site | 284377 210483 | Unspecified Ground Workings | 1903 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 80AC | 0.0 | On Site | 284558 210351 | Unspecified Ground Workings | 1903 |
| 81AG | 0.0 | On Site | 285402 210270 | Old Coal Level | 1903 |
| 82AD | 0.0 | On Site | 285184 210590 | Unspecified Pit | 1903 |
| 83AD | 0.0 | On Site | 285080 210657 | Unspecified Pit | 1903 |
| 84AE | 0.0 | On Site | 284883 210391 | Unspecified Ground Workings | 1903 |
| 85AF | 0.0 | On Site | 285029 210382 | Unspecified Ground Workings | 1903 |
| 86AG | 0.0 | On Site | 285328 210258 | Old Coal Pit | 1903 |
| 87X | 0.0 | On Site | 285088 210244 | Unspecified Pit | 1877 |
| 88Y | 0.0 | On Site | 285323 210294 | Unspecified Pit | 1877 |
| 89AH | 0.0 | On Site | 285277 210244 | Unspecified Pit | 1877 |
| 90AA | 0.0 | On Site | 285134 210534 | Unspecified Pit | 1877 |
| 91AD | 0.0 | On Site | 285130 210613 | Unspecified Ground Workings | 1877 |
| 92AI | 0.0 | On Site | 284392 210465 | Unspecified Ground Workings | 1877 |
| 93BK | 0.0 | On Site | 284570 210257 | Unspecified Ground Workings | 1877 |
| 94BD | 0.0 | On Site | 284625 210426 | Unspecified Ground Workings | 1877 |
| 95AE | 0.0 | On Site | 284875 210398 | Unspecified Pit | 1877 |
| 96Z | 0.0 | On Site | 284771 210391 | Unspecified Ground Workings | 1877 |
| 97AF | 0.0 | On Site | 285041 210372 | Unspecified Ground Workings | 1877 |
| 98AJ | 0.0 | On Site | 285256 210414 | Unspecified Ground Workings | 1877 |
| 99AF | 0.0 | On Site | 285091 210398 | Unspecified Ground Workings | 1877 |
| 100X | 0.0 | On Site | 285079 210280 | Unspecified Ground Workings | 1877 |
| 101AA | 0.0 | On Site | 285090 210482 | Unspecified Pit | 1877 |
| 102AB | 0.0 | On Site | 285274 210484 | Unspecified Ground Workings | 1877 |
| 103AK | 0.0 | On Site | 284265 210405 | Unspecified Ground Workings | 1876 |
| 104BL | 0.0 | On Site | 283429 210759 | Old Coal Level | 1901 |
| 105AL | 0.0 | On Site | 283833 210404 | Old Coal Pit | 1901 |
| 106AI | 0.0 | On Site | 284297 210482 | Unspecified Ground Workings | 1901 |
| 107AK | 0.0 | On Site | 284227 210445 | Unspecified Ground Workings | 1901 |
| 108AL | 0.0 | On Site | 283951 210352 | Unspecified Ground Workings | 1901 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 109CH | 0.0 | On Site | 284294 210315 | Unspecified Ground Workings | 1901 |
| 110AA | 0.0 | On Site | 285142 210529 | Old Coal Level | 1900 |
| 111AW | 0.0 | On Site | 284929 210515 | Unspecified Ground Workings | 1900 |
| 112AH | 0.0 | On Site | 285348 210272 | Old Coal Level | 1900 |
| 113AD | 0.0 | On Site | 285078 210650 | Unspecified Ground Workings | 1900 |
| 114X | 0.0 | On Site | 285096 210238 | Unspecified Pit | 1900 |
| 115AI | 0.0 | On Site | 284377 210484 | Unspecified Ground Workings | 1900 |
| 116AE | 0.0 | On Site | 284885 210389 | Unspecified Pit | 1900 |
| 117AF | 0.0 | On Site | 285032 210381 | Unspecified Ground Workings | 1900 |
| 118C | 0.0 | On Site | 281903 211872 | Unspecified Heap | 1948 |
| 119B | 0.0 | On Site | 281995 211821 | Unspecified Heap | 1948 |
| 120S | 0.0 | On Site | 282124 211941 | Unspecified Old Level | 1948 |
| 121AM | 0.0 | On Site | 282495 211973 | Unspecified Heap | 1948 |
| 122U | 0.0 | On Site | 282578 211838 | Unspecified Old Level | 1948 |
| 123F | 0.0 | On Site | 282222 211846 | Unspecified Heap | 1948 |
| 124U | 0.0 | On Site | 282458 211838 | Unspecified Heap | 1948 |
| 125E | 0.0 | On Site | 282511 211800 | Unspecified Heap | 1948 |
| 126F | 0.0 | On Site | 282317 211798 | Unspecified Heap | 1948 |
| 127U | 0.0 | On Site | 282532 211884 | Unspecified Heap | 1948 |
| 128AU | 0.0 | On Site | 282592 211832 | Unspecified Heap | 1948 |
| 129AO | 0.0 | On Site | 283367 211817 | Unspecified Heap | 1948 |
| 130G | 0.0 | On Site | 283168 211718 | Old Coal Levels | 1948 |
| 131G | 0.0 | On Site | 283121 211813 | Unspecified Heaps | 1948 |
| 132E | 0.0 | On Site | 282444 211717 | Unspecified Heap | 1948 |
| 133F | 0.0 | On Site | 282196 211756 | Unspecified Heap | 1948 |
| 134AN | 0.0 | On Site | 282224 211733 | Unspecified Heap | 1948 |
| 135M | 0.0 | On Site | 282870 211636 | Unspecified Heap | 1948 |
| 136AQ | 0.0 | On Site | 282904 211576 | Unspecified Heaps | 1948 |
| 137L | 0.0 | On Site | 282723 211705 | Unspecified Heaps | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 138G | 0.0 | On Site | 283151 211740 | Unspecified Heap | 1948 |
| 139G | 0.0 | On Site | 283182 211723 | Refuse Heap | 1948 |
| 140G | 0.0 | On Site | 283210 211753 | Unspecified Heap | 1948 |
| 141AO | 0.0 | On Site | 283279 211732 | Colliery | 1948 |
| 142AM | 0.0 | On Site | 282328 211899 | Unspecified Old Levels | 1948 |
| 143AR | 0.0 | On Site | 282141 212051 | Colliery | 1948 |
| 144I | 0.0 | On Site | 282524 211649 | Unspecified Heap | 1948 |
| 145AS | 0.0 | On Site | 282568 212004 | Colliery | 1948 |
| 146A | 0.0 | On Site | 282699 211533 | Unspecified Heap | 1948 |
| 147BU | 0.0 | On Site | 282706 211966 | Refuse Heap | 1948 |
| 148AY | 0.0 | On Site | 282938 211960 | Refuse Heap | 1948 |
| 149AP | 0.0 | On Site | 281701 211730 | Unspecified Heap | 1948 |
| 150AP | 0.0 | On Site | 281773 211715 | Unspecified Heap | 1948 |
| 151B | 0.0 | On Site | 281995 211821 | Unspecified Heap | 1903 |
| 152C | 0.0 | On Site | 281903 211872 | Unspecified Heap | 1903 |
| 153D | 0.0 | On Site | 282110 211902 | Unspecified Heap | 1903 |
| 154D | 0.0 | On Site | 282068 211883 | Unspecified Heap | 1903 |
| 155D | 0.0 | On Site | 282216 211911 | Unspecified Heaps | 1903 |
| 156D | 0.0 | On Site | 282222 211846 | Unspecified Heap | 1903 |
| 157D | 0.0 | On Site | 282140 211829 | Unspecified Heap | 1903 |
| 158D | 0.0 | On Site | 282193 211950 | Unspecified Heap | 1903 |
| 159E | 0.0 | On Site | 282369 211826 | Unspecified Heaps | 1903 |
| 160AM | 0.0 | On Site | 282331 211906 | Unspecified Heap | 1903 |
| 161AM | 0.0 | On Site | 282487 211918 | Unspecified Old Levels | 1903 |
| 162BB | 0.0 | On Site | 283210 211941 | Unspecified Heaps | 1903 |
| 163AP | 0.0 | On Site | 281842 211662 | Unspecified Old Levels | 1903 |
| 164AP | 0.0 | On Site | 281701 211730 | Unspecified Heap | 1903 |
| 165E | 0.0 | On Site | 282444 211717 | Unspecified Heap | 1903 |
| 166I | 0.0 | On Site | 282524 211649 | Unspecified Heap | 1903 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 167A | 0.0 | On Site | 282699 211533 | Unspecified Heap | 1903 |
| 168M | 0.0 | On Site | 282870 211636 | Unspecified Heap | 1903 |
| 169A Q | 0.0 | On Site | 282904 211576 | Unspecified Heaps | 1903 |
| 170G | 0.0 | On Site | 283210 211753 | Unspecified Heap | 1903 |
| 171G | 0.0 | On Site | 283139 211746 | Unspecified Old Levels | 1903 |
| 172AR | 0.0 | On Site | 282141 212051 | Colliery | 1903 |
| 173AS | 0.0 | On Site | 282568 212004 | Colliery | 1903 |
| 174U | 0.0 | On Site | 282531 211881 | Unspecified Old Levels | 1903 |
| 175AT | 0.0 | On Site | 282712 211723 | Unspecified Heap | 1903 |
| 176M | 0.0 | On Site | 282780 211693 | Unspecified Heaps | 1903 |
| 177H | 0.0 | On Site | 281888 211646 | Unspecified Old Levels | 1903 |
| 178AP | 0.0 | On Site | 281860 211719 | Unspecified Heap | 1903 |
| 179G | 0.0 | On Site | 283209 211740 | Unspecified Old Level | 1903 |
| 180A N | 0.0 | On Site | 282195 211756 | Unspecified Heap | 1903 |
| 181A U | 0.0 | On Site | 282592 211829 | Unspecified Heap | 1903 |
| 182D | 0.0 | On Site | 282103 211900 | Unspecified Heaps | 1877 |
| 183D | 0.0 | On Site | 282226 211929 | Unspecified Heaps | 1877 |
| 184A M | 0.0 | On Site | 282326 211907 | Unspecified Heaps | 1877 |
| 185D | 0.0 | On Site | 282213 211846 | Unspecified Heap | 1877 |
| 186A U | 0.0 | On Site | 282593 211831 | Unspecified Heap | 1877 |
| 187BA | 0.0 | On Site | 283247 211737 | Unspecified Heap | 1877 |
| 188A M | 0.0 | On Site | 282367 211948 | Coal Levels | 1877 |
| 189A M | 0.0 | On Site | 282352 211932 | Coal Levels | 1877 |
| 190A V | 0.0 | On Site | 282478 212034 | Colliery | 1877 |
| 191H | 0.0 | On Site | 281877 211713 | Unspecified Heap | 1877 |
| 192A X | 0.0 | On Site | 284875 210683 | Unspecified Heap | 1948 |
| 193AE | 0.0 | On Site | 284964 210308 | Colliery | 1948 |
| 194AZ | 0.0 | On Site | 284693 210618 | Refuse Heap | 1948 |
| 195AE | 0.0 | On Site | 284865 210414 | Refuse Heaps | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 196AW | 0.0 | On Site | 284895 210544 | Refuse Heap | 1948 |
| 197AA | 0.0 | On Site | 285133 210406 | Unspecified Heaps | 1948 |
| 198AF | 0.0 | On Site | 285132 210400 | Unspecified Heap | 1903 |
| 199X | 0.0 | On Site | 285091 210275 | Unspecified Heap | 1903 |
| 200AX | 0.0 | On Site | 284875 210683 | Unspecified Heap | 1903 |
| 201Y | 0.0 | On Site | 285244 210337 | Unspecified Heap | 1903 |
| 202AX | 0.0 | On Site | 284875 210683 | Unspecified Heap | 1877 |
| 203AA | 0.0 | On Site | 285123 210408 | Unspecified Heap | 1877 |
| 204AF | 0.0 | On Site | 285163 210395 | Unspecified Heap | 1877 |
| 205Y | 0.0 | On Site | 285401 210426 | Unspecified Heap | 1877 |
| 206Y | 0.0 | On Site | 285344 210426 | Unspecified Heap | 1877 |
| 207BC | 0.0 | On Site | 283791 210282 | Unspecified Heap | 1876 |
| 208AK | 0.0 | On Site | 284139 210397 | Colliery | 1901 |
| 209AK | 0.0 | On Site | 284333 210428 | Unspecified Heap | 1901 |
| 210AX | 0.0 | On Site | 284881 210673 | Unspecified Heap | 1900 |
| 211Y | 0.0 | On Site | 285214 210333 | Unspecified Heap | 1900 |
| 212X | 0.0 | On Site | 285090 210275 | Unspecified Heap | 1900 |
| 213AC | 0.0 | On Site | 284502 210419 | Brick Works | 1948 |
| 214Y | 0.0 | On Site | 285391 210419 | Unspecified Disused Level | 1962 |
| 215X | 0.0 | On Site | 285100 210240 | Unspecified Heap | 1962 |
| 216Y | 0.0 | On Site | 285410 210388 | Unspecified Ground Workings | 1962 |
| 217X | 0.0 | On Site | 285094 210276 | Unspecified Ground Workings | 1962 |
| 218AF | 0.0 | On Site | 285136 210325 | Unspecified Ground Workings | 1962 |
| 219AA | 0.0 | On Site | 285022 210482 | Unspecified Pit | 1962 |
| 220AJ | 0.0 | On Site | 285211 210426 | Unspecified Ground Workings | 1962 |
| 221AG | 0.0 | On Site | 285345 210264 | Unspecified Ground Workings | 1962 |
| 222AG | 0.0 | On Site | 285388 210245 | Unspecified Ground Workings | 1962 |
| 223AD | 0.0 | On Site | 285108 210612 | Refuse Heap | 1977 |
| 224AE | 0.0 | On Site | 285055 210356 | Refuse Heap | 1977 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 225Y | 0.0 | On Site | 285298 210334 | Refuse Heap | 1977 |
| 226BE | 0.0 | On Site | 281976 212255 | Refuse Heap | 1965 |
| 227AR | 0.0 | On Site | 282177 212057 | Refuse Heap | 1965 |
| 228C | 0.0 | On Site | 281905 211873 | Unspecified Heap | 1965 |
| 229AY | 0.0 | On Site | 282949 211962 | Unspecified Disused Drift | 1965 |
| 230AZ | 0.0 | On Site | 284757 210595 | Refuse Heap | 1965 |
| 231AE | 0.0 | On Site | 284883 210328 | Refuse Heap | 1965 |
| 232V | 0.0 | On Site | 281808 211693 | Unspecified Disused Levels | 1965 |
| 233D | 0.0 | On Site | 282083 211958 | Unspecified Disused Level | 1965 |
| 234AM | 0.0 | On Site | 282328 211908 | Unspecified Disused Levels | 1965 |
| 235AM | 0.0 | On Site | 282382 211942 | Unspecified Disused Levels | 1965 |
| 236U | 0.0 | On Site | 282422 211928 | Unspecified Disused Levels | 1965 |
| 237AM | 0.0 | On Site | 282362 211979 | Unspecified Disused Levels | 1965 |
| 238Q | 0.0 | On Site | 282229 211603 | Unspecified Heaps | 1965 |
| 239B | 0.0 | On Site | 281994 211822 | Unspecified Heap | 1965 |
| 240AN | 0.0 | On Site | 282194 211762 | Unspecified Heap | 1965 |
| 241D | 0.0 | On Site | 282109 211904 | Unspecified Heap | 1965 |
| 242D | 0.0 | On Site | 282216 211853 | Unspecified Heap | 1965 |
| 243F | 0.0 | On Site | 282349 211851 | Unspecified Heaps | 1965 |
| 244D | 0.0 | On Site | 282228 211932 | Unspecified Heaps | 1965 |
| 245BA | 0.0 | On Site | 283137 211748 | Unspecified Disused Levels | 1965 |
| 246G | 0.0 | On Site | 283211 211754 | Unspecified Disused Levels | 1965 |
| 247AU | 0.0 | On Site | 282592 211832 | Unspecified Heap | 1965 |
| 248AS | 0.0 | On Site | 282495 211976 | Unspecified Heap | 1965 |
| 249U | 0.0 | On Site | 282495 211912 | Unspecified Heaps | 1965 |
| 250U | 0.0 | On Site | 282456 211838 | Unspecified Heap | 1965 |
| 251AU | 0.0 | On Site | 282500 211800 | Unspecified Heaps | 1965 |
| 252E | 0.0 | On Site | 282445 211719 | Unspecified Heap | 1965 |
| 253A | 0.0 | On Site | 282719 211560 | Unspecified Heaps | 1965 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 254L | 0.0 | On Site | 282756 211709 | Unspecified Heaps | 1965 |
| 255BB | 0.0 | On Site | 283206 212004 | Unspecified Heap | 1965 |
| 256BB | 0.0 | On Site | 283227 211910 | Unspecified Heap | 1965 |
| 257G | 0.0 | On Site | 283120 211816 | Unspecified Heaps | 1965 |
| 258AO | 0.0 | On Site | 283368 211820 | Unspecified Heap | 1965 |
| 259AO | 0.0 | On Site | 283248 211781 | Unspecified Heap | 1965 |
| 260Q | 0.0 | On Site | 282160 211527 | Unspecified Heaps | 1965 |
| 261K | 0.0 | On Site | 282558 211527 | Unspecified Heap | 1965 |
| 262BG | 0.0 | On Site | 283390 210568 | Unspecified Disused Level | 1965 |
| 263AL | 0.0 | On Site | 283891 210408 | Unspecified Disused Level | 1965 |
| 264BC | 0.0 | On Site | 283686 210336 | Unspecified Disused Level | 1965 |
| 265BF | 0.0 | On Site | 283506 210324 | Unspecified Heaps | 1965 |
| 266AK | 0.0 | On Site | 284300 210399 | Refuse Heap | 1965 |
| 267AC | 0.0 | On Site | 284455 210388 | Refuse Heap | 1965 |
| 268BD | 0.0 | On Site | 284621 210429 | Unspecified Heap | 1965 |
| 269S | 0.0 | On Site | 282162 211892 | Unspecified Heap | 1965 |
| 270AN | 0.0 | On Site | 282222 211733 | Unspecified Ground Workings | 1965 |
| 271H | 0.0 | On Site | 282001 211668 | Unspecified Ground Workings | 1965 |
| 272H | 0.0 | On Site | 282014 211715 | Unspecified Ground Workings | 1965 |
| 273B | 0.0 | On Site | 281989 211782 | Unspecified Pit | 1965 |
| 274AN | 0.0 | On Site | 282363 211745 | Unspecified Ground Workings | 1965 |
| 275F | 0.0 | On Site | 282231 211813 | Unspecified Ground Workings | 1965 |
| 276S | 0.0 | On Site | 282124 211872 | Unspecified Pit | 1965 |
| 277S | 0.0 | On Site | 282184 211865 | Unspecified Pit | 1965 |
| 278D | 0.0 | On Site | 282233 211836 | Unspecified Ground Workings | 1965 |
| 279S | 0.0 | On Site | 282069 211854 | Unspecified Ground Workings | 1965 |
| 280E | 0.0 | On Site | 282385 211784 | Unspecified Ground Workings | 1965 |
| 281D | 0.0 | On Site | 282126 211828 | Unspecified Ground Workings | 1965 |
| 282AU | 0.0 | On Site | 282647 211855 | Unspecified Ground Workings | 1965 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 283E | 0.0 | On Site | 282505 211760 | Unspecified Pit | 1965 |
| 284I | 0.0 | On Site | 282478 211640 | Unspecified Pit | 1965 |
| 285I | 0.0 | On Site | 282474 211658 | Unspecified Ground Workings | 1965 |
| 286I | 0.0 | On Site | 282543 211650 | Unspecified Ground Workings | 1965 |
| 287L | 0.0 | On Site | 282697 211665 | Unspecified Ground Workings | 1965 |
| 288AT | 0.0 | On Site | 282650 211758 | Unspecified Ground Workings | 1965 |
| 289M | 0.0 | On Site | 282890 211659 | Unspecified Ground Workings | 1965 |
| 290AQ | 0.0 | On Site | 282892 211556 | Unspecified Ground Workings | 1965 |
| 291N | 0.0 | On Site | 282885 211495 | Unspecified Ground Workings | 1965 |
| 292M | 0.0 | On Site | 282819 211611 | Unspecified Ground Workings | 1965 |
| 293BB | 0.0 | On Site | 283215 211974 | Unspecified Pit | 1965 |
| 294BW | 0.0 | On Site | 283234 211869 | Unspecified Pit | 1965 |
| 295AO | 0.0 | On Site | 283266 211838 | Unspecified Pit | 1965 |
| 296BH | 0.0 | On Site | 283027 211766 | Unspecified Ground Workings | 1965 |
| 297O | 0.0 | On Site | 281936 211489 | Unspecified Ground Workings | 1965 |
| 298Q | 0.0 | On Site | 282288 211527 | Unspecified Ground Workings | 1965 |
| 299BI | 0.0 | On Site | 283372 210658 | Unspecified Ground Workings | 1965 |
| 300BY | 0.0 | On Site | 284967 210440 | Unspecified Ground Workings | 1965 |
| 301BJ | 0.0 | On Site | 284952 210223 | Unspecified Ground Workings | 1965 |
| 302BD | 0.0 | On Site | 284752 210354 | Unspecified Ground Workings | 1965 |
| 303BM | 0.0 | On Site | 283616 211017 | Unspecified Ground Workings | 1965 |
| 304BE | 0.0 | On Site | 281976 212255 | Unspecified Disused Tip | 1987 |
| 305AY | 0.0 | On Site | 282949 211962 | Unspecified Disused Drift | 1987 |
| 306M | 0.0 | On Site | 282765 211662 | Refuse Heap | 1987 |
| 307BA | 0.0 | On Site | 283263 211727 | Unspecified Disused Drift | 1987 |
| 308BA | 0.0 | On Site | 283214 211752 | Unspecified Disused Levels | 1987 |
| 309BA | 0.0 | On Site | 283161 211737 | Unspecified Disused Levels | 1987 |
| 310 | 0.0 | On Site | 283892 211489 | Unspecified Disused Workings | 1987 |
| 311AL | 0.0 | On Site | 283891 210408 | Unspecified Disused Level | 1987 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 312BF | 0.0 | On Site | 283506 210324 | Unspecified Heaps | 1987 |
| 313BZ | 0.0 | On Site | 284751 210569 | Opencast Workings | 1987 |
| 314BG | 0.0 | On Site | 283390 210568 | Unspecified Disused Level | 1987 |
| 315EC | 0.0 | On Site | 283683 210434 | Unspecified Disused Level | 1987 |
| 316BB | 0.0 | On Site | 283215 211974 | Unspecified Pit | 1987 |
| 317BH | 0.0 | On Site | 283030 211769 | Unspecified Ground Workings | 1987 |
| 318BI | 0.0 | On Site | 283372 210658 | Unspecified Ground Workings | 1987 |
| 319BJ | 0.0 | On Site | 284952 210223 | Unspecified Ground Workings | 1987 |
| 320AK | 0.0 | On Site | 284297 210396 | Refuse Heap | 1987 |
| 321AE | 0.0 | On Site | 284882 210336 | Refuse Heap | 1987 |
| 322BK | 0.0 | On Site | 284657 210333 | Unspecified Ground Workings | 1876 |
| 323AX | 0.0 | On Site | 284884 210679 | Unspecified Heap | 1876 |
| 324AJ | 0.0 | On Site | 285158 210433 | Unspecified Ground Workings | 1876 |
| 325Y | 0.0 | On Site | 285386 210407 | Unspecified Ground Workings | 1876 |
| 326AW | 0.0 | On Site | 284879 210532 | Unspecified Ground Workings | 1876 |
| 327Z | 0.0 | On Site | 284780 210391 | Unspecified Ground Workings | 1876 |
| 328BL | 0.0 | On Site | 283369 210691 | Unspecified Heap | 1948 |
| 329BI | 0.0 | On Site | 283391 210653 | Unspecified Heap | 1948 |
| 330BN | 0.0 | On Site | 283513 210493 | Unspecified Heap | 1948 |
| 331BX | 0.0 | On Site | 284270 210478 | Colliery | 1948 |
| 332BF | 0.0 | On Site | 283592 210326 | Refuse Heap | 1948 |
| 333AL | 0.0 | On Site | 283836 210441 | Unspecified Heap | 1948 |
| 334AL | 0.0 | On Site | 283883 210399 | Unspecified Slant | 1948 |
| 335AL | 0.0 | On Site | 283927 210433 | Refuse Heap | 1948 |
| 336AL | 0.0 | On Site | 283869 210401 | Refuse Heap | 1948 |
| 337BL | 0.0 | On Site | 283378 210737 | Old Coal Level | 1948 |
| 338BG | 0.0 | On Site | 283343 210584 | Unspecified Pit | 1948 |
| 339AI | 0.0 | On Site | 284270 210412 | Unspecified Ground Workings | 1948 |
| 340AL | 0.0 | On Site | 283757 210351 | Unspecified Ground Workings | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 341BO | 0.0 | On Site | 283889 210844 | Unspecified Ground Workings | 1948 |
| 342BM | 0.0 | On Site | 283636 211006 | Unspecified Ground Workings | 1948 |
| 343BL | 0.0 | On Site | 283425 210758 | Coal Level | 1903 |
| 344 | 0.0 | On Site | 282860 211029 | Refuse Heap | 1903 |
| 345AL | 0.0 | On Site | 283739 210367 | Unspecified Heap | 1903 |
| 346AI | 0.0 | On Site | 284323 210418 | Unspecified Heap | 1903 |
| 347BM | 0.0 | On Site | 283631 211010 | Unspecified Pit | 1903 |
| 348BT | 0.0 | On Site | 283271 210143 | Old Coal Level | 1903 |
| 349CD | 0.0 | On Site | 282966 210721 | Refuse Heap | 1903 |
| 350BC | 0.0 | On Site | 283792 210280 | Unspecified Heap | 1877 |
| 351AL | 0.0 | On Site | 283909 210361 | Unspecified Heap | 1877 |
| 352BM | 0.0 | On Site | 283644 210991 | Unspecified Heap | 1877 |
| 353BN | 0.0 | On Site | 283517 210491 | Unspecified Heap | 1877 |
| 354AL | 0.0 | On Site | 283834 210407 | Old Coal Pit | 1877 |
| 355AK | 0.0 | On Site | 284264 210405 | Unspecified Ground Workings | 1877 |
| 356BL | 0.0 | On Site | 283425 210758 | Old Coal Level | 1877 |
| 357BO | 0.0 | On Site | 283900 210826 | Unspecified Ground Workings | 1877 |
| 358CL | 0.0 | On Site | 283604 210195 | Unspecified Ground Workings | 1877 |
| 359BM | 0.0 | On Site | 283628 211012 | Unspecified Pit | 1877 |
| 360BM | 0.0 | On Site | 283651 211006 | Unspecified Ground Workings | 1877 |
| 361BP | 0.0 | On Site | 281855 211393 | Unspecified Pit | 1877 |
| 362AS | 0.0 | On Site | 282552 211933 | Unspecified Drift | 1948 |
| 363W | 0.0 | On Site | 282961 211903 | Unspecified Drift | 1948 |
| 364AS | 0.0 | On Site | 282462 212011 | Unspecified Drift | 1948 |
| 365D | 0.0 | On Site | 282153 211963 | Reservoir | 1903 |
| 366AS | 0.0 | On Site | 282556 211936 | Unspecified Drift | 1903 |
| 367AS | 0.0 | On Site | 282560 211990 | Unspecified Drift | 1903 |
| 368B | 0.0 | On Site | 281977 211811 | Unspecified Old Quarry | 1877 |
| 369 | 0.0 | On Site | 283089 212034 | Cuttings | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 370BB | 0.0 | On Site | 283210 211941 | Unspecified Old Quarry | 1877 |
| 371H | 0.0 | On Site | 282000 211690 | Unspecified Old Quarry | 1877 |
| 372P | 0.0 | On Site | 282164 211508 | Unspecified Old Quarry | 1877 |
| 373K | 0.0 | On Site | 282522 211518 | Unspecified Old Quarry | 1877 |
| 374A | 0.0 | On Site | 282719 211557 | Unspecified Old Quarry | 1877 |
| 375A Q | 0.0 | On Site | 282866 211603 | Unspecified Old Quarry | 1877 |
| 376CI | 0.0 | On Site | 281845 211965 | Cuttings | 1877 |
| 377AK | 0.0 | On Site | 284204 210382 | Cuttings | 1876 |
| 378B Q | 0.0 | On Site | 284174 210498 | Pond | 1876 |
| 379O | 0.0 | On Site | 281913 211410 | Pond | 1901 |
| 380BP | 0.0 | On Site | 281938 211367 | Pond | 1901 |
| 381CE | 0.0 | On Site | 283092 211257 | Pond | 1901 |
| 382BS | 0.0 | On Site | 282877 210477 | Cuttings | 1901 |
| 383BR | 0.0 | On Site | 283152 210535 | Cuttings | 1901 |
| 384B Q | 0.0 | On Site | 284175 210503 | Pond | 1901 |
| 385B Q | 0.0 | On Site | 284075 210436 | Pond | 1901 |
| 386BJ | 0.0 | On Site | 284997 210223 | Pond | 1900 |
| 387E | 0.0 | On Site | 282450 211687 | Unspecified Old Quarries | 1877 |
| 388AJ | 0.0 | On Site | 285250 210421 | Unspecified Old Quarries | 1903 |
| 389AJ | 0.0 | On Site | 285263 210493 | Unspecified Old Quarries | 1900 |
| 390AJ | 0.0 | On Site | 285246 210429 | Unspecified Old Quarries | 1900 |
| 391BK | 0.0 | On Site | 284644 210266 | Unspecified Old Quarries | 1900 |
| 392A A | 0.0 | On Site | 285108 210474 | Unspecified Old Quarries | 1900 |
| 393BR | 0.0 | On Site | 283131 210527 | Cuttings | 1965 |
| 394BS | 0.0 | On Site | 282876 210472 | Cuttings | 1965 |
| 395BP | 0.0 | On Site | 281927 211372 | Pond | 1965 |
| 396O | 0.0 | On Site | 282006 211485 | Pond | 1965 |
| 397P | 0.0 | On Site | 282162 211485 | Ponds | 1965 |
| 398J | 0.0 | On Site | 282336 211496 | Pond | 1965 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 399K | 0.0 | On Site | 282563 211500 | Pond | 1965 |
| 400K | 0.0 | On Site | 282473 211507 | Pond | 1965 |
| 401AV | 0.0 | On Site | 282401 212053 | Pond | 1987 |
| 402EY | 0.0 | On Site | 282787 211724 | Pond | 1987 |
| 403BP | 0.0 | On Site | 281929 211383 | Ponds | 1987 |
| 404O | 0.0 | On Site | 282016 211506 | Pond | 1987 |
| 405O | 0.0 | On Site | 281966 211460 | Pond | 1987 |
| 406K | 0.0 | On Site | 282470 211515 | Pond | 1987 |
| 407 | 0.0 | On Site | 283404 211478 | Pond | 1987 |
| 408BQ | 0.0 | On Site | 284225 210560 | Ponds | 1987 |
| 409BR | 0.0 | On Site | 283131 210527 | Cuttings | 1987 |
| 410BS | 0.0 | On Site | 282876 210472 | Cuttings | 1987 |
| 411BR | 0.0 | On Site | 283142 210535 | Cuttings | 1948 |
| 412BP | 0.0 | On Site | 281933 211379 | Ponds | 1948 |
| 413BS | 0.0 | On Site | 282878 210477 | Cuttings | 1948 |
| 414BR | 0.0 | On Site | 283150 210535 | Cuttings | 1903 |
| 415BS | 0.0 | On Site | 282878 210477 | Cuttings | 1903 |
| 416BP | 0.0 | On Site | 281933 211379 | Ponds | 1903 |
| 417BQ | 0.0 | On Site | 284173 210508 | Pond | 1903 |
| 418EZ | 0.0 | On Site | 282875 211179 | Unspecified Old Quarries | 1877 |
| 419BQ | 0.0 | On Site | 284173 210508 | Pond | 1877 |
| 420FA | 0.0 | On Site | 281671 210910 | Unspecified Old Quarry | 1877 |
| 421BP | 0.0 | On Site | 281933 211379 | Ponds | 1877 |
| 422FB | 0.0 | On Site | 284309 210708 | Cuttings | 1877 |
| 423BS | 0.0 | On Site | 282950 210492 | Cuttings | 1877 |
| 424CP | 0.0 | On Site | 284028 210598 | Cuttings | 1877 |
| 425BT | 0.0 | On Site | 283184 210109 | Cuttings | 1877 |
| 426AR | 0.0 | On Site | 282085 212014 | Colliery | 1921 |
| 427AR | 0.0 | On Site | 282117 212023 | Unspecified Old Level | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 428U | 0.0 | On Site | 282579 211834 | Unspecified Old Level | 1921 |
| 429A M | 0.0 | On Site | 282383 211935 | Unspecified Old Levels | 1921 |
| 430A M | 0.0 | On Site | 282266 211905 | Unspecified Old Levels | 1921 |
| 431A M | 0.0 | On Site | 282329 211893 | Unspecified Old Levels | 1921 |
| 432T | 0.0 | On Site | 282224 211925 | Unspecified Old Levels | 1921 |
| 433A M | 0.0 | On Site | 282423 211926 | Unspecified Old Levels | 1921 |
| 434AS | 0.0 | On Site | 282519 211968 | Colliery | 1921 |
| 435R | 0.0 | On Site | 281642 211833 | Unspecified Ground Workings | 1921 |
| 436CA | 0.0 | On Site | 282097 212159 | Unspecified Heap | 1921 |
| 437A V | 0.0 | On Site | 282300 212068 | Unspecified Heap | 1921 |
| 438S | 0.0 | On Site | 282074 211882 | Unspecified Heap | 1921 |
| 439B | 0.0 | On Site | 282068 211847 | Unspecified Ground Workings | 1921 |
| 440BV | 0.0 | On Site | 282144 211824 | Unspecified Heaps | 1921 |
| 441F | 0.0 | On Site | 282318 211795 | Unspecified Pit | 1921 |
| 442A U | 0.0 | On Site | 282489 211898 | Unspecified Ground Workings | 1921 |
| 443A M | 0.0 | On Site | 282363 211972 | Unspecified Heap | 1921 |
| 444U | 0.0 | On Site | 282494 211970 | Unspecified Heap | 1921 |
| 445AS | 0.0 | On Site | 282535 211998 | Refuse Heap | 1921 |
| 446A U | 0.0 | On Site | 282593 211827 | Unspecified Heap | 1921 |
| 447AT | 0.0 | On Site | 282791 211808 | Unspecified Ground Workings | 1921 |
| 448B U | 0.0 | On Site | 282631 211973 | Unspecified Heap | 1921 |
| 449A U | 0.0 | On Site | 282642 211889 | Refuse Heap | 1921 |
| 450BA | 0.0 | On Site | 283181 211718 | Old Coal Levels | 1921 |
| 451BA | 0.0 | On Site | 283152 211736 | Old Coal Levels | 1921 |
| 452BA | 0.0 | On Site | 283209 211751 | Old Coal Levels | 1921 |
| 453B H | 0.0 | On Site | 283122 211751 | Old Coal Levels | 1921 |
| 454B H | 0.0 | On Site | 283121 211809 | Old Coal Levels | 1921 |
| 455O | 0.0 | On Site | 281972 211483 | Unspecified Heap | 1921 |
| 456BP | 0.0 | On Site | 281844 211449 | Unspecified Heap | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 457AP | 0.0 | On Site | 281705 211788 | Unspecified Pit | 1921 |
| 458AP | 0.0 | On Site | 281704 211732 | Old Coal Levels | 1921 |
| 459AN | 0.0 | On Site | 282124 211709 | Unspecified Ground Workings | 1921 |
| 460K | 0.0 | On Site | 282557 211514 | Unspecified Ground Workings | 1921 |
| 461A | 0.0 | On Site | 282717 211553 | Unspecified Ground Workings | 1921 |
| 462S | 0.0 | On Site | 282144 211888 | Unspecified Ground Workings | 1921 |
| 463BV | 0.0 | On Site | 282117 211790 | Unspecified Ground Workings | 1921 |
| 464F | 0.0 | On Site | 282257 211823 | Unspecified Ground Workings | 1921 |
| 465AV | 0.0 | On Site | 282476 212060 | Unspecified Heap | 1921 |
| 466AY | 0.0 | On Site | 282937 211957 | Refuse Heap | 1921 |
| 467BA | 0.0 | On Site | 283342 211777 | Colliery | 1921 |
| 468BA | 0.0 | On Site | 283232 211771 | Refuse Heap | 1921 |
| 469BW | 0.0 | On Site | 283213 211938 | Unspecified Ground Workings | 1921 |
| 470V | 0.0 | On Site | 281853 211691 | Old Coal Levels | 1921 |
| 471Q | 0.0 | On Site | 282232 211600 | Unspecified Ground Workings | 1921 |
| 472P | 0.0 | On Site | 282175 211509 | Unspecified Ground Workings | 1921 |
| 473E | 0.0 | On Site | 282491 211696 | Unspecified Ground Workings | 1921 |
| 474A | 0.0 | On Site | 282824 211610 | Unspecified Ground Workings | 1921 |
| 475B | 0.0 | On Site | 282014 211795 | Unspecified Ground Workings | 1921 |
| 476B | 0.0 | On Site | 281889 211852 | Unspecified Ground Workings | 1921 |
| 477S | 0.0 | On Site | 282078 211936 | Unspecified Old Level | 1921 |
| 478BL | 0.0 | On Site | 283379 210738 | Old Coal Level | 1921 |
| 479BI | 0.0 | On Site | 283391 210653 | Unspecified Heap | 1921 |
| 480BG | 0.0 | On Site | 283344 210586 | Unspecified Pit | 1921 |
| 481BM | 0.0 | On Site | 283636 211006 | Unspecified Ground Workings | 1921 |
| 482BN | 0.0 | On Site | 283513 210492 | Unspecified Heap | 1921 |
| 483BF | 0.0 | On Site | 283632 210336 | Colliery | 1921 |
| 484BF | 0.0 | On Site | 283546 210310 | Refuse Heap | 1921 |
| 485BX | 0.0 | On Site | 284122 210432 | Colliery | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 486AL | 0.0 | On Site | 283883 210398 | Unspecified Slant | 1921 |
| 487AL | 0.0 | On Site | 283862 210401 | Refuse Heap | 1921 |
| 488AL | 0.0 | On Site | 283836 210441 | Unspecified Heap | 1921 |
| 489AI | 0.0 | On Site | 284271 210410 | Unspecified Ground Workings | 1921 |
| 490BO | 0.0 | On Site | 283923 210803 | Unspecified Pits | 1921 |
| 491BI | 0.0 | On Site | 283370 210691 | Unspecified Heap | 1921 |
| 492AX | 0.0 | On Site | 284883 210674 | Unspecified Heaps | 1921 |
| 493AA | 0.0 | On Site | 285145 210538 | Old Coal Level | 1921 |
| 494AA | 0.0 | On Site | 285109 210480 | Unspecified Pit | 1921 |
| 495AD | 0.0 | On Site | 285132 210592 | Unspecified Ground Workings | 1921 |
| 496AJ | 0.0 | On Site | 285265 210419 | Unspecified Ground Workings | 1921 |
| 497X | 0.0 | On Site | 285089 210262 | Unspecified Ground Workings | 1921 |
| 498BK | 0.0 | On Site | 284576 210337 | Unspecified Ground Workings | 1921 |
| 499Z | 0.0 | On Site | 284774 210395 | Unspecified Pit | 1921 |
| 500BY | 0.0 | On Site | 284883 210394 | Unspecified Ground Workings | 1921 |
| 501AF | 0.0 | On Site | 285033 210385 | Unspecified Ground Workings | 1921 |
| 502AG | 0.0 | On Site | 285370 210231 | Old Coal Pit | 1921 |
| 503Y | 0.0 | On Site | 285345 210314 | Old Coal Level | 1921 |
| 504AG | 0.0 | On Site | 285335 210269 | Unspecified Ground Workings | 1921 |
| 505Y | 0.0 | On Site | 285404 210409 | Unspecified Ground Workings | 1921 |
| 506BZ | 0.0 | On Site | 284812 210532 | Unspecified Ground Workings | 1921 |
| 507AR | 0.0 | On Site | 282085 212014 | Colliery | 1921 |
| 508AR | 0.0 | On Site | 282117 212023 | Unspecified Old Level | 1921 |
| 509AU | 0.0 | On Site | 282579 211834 | Unspecified Old Level | 1921 |
| 510AS | 0.0 | On Site | 282537 211986 | Unspecified Drift | 1921 |
| 511U | 0.0 | On Site | 282526 211924 | Unspecified Drift | 1921 |
| 512AM | 0.0 | On Site | 282383 211935 | Unspecified Old Levels | 1921 |
| 513T | 0.0 | On Site | 282266 211905 | Unspecified Old Levels | 1921 |
| 514AM | 0.0 | On Site | 282329 211893 | Unspecified Old Levels | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 515T | 0.0 | On Site | 282224 211925 | Unspecified Old Levels | 1921 |
| 516U | 0.0 | On Site | 282423 211926 | Unspecified Old Levels | 1921 |
| 517AS | 0.0 | On Site | 282519 211968 | Colliery | 1921 |
| 518W | 0.0 | On Site | 282962 211900 | Unspecified Drift | 1921 |
| 519AV | 0.0 | On Site | 282457 212013 | Unspecified Drift | 1921 |
| 520R | 0.0 | On Site | 281642 211833 | Unspecified Ground Workings | 1921 |
| 521CA | 0.0 | On Site | 282097 212159 | Unspecified Heap | 1921 |
| 522AV | 0.0 | On Site | 282300 212068 | Unspecified Heap | 1921 |
| 523S | 0.0 | On Site | 282074 211882 | Unspecified Heap | 1921 |
| 524B | 0.0 | On Site | 282068 211847 | Unspecified Ground Workings | 1921 |
| 525BV | 0.0 | On Site | 282144 211824 | Unspecified Heaps | 1921 |
| 526F | 0.0 | On Site | 282318 211795 | Unspecified Pit | 1921 |
| 527AU | 0.0 | On Site | 282489 211898 | Unspecified Ground Workings | 1921 |
| 528AM | 0.0 | On Site | 282363 211972 | Unspecified Heap | 1921 |
| 529U | 0.0 | On Site | 282494 211970 | Unspecified Heap | 1921 |
| 530AS | 0.0 | On Site | 282535 211998 | Refuse Heap | 1921 |
| 531AU | 0.0 | On Site | 282593 211827 | Unspecified Heap | 1921 |
| 532AT | 0.0 | On Site | 282791 211808 | Unspecified Ground Workings | 1921 |
| 533AS | 0.0 | On Site | 282631 211973 | Unspecified Heap | 1921 |
| 534AU | 0.0 | On Site | 282642 211889 | Refuse Heap | 1921 |
| 535BA | 0.0 | On Site | 283181 211718 | Old Coal Levels | 1921 |
| 536BA | 0.0 | On Site | 283152 211736 | Old Coal Levels | 1921 |
| 537BA | 0.0 | On Site | 283209 211751 | Old Coal Levels | 1921 |
| 538BH | 0.0 | On Site | 283122 211751 | Old Coal Levels | 1921 |
| 539BH | 0.0 | On Site | 283121 211809 | Old Coal Levels | 1921 |
| 540O | 0.0 | On Site | 281972 211483 | Unspecified Heap | 1921 |
| 541BP | 0.0 | On Site | 281844 211449 | Unspecified Heap | 1921 |
| 542AP | 0.0 | On Site | 281705 211788 | Unspecified Pit | 1921 |
| 543AP | 0.0 | On Site | 281704 211732 | Old Coal Levels | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 544AN | 0.0 | On Site | 282124 211709 | Unspecified Ground Workings | 1921 |
| 545K | 0.0 | On Site | 282557 211514 | Unspecified Ground Workings | 1921 |
| 546A | 0.0 | On Site | 282717 211553 | Unspecified Ground Workings | 1921 |
| 547S | 0.0 | On Site | 282144 211888 | Unspecified Ground Workings | 1921 |
| 548BV | 0.0 | On Site | 282117 211790 | Unspecified Ground Workings | 1921 |
| 549F | 0.0 | On Site | 282257 211823 | Unspecified Ground Workings | 1921 |
| 550AV | 0.0 | On Site | 282476 212060 | Unspecified Heap | 1921 |
| 551AY | 0.0 | On Site | 282937 211957 | Refuse Heap | 1921 |
| 552BA | 0.0 | On Site | 283342 211777 | Colliery | 1921 |
| 553BA | 0.0 | On Site | 283232 211771 | Refuse Heap | 1921 |
| 554BW | 0.0 | On Site | 283213 211938 | Unspecified Ground Workings | 1921 |
| 555V | 0.0 | On Site | 281853 211691 | Old Coal Levels | 1921 |
| 556J | 0.0 | On Site | 282339 211498 | Pond | 1921 |
| 557Q | 0.0 | On Site | 282232 211600 | Unspecified Ground Workings | 1921 |
| 558P | 0.0 | On Site | 282175 211509 | Unspecified Ground Workings | 1921 |
| 559E | 0.0 | On Site | 282491 211696 | Unspecified Ground Workings | 1921 |
| 560A | 0.0 | On Site | 282824 211610 | Unspecified Ground Workings | 1921 |
| 561B | 0.0 | On Site | 282014 211795 | Unspecified Ground Workings | 1921 |
| 562B | 0.0 | On Site | 281889 211852 | Unspecified Ground Workings | 1921 |
| 563S | 0.0 | On Site | 282078 211936 | Unspecified Old Level | 1921 |
| 564BP | 0.0 | On Site | 281931 211381 | Ponds | 1921 |
| 565BL | 0.0 | On Site | 283379 210738 | Old Coal Level | 1921 |
| 566BI | 0.0 | On Site | 283391 210653 | Unspecified Heap | 1921 |
| 567BG | 0.0 | On Site | 283344 210586 | Unspecified Pit | 1921 |
| 568BM | 0.0 | On Site | 283636 211006 | Unspecified Ground Workings | 1921 |
| 569BS | 0.0 | On Site | 282882 210477 | Cuttings | 1921 |
| 570BR | 0.0 | On Site | 283141 210536 | Cuttings | 1921 |
| 571BN | 0.0 | On Site | 283513 210492 | Unspecified Heap | 1921 |
| 572BF | 0.0 | On Site | 283632 210336 | Colliery | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 573BF | 0.0 | On Site | 283546 210310 | Refuse Heap | 1921 |
| 574BX | 0.0 | On Site | 284122 210432 | Colliery | 1921 |
| 575AL | 0.0 | On Site | 283883 210398 | Unspecified Slant | 1921 |
| 576AL | 0.0 | On Site | 283862 210401 | Refuse Heap | 1921 |
| 577AL | 0.0 | On Site | 283836 210441 | Unspecified Heap | 1921 |
| 578AI | 0.0 | On Site | 284271 210410 | Unspecified Ground Workings | 1921 |
| 579BO | 0.0 | On Site | 283923 210803 | Unspecified Pits | 1921 |
| 580BI | 0.0 | On Site | 283370 210691 | Unspecified Heap | 1921 |
| 581AX | 0.0 | On Site | 284883 210674 | Unspecified Heaps | 1921 |
| 582AA | 0.0 | On Site | 285145 210538 | Old Coal Level | 1921 |
| 583AA | 0.0 | On Site | 285089 210504 | Cuttings | 1921 |
| 584AA | 0.0 | On Site | 285109 210480 | Unspecified Pit | 1921 |
| 585AD | 0.0 | On Site | 285132 210592 | Unspecified Ground Workings | 1921 |
| 586AJ | 0.0 | On Site | 285265 210419 | Unspecified Ground Workings | 1921 |
| 587AC | 0.0 | On Site | 284480 210370 | Cuttings | 1921 |
| 588X | 0.0 | On Site | 285089 210262 | Unspecified Ground Workings | 1921 |
| 589BK | 0.0 | On Site | 284576 210337 | Unspecified Ground Workings | 1921 |
| 590Z | 0.0 | On Site | 284774 210395 | Unspecified Pit | 1921 |
| 591BY | 0.0 | On Site | 284883 210394 | Unspecified Ground Workings | 1921 |
| 592AF | 0.0 | On Site | 285033 210385 | Unspecified Ground Workings | 1921 |
| 593AG | 0.0 | On Site | 285370 210231 | Old Coal Pit | 1921 |
| 594Y | 0.0 | On Site | 285345 210314 | Old Coal Level | 1921 |
| 595AG | 0.0 | On Site | 285335 210269 | Unspecified Ground Workings | 1921 |
| 596Y | 0.0 | On Site | 285404 210409 | Unspecified Ground Workings | 1921 |
| 597BZ | 0.0 | On Site | 284812 210532 | Unspecified Ground Workings | 1921 |
| 598CB | 0.0 | On Site | 283859 210506 | Disused Colliery | 1948 |
| 599BX | 0.0 | On Site | 284281 210351 | Colliery | 1903 |
| 600CB | 0.0 | On Site | 283859 210506 | Colliery | 1903 |
| 601F | 0.0 | On Site | 282351 211852 | Unspecified Ground Workings | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 602S | 0.0 | On Site | 282126 211860 | Unspecified Pit | 1948 |
| 603T | 0.0 | On Site | 282227 211879 | Unspecified Old Levels | 1948 |
| 604T | 0.0 | On Site | 282272 211884 | Unspecified Old Levels | 1948 |
| 605BB | 0.0 | On Site | 283210 211941 | Unspecified Heaps | 1948 |
| 606V | 0.0 | On Site | 281855 211694 | Old Coal Levels | 1948 |
| 607CC | 0.0 | On Site | 283442 212018 | Colliery | 1948 |
| 608S | 0.0 | On Site | 282083 211941 | Unspecified Old Level | 1903 |
| 609AN | 0.0 | On Site | 282148 211665 | Unspecified Level | 1903 |
| 610C | 0.0 | On Site | 281894 211892 | Unspecified Heaps | 1877 |
| 611BV | 0.0 | On Site | 282125 211821 | Unspecified Heaps | 1877 |
| 612AM | 0.0 | On Site | 282385 211983 | Unspecified Old Drift | 1877 |
| 613Q | 0.0 | On Site | 282206 211610 | Coal Level | 1877 |
| 614AS | 0.0 | On Site | 282502 212012 | Coal Drift | 1877 |
| 615BX | 0.0 | On Site | 284192 210389 | Unspecified Drift | 1948 |
| 616E | 0.0 | On Site | 282402 211814 | Unspecified Old Quarry | 1877 |
| 617J | 0.0 | On Site | 282269 211561 | Unspecified Old Quarry | 1877 |
| 618CC | 0.0 | On Site | 283479 211984 | Unspecified Drift | 1948 |
| 619BP | 0.0 | On Site | 281930 211360 | Pond | 1921 |
| 620BS | 0.0 | On Site | 282886 210468 | Cuttings | 1921 |
| 621BR | 0.0 | On Site | 283146 210527 | Cuttings | 1921 |
| 622BX | 0.0 | On Site | 283992 210382 | Colliery | 1921 |
| 623BC | 0.0 | On Site | 283731 210353 | Colliery | 1921 |
| 624BN | 0.0 | On Site | 283514 210485 | Unspecified Heap | 1921 |
| 625BL | 0.0 | On Site | 283379 210733 | Old Coal Level | 1921 |
| 626BF | 0.0 | On Site | 283541 210292 | Refuse Heap | 1921 |
| 627BQ | 0.0 | On Site | 284269 210457 | Unspecified Ground Workings | 1921 |
| 628AK | 0.0 | On Site | 284322 210383 | Unspecified Ground Workings | 1921 |
| 629BM | 0.0 | On Site | 283629 211006 | Unspecified Ground Workings | 1921 |
| 630BO | 0.0 | On Site | 283908 210815 | Unspecified Ground Workings | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 631BI | 0.0 | On Site | 283392 210646 | Unspecified Heap | 1921 |
| 632BI | 0.0 | On Site | 283371 210685 | Unspecified Heap | 1921 |
| 633AX | 0.0 | On Site | 284883 210679 | Unspecified Heap | 1921 |
| 634AD | 0.0 | On Site | 285198 210596 | Unspecified Ground Workings | 1921 |
| 635AI | 0.0 | On Site | 284402 210511 | Unspecified Ground Workings | 1921 |
| 636BY | 0.0 | On Site | 284853 210405 | Unspecified Ground Workings | 1921 |
| 637X | 0.0 | On Site | 285091 210271 | Unspecified Ground Workings | 1921 |
| 638AF | 0.0 | On Site | 285036 210393 | Unspecified Ground Workings | 1921 |
| 639AA | 0.0 | On Site | 285109 210486 | Unspecified Pit | 1921 |
| 640AG | 0.0 | On Site | 285343 210284 | Unspecified Ground Workings | 1921 |
| 641AG | 0.0 | On Site | 285404 210293 | Old Coal Level | 1921 |
| 642Y | 0.0 | On Site | 285405 210414 | Unspecified Ground Workings | 1921 |
| 643AC | 0.0 | On Site | 284683 210334 | Unspecified Heap | 1921 |
| 644AI | 0.0 | On Site | 284386 210429 | Unspecified Ground Workings | 1921 |
| 645Z | 0.0 | On Site | 284751 210353 | Unspecified Ground Workings | 1921 |
| 646AC | 0.0 | On Site | 284578 210370 | Unspecified Ground Workings | 1921 |
| 647AC | 0.0 | On Site | 284549 210396 | Cuttings | 1921 |
| 648Z | 0.0 | On Site | 284777 210405 | Unspecified Pit | 1921 |
| 649BZ | 0.0 | On Site | 284818 210540 | Unspecified Ground Workings | 1921 |
| 650AB | 0.0 | On Site | 285145 210542 | Unspecified Pit | 1921 |
| 651Y | 0.0 | On Site | 285266 210426 | Unspecified Ground Workings | 1921 |
| 652BK | 0.0 | On Site | 284490 210230 | Unspecified Ground Workings | 1921 |
| 653C | 0.0 | On Site | 281908 211861 | Unspecified Ground Workings | 1921 |
| 654AV | 0.0 | On Site | 282294 212072 | Unspecified Heap | 1921 |
| 655AS | 0.0 | On Site | 282459 212013 | Unspecified Drift | 1921 |
| 656U | 0.0 | On Site | 282531 211883 | Unspecified Old Level | 1921 |
| 657U | 0.0 | On Site | 282552 211938 | Unspecified Drift | 1921 |
| 658BU | 0.0 | On Site | 282635 211900 | Refuse Heap | 1921 |
| 659U | 0.0 | On Site | 282591 211833 | Unspecified Heap | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 660AS | 0.0 | On Site | 282603 211983 | Unspecified Ground Workings | 1921 |
| 661W | 0.0 | On Site | 282960 211904 | Unspecified Drift | 1921 |
| 662AY | 0.0 | On Site | 282936 211964 | Refuse Heap | 1921 |
| 663G | 0.0 | On Site | 283166 211720 | Old Coal Levels | 1921 |
| 664BH | 0.0 | On Site | 283120 211758 | Old Coal Levels | 1921 |
| 665G | 0.0 | On Site | 283150 211743 | Unspecified Heap | 1921 |
| 666G | 0.0 | On Site | 283209 211758 | Unspecified Ground Workings | 1921 |
| 667BB | 0.0 | On Site | 283217 211942 | Unspecified Ground Workings | 1921 |
| 668BH | 0.0 | On Site | 283141 211806 | Unspecified Ground Workings | 1921 |
| 669AO | 0.0 | On Site | 283288 211753 | Colliery | 1921 |
| 670AR | 0.0 | On Site | 282194 212051 | Colliery | 1921 |
| 671AM | 0.0 | On Site | 282385 211935 | Unspecified Old Levels | 1921 |
| 672AM | 0.0 | On Site | 282349 211978 | Unspecified Ground Workings | 1921 |
| 673AM | 0.0 | On Site | 282507 211936 | Unspecified Ground Workings | 1921 |
| 674AS | 0.0 | On Site | 282508 212002 | Refuse Heap | 1921 |
| 675AM | 0.0 | On Site | 282376 211941 | Unspecified Ground Workings | 1921 |
| 676AM | 0.0 | On Site | 282326 211901 | Unspecified Old Levels | 1921 |
| 677U | 0.0 | On Site | 282559 211969 | Colliery | 1921 |
| 678AS | 0.0 | On Site | 282471 212064 | Unspecified Heap | 1921 |
| 679S | 0.0 | On Site | 282110 211908 | Unspecified Old Level | 1921 |
| 680S | 0.0 | On Site | 282168 211896 | Unspecified Ground Workings | 1921 |
| 681D | 0.0 | On Site | 282124 211827 | Unspecified Ground Workings | 1921 |
| 682F | 0.0 | On Site | 282228 211841 | Unspecified Ground Workings | 1921 |
| 683E | 0.0 | On Site | 282456 211821 | Unspecified Heaps | 1921 |
| 684T | 0.0 | On Site | 282262 211909 | Unspecified Ground Workings | 1921 |
| 685AQ | 0.0 | On Site | 282863 211614 | Unspecified Ground Workings | 1921 |
| 686A | 0.0 | On Site | 282714 211562 | Unspecified Ground Workings | 1921 |
| 687K | 0.0 | On Site | 282552 211521 | Unspecified Ground Workings | 1921 |
| 688V | 0.0 | On Site | 281844 211667 | Old Coal Levels | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 689V | 0.0 | On Site | 281870 211688 | Old Coal Levels | 1921 |
| 690B | 0.0 | On Site | 282010 211801 | Unspecified Ground Workings | 1921 |
| 691V | 0.0 | On Site | 281803 211703 | Unspecified Ground Workings | 1921 |
| 692AP | 0.0 | On Site | 281700 211735 | Unspecified Heap | 1921 |
| 693O | 0.0 | On Site | 281967 211490 | Unspecified Heap | 1921 |
| 694P | 0.0 | On Site | 282171 211515 | Unspecified Ground Workings | 1921 |
| 695J | 0.0 | On Site | 282270 211572 | Unspecified Ground Workings | 1921 |
| 696E | 0.0 | On Site | 282516 211689 | Unspecified Ground Workings | 1921 |
| 697F | 0.0 | On Site | 282314 211800 | Unspecified Pit | 1921 |
| 698I | 0.0 | On Site | 282475 211644 | Unspecified Pit | 1921 |
| 699S | 0.0 | On Site | 282069 211889 | Unspecified Heap | 1921 |
| 700G | 0.0 | On Site | 283181 211728 | Unspecified Heap | 1921 |
| 701BL | 0.0 | On Site | 283383 210731 | Old Coal Level | 1921 |
| 702BS | 0.0 | On Site | 282886 210471 | Cuttings | 1921 |
| 703BR | 0.0 | On Site | 283146 210529 | Cuttings | 1921 |
| 704CB | 0.0 | On Site | 283844 210432 | Unspecified Heap | 1921 |
| 705BN | 0.0 | On Site | 283517 210483 | Unspecified Heap | 1921 |
| 706BF | 0.0 | On Site | 283476 210302 | Refuse Heap | 1921 |
| 707BF | 0.0 | On Site | 283637 210330 | Colliery | 1921 |
| 708BM | 0.0 | On Site | 283636 210984 | Unspecified Ground Workings | 1921 |
| 709BP | 0.0 | On Site | 281929 211371 | Pond | 1921 |
| 710CD | 0.0 | On Site | 282960 210712 | Refuse Heaps | 1921 |
| 711AK | 0.0 | On Site | 284328 210374 | Unspecified Ground Workings | 1921 |
| 712BQ | 0.0 | On Site | 284276 210451 | Unspecified Ground Workings | 1921 |
| 713BX | 0.0 | On Site | 284230 210438 | Colliery | 1921 |
| 714W | 0.0 | On Site | 282961 211898 | Unspecified Drift | 1914 |
| 715B | 0.0 | On Site | 281994 211794 | Unspecified Ground Workings | 1914 |
| 716S | 0.0 | On Site | 282071 211867 | Unspecified Ground Workings | 1914 |
| 717O | 0.0 | On Site | 281971 211482 | Unspecified Heap | 1914 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 718K | 0.0 | On Site | 282554 211513 | Unspecified Ground Workings | 1914 |
| 719BB | 0.0 | On Site | 283203 211938 | Unspecified Ground Workings | 1914 |
| 720BH | 0.0 | On Site | 283143 211810 | Unspecified Ground Workings | 1914 |
| 721G | 0.0 | On Site | 283209 211751 | Unspecified Heap | 1914 |
| 722E | 0.0 | On Site | 282516 211683 | Unspecified Ground Workings | 1914 |
| 723AU | 0.0 | On Site | 282594 211827 | Unspecified Heap | 1914 |
| 724E | 0.0 | On Site | 282500 211795 | Unspecified Ground Workings | 1914 |
| 725F | 0.0 | On Site | 282318 211794 | Unspecified Pit | 1914 |
| 726U | 0.0 | On Site | 282459 211836 | Unspecified Heap | 1914 |
| 727F | 0.0 | On Site | 282245 211835 | Unspecified Ground Workings | 1914 |
| 728AP | 0.0 | On Site | 281705 211730 | Unspecified Heap | 1914 |
| 729Q | 0.0 | On Site | 282208 211599 | Unspecified Ground Workings | 1914 |
| 730P | 0.0 | On Site | 282175 211508 | Unspecified Ground Workings | 1914 |
| 731BV | 0.0 | On Site | 282126 211818 | Unspecified Ground Workings | 1914 |
| 732C | 0.0 | On Site | 281911 211854 | Unspecified Ground Workings | 1914 |
| 733AS | 0.0 | On Site | 282517 211967 | Colliery | 1914 |
| 734AS | 0.0 | On Site | 282475 212060 | Unspecified Heap | 1914 |
| 735AV | 0.0 | On Site | 282299 212067 | Unspecified Heap | 1914 |
| 736U | 0.0 | On Site | 282553 211931 | Unspecified Drift | 1914 |
| 737AS | 0.0 | On Site | 282457 212012 | Unspecified Drift | 1914 |
| 738AM | 0.0 | On Site | 282480 211970 | Unspecified Ground Workings | 1914 |
| 739AM | 0.0 | On Site | 282383 211935 | Unspecified Old Level | 1914 |
| 740AM | 0.0 | On Site | 282330 211891 | Unspecified Old Level | 1914 |
| 741AM | 0.0 | On Site | 282423 211924 | Unspecified Old Level | 1914 |
| 742AR | 0.0 | On Site | 282161 212047 | Colliery | 1914 |
| 743G | 0.0 | On Site | 283205 211719 | Colliery | 1914 |
| 744V | 0.0 | On Site | 281842 211690 | Old Coal Levels | 1914 |
| 745V | 0.0 | On Site | 281897 211696 | Unspecified Ground Workings | 1914 |
| 746AM | 0.0 | On Site | 282490 211900 | Unspecified Ground Workings | 1914 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 747U | 0.0 | On Site | 282533 211879 | Unspecified Old Level | 1914 |
| 748A | 0.0 | On Site | 282885 211604 | Unspecified Ground Workings | 1914 |
| 749A | 0.0 | On Site | 282717 211555 | Unspecified Ground Workings | 1914 |
| 750B H | 0.0 | On Site | 283121 211751 | Old Coal Levels | 1914 |
| 751G | 0.0 | On Site | 283151 211736 | Old Coal Levels | 1914 |
| 752G | 0.0 | On Site | 283166 211713 | Old Coal Levels | 1914 |
| 753A M | 0.0 | On Site | 282367 211973 | Unspecified Heaps | 1914 |
| 754S | 0.0 | On Site | 282123 211890 | Unspecified Ground Workings | 1914 |
| 755S | 0.0 | On Site | 282113 211903 | Unspecified Old Level | 1914 |
| 756BY | 0.0 | On Site | 284889 210385 | Unspecified Ground Workings | 1921 |
| 757Z | 0.0 | On Site | 284778 210396 | Unspecified Pit | 1921 |
| 758A A | 0.0 | On Site | 285147 210538 | Old Coal Level | 1921 |
| 759AF | 0.0 | On Site | 285039 210384 | Unspecified Ground Workings | 1921 |
| 760A A | 0.0 | On Site | 285112 210481 | Unspecified Pit | 1921 |
| 761Y | 0.0 | On Site | 285267 210420 | Unspecified Ground Workings | 1921 |
| 762A X | 0.0 | On Site | 284885 210672 | Unspecified Heap | 1921 |
| 763AB | 0.0 | On Site | 285226 210521 | Unspecified Ground Workings | 1921 |
| 764Y | 0.0 | On Site | 285406 210407 | Unspecified Ground Workings | 1921 |
| 765X | 0.0 | On Site | 285092 210264 | Unspecified Ground Workings | 1921 |
| 766A G | 0.0 | On Site | 285404 210284 | Old Coal Level | 1921 |
| 767A G | 0.0 | On Site | 285370 210232 | Old Coal Pit | 1921 |
| 768A G | 0.0 | On Site | 285345 210275 | Unspecified Ground Workings | 1921 |
| 769A A | 0.0 | On Site | 285072 210502 | Cuttings | 1921 |
| 770AC | 0.0 | On Site | 284657 210336 | Unspecified Ground Workings | 1921 |
| 771C D | 0.0 | On Site | 282958 210718 | Refuse Heap | 1914 |
| 772B N | 0.0 | On Site | 283514 210491 | Unspecified Heap | 1914 |
| 773CF | 0.0 | On Site | 283059 210391 | Unspecified Ground Workings | 1914 |
| 774CE | 0.0 | On Site | 283092 211261 | Pond | 1914 |
| 775B M | 0.0 | On Site | 283623 211007 | Unspecified Ground Workings | 1914 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 776BO | 0.0 | On Site | 283912 210815 | Unspecified Ground Workings | 1914 |
| 777BF | 0.0 | On Site | 283493 210312 | Refuse Heap | 1914 |
| 778CG | 0.0 | On Site | 283659 210352 | Refuse Heap | 1914 |
| 779AK | 0.0 | On Site | 284324 210387 | Unspecified Ground Workings | 1914 |
| 780BQ | 0.0 | On Site | 284271 210464 | Unspecified Ground Workings | 1914 |
| 781AI | 0.0 | On Site | 284269 210482 | Colliery | 1914 |
| 782BC | 0.0 | On Site | 283733 210348 | Colliery | 1914 |
| 783BP | 0.0 | On Site | 281931 211374 | Pond | 1914 |
| 784BS | 0.0 | On Site | 282883 210476 | Cuttings | 1914 |
| 785BR | 0.0 | On Site | 283142 210535 | Cuttings | 1914 |
| 786CD | 0.0 | On Site | 282958 210718 | Refuse Heap | 1914 |
| 787BN | 0.0 | On Site | 283514 210491 | Unspecified Heap | 1914 |
| 788CF | 0.0 | On Site | 283059 210391 | Unspecified Ground Workings | 1914 |
| 789CE | 0.0 | On Site | 283092 211261 | Pond | 1914 |
| 790BM | 0.0 | On Site | 283623 211007 | Unspecified Ground Workings | 1914 |
| 791BO | 0.0 | On Site | 283912 210815 | Unspecified Ground Workings | 1914 |
| 792CG | 0.0 | On Site | 283493 210312 | Refuse Heap | 1914 |
| 793CG | 0.0 | On Site | 283659 210352 | Refuse Heap | 1914 |
| 794AK | 0.0 | On Site | 284324 210387 | Unspecified Ground Workings | 1914 |
| 795BQ | 0.0 | On Site | 284271 210464 | Unspecified Ground Workings | 1914 |
| 796AI | 0.0 | On Site | 284269 210482 | Colliery | 1914 |
| 797BC | 0.0 | On Site | 283733 210348 | Colliery | 1914 |
| 798BP | 0.0 | On Site | 281931 211374 | Pond | 1914 |
| 799BS | 0.0 | On Site | 282883 210476 | Cuttings | 1914 |
| 800BR | 0.0 | On Site | 283142 210535 | Cuttings | 1914 |
| 801CF | 2.0 | S | 283064 210431 | Unspecified Pit | 1921 |
| 802CF | 2.0 | S | 283064 210431 | Unspecified Pit | 1921 |
| 803AG | 2.0 | S | 285379 210212 | Unspecified Ground Workings | 1877 |
| 804CJ | 2.0 | N | 283827 210573 | Cuttings | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 805AK | 3.0 | W | 284189 210357 | Unspecified Drift | 1921 |
| 806CH | 3.0 | W | 284344 210331 | Unspecified Heap | 1877 |
| 807BX | 3.0 | SE | 284007 210304 | Unspecified Disused Tip | 1987 |
| 808CC | 3.0 | N | 283351 212018 | Colliery | 1921 |
| 809BO | 3.0 | SE | 283915 210805 | Unspecified Ground Workings | 1921 |
| 810CK | 3.0 | NE | 285081 210803 | Unspecified Old Quarry | 1900 |
| 811AG | 4.0 | S | 285478 210212 | Cuttings | 1962 |
| 812AG | 4.0 | S | 285370 210223 | Old Coal Level | 1903 |
| 813CH | 5.0 | W | 284183 210367 | Unspecified Drift | 1914 |
| 814CH | 5.0 | W | 284183 210367 | Unspecified Drift | 1914 |
| 815AG | 5.0 | S | 285368 210223 | Old Coal Pit | 1900 |
| 816CC | 5.0 | N | 283442 211991 | Unspecified Disused Drift | 1987 |
| 817AC | 5.0 | S | 284600 210309 | Unspecified Heap | 1948 |
| 818BX | 5.0 | SE | 284003 210302 | Unspecified Ground Workings | 1921 |
| 819BX | 5.0 | SE | 284003 210302 | Unspecified Ground Workings | 1921 |
| 820CH | 5.0 | W | 284182 210368 | Unspecified Drift | 1921 |
| 821AH | 6.0 | S | 285424 210190 | Old Coal Level | 1900 |
| 822CI | 7.0 | NW | 281890 212030 | Old Coal Level | 1903 |
| 823CI | 7.0 | NW | 281890 212030 | Old Coal Level | 1877 |
| 824BX | 8.0 | SE | 283973 210301 | Refuse Heap | 1948 |
| 825CJ | 8.0 | N | 283920 210548 | Unspecified Heap | 1921 |
| 826CC | 8.0 | N | 283486 212017 | Colliery | 1921 |
| 827CC | 8.0 | N | 283486 212017 | Colliery | 1921 |
| 828CB | 8.0 | N | 283807 210521 | Unspecified Ground Workings | 1921 |
| 829CK | 9.0 | NE | 285084 210808 | Unspecified Old Quarry | 1921 |
| 830BT | 9.0 | SE | 283295 210108 | Unspecified Ground Workings | 1876 |
| 831CC | 9.0 | N | 283475 212016 | Colliery | 1914 |
| 832CL | 9.0 | S | 283648 210226 | Old Coal Level | 1948 |
| 833CL | 9.0 | S | 283648 210226 | Old Coal Level | 1903 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 834CK | 9.0 | NE | 285085 210807 | Unspecified Quarry | 1962 |
| 835CK | 10.0 | NE | 285081 210811 | Unspecified Old Quarry | 1921 |
| 836BT | 10.0 | SE | 283424 210059 | Old Coal Level | 1901 |
| 837CK | 10.0 | NE | 285082 210808 | Unspecified Old Quarry | 1948 |
| 838CO | 11.0 | S | 285507 210181 | Unspecified Ground Workings | 1877 |
| 839BX | 11.0 | SE | 283915 210305 | Refuse Heap | 1914 |
| 840BX | 11.0 | SE | 283915 210305 | Refuse Heap | 1914 |
| 841CC | 11.0 | N | 283448 211998 | Unspecified Drift | 1914 |
| 842CM | 12.0 | NE | 284095 211603 | Cuttings | 1903 |
| 843CM | 12.0 | NE | 284095 211603 | Cuttings | 1877 |
| 844CC | 12.0 | N | 283415 212028 | Refuse Heap | 1965 |
| 845CC | 12.0 | N | 283449 211998 | Drift | 1921 |
| 846CC | 12.0 | N | 283449 211998 | Drift | 1921 |
| 847CN | 13.0 | S | 284773 210226 | Unspecified Pit | 1987 |
| 848CN | 14.0 | S | 284709 210194 | Unspecified Heaps | 1965 |
| 849CN | 14.0 | S | 284789 210210 | Unspecified Ground Workings | 1948 |
| 850CY | 14.0 | SE | 283910 210296 | Refuse Heaps | 1921 |
| 851BX | 15.0 | SE | 283973 210294 | Refuse Heap | 1965 |
| 852CJ | 15.0 | N | 283798 210530 | Unspecified Heaps | 1877 |
| 853CL | 15.0 | S | 283653 210221 | Old Coal Level | 1921 |
| 854CC | 16.0 | N | 283449 212002 | Unspecified Drift | 1921 |
| 855CJ | 17.0 | N | 283800 210530 | Unspecified Heap | 1948 |
| 856CS | 17.0 | S | 284617 210148 | Unspecified Disused Tip | 1987 |
| 857CO | 17.0 | S | 285349 210191 | Cuttings | 1921 |
| 858CH | 17.0 | S | 284380 210294 | Unspecified Heap | 1921 |
| 859CT | 18.0 | S | 284420 210297 | Unspecified Heap | 1903 |
| 860CB | 19.0 | N | 283802 210532 | Unspecified Ground Workings | 1921 |
| 861CB | 19.0 | N | 283802 210532 | Unspecified Ground Workings | 1921 |
| 862CN | 19.0 | S | 284889 210188 | Unspecified Ground Workings | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 863CB | 19.0 | N | 283802 210531 | Unspecified Ground Workings | 1914 |
| 864CB | 19.0 | N | 283802 210531 | Unspecified Ground Workings | 1914 |
| 865CQ | 19.0 | NW | 281898 212034 | Unspecified Ground Workings | 1914 |
| 866CO | 19.0 | S | 285428 210186 | Pond | 1876 |
| 867CN | 19.0 | S | 284801 210191 | Unspecified Ground Workings | 1903 |
| 868BC | 20.0 | S | 283741 210237 | Old Coal Level | 1901 |
| 869CP | 20.0 | N | 283912 210558 | Unspecified Old Level | 1948 |
| 870CO | 20.0 | S | 285428 210187 | Old Coal Pit | 1921 |
| 871CP | 21.0 | N | 283915 210559 | Unspecified Pit | 1914 |
| 872CP | 21.0 | N | 283915 210559 | Unspecified Pit | 1914 |
| 873AB | 21.0 | NE | 285372 210515 | Pond | 1948 |
| 874AH | 21.0 | S | 285418 210185 | Unspecified Pit | 1877 |
| 875AB | 21.0 | NE | 285371 210516 | Pond | 1921 |
| 876BX | 22.0 | S | 284040 210301 | Unspecified Ground Workings | 1876 |
| 877BC | 22.0 | S | 283742 210238 | Unspecified Pit | 1948 |
| 878BC | 22.0 | S | 283742 210238 | Unspecified Pit | 1903 |
| 879CP | 22.0 | N | 283913 210559 | Unspecified Heap | 1921 |
| 880CP | 22.0 | N | 283913 210559 | Unspecified Heap | 1921 |
| 881BX | 22.0 | S | 284071 210328 | Unspecified Ground Workings | 1877 |
| 882BC | 22.0 | SE | 283830 210258 | Refuse Heap | 1921 |
| 883BC | 22.0 | SE | 283830 210258 | Refuse Heap | 1921 |
| 884BC | 22.0 | S | 283743 210238 | Old Coal Level | 1921 |
| 885BC | 22.0 | S | 283743 210238 | Old Coal Level | 1921 |
| 886BK | 24.0 | S | 284480 210216 | Unspecified Ground Workings | 1948 |
| 887CQ | 25.0 | NW | 281896 212039 | Unspecified Ground Workings | 1921 |
| 888CQ | 25.0 | NW | 281900 212038 | Unspecified Ground Workings | 1921 |
| 889CQ | 25.0 | NW | 281900 212038 | Unspecified Ground Workings | 1921 |
| 890BC | 25.0 | SE | 283829 210255 | Refuse Heap | 1914 |
| 891BC | 25.0 | SE | 283829 210255 | Refuse Heap | 1914 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 892CO | 25.0 | S | 285458 210169 | Ponds | 1921 |
| 893CO | 26.0 | S | 285428 210180 | Unspecified Pit | 1962 |
| 894CO | 28.0 | S | 285457 210168 | Unspecified Pits | 1948 |
| 895BC | 28.0 | S | 283747 210232 | Old Coal Level | 1921 |
| 896CO | 28.0 | SE | 285523 210170 | Unspecified Heap | 1900 |
| 897BJ | 29.0 | S | 284888 210170 | Unspecified Ground Workings | 1921 |
| 898BJ | 29.0 | S | 284888 210170 | Unspecified Ground Workings | 1921 |
| 899CR | 31.0 | SE | 283429 210049 | Unspecified Ground Workings | 1914 |
| 900CR | 31.0 | SE | 283429 210049 | Unspecified Ground Workings | 1914 |
| 901BK | 31.0 | S | 284661 210263 | Unspecified Heap | 1948 |
| 902CP | 31.0 | N | 284052 210617 | Unspecified Pit | 1921 |
| 903CS | 31.0 | S | 284634 210145 | Refuse Heap | 1965 |
| 904CU | 33.0 | NE | 282420 212178 | Unspecified Pit | 1914 |
| 905BC | 34.0 | SE | 283837 210249 | Refuse Heap | 1921 |
| 906CT | 34.0 | S | 284371 210277 | Unspecified Heap | 1948 |
| 907CH | 34.0 | S | 284371 210277 | Unspecified Heap | 1903 |
| 908BJ | 34.0 | S | 284882 210169 | Unspecified Ground Workings | 1877 |
| 909CU | 35.0 | NE | 282422 212178 | Unspecified Pit | 1921 |
| 910CU | 35.0 | NE | 282422 212178 | Unspecified Pit | 1921 |
| 911CU | 35.0 | NE | 282417 212178 | Unspecified Pit | 1948 |
| 912CU | 35.0 | NE | 282417 212178 | Unspecified Pit | 1903 |
| 913CU | 36.0 | NE | 282418 212182 | Unspecified Pit | 1921 |
| 914CQ | 36.0 | NW | 281820 212099 | Unspecified Heaps | 1877 |
| 915CU | 37.0 | NE | 282419 212184 | Unspecified Pit | 1877 |
| 916CO | 37.0 | S | 285429 210179 | Old Coal Level | 1903 |
| 917CP | 37.0 | N | 284050 210625 | Old Coal Pit | 1877 |
| 918CP | 37.0 | N | 284044 210622 | Unspecified Pit | 1921 |
| 919BC | 38.0 | S | 283750 210230 | Old Trial Drift | 1914 |
| 920BC | 38.0 | S | 283750 210230 | Old Trial Drift | 1914 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 921BK | 40.0 | S | 284507 210218 | Unspecified Old Quarries | 1903 |
| 922CU | 41.0 | NE | 282415 212173 | Unspecified Old Level | 1903 |
| 923CP | 42.0 | N | 283908 210572 | Unspecified Old Level | 1921 |
| 924CL | 43.0 | S | 283703 210202 | Unspecified Heap | 1948 |
| 925BK | 43.0 | SE | 284451 210294 | Unspecified Heap | 1965 |
| 926BK | 43.0 | SE | 284451 210294 | Unspecified Heap | 1987 |
| 927BX | 43.0 | W | 284120 210306 | Pond | 1921 |
| 928CQ | 43.0 | NW | 281874 212037 | Old Coal Level | 1921 |
| 929CQ | 43.0 | NW | 281874 212037 | Old Coal Level | 1921 |
| 930CP | 44.0 | N | 284047 210628 | Unspecified Pit | 1914 |
| 931CP | 44.0 | N | 284047 210628 | Unspecified Pit | 1914 |
| 932CP | 44.0 | N | 284047 210628 | Unspecified Pit | 1948 |
| 933CL | 44.0 | S | 283705 210204 | Unspecified Heap | 1921 |
| 934CL | 44.0 | S | 283705 210204 | Unspecified Heap | 1921 |
| 935CI | 44.0 | NW | 281836 212017 | Old Coal Level | 1914 |
| 936DI | 45.0 | S | 283680 210095 | Unspecified Disused Workings | 1987 |
| 937CP | 45.0 | N | 284048 210628 | Unspecified Pit | 1921 |
| 938CP | 45.0 | N | 284048 210628 | Unspecified Pit | 1921 |
| 939CL | 45.0 | S | 283705 210201 | Unspecified Pit | 1914 |
| 940CL | 45.0 | S | 283705 210201 | Unspecified Pit | 1914 |
| 941BO | 45.0 | SE | 283922 210808 | Unspecified Pit | 1948 |
| 942BX | 46.0 | W | 284113 210316 | Pond | 1914 |
| 943BX | 46.0 | W | 284113 210316 | Pond | 1914 |
| 944CV | 46.0 | NE | 285454 210446 | Unspecified Disused Level | 1977 |
| 945BX | 46.0 | W | 284113 210312 | Pond | 1903 |
| 946BX | 46.0 | W | 284113 210312 | Pond | 1877 |
| 947BX | 46.0 | W | 284112 210317 | Pond | 1921 |
| 948CQ | 47.0 | NW | 281873 212040 | Old Coal Level | 1948 |
| 949CL | 47.0 | S | 283712 210200 | Unspecified Ground Workings | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 950CF | 47.0 | S | 283093 210365 | Unspecified Heap | 1903 |
| 951CF | 47.0 | S | 283093 210365 | Unspecified Heap | 1877 |
| 952CO | 47.0 | S | 285457 210164 | Unspecified Pit | 1877 |
| 953CO | 49.0 | SE | 285515 210180 | Unspecified Heap | 1921 |
| 954CO | 49.0 | SE | 285515 210180 | Unspecified Heap | 1921 |
| 955CO | 49.0 | S | 285469 210156 | Unspecified Ground Workings | 1962 |
| 956BX | 49.0 | W | 284111 210314 | Pond | 1876 |
| 957BX | 50.0 | W | 284068 210302 | Unspecified Ground Workings | 1901 |
| 958BX | 50.0 | W | 284111 210311 | Pond | 1921 |
| 959BX | 50.0 | W | 284106 210315 | Pond | 1901 |
| 960CI | 50.0 | NW | 281832 212022 | Old Coal Level | 1921 |
| 961CW | 51.0 | SW | 284190 210177 | Unspecified Ground Workings | 1876 |
| 962CV | 51.0 | NE | 285459 210445 | Old Coal Level | 1921 |
| 963CV | 51.0 | NE | 285459 210445 | Old Coal Level | 1921 |
| 964CV | 52.0 | NE | 285460 210446 | Old Coal Pit | 1921 |
| 965CJ | 52.0 | N | 283903 210581 | Unspecified Old Level | 1914 |
| 966CJ | 52.0 | N | 283903 210581 | Unspecified Old Level | 1914 |
| 967CT | 52.0 | S | 284449 210250 | Unspecified Quarry | 1876 |
| 968CX | 52.0 | NE | 285390 210534 | Unspecified Heap | 1877 |
| 969CW | 53.0 | SW | 284248 210173 | Unspecified Ground Workings | 1877 |
| 970CV | 53.0 | NE | 285459 210450 | Old Coal Level | 1921 |
| 971CW | 53.0 | SW | 284291 210174 | Unspecified Old Quarry | 1901 |
| 972CS | 53.0 | S | 284600 210076 | Refuse Heap | 1948 |
| 973CU | 53.0 | NE | 282417 212185 | Old Coal Level | 1877 |
| 974CX | 53.0 | NE | 285401 210529 | Unspecified Heap | 1962 |
| 975CW | 54.0 | SW | 284293 210175 | Unspecified Old Quarry | 1903 |
| 976CJ | 54.0 | N | 283901 210582 | Unspecified Old Level | 1921 |
| 977CJ | 54.0 | N | 283901 210582 | Unspecified Old Level | 1921 |
| 978CL | 54.0 | S | 283712 210193 | Unspecified Heap | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 979CX | 55.0 | NE | 285401 210531 | Unspecified Heap | 1921 |
| 980CX | 55.0 | NE | 285401 210531 | Unspecified Heap | 1921 |
| 981BC | 55.0 | S | 283766 210212 | Unspecified Ground Workings | 1921 |
| 982BC | 55.0 | S | 283766 210212 | Unspecified Ground Workings | 1921 |
| 983CX | 56.0 | NE | 285402 210532 | Unspecified Heap | 1948 |
| 984CX | 56.0 | NE | 285404 210533 | Unspecified Heap | 1921 |
| 985CX | 56.0 | NE | 285403 210535 | Unspecified Heap | 1921 |
| 986BC | 57.0 | S | 283762 210211 | Unspecified Ground Workings | 1948 |
| 987CT | 57.0 | S | 284411 210237 | Unspecified Ground Workings | 1965 |
| 988CW | 57.0 | S | 284295 210171 | Unspecified Ground Workings | 1921 |
| 989CW | 57.0 | S | 284295 210171 | Unspecified Ground Workings | 1921 |
| 990CY | 58.0 | SE | 283990 210267 | Unspecified Ground Workings | 1877 |
| 991EE | 58.0 | S | 285351 210164 | Old Coal Level | 1903 |
| 992CW | 59.0 | S | 284241 210170 | Unspecified Ground Workings | 1914 |
| 993CW | 59.0 | S | 284241 210170 | Unspecified Ground Workings | 1914 |
| 994CH | 59.0 | S | 284340 210250 | Unspecified Pit | 1948 |
| 995CL | 60.0 | S | 283668 210166 | Unspecified Pit | 1876 |
| 996DC | 60.0 | N | 283566 212053 | Cuttings | 1877 |
| 997CY | 60.0 | SE | 283986 210277 | Unspecified Ground Workings | 1914 |
| 998CY | 60.0 | SE | 283986 210277 | Unspecified Ground Workings | 1914 |
| 999CZ | 61.0 | NW | 284268 210782 | Unspecified Heap | 1948 |
| 1000CZ | 61.0 | NW | 284262 210787 | Unspecified Ground Workings | 1914 |
| 1001CZ | 61.0 | NW | 284262 210787 | Unspecified Ground Workings | 1914 |
| 1002CZ | 61.0 | NW | 284274 210788 | Unspecified Heaps | 1921 |
| 1003CW | 63.0 | S | 284245 210168 | Unspecified Ground Workings | 1921 |
| 1004CZ | 64.0 | NW | 284276 210786 | Unspecified Heaps | 1921 |
| 1005CZ | 64.0 | NW | 284276 210786 | Unspecified Heaps | 1921 |
| 1006CF | 64.0 | S | 283151 210385 | Unspecified Ground Workings | 1921 |
| 1007CF | 64.0 | S | 283151 210385 | Unspecified Ground Workings | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1008CL | 64.0 | S | 283669 210163 | Unspecified Pit | 1877 |
| 1009CT | 65.0 | S | 284439 210224 | Unspecified Old Quarries | 1903 |
| 1010BJ | 66.0 | S | 284887 210161 | Unspecified Heap | 1948 |
| 1011CL | 66.0 | S | 283712 210176 | Unspecified Pit | 1903 |
| 1012CY | 66.0 | SE | 283973 210272 | Unspecified Ground Workings | 1921 |
| 1013CL | 66.0 | S | 283711 210174 | Unspecified Pit | 1901 |
| 1014CW | 67.0 | SW | 284255 210161 | Unspecified Ground Workings | 1921 |
| 1015CZ | 68.0 | NW | 284265 210783 | Unspecified Heap | 1877 |
| 1016CW | 70.0 | SW | 284132 210236 | Unspecified Ground Workings | 1948 |
| 1017BJ | 71.0 | S | 284838 210164 | Unspecified Ground Workings | 1965 |
| 1018BJ | 71.0 | S | 284838 210164 | Unspecified Ground Workings | 1987 |
| 1019CL | 71.0 | S | 283713 210175 | Unspecified Heap | 1876 |
| 1020CL | 72.0 | S | 283714 210173 | Unspecified Heap | 1877 |
| 1021CW | 72.0 | S | 284322 210220 | Unspecified Heap | 1877 |
| 1022CY | 72.0 | SE | 283977 210266 | Unspecified Ground Workings | 1921 |
| 1023CF | 73.0 | S | 283082 210360 | Unspecified Heap | 1948 |
| 1024CL | 73.0 | S | 283715 210172 | Unspecified Pit | 1921 |
| 1025CL | 73.0 | S | 283715 210172 | Unspecified Pit | 1921 |
| 1026DA | 74.0 | NE | 285412 210656 | Unspecified Ground Workings | 1876 |
| 1027CL | 74.0 | S | 283713 210171 | Unspecified Pit | 1948 |
| 1028DA | 74.0 | NE | 285407 210669 | Unspecified Ground Workings | 1962 |
| 1029CL | 75.0 | S | 283715 210171 | Unspecified Pit | 1914 |
| 1030CL | 75.0 | S | 283715 210171 | Unspecified Pit | 1914 |
| 1031CQ | 77.0 | NW | 281854 212085 | Unspecified Ground Workings | 1914 |
| 1032CP | 78.0 | N | 284027 210655 | Unspecified Pit | 1921 |
| 1033DA | 78.0 | NE | 285407 210671 | Unspecified Ground Workings | 1921 |
| 1034DA | 78.0 | NE | 285407 210671 | Unspecified Ground Workings | 1921 |
| 1035CL | 78.0 | S | 283718 210168 | Unspecified Heap | 1921 |
| 1036CW | 79.0 | S | 284293 210172 | Unspecified Pit | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1037C Q | 79.0 | NW | 281824 212093 | Unspecified Ground Workings | 1965 |
| 1038C F | 80.0 | S | 283151 210376 | Unspecified Heap | 1948 |
| 1039C Q | 80.0 | NW | 281801 212095 | Unspecified Ground Workings | 1921 |
| 1040C Q | 80.0 | NW | 281801 212095 | Unspecified Ground Workings | 1921 |
| 1041C Q | 81.0 | NW | 281837 212089 | Unspecified Ground Workings | 1921 |
| 1042C Z | 82.0 | NW | 284245 210802 | Unspecified Pit | 1877 |
| 1043D A | 82.0 | NE | 285302 210697 | Unspecified Pit | 1877 |
| 1044D B | 82.0 | SE | 283841 210717 | Old Clay Pit | 1877 |
| 1045D A | 83.0 | NE | 285413 210665 | Unspecified Ground Workings | 1877 |
| 1046D B | 83.0 | SE | 283845 210715 | Unspecified Pit | 1948 |
| 1047D C | 83.0 | NE | 283636 212050 | Cuttings | 1877 |
| 1048D B | 84.0 | SE | 283843 210714 | Old Clay Pit | 1901 |
| 1049D D | 84.0 | N | 284123 210683 | Disused Old Coal Pit | 1877 |
| 1050D D | 84.0 | N | 284121 210677 | Old Coal Pit | 1901 |
| 1051C L | 84.0 | S | 283722 210162 | Unspecified Pit | 1921 |
| 1052C P | 85.0 | N | 284019 210659 | Unspecified Heap | 1921 |
| 1053D E | 85.0 | S | 283832 210210 | Old Trial Drift | 1948 |
| 1054D E | 86.0 | S | 283834 210211 | Old Trial Drift | 1921 |
| 1055D E | 86.0 | S | 283834 210211 | Old Trial Drift | 1921 |
| 1056D E | 86.0 | S | 283784 210190 | Unspecified Drift | 1876 |
| 1057C W | 86.0 | SW | 284149 210124 | Refuse Heap | 1965 |
| 1058C F | 86.0 | S | 283151 210370 | Unspecified Ground Workings | 1921 |
| 1059C Q | 87.0 | NW | 281833 212087 | Unspecified Heaps | 1903 |
| 1060D A | 88.0 | NE | 285406 210665 | Unspecified Ground Workings | 1948 |
| 1061D A | 88.0 | NE | 285406 210665 | Unspecified Ground Workings | 1903 |
| 1062D A | 89.0 | NE | 285424 210663 | Unspecified Ground Workings | 1900 |
| 1063D E | 90.0 | S | 283787 210186 | Unspecified Drift | 1877 |
| 1064D A | 90.0 | NE | 285294 210697 | Ponds | 1977 |
| 1065C P | 91.0 | N | 284022 210666 | Unspecified Pit | 1914 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1066CP | 91.0 | N | 284022 210666 | Unspecified Pit | 1914 |
| 1067DE | 91.0 | S | 283835 210206 | Old Trial Drift | 1921 |
| 1068CP | 91.0 | N | 284022 210666 | Unspecified Pit | 1948 |
| 1069CP | 91.0 | N | 284022 210665 | Unspecified Pit | 1921 |
| 1070CP | 91.0 | N | 284022 210665 | Unspecified Pit | 1921 |
| 1071DB | 91.0 | SE | 283849 210710 | Unspecified Pit | 1921 |
| 1072DA | 93.0 | NE | 285407 210627 | Unspecified Ground Workings | 1921 |
| 1073DB | 95.0 | SE | 283957 210777 | Unspecified Pit | 1877 |
| 1074DB | 95.0 | SE | 283957 210778 | Unspecified Pit | 1948 |
| 1075DF | 95.0 | SE | 284053 210879 | Cuttings | 1921 |
| 1076DF | 96.0 | SE | 284053 210876 | Cuttings | 1877 |
| 1077DA | 100.0 | NE | 285416 210629 | Unspecified Ground Workings | 1921 |
| 1078DA | 100.0 | NE | 285313 210697 | Unspecified Pit | 1948 |
| 1079DF | 101.0 | SE | 284055 210877 | Cuttings | 1914 |
| 1080DF | 101.0 | SE | 284055 210877 | Cuttings | 1914 |
| 1081CY | 101.0 | W | 284096 210260 | Unspecified Ground Workings | 1876 |
| 1082DF | 102.0 | SE | 284055 210878 | Cuttings | 1921 |
| 1083DG | 102.0 | NW | 281454 211816 | Old Ironstone Levels | 1914 |
| 1084DF | 102.0 | SE | 284054 210877 | Cuttings | 1948 |
| 1085DG | 103.0 | NW | 281458 211802 | Old Ironstone Levels | 1921 |
| 1086DF | 104.0 | SE | 284046 210846 | Unspecified Pit | 1965 |
| 1087DG | 106.0 | NW | 281445 211821 | Unspecified Old Levels | 1903 |
| 1088DG | 106.0 | NW | 281445 211821 | Old Ironstone Levels | 1948 |
| 1089DA | 106.0 | NE | 285347 210683 | Unspecified Ground Workings | 1921 |
| 1090DG | 106.0 | NW | 281455 211805 | Old Ironstone Levels | 1921 |
| 1091DH | 106.0 | NE | 285298 210743 | Unspecified Heap | 1903 |
| 1092DA | 106.0 | NE | 285342 210696 | Unspecified Ground Workings | 1921 |
| 1093DH | 107.0 | NE | 285286 210745 | Unspecified Ground Workings | 1877 |
| 1094DG | 107.0 | NW | 281454 211806 | Unspecified Pit | 1965 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1095CR | 108.0 | S | 283473 210082 | Unspecified Heap | 1965 |
| 1096DH | 108.0 | NE | 285298 210743 | Unspecified Heap | 1900 |
| 1097DK | 109.0 | NW | 284343 210935 | Old Gravel Pit | 1877 |
| 1098DJ | 109.0 | N | 282422 212274 | Unspecified Heap | 1903 |
| 1099DF | 109.0 | SE | 284061 210869 | Cuttings | 1921 |
| 1100DG | 109.0 | NW | 281446 211821 | Old Ironstone Level | 1877 |
| 1101DH | 110.0 | NE | 285298 210745 | Unspecified Heap | 1948 |
| 1102DH | 112.0 | NE | 285301 210741 | Unspecified Ground Workings | 1876 |
| 1103DN | 112.0 | NW | 281577 211923 | Unspecified Drifts | 1948 |
| 1104CR | 113.0 | S | 283438 210039 | Unspecified Ground Workings | 1965 |
| 1105CR | 113.0 | S | 283438 210039 | Unspecified Ground Workings | 1987 |
| 1106DL | 113.0 | S | 285122 210087 | Unspecified Ground Workings | 1876 |
| 1107DB | 114.0 | N | 283961 210663 | Old Coal Pit | 1901 |
| 1108DB | 114.0 | SE | 283944 210752 | Unspecified Pit | 1948 |
| 1109DB | 114.0 | SE | 283942 210751 | Unspecified Pit | 1877 |
| 1110DI | 115.0 | S | 283656 210104 | Unspecified Ground Workings | 1914 |
| 1111DI | 115.0 | S | 283656 210104 | Unspecified Ground Workings | 1914 |
| 1112DJ | 115.0 | N | 282433 212266 | Unspecified Heap | 1877 |
| 1113DK | 120.0 | NW | 284280 210922 | Cuttings | 1877 |
| 1114DL | 120.0 | S | 285276 210090 | Unspecified Ground Workings | 1876 |
| 1115DL | 122.0 | S | 285196 210084 | Unspecified Heaps | 1876 |
| 1116DB | 123.0 | N | 283969 210686 | Cuttings | 1877 |
| 1117DI | 124.0 | S | 283628 210064 | Unspecified Pit | 1965 |
| 1118DB | 124.0 | SE | 283950 210744 | Unspecified Pit | 1921 |
| 1119DL | 127.0 | S | 285060 210077 | Unspecified Heap | 1876 |
| 1120DI | 127.0 | S | 283588 210057 | Unspecified Old Quarry | 1901 |
| 1121DP | 128.0 | N | 282278 212284 | Cuttings | 1903 |
| 1122DI | 129.0 | S | 283627 210056 | Unspecified Pit | 1903 |
| 1123DQ | 129.0 | NW | 281520 212023 | Colliery | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1124CW | 130.0 | SW | 284124 210207 | Old Coal Pit | 1921 |
| 1125CW | 130.0 | SW | 284124 210207 | Old Coal Pit | 1921 |
| 1126CW | 130.0 | SW | 284125 210206 | Old Coal Pit | 1914 |
| 1127CW | 130.0 | SW | 284125 210206 | Old Coal Pit | 1914 |
| 1128DI | 131.0 | S | 283586 210053 | Unspecified Ground Workings | 1914 |
| 1129DI | 131.0 | S | 283586 210053 | Unspecified Ground Workings | 1914 |
| 1130DH | 132.0 | NE | 285319 210747 | Unspecified Heap | 1900 |
| 1131CW | 132.0 | SW | 284123 210203 | Old Coal Pit | 1921 |
| 1132CW | 133.0 | SW | 284131 210197 | Old Coal Pit | 1921 |
| 1133CW | 134.0 | SW | 284121 210205 | Old Coal Pit | 1948 |
| 1134CW | 134.0 | SW | 284121 210205 | Old Coal Pit | 1903 |
| 1135DG | 134.0 | NW | 281442 211835 | Old Ironstone Levels | 1921 |
| 1136CW | 135.0 | SW | 284119 210203 | Old Coal Pit | 1901 |
| 1137DG | 136.0 | NW | 281439 211842 | Unspecified Heap | 1965 |
| 1138DG | 138.0 | NW | 281438 211839 | Old Ironstone Levels | 1921 |
| 1139DB | 139.0 | SE | 283962 210734 | Unspecified Pit | 1877 |
| 1140DM | 141.0 | NE | 284066 211882 | Unspecified Heap | 1914 |
| 1141DM | 142.0 | NE | 284067 211882 | Unspecified Ground Workings | 1921 |
| 1142DM | 142.0 | NE | 284067 211882 | Unspecified Ground Workings | 1921 |
| 1143DL | 144.0 | S | 285174 210067 | Unspecified Pit | 1948 |
| 1144DL | 145.0 | S | 285167 210067 | Unspecified Ground Workings | 1921 |
| 1145DM | 145.0 | NE | 284067 211887 | Unspecified Ground Workings | 1921 |
| 1146DN | 145.0 | NW | 281484 211888 | Unspecified Pit | 1965 |
| 1147DM | 145.0 | NE | 284074 211883 | Unspecified Pit | 1903 |
| 1148DM | 145.0 | NE | 284074 211883 | Old Ironstone Quarry | 1877 |
| 1149CW | 145.0 | SW | 284117 210157 | Old Coal Level | 1901 |
| 1150DO | 146.0 | NW | 284831 211010 | Unspecified Ground Workings | 1903 |
| 1151DO | 146.0 | NW | 284830 211013 | Unspecified Ground Workings | 1921 |
| 1152DL | 146.0 | S | 285180 210063 | Ponds | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1153DM | 146.0 | NE | 284077 211865 | Unspecified Pit | 1948 |
| 1154DO | 146.0 | NW | 284828 211011 | Unspecified Ground Workings | 1900 |
| 1155DL | 147.0 | S | 285173 210066 | Unspecified Pit | 1921 |
| 1156DL | 147.0 | S | 285173 210066 | Unspecified Pit | 1921 |
| 1157DP | 147.0 | N | 282202 212305 | Cuttings | 1903 |
| 1158DO | 149.0 | NW | 284827 211011 | Unspecified Ground Workings | 1948 |
| 1159DM | 149.0 | NE | 284076 211873 | Pond | 1987 |
| 1160DM | 149.0 | NE | 284076 211874 | Pond | 1965 |
| 1161DO | 150.0 | NW | 284824 211016 | Unspecified Ground Workings | 1921 |
| 1162DO | 150.0 | NW | 284822 211013 | Unspecified Ground Workings | 1921 |
| 1163DO | 150.0 | NW | 284822 211013 | Unspecified Ground Workings | 1921 |
| 1164DM | 152.0 | NE | 284063 211901 | Unspecified Heap | 1948 |
| 1165DL | 154.0 | S | 285259 210062 | Unspecified Ground Workings | 1876 |
| 1166DB | 154.0 | N | 283974 210715 | Unspecified Pit | 1877 |
| 1167DL | 154.0 | S | 285177 210061 | Old Coal Level | 1903 |
| 1168DQ | 156.0 | NW | 281442 212007 | Colliery | 1914 |
| 1169DO | 156.0 | NW | 284820 211014 | Unspecified Ground Workings | 1877 |
| 1170EA | 157.0 | S | 281945 210073 | Refuse Heap | 1965 |
| 1171DM | 158.0 | NE | 284065 211901 | Unspecified Pit | 1965 |
| 1172DQ | 158.0 | NW | 281428 212011 | Colliery | 1921 |
| 1173DQ | 158.0 | NW | 281428 212011 | Colliery | 1921 |
| 1174DR | 158.0 | SE | 285598 209999 | Cuttings | 1877 |
| 1175DM | 159.0 | NE | 284064 211901 | Unspecified Pit | 1987 |
| 1176DR | 164.0 | SE | 285615 209995 | Cuttings | 1876 |
| 1177DL | 164.0 | S | 285203 210054 | Old Coal Level | 1900 |
| 1178DL | 165.0 | S | 285203 210053 | Old Coal Level | 1903 |
| 1179DN | 169.0 | NW | 281493 211916 | Unspecified Drift | 1914 |
| 1180DG | 169.0 | NW | 281381 211798 | Old Ironstone Levels | 1921 |
| 1181CW | 172.0 | SW | 284074 210191 | Unspecified Pit | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1182CW | 172.0 | SW | 284074 210191 | Unspecified Pit | 1921 |
| 1183 | 172.0 | S | 281982 209940 | Refuse Heap | 1948 |
| 1184DG | 172.0 | NW | 281378 211802 | Old Ironstone Levels | 1921 |
| 1185DG | 172.0 | NW | 281369 211820 | Unspecified Old Levels | 1903 |
| 1186DG | 172.0 | NW | 281369 211820 | Old Ironstone Levels | 1948 |
| 1187CW | 173.0 | SW | 284072 210189 | Unspecified Pit | 1948 |
| 1188DN | 173.0 | NW | 281490 211919 | Unspecified Drifts | 1921 |
| 1189CW | 173.0 | SW | 284071 210188 | Unspecified Pit | 1921 |
| 1190DG | 176.0 | NW | 281364 211820 | Old Ironstone Level | 1877 |
| 1191DS | 176.0 | SE | 284020 210182 | Old Coal Level | 1903 |
| 1192DQ | 176.0 | NW | 281372 211986 | Unspecified Ground Workings | 1965 |
| 1193DO | 179.0 | NW | 284782 211049 | Ponds | 1948 |
| 1194DO | 179.0 | NW | 284782 211049 | Ponds | 1903 |
| 1195DO | 179.0 | NW | 284781 211051 | Ponds | 1965 |
| 1196DO | 179.0 | NW | 284781 211051 | Ponds | 1987 |
| 1197DS | 180.0 | SE | 284016 210183 | Unspecified Heap | 1921 |
| 1198DS | 180.0 | SE | 284016 210183 | Unspecified Heap | 1921 |
| 1199DT | 180.0 | S | 284486 210139 | Unspecified Ground Workings | 1965 |
| 1200DT | 180.0 | S | 284486 210139 | Unspecified Ground Workings | 1987 |
| 1201DS | 180.0 | SE | 284022 210176 | Unspecified Heap | 1876 |
| 1202DS | 181.0 | SE | 284016 210183 | Unspecified Heap | 1948 |
| 1203DS | 181.0 | SE | 284023 210174 | Unspecified Heap | 1877 |
| 1204DS | 181.0 | SE | 284014 210180 | Old Coal Level | 1921 |
| 1205DS | 181.0 | SE | 283959 210137 | Burial Ground | 1876 |
| 1206DO | 183.0 | NW | 284778 211053 | Ponds | 1921 |
| 1207DU | 183.0 | NW | 281809 212168 | Unspecified Heap | 1965 |
| 1208DU | 183.0 | NW | 281809 212168 | Unspecified Heap | 1987 |
| 1209DS | 183.0 | SE | 283962 210134 | Burial Ground | 1877 |
| 1210DS | 183.0 | SW | 284078 210177 | Old Coal Level | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1211DS | 183.0 | SW | 284078 210177 | Old Coal Level | 1921 |
| 1212DS | 184.0 | SW | 284077 210176 | Old Coal Level | 1948 |
| 1213DS | 186.0 | SW | 284085 210166 | Old Coal Level | 1921 |
| 1214DQ | 189.0 | NW | 281586 212081 | Unspecified Ground Workings | 1914 |
| 1215DQ | 189.0 | NW | 281603 212081 | Unspecified Ground Workings | 1921 |
| 1216DQ | 189.0 | NW | 281603 212081 | Unspecified Ground Workings | 1921 |
| 1217DO | 189.0 | W | 284764 210995 | Unspecified Heap | 1921 |
| 1218DO | 189.0 | NW | 284770 211026 | Ponds | 1877 |
| 1219DQ | 191.0 | NW | 281606 212071 | Unspecified Pit | 1948 |
| 1220DQ | 191.0 | NW | 281606 212071 | Unspecified Pit | 1903 |
| 1221DS | 191.0 | SE | 284023 210172 | Unspecified Heap | 1921 |
| 1222DQ | 191.0 | NW | 281579 212018 | Unspecified Ground Workings | 1965 |
| 1223DO | 191.0 | W | 284762 210993 | Unspecified Heap | 1948 |
| 1224DG | 192.0 | NW | 281365 211824 | Old Ironstone Levels | 1914 |
| 1225DQ | 192.0 | NW | 281505 212047 | Colliery | 1903 |
| 1226DG | 193.0 | NW | 281365 211826 | Old Ironstone Levels | 1921 |
| 1227DQ | 193.0 | NW | 281599 212083 | Unspecified Old Quarry | 1877 |
| 1228DQ | 193.0 | NW | 281599 212083 | Unspecified Ground Workings | 1921 |
| 1229DQ | 194.0 | NW | 281392 211996 | Refuse Heap | 1921 |
| 1230DQ | 194.0 | NW | 281396 211993 | Refuse Heaps | 1921 |
| 1231DQ | 194.0 | NW | 281396 211993 | Refuse Heaps | 1921 |
| 1232FC | 194.0 | N | 282439 212352 | Unspecified Old Quarries | 1877 |
| 1233DQ | 195.0 | NW | 281604 212072 | Unspecified Pit | 1965 |
| 1234DN | 197.0 | NW | 281522 211984 | Unspecified Drifts | 1948 |
| 1235DV | 197.0 | S | 283884 210083 | Unspecified Heap | 1876 |
| 1236DG | 197.0 | NW | 281360 211830 | Old Ironstone Levels | 1921 |
| 1237DG | 199.0 | NW | 281364 211839 | Unspecified Heap | 1965 |
| 1238DN | 200.0 | NW | 281489 211954 | Unspecified Drift | 1914 |
| 1239DV | 200.0 | S | 283885 210079 | Unspecified Heap | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1240DN | 201.0 | NW | 281490 211956 | Unspecified Drifts | 1921 |
| 1241DW | 203.0 | NW | 284793 211069 | Unspecified Pit | 1900 |
| 1242DW | 205.0 | NW | 284787 211074 | Unspecified Pit | 1877 |
| 1243DN | 206.0 | NW | 281486 211958 | Unspecified Drifts | 1921 |
| 1244DW | 207.0 | NW | 284794 211078 | Pond | 1921 |
| 1245DX | 207.0 | S | 283421 209970 | Unspecified Heap | 1876 |
| 1246DQ | 208.0 | NW | 281622 212101 | Unspecified Ground Workings | 1948 |
| 1247DX | 210.0 | S | 283422 209967 | Unspecified Pit | 1914 |
| 1248DX | 210.0 | S | 283422 209967 | Unspecified Pit | 1914 |
| 1249DX | 210.0 | S | 283422 209968 | Unspecified Heap | 1921 |
| 1250DX | 210.0 | S | 283422 209968 | Unspecified Heap | 1921 |
| 1251DX | 210.0 | S | 283423 209968 | Unspecified Heap | 1921 |
| 1252DW | 211.0 | NW | 284790 211080 | Pond | 1921 |
| 1253DX | 211.0 | S | 283421 209967 | Unspecified Heap | 1948 |
| 1254DX | 211.0 | S | 283419 209967 | Unspecified Heap | 1877 |
| 1255DQ | 213.0 | NW | 281619 212098 | Unspecified Ground Workings | 1965 |
| 1256DG | 213.0 | NW | 281305 211796 | Old Ironstone Levels | 1914 |
| 1257DG | 213.0 | NW | 281306 211797 | Unspecified Ground Workings | 1921 |
| 1258DG | 213.0 | NW | 281306 211797 | Unspecified Ground Workings | 1921 |
| 1259DG | 218.0 | NW | 281315 211790 | Old Ironstone Levels | 1921 |
| 1260 | 219.0 | NE | 284547 211018 | Unspecified Pit | 1903 |
| 1261DX | 219.0 | S | 283427 209959 | Unspecified Heap | 1921 |
| 1262DY | 220.0 | NW | 281301 211801 | Unspecified Heaps | 1903 |
| 1263DY | 220.0 | NW | 281301 211801 | Old Ironstone Levels | 1948 |
| 1264DG | 221.0 | NW | 281313 211792 | Unspecified Pit | 1965 |
| 1265DY | 222.0 | NW | 281236 211775 | Unspecified Old Level | 1903 |
| 1266DY | 222.0 | NW | 281302 211799 | Old Ironstone Level | 1877 |
| 1267DN | 227.0 | NW | 281489 211988 | Unspecified Drifts | 1921 |
| 1268DZ | 227.0 | S | 285057 209940 | Cemetery | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1269DZ | 229.0 | S | 285060 209937 | Cemetery | 1964 |
| 1270DZ | 229.0 | S | 285060 209937 | Cemetery | 1980 |
| 1271DZ | 229.0 | S | 285060 209937 | Cemetery | 1981 |
| 1272EF | 232.0 | S | 283917 209990 | Reservoir | 1948 |
| 1273DQ | 236.0 | NW | 281486 212032 | Unspecified Heap | 1921 |
| 1274DQ | 236.0 | NW | 281486 212032 | Unspecified Heap | 1921 |
| 1275DQ | 236.0 | NW | 281485 212029 | Unspecified Ground Workings | 1914 |
| 1276DY | 237.0 | NW | 281298 211809 | Unspecified Ground Workings | 1921 |
| 1277DX | 238.0 | S | 283412 209927 | Unspecified Pits | 1876 |
| 1278DQ | 238.0 | NW | 281481 212034 | Unspecified Ground Workings | 1921 |
| 1279DX | 238.0 | S | 283423 209930 | Unspecified Pit | 1988 |
| 1280DX | 238.0 | S | 283423 209930 | Unspecified Pit | 1964 |
| 1281DX | 239.0 | SE | 283419 209935 | Unspecified Pit | 1903 |
| 1282DX | 239.0 | SE | 283419 209935 | Unspecified Pit | 1877 |
| 1283DX | 239.0 | SE | 283419 209917 | Unspecified Pit | 1921 |
| 1284DX | 240.0 | SE | 283420 209934 | Unspecified Old Quarry | 1901 |
| 1285DX | 240.0 | SE | 283418 209919 | Unspecified Ground Workings | 1921 |
| 1286DX | 240.0 | SE | 283418 209919 | Unspecified Ground Workings | 1921 |
| 1287DX | 240.0 | S | 283418 209919 | Unspecified Ground Workings | 1914 |
| 1288DX | 240.0 | S | 283418 209919 | Unspecified Ground Workings | 1914 |
| 1289DX | 240.0 | S | 283408 209920 | Unspecified Ground Workings | 1948 |
| 1290DQ | 240.0 | NW | 281482 212036 | Unspecified Ground Workings | 1965 |
| 1291EA | 242.0 | S | 281788 210057 | Cuttings | 1948 |
| 1292EB | 242.0 | S | 281788 210057 | Cuttings | 1903 |
| 1293EB | 242.0 | S | 281788 210057 | Cuttings | 1877 |
| 1294EB | 243.0 | S | 281789 210055 | Cuttings | 1914 |
| 1295EB | 243.0 | S | 281789 210055 | Cuttings | 1914 |
| 1296EB | 243.0 | S | 281794 210058 | Cuttings | 1901 |
| 1297EB | 245.0 | S | 281790 210056 | Cuttings | 1921 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1298DX | 245.0 | SE | 283405 209915 | Unspecified Ground Workings | 1988 |
| 1299DX | 245.0 | SE | 283405 209915 | Unspecified Ground Workings | 1964 |
| 1300DQ | 246.0 | NW | 281481 212031 | Unspecified Ground Workings | 1948 |
| 1301DX | 247.0 | SE | 283401 209915 | Unspecified Pit | 1877 |
| 1302DY | 248.0 | NW | 281290 211815 | Unspecified Heap | 1965 |
| 1303EB | 249.0 | S | 281792 210049 | Cuttings | 1921 |
| 1304 | 249.0 | NE | 283987 212053 | Cuttings | 1877 |
| 1305DX | 249.0 | S | 283415 209911 | Unspecified Ground Workings | 1921 |
| 1306EB | 250.0 | S | 281788 210048 | Cuttings | 1921 |

## 4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1307W | 0.0 | On Site | 282961 211903 | Unspecified Drift | 1948 |
| 1308AO | 0.0 | On Site | 283279 211732 | Colliery | 1948 |
| 1309BA | 0.0 | On Site | 283382 211742 | Coal Shaft | 1948 |
| 1310G | 0.0 | On Site | 283209 211740 | Unspecified Old Level | 1903 |
| 1311G | 0.0 | On Site | 283139 211746 | Unspecified Old Levels | 1903 |
| 1312G | 0.0 | On Site | 283183 211721 | Air Shaft | 1903 |
| 1313G | 0.0 | On Site | 283168 211718 | Old Coal Levels | 1948 |
| 1314AA | 0.0 | On Site | 285142 210529 | Old Coal Level | 1900 |
| 1315BL | 0.0 | On Site | 283429 210759 | Old Coal Level | 1901 |
| 1316CX | 0.0 | On Site | 285244 210511 | Old Coal Level | 1903 |
| 1317Y | 0.0 | On Site | 285404 210409 | Old Coal Level | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1318AG | 0.0 | On Site | 285402 210270 | Old Coal Level | 1903 |
| 1319BY | 0.0 | On Site | 284964 210308 | Colliery | 1948 |
| 1320AG | 0.0 | On Site | 285348 210272 | Old Coal Level | 1900 |
| 1321AG | 0.0 | On Site | 285328 210258 | Old Coal Pit | 1903 |
| 1322BX | 0.0 | On Site | 284139 210397 | Colliery | 1901 |
| 1323EC | 0.0 | On Site | 283833 210404 | Old Coal Pit | 1901 |
| 1324ED | 0.0 | On Site | 283324 210868 | Air Shaft | 1948 |
| 1325ED | 0.0 | On Site | 283331 210850 | Air Shaft | 1903 |
| 1326AP | 0.0 | On Site | 281808 211693 | Unspecified Disused Levels | 1965 |
| 1327AP | 0.0 | On Site | 281842 211662 | Unspecified Old Levels | 1903 |
| 1328AP | 0.0 | On Site | 281868 211655 | Old Coal Level | 1877 |
| 1329H | 0.0 | On Site | 281888 211646 | Unspecified Old Levels | 1903 |
| 1330H | 0.0 | On Site | 281893 211637 | Old Coal Level | 1877 |
| 1331AR | 0.0 | On Site | 282141 212051 | Colliery | 1948 |
| 1332AR | 0.0 | On Site | 282141 212051 | Colliery | 1903 |
| 1333CQ | 0.0 | On Site | 282047 211976 | Old Coal Level | 1877 |
| 1334D | 0.0 | On Site | 282083 211958 | Unspecified Disused Level | 1965 |
| 1335D | 0.0 | On Site | 282124 211941 | Unspecified Old Level | 1948 |
| 1336D | 0.0 | On Site | 282168 211954 | Old Coal Level | 1877 |
| 1337AM | 0.0 | On Site | 282328 211899 | Unspecified Old Levels | 1948 |
| 1338AV | 0.0 | On Site | 282341 212059 | Unspecified Mine | 1965 |
| 1339AM | 0.0 | On Site | 282328 211908 | Unspecified Disused Levels | 1965 |
| 1340AM | 0.0 | On Site | 282362 211979 | Unspecified Disused Levels | 1965 |
| 1341AM | 0.0 | On Site | 282352 211932 | Coal Levels | 1877 |
| 1342AM | 0.0 | On Site | 282367 211948 | Coal Levels | 1877 |
| 1343AM | 0.0 | On Site | 282382 211942 | Unspecified Disused Levels | 1965 |
| 1344AS | 0.0 | On Site | 282478 212034 | Colliery | 1877 |
| 1345AM | 0.0 | On Site | 282422 211928 | Unspecified Disused Levels | 1965 |
| 1346AS | 0.0 | On Site | 282568 212004 | Colliery | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1347AS | 0.0 | On Site | 282568 212004 | Colliery | 1903 |
| 1348AM | 0.0 | On Site | 282487 211918 | Unspecified Old Levels | 1903 |
| 1349AU | 0.0 | On Site | 282506 211890 | Old Coal Level | 1877 |
| 1350AU | 0.0 | On Site | 282531 211881 | Unspecified Old Levels | 1903 |
| 1351AU | 0.0 | On Site | 282578 211838 | Unspecified Old Level | 1948 |
| 1352AY | 0.0 | On Site | 282949 211962 | Unspecified Disused Drift | 1987 |
| 1353AY | 0.0 | On Site | 282949 211962 | Unspecified Disused Drift | 1965 |
| 1354BA | 0.0 | On Site | 283137 211748 | Unspecified Disused Levels | 1965 |
| 1355BA | 0.0 | On Site | 283161 211737 | Unspecified Disused Levels | 1987 |
| 1356BA | 0.0 | On Site | 283211 211754 | Unspecified Disused Levels | 1965 |
| 1357BA | 0.0 | On Site | 283214 211752 | Unspecified Disused Levels | 1987 |
| 1358BA | 0.0 | On Site | 283263 211727 | Unspecified Disused Drift | 1987 |
| 1359BG | 0.0 | On Site | 283390 210568 | Unspecified Disused Level | 1965 |
| 1360BG | 0.0 | On Site | 283390 210568 | Unspecified Disused Level | 1987 |
| 1361EC | 0.0 | On Site | 283683 210434 | Unspecified Disused Level | 1987 |
| 1362CG | 0.0 | On Site | 283685 210341 | Unspecified Disused Shaft | 1987 |
| 1363CG | 0.0 | On Site | 283686 210336 | Unspecified Disused Level | 1965 |
| 1364AL | 0.0 | On Site | 283891 210408 | Unspecified Disused Level | 1987 |
| 1365AL | 0.0 | On Site | 283891 210408 | Unspecified Disused Level | 1965 |
| 1366Y | 0.0 | On Site | 285391 210419 | Unspecified Disused Level | 1962 |
| 1367EC | 0.0 | On Site | 283816 210446 | Unspecified Old Shaft | 1948 |
| 1368CY | 0.0 | On Site | 284270 210478 | Colliery | 1948 |
| 1369AL | 0.0 | On Site | 283841 210403 | Unspecified Old Shaft | 1948 |
| 1370BL | 0.0 | On Site | 283378 210737 | Old Coal Level | 1948 |
| 1371EC | 0.0 | On Site | 283814 210451 | Unspecified Old Shaft | 1903 |
| 1372BL | 0.0 | On Site | 283425 210758 | Coal Level | 1903 |
| 1373AL | 0.0 | On Site | 283834 210407 | Unspecified Old Shaft | 1903 |
| 1374BT | 0.0 | On Site | 283271 210143 | Old Coal Level | 1903 |
| 1375AL | 0.0 | On Site | 283834 210407 | Old Coal Pit | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1376BL | 0.0 | On Site | 283425 210758 | Old Coal Level | 1877 |
| 1377AS | 0.0 | On Site | 282552 211933 | Unspecified Drift | 1948 |
| 1378AS | 0.0 | On Site | 282462 212011 | Unspecified Drift | 1948 |
| 1379AS | 0.0 | On Site | 282556 211936 | Unspecified Drift | 1903 |
| 1380AS | 0.0 | On Site | 282560 211990 | Unspecified Drift | 1903 |
| 1381CU | 0.0 | On Site | 282421 212114 | Air Shaft | 1948 |
| 1382CU | 0.0 | On Site | 282419 212112 | Air Shaft | 1903 |
| 1383AG | 4.0 | S | 285370 210223 | Old Coal Level | 1903 |
| 1384AG | 5.0 | S | 285368 210223 | Old Coal Pit | 1900 |
| 1385DC | 5.0 | N | 283442 211991 | Unspecified Disused Drift | 1987 |
| 1386AH | 6.0 | S | 285424 210190 | Old Coal Level | 1900 |
| 1387CQ | 7.0 | NW | 281890 212030 | Old Coal Level | 1877 |
| 1388CQ | 7.0 | NW | 281890 212030 | Old Coal Level | 1903 |
| 1389CL | 9.0 | S | 283648 210226 | Old Coal Level | 1948 |
| 1390CL | 9.0 | S | 283648 210226 | Old Coal Level | 1903 |
| 1391CR | 10.0 | SE | 283424 210059 | Old Coal Level | 1901 |
| 1392AK | 11.0 | W | 284186 210339 | Air Shaft | 1948 |
| 1393CL | 20.0 | S | 283741 210237 | Old Coal Level | 1901 |
| 1394CB | 20.0 | N | 283912 210558 | Unspecified Old Level | 1948 |
| 1395AH | 37.0 | S | 285429 210179 | Old Coal Level | 1903 |
| 1396DD | 37.0 | N | 284050 210625 | Old Coal Pit | 1877 |
| 1397CU | 41.0 | NE | 282415 212173 | Unspecified Old Level | 1903 |
| 1398CV | 46.0 | NE | 285454 210446 | Unspecified Disused Level | 1977 |
| 1399CQ | 47.0 | NW | 281873 212040 | Old Coal Level | 1948 |
| 1400CU | 53.0 | NE | 282417 212185 | Old Coal Level | 1877 |
| 1401EE | 58.0 | S | 285351 210164 | Old Coal Level | 1903 |
| 1402DB | 83.0 | SE | 283845 210715 | Unspecified Old Shafts | 1903 |
| 1403DD | 84.0 | N | 284123 210683 | Disused Old Coal Pit | 1877 |
| 1404DD | 84.0 | N | 284121 210677 | Old Coal Pit | 1901 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1405D D | 85.0 | N | 284124 210677 | Unspecified Old Shaft | 1903 |
| 1406D E | 85.0 | S | 283832 210210 | Old Trial Drift | 1948 |
| 1407D E | 86.0 | S | 283784 210190 | Unspecified Drift | 1876 |
| 1408D E | 90.0 | S | 283787 210186 | Unspecified Drift | 1877 |
| 1409D D | 94.0 | N | 284128 210689 | Old Coal Shaft | 1948 |
| 1410D Y | 106.0 | NW | 281445 211821 | Unspecified Old Levels | 1903 |
| 1411D Y | 106.0 | NW | 281445 211821 | Old Ironstone Levels | 1948 |
| 1412D Y | 109.0 | NW | 281446 211821 | Old Ironstone Level | 1877 |
| 1413D N | 112.0 | NW | 281577 211923 | Unspecified Drifts | 1948 |
| 1414D B | 114.0 | N | 283961 210663 | Old Coal Pit | 1901 |
| 1415D B | 114.0 | N | 283961 210663 | Old Coal Shafts | 1948 |
| 1416D B | 114.0 | N | 283961 210663 | Unspecified Old Shafts | 1903 |
| 1417D V | 130.0 | S | 283796 210150 | Air Shaft | 1877 |
| 1418D B | 132.0 | N | 283921 210673 | Old Coal Shafts | 1948 |
| 1419C W | 134.0 | SW | 284121 210205 | Old Coal Pit | 1948 |
| 1420C W | 134.0 | SW | 284121 210205 | Old Coal Pit | 1903 |
| 1421C W | 135.0 | SW | 284119 210203 | Old Coal Pit | 1901 |
| 1422D I | 136.0 | S | 283677 210103 | Air Shaft | 1876 |
| 1423D E | 137.0 | S | 283853 210162 | Air Shaft | 1876 |
| 1424D I | 140.0 | S | 283675 210100 | Air Shaft | 1877 |
| 1425D L | 154.0 | S | 285177 210061 | Old Coal Level | 1903 |
| 1426D B | 158.0 | N | 283979 210717 | Old Coal Shafts | 1948 |
| 1427D L | 164.0 | S | 285203 210054 | Old Coal Level | 1900 |
| 1428D L | 165.0 | S | 285203 210053 | Old Coal Level | 1903 |
| 1429D Y | 172.0 | NW | 281369 211820 | Unspecified Old Levels | 1903 |
| 1430D Y | 172.0 | NW | 281369 211820 | Old Ironstone Levels | 1948 |
| 1431D Y | 176.0 | NW | 281364 211820 | Old Ironstone Level | 1877 |
| 1432D S | 176.0 | SE | 284020 210182 | Old Coal Level | 1903 |
| 1433C W | 184.0 | SW | 284077 210176 | Old Coal Level | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1434DQ | 192.0 | NW | 281505 212047 | Colliery | 1903 |
| 1435DQ | 197.0 | NW | 281522 211984 | Unspecified Drifts | 1948 |
| 1436DY | 220.0 | NW | 281301 211801 | Old Ironstone Levels | 1948 |
| 1437DY | 222.0 | NW | 281302 211799 | Old Ironstone Level | 1877 |
| 1438DV | 271.0 | S | 283878 210029 | Old Coal Drift | 1948 |
| 1439DY | 272.0 | NW | 281236 211775 | Old Ironstone Level | 1948 |
| 1440DY | 280.0 | NW | 281234 211764 | Unspecified Old Level | 1903 |
| 1441DM | 290.0 | NE | 284201 211938 | Old Ironstone Level | 1948 |
| 1442EF | 294.0 | SE | 283981 209973 | Old Coal Drift | 1901 |
| 1443EF | 295.0 | S | 283877 210002 | Air Shaft | 1876 |
| 1444EF | 298.0 | S | 283877 210000 | Air Shaft | 1877 |
| 1445EF | 319.0 | S | 283923 209995 | Old Coal Drift | 1903 |
| 1446EI | 325.0 | NE | 284245 211932 | Old Ironstone Level | 1877 |
| 1447EJ | 326.0 | NW | 280856 211254 | Disused Old Ironstone Level | 1877 |
| 1448EG | 330.0 | N | 283598 212323 | Unspecified Melin | 1948 |
| 1449EG | 330.0 | N | 283598 212323 | Unspecified Melin | 1903 |
| 1450EG | 330.0 | N | 283598 212323 | Unspecified Melin | 1877 |
| 1451EH | 343.0 | S | 283760 209911 | Air Shaft | 1876 |
| 1452EO | 343.0 | NW | 281083 211888 | Colliery | 1877 |
| 1453EH | 345.0 | S | 283760 209909 | Air Shaft | 1877 |
| 1454EK | 355.0 | S | 283959 209863 | Old Coal Level | 1901 |
| 1455EI | 355.0 | NE | 284255 211966 | Unspecified Disused Level | 1987 |
| 1456EJ | 356.0 | NW | 280876 211246 | Unspecified Old Level | 1903 |
| 1457EJ | 358.0 | NW | 280877 211248 | Disused Old Ironstone Level | 1901 |
| Not shown | 361.0 | W | 280810 211098 | Unspecified Disused Shaft | 1965 |
| Not shown | 367.0 | W | 280807 211101 | Unspecified Old Shaft | 1903 |
| Not shown | 367.0 | W | 280807 211101 | Old Ironstone Shaft | 1948 |
| 1461EI | 388.0 | NE | 284301 211959 | Unspecified Old Level | 1903 |
| 1462EK | 400.0 | S | 284121 209883 | Old Coal Level | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| Not shown | 400.0 | NW | 280585 211222 | Disused Old Ironstone Level | 1877 |
| 1464F D | 403.0 | S | 284118 209888 | Old Coal Level | 1903 |
| 1465F E | 414.0 | SE | 285766 209936 | Old Coal Level | 1948 |
| 1466E L | 466.0 | S | 285035 209739 | Old Coal Level | 1948 |
| 1467E L | 485.0 | S | 284867 209719 | Old Coal Level | 1948 |
| 1468E M | 487.0 | S | 284859 209713 | Old Coal Level | 1900 |
| 1469E M | 489.0 | S | 284863 209724 | Old Coal Level | 1903 |
| 1470E L | 498.0 | S | 285088 209698 | Old Coal Level | 1948 |
| 1471F F | 510.0 | NW | 284697 211365 | Air Shaft | 1948 |
| 1472E M | 518.0 | S | 284844 209697 | Old Coal Level | 1903 |
| Not shown | 522.0 | W | 280626 211061 | Unspecified Old Level | 1903 |
| Not shown | 522.0 | W | 280626 211061 | Old Ironstone Levels | 1948 |
| Not shown | 522.0 | W | 280626 211061 | Old Ironstone Level | 1877 |
| Not shown | 525.0 | W | 280620 211058 | Old Ironstone Level | 1901 |
| 1477E N | 529.0 | S | 282619 209661 | Old Coal Pit | 1901 |
| 1478E N | 529.0 | S | 282619 209661 | Old Coal Pit | 1948 |
| 1479E N | 529.0 | S | 282619 209661 | Old Coal Pit | 1903 |
| 1480E N | 534.0 | S | 282622 209659 | Coal Pit | 1876 |
| 1481E N | 536.0 | S | 282620 209656 | Coal Pit | 1877 |
| 1482E O | 545.0 | NW | 281008 211899 | Old Coal Shaft | 1948 |
| 1483E O | 547.0 | NW | 281004 211899 | Unspecified Old Shaft | 1903 |
| 1484E O | 549.0 | NW | 281008 211905 | Old Coal Shaft | 1877 |
| 1485E P | 551.0 | NW | 281093 212043 | Unspecified Old Level | 1903 |
| 1486E P | 551.0 | NW | 281093 212043 | Old Coal Level | 1948 |
| 1487E P | 554.0 | NW | 281090 212043 | Old Coal Level | 1877 |
| Not shown | 571.0 | W | 280573 211010 | Old Ironstone Levels | 1948 |
| 1489F G | 576.0 | NW | 281525 212450 | Air Shaft | 1877 |
| Not shown | 584.0 | W | 280492 211070 | Disused Ironstone Level | 1877 |
| Not shown | 598.0 | W | 280557 211002 | Air Shaft | 1948 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| Not shown | 598.0 | W | 280557 211002 | Air Shaft | 1903 |
| Not shown | 598.0 | W | 280557 211002 | Air Shaft | 1877 |
| 1494E Q | 612.0 | S | 284217 209688 | Old Coal Pit | 1901 |
| 1495E Q | 613.0 | S | 284220 209688 | Old Coal Pit | 1948 |
| 1496E Q | 613.0 | S | 284220 209688 | Old Coal Pit | 1903 |
| Not shown | 613.0 | W | 280506 211079 | Disused Ironstone Level | 1901 |
| 1498E R | 624.0 | NW | 280918 211914 | Unspecified Disused Level | 1987 |
| 1499E R | 658.0 | NW | 280891 211946 | Unspecified Disused Level | 1965 |
| Not shown | 662.0 | W | 280488 211030 | Unspecified Old Level | 1903 |
| 1501E R | 669.0 | NW | 280885 211936 | Unspecified Old Level | 1903 |
| 1502E R | 672.0 | NW | 280884 211938 | Old Coal Level | 1948 |
| Not shown | 703.0 | W | 280488 210727 | Unspecified Old Shaft | 1903 |
| Not shown | 703.0 | W | 280488 210727 | Old Ironstone Level | 1948 |
| Not shown | 703.0 | W | 280488 210727 | Old Ironstone Level | 1877 |
| Not shown | 704.0 | W | 280724 211670 | Old Ironstone Level | 1877 |
| Not shown | 720.0 | NW | 280637 211522 | Old Ironstone Level | 1877 |
| Not shown | 725.0 | W | 280459 210763 | Unspecified Disused Level | 1987 |
| Not shown | 737.0 | NW | 280650 211567 | Unspecified Level | 1877 |
| Not shown | 743.0 | W | 280384 210823 | Disused Ironstone Level | 1877 |
| Not shown | 754.0 | W | 280396 210846 | Old Ironstone Level | 1948 |
| Not shown | 755.0 | W | 280408 211164 | Disused Old Ironstone Level | 1901 |
| Not shown | 755.0 | W | 280407 211164 | Unspecified Old Level | 1903 |
| Not shown | 764.0 | NW | 280631 211582 | Old Ironstone Level | 1877 |
| 1515E U | 782.0 | SE | 285954 209248 | Colliery | 1948 |
| 1516E S | 788.0 | NW | 281143 212430 | Old Coal Shaft | 1948 |
| 1517E S | 788.0 | NW | 281143 212430 | Unspecified Shaft | 1903 |
| 1518E T | 801.0 | S | 282186 209202 | Colliery | 1948 |
| 1519E T | 806.0 | S | 282091 209140 | Colliery | 1901 |
| Not shown | 810.0 | NW | 280740 212048 | Unspecified Disused Level | 1987 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1521ET | 811.0 | S | 282134 209184 | Unspecified Mine | 1988 |
| 1522ET | 811.0 | S | 282134 209184 | Unspecified Mine | 1964 |
| Not shown | 814.0 | NW | 280440 211586 | Old Coal Level | 1877 |
| Not shown | 839.0 | W | 280318 210838 | Unspecified Disused Level | 1965 |
| Not shown | 840.0 | W | 280312 210836 | Unspecified Old Level | 1903 |
| Not shown | 845.0 | W | 280307 210830 | Disused Ironstone Level | 1901 |
| Not shown | 858.0 | SW | 280476 210329 | Trial Shaft | 1948 |
| Not shown | 861.0 | W | 280355 210562 | Unspecified Old Shaft | 1903 |
| Not shown | 864.0 | SW | 280469 210327 | Unspecified Disused Shaft | 1965 |
| Not shown | 864.0 | SW | 280469 210327 | Unspecified Disused Shaft | 1987 |
| 1531EU | 864.0 | SE | 285949 209246 | Unspecified Mine | 1980 |
| 1532EU | 864.0 | SE | 285949 209246 | Unspecified Mine | 1964 |
| Not shown | 865.0 | W | 280284 210911 | Unspecified Disused Level | 1965 |
| Not shown | 866.0 | W | 280279 210907 | Unspecified Old Level | 1903 |
| Not shown | 866.0 | W | 280279 210907 | Old Ironstone Level | 1948 |
| Not shown | 866.0 | W | 280279 210907 | Ironstone Level | 1877 |
| Not shown | 868.0 | SW | 280471 210323 | Trial Shaft | 1903 |
| Not shown | 870.0 | W | 280351 210566 | Old Ironstone Shaft | 1948 |
| Not shown | 873.0 | W | 280269 210904 | Ironstone Level | 1901 |
| Not shown | 874.0 | W | 280348 210567 | Unspecified Disused Shaft | 1965 |
| Not shown | 874.0 | W | 280348 210567 | Unspecified Disused Shaft | 1987 |
| Not shown | 880.0 | NW | 280425 211497 | Unspecified Old Shaft | 1903 |
| Not shown | 883.0 | NW | 280422 211495 | Old Coal Pit | 1877 |
| Not shown | 884.0 | SW | 280378 210458 | Trial Shaft | 1948 |
| Not shown | 888.0 | SW | 280371 210458 | Unspecified Disused Shaft | 1987 |
| Not shown | 888.0 | SW | 280371 210458 | Unspecified Disused Shaft | 1965 |
| Not shown | 894.0 | SW | 280370 210452 | Trial Shaft | 1903 |
| 1548EV | 899.0 | S | 285438 209317 | Air Shaft | 1903 |
| Not shown | 905.0 | W | 280312 211317 | Old Coal Level | 1877 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| Not shown | 907.0 | W | 280308 211313 | Old Coal Level | 1901 |
| 1551E V | 913.0 | S | 285393 209306 | Air Shaft | 1903 |
| 1552E V | 915.0 | S | 285393 209305 | Air Shaft | 1900 |
| Not shown | 927.0 | NW | 280577 211967 | Old Coal Level | 1948 |
| Not shown | 927.0 | NW | 280577 211967 | Unspecified Old Level | 1903 |
| Not shown | 945.0 | NW | 280670 212114 | Old Coal Levels | 1948 |
| Not shown | 952.0 | NW | 280686 212157 | Unspecified Old Levels | 1903 |
| Not shown | 955.0 | S | 285496 209269 | Air Shaft | 1903 |
| Not shown | 966.0 | S | 285424 209231 | Unspecified Level | 1876 |
| Not shown | 970.0 | S | 285887 209168 | Disused Colliery | 1900 |
| Not shown | 981.0 | NW | 280256 211438 | Old Coal Level | 1877 |
| Not shown | 982.0 | S | 282119 209172 | Coal Pit | 1877 |
| Not shown | 985.0 | NW | 280664 212182 | Unspecified Old Shaft | 1903 |
| Not shown | 985.0 | NW | 280251 211438 | Old Coal Level | 1901 |
| Not shown | 986.0 | NW | 280666 212186 | Old Coal Shaft | 1877 |
| Not shown | 988.0 | NW | 280657 212184 | Unspecified Disused Shaft | 1987 |
| Not shown | 997.0 | NW | 280608 212112 | Unspecified Old Levels | 1903 |
| Not shown | 998.0 | W | 280230 210538 | Air Shaft | 1877 |
| Not shown | 999.0 | S | 285430 209220 | Unspecified Level | 1903 |
| Not shown | 999.0 | W | 280159 211138 | Disused Air Shaft | 1965 |
| Not shown | 999.0 | W | 280159 211138 | Disused Air Shaft | 1987 |
| Not shown | 999.0 | S | 285430 209221 | Unspecified Level | 1900 |

## 4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1572AA | 0.0 | On Site | 285138 210535 | Coal, Deep | Gors Llwyn | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1573AJ | 0.0 | On Site | 285270 210381 | Coal, Deep | Gors Llwyn | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1574AO | 0.0 | On Site | 283365 211835 | Coal, Surface Mined | Cefn Byrle OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1575AG | 0.0 | On Site | 285396 210276 | Coal, Deep | Gors Llwyn | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1576 | 0.0 | On Site | 284000 211325 | Coal, Surface Mined | Nant Helen OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1577EW | 0.0 | On Site | 283385 211743 | Coal, Deep | Glynllech Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1578BB | 0.0 | On Site | 283242 211893 | Sandstone | Cefn-yr-erw | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1579BO | 0.0 | On Site | 283845 210911 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1580EX | 0.0 | On Site | 283722 211015 | Coal, Deep | Onllwyn Trial Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1581EW | 0.0 | On Site | 283211 211755 | Coal, Deep | Cefn-byrle | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1582EX | 0.0 | On Site | 283638 211016 | Coal, Deep | Onllwyn Slope | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1583G | 0.0 | On Site | 283155 211737 | Coal, Deep | Cefn-byrle | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1584AL | 0.0 | On Site | 283914 210451 | Coal, Deep | Onllwyn Slope | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1585AL | 0.0 | On Site | 283868 210398 | Coal, Deep | Drym Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1586AL | 0.0 | On Site | 283814 210451 | Coal, Deep | Drym Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1587AL | 0.0 | On Site | 283834 210402 | Coal, Deep | Drym Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1588EC | 0.0 | On Site | 283772 210411 | Coal, Deep | Drym Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1589BL | 0.0 | On Site | 283461 210779 | Coal, Deep | Cwm Mawr Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1590BL | 0.0 | On Site | 283517 210696 | Coal, Deep | Cwm Mawr Coal Workings | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1591BL | 0.0 | On Site | 283445 210781 | Coal, Deep | Cwm Mawr Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1592BL | 0.0 | On Site | 283427 210770 | Coal, Deep | Cwm Mawr Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1593EC | 0.0 | On Site | 283683 210409 | Coal, Deep | Dulais Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1594ED | 0.0 | On Site | 283331 210870 | Coal, Deep | Cwm Mawr Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1595ED | 0.0 | On Site | 283323 210868 | Coal, Deep | Cwm Mawr Air Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1596BL | 0.0 | On Site | 283381 210730 | Coal, Deep | Cwm Mawr Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1597N | 0.0 | On Site | 282906 211464 | Sandstone | Cefn-yr-erw | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1598CG | 0.0 | On Site | 283683 210333 | Coal, Deep | Onllwyn Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1599AS | 0.0 | On Site | 282592 212011 | Coal, Deep | Abercrave Middle Main | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1600AQ | 0.0 | On Site | 282736 211561 | Sandstone | Cefn-yr-erw | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1601U | 0.0 | On Site | 282550 211927 | Coal, Deep | Abercrave Black Drift | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1602AS | 0.0 | On Site | 282501 211999 | Coal, Deep | Aber-craf Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1603EY | 0.0 | On Site | 282639 211661 | Sandstone | Aber-cral Colliery | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1604U | 0.0 | On Site | 282533 211884 | Coal, Deep | Aber-craf Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1605EZ | 0.0 | On Site | 282877 211179 | Sandstone | Cwm-mawr | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1606AT | 0.0 | On Site | 282519 211768 | Sandstone | Aber-cral Colliery | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1607K | 0.0 | On Site | 282549 211530 | Sandstone | Aber-cral Colliery | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1608 | 0.0 | On Site | 282600 211400 | Coal, Surface Mined | Nant Helen OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1609U | 0.0 | On Site | 282330 211919 | Coal, Deep | Aber-craf Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1610K | 0.0 | On Site | 282470 211516 | Sandstone | Aber-cral Colliery | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1611FA | 0.0 | On Site | 281668 210916 | Sandstone | Hendre-ladis | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1612T | 0.0 | On Site | 282193 211956 | Coal, Deep | Aber-craf Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1613 | 0.0 | On Site | 281765 211500 | Coal, Surface Mined | Nant Helen OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1614BT | 0.0 | On Site | 283270 210146 | Coal, Deep | Halfway House | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1615V | 0.0 | On Site | 281836 211649 | Coal, Deep | Llwyn-llafrad | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1616V | 0.0 | On Site | 281874 211669 | Coal, Deep | Llwyn-llafrad | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1617B | 0.0 | On Site | 282017 211780 | Sandstone | Aber-cral Colliery | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1618J | 0.0 | On Site | 282168 211488 | Sandstone | Aber-cral Colliery | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1619AN | 0.0 | On Site | 282203 211649 | Coal, Deep | Aber-cral Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1620AR | 0.0 | On Site | 282106 212011 | Coal, Deep | Aber-craf Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1621 | 0.0 | On Site | 282465 211240 | Coal, Surface Mined | Nant Helen Extension Surface Coal Mine | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1622CO | 2.0 | S | 285363 210228 | Coal, Deep | Gors Llwyn | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1623AK | 12.0 | W | 284178 210370 | Coal, Deep | Onllwyn Colliery, No. 1 Drift | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1624CK | 16.0 | NE | 285076 210809 | Sandstone | Gors Llwyn | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1625CG | 31.0 | N | 283496 210283 | Coal, Deep | Onllwyn Trial Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1626BC | 37.0 | SE | 283831 210265 | Coal, Deep | Onllwyn Trial Drift | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1627CO | 40.0 | S | 285423 210184 | Coal, Deep | Gors Llwyn | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1628BC | 42.0 | S | 283752 210229 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1629CQ | 50.0 | NW | 281885 212046 | Coal, Deep | Llwyn-llafrad | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1630CP | 51.0 | N | 283903 210577 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1631CV | 53.0 | NE | 285457 210447 | Coal, Deep | Llwyn-pica | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1632BC | 59.0 | S | 283813 210234 | Coal, Deep | Onllwyn Colliery Fan Drift | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1633BX | 60.0 | W | 284148 210311 | Coal, Deep | Onllwyn Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1634CU | 61.0 | NE | 282412 212192 | Coal, Deep | Cae-Hopkin | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1635CJ | 70.0 | N | 283700 210590 | Coal, Surface Mined | Onllwyn OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1636DE | 86.0 | S | 283719 210171 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1637CT | 86.0 | SE | 284460 210260 | Sandstone | Rhos-y-gelynen Quarries | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1638DB | 87.0 | SE | 283841 210717 | Clay & Shale | Onllwyn Clay Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1639CT | 93.0 | S | 284431 210239 | Coal, Deep | Rhos-y-gelynen Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1640CN | 94.0 | S | 284638 210222 | Sandstone | Rhos-y-gelynen Quarries | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1641FB | 97.0 | N | 284122 210686 | Coal, Deep | Halfway House | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1642BK | 97.0 | S | 284577 210232 | Sandstone | Rhos-y-gelynen Quarries | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1643DE | 98.0 | S | 283788 210183 | Coal, Deep | Onllwyn Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1644CP | 116.0 | N | 283962 210662 | Coal, Deep | Onllwyn Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1645DK | 123.0 | NW | 284342 210940 | Sand & Gravel | Onllwyn Gravel Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1646CW | 135.0 | S | 284289 210184 | Sandstone | Onllwyn Inn Quarry | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1647CR | 139.0 | S | 283477 210062 | Coal, Deep | Onllwyn Four Feet | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1648CW | 139.0 | SW | 284119 210202 | Coal, Deep | Onllwyn Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1649DI | 141.0 | S | 283679 210102 | Coal, Deep | Onllwyn Air Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1650DL | 158.0 | S | 285178 210063 | Coal, Deep | Gors Llwyn | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1651DG | 158.0 | NW | 281441 211844 | Ironstone | Llwyn-llafrad | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1652EI | 170.0 | NE | 284066 211888 | Ironstone | Cefn-y-byrle | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1653CW | 179.0 | S | 284212 210125 | Sandstone | Onllwyn Inn Quarry | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1654DS | 181.0 | SE | 284024 210198 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1655DS | 188.0 | SW | 284079 210173 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1656DS | 202.0 | SE | 284025 210175 | Sandstone | Onllwyn Quarry | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1657DJ | 212.0 | N | 282414 212347 | Sandstone | Cae-Hopkin | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1658DG | 212.0 | NW | 281362 211832 | Ironstone | Llwyn-llafrad | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1659 | 218.0 | NW | 281635 212083 | Sandstone | Llwyn-llafrad | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1660CW | 225.0 | SW | 284114 210103 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1661FC | 242.0 | N | 282417 212377 | Sandstone | Cae-Hopkin | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1662EF | 279.0 | S | 283892 210029 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1663DY | 289.0 | NW | 281239 211782 | Ironstone | Llwyn-llafrad | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1664EF | 301.0 | S | 283879 210000 | Coal, Deep | Onllwyn Air Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1665 | 306.0 | N | 282425 212440 | Sandstone | Ty-mawr | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1666EI | 326.0 | NE | 284243 211927 | Ironstone | Cefn-y-byrle Ironstone Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1667DY | 356.0 | NW | 281143 211750 | Sandstone | Gwaun-ton | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1668 | 357.0 | NE | 284356 211810 | Ironstone | Cefn-y-byrle | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

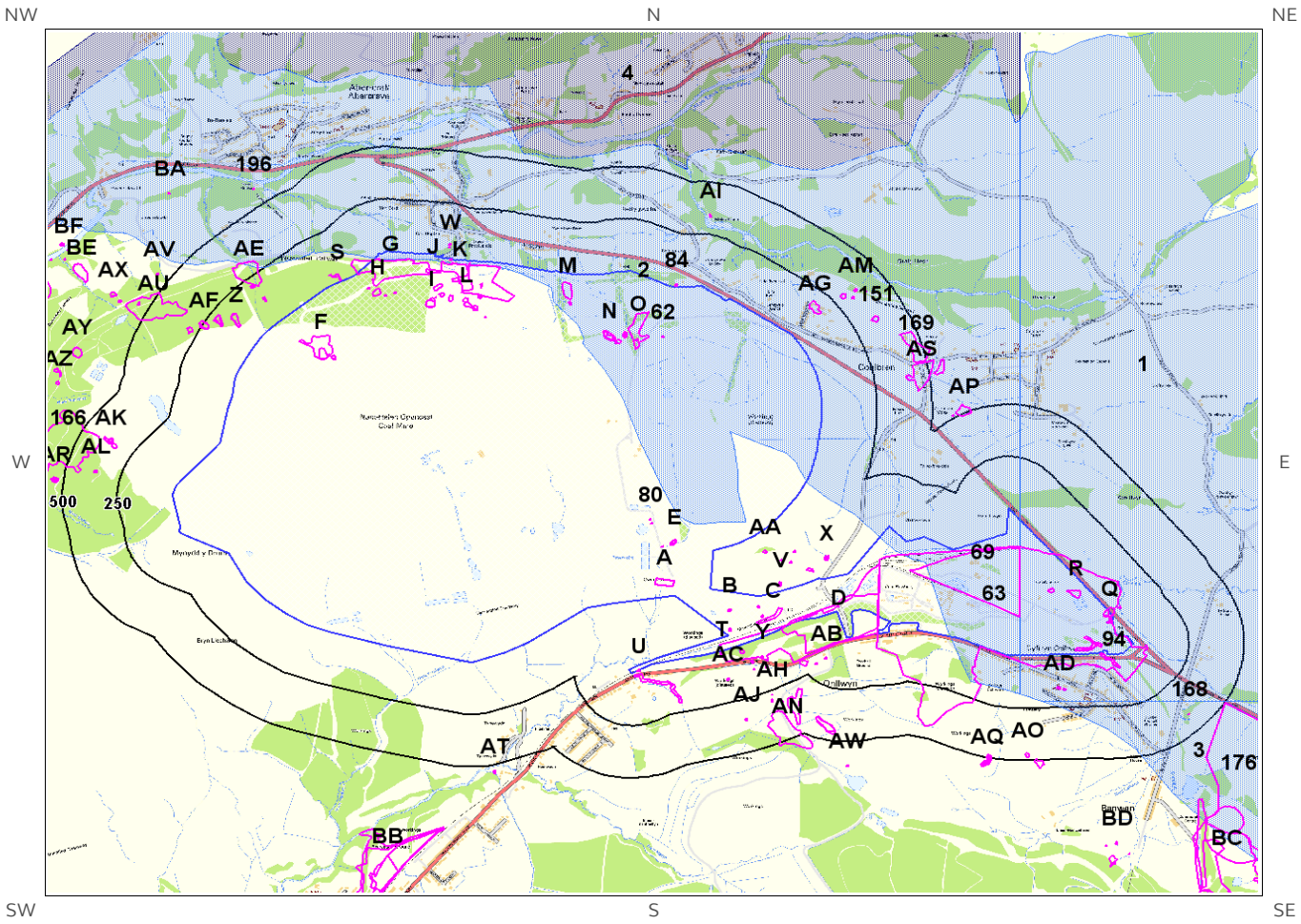
| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1669DY | 359.0 | NW | 281205 211862 | Sandstone | Gwaun-y-clawdd | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1670EJ | 362.0 | NW | 280880 211241 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1671EJ | 366.0 | NW | 280850 211200 | Coal, Surface Mined | Nant Helen Remainder Surface Coal Mine | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Inactive |
| Not shown | 371.0 | W | 280806 211104 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1673FD | 393.0 | S | 284134 209919 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1674 | 394.0 | W | 281050 211600 | Coal, Surface Mined | Gwaunton OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1675FH | 409.0 | E | 284498 211553 | Ironstone | Pen-y-graig | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1676FE | 413.0 | SE | 285760 209937 | Coal, Deep | Coedcae | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1677DY | 430.0 | NW | 281112 211845 | Sandstone | Gwaun-ton | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1678 | 435.0 | E | 284482 211717 | Ironstone | Pen-y-graig | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1679FD | 444.0 | SE | 284000 209895 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1680 | 471.0 | W | 280944 211480 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1681EP | 483.0 | NW | 281175 212032 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1682FD | 486.0 | S | 284142 209823 | Coal, Deep | Onllwyn Level | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1683 | 489.0 | NW | 281005 211772 | Sandstone | Gwaun-ton | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 1684EN | 501.0 | S | 282574 209687 | Coal, Deep | Ty-newydd | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1685FF | 515.0 | N | 284756 211398 | Ironstone | Pen-y-graig | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1686EL | 528.0 | S | 284839 209702 | Coal, Deep | Blaen-Nantcellwen | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1687EL | 528.0 | S | 285090 209690 | Sandstone | Blaen-Nantcellwen | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1688FG | 538.0 | NW | 281589 212442 | Coal, Deep | Llwyn-Turnor | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 541.0 | W | 280623 211065 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1690FH | 554.0 | E | 284640 211586 | Ironstone | Pen-y-graig | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1691 | 555.0 | W | 280905 211688 | Sandstone | Gwaun-ton | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1692EO | 558.0 | NW | 281007 211919 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1693 | 583.0 | S | 283916 209713 | Sandstone | Onllwyn Quarry | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1694EQ | 610.0 | S | 284215 209694 | Coal, Deep | Onllwyn Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 616.0 | W | 280580 211200 | Clay & Shale | Penrhos Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 1696ER | 672.0 | NW | 280894 211951 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 673.0 | W | 280490 211069 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 703.0 | NW | 280623 211468 | Ironstone | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| Not shown | 712.0 | W | 280737 211657 | Ironstone | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 724.0 | W | 280473 210721 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 727.0 | NW | 280630 211514 | Ironstone | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 730.0 | W | 280458 210768 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 745.0 | W | 280436 211169 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 757.0 | NW | 280628 211555 | Ironstone | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 761.0 | W | 280686 211649 | Sandstone | Gwaun-ton | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 789.0 | NW | 280632 211606 | Ironstone | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 1707ES | 793.0 | NW | 281138 212429 | Coal, Deep | Plas-y-ddol | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 831.0 | NW | 280470 211471 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 847.0 | NW | 280686 211935 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 859.0 | W | 280310 210842 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 865.0 | SW | 280469 210334 | Ironstone | Blaen-nant-teg | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| Not shown | 870.0 | W | 280355 210572 | Sandstone | Blaen-nant-teg | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 875.0 | NW | 280768 212136 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 878.0 | NW | 280730 212079 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 879.0 | W | 280281 210913 | Ironstone | Hendre-ladis | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 882.0 | W | 280342 210572 | Ironstone | Blaen-nant-teg | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 912.0 | SW | 280350 210460 | Ironstone | Blaen-nant-teg | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 923.0 | W | 280579 211878 | Coal, Deep | Little London | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 995.0 | NW | 280665 212197 | Coal, Deep | Gwaun-ton | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 998.0 | S | 285416 209224 | Coal, Deep | Pant-y-ddraenen | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

# 5 Mining, Extraction & Natural Cavities map




**Mining, Extraction and Natural Cavities Legend**

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Site Outline

250
500
Search Buffers (m)

Historical Mining

Non-Coal Mining Cavities

Natural Cavities (point data)

Natural Cavities (polygon data)

Non-Coal Mining

Highly likely

Likely

Unlikely

Highly unlikely

Rare

# 5 Mining, Extraction & Natural Cavities

## 5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 5A | 0.0 | On Site | 283390 210568 | Unspecified Disused Level | 1965 |
| 6A | 0.0 | On Site | 283390 210568 | Unspecified Disused Level | 1987 |
| 7E | 0.0 | On Site | 283429 210759 | Old Coal Level | 1901 |
| 8B | 0.0 | On Site | 283683 210434 | Unspecified Disused Level | 1987 |
| 9B | 0.0 | On Site | 283685 210341 | Unspecified Disused Shaft | 1987 |
| 10B | 0.0 | On Site | 283686 210336 | Unspecified Disused Level | 1965 |
| 11C | 0.0 | On Site | 283891 210408 | Unspecified Disused Level | 1987 |
| 12C | 0.0 | On Site | 283891 210408 | Unspecified Disused Level | 1965 |
| 13C | 0.0 | On Site | 283833 210404 | Old Coal Pit | 1901 |
| 14D | 0.0 | On Site | 284139 210397 | Colliery | 1901 |
| 15C | 0.0 | On Site | 283816 210446 | Unspecified Old Shaft | 1948 |
| 16D | 0.0 | On Site | 284270 210478 | Colliery | 1948 |
| 17C | 0.0 | On Site | 283841 210403 | Unspecified Old Shaft | 1948 |
| 18E | 0.0 | On Site | 283378 210737 | Old Coal Level | 1948 |
| 19C | 0.0 | On Site | 283814 210451 | Unspecified Old Shaft | 1903 |
| 20E | 0.0 | On Site | 283425 210758 | Coal Level | 1903 |
| 21C | 0.0 | On Site | 283834 210407 | Unspecified Old Shaft | 1903 |
| 22U | 0.0 | On Site | 283271 210143 | Old Coal Level | 1903 |
| 23C | 0.0 | On Site | 283834 210407 | Old Coal Pit | 1877 |
| 24E | 0.0 | On Site | 283425 210758 | Old Coal Level | 1877 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 25F | 0.0 | On Site | 281808 211693 | Unspecified Disused Levels | 1965 |
| 26F | 0.0 | On Site | 281842 211662 | Unspecified Old Levels | 1903 |
| 27F | 0.0 | On Site | 281868 211655 | Old Coal Level | 1877 |
| 28F | 0.0 | On Site | 281888 211646 | Unspecified Old Levels | 1903 |
| 29F | 0.0 | On Site | 281893 211637 | Old Coal Level | 1877 |
| 30G | 0.0 | On Site | 282141 212051 | Colliery | 1948 |
| 31G | 0.0 | On Site | 282141 212051 | Colliery | 1903 |
| 32G | 0.0 | On Site | 282047 211976 | Old Coal Level | 1877 |
| 33H | 0.0 | On Site | 282083 211958 | Unspecified Disused Level | 1965 |
| 34H | 0.0 | On Site | 282124 211941 | Unspecified Old Level | 1948 |
| 35H | 0.0 | On Site | 282168 211954 | Old Coal Level | 1877 |
| 36I | 0.0 | On Site | 282328 211899 | Unspecified Old Levels | 1948 |
| 37J | 0.0 | On Site | 282341 212059 | Unspecified Mine | 1965 |
| 38I | 0.0 | On Site | 282328 211908 | Unspecified Disused Levels | 1965 |
| 39J | 0.0 | On Site | 282362 211979 | Unspecified Disused Levels | 1965 |
| 40I | 0.0 | On Site | 282352 211932 | Coal Levels | 1877 |
| 41I | 0.0 | On Site | 282367 211948 | Coal Levels | 1877 |
| 42I | 0.0 | On Site | 282382 211942 | Unspecified Disused Levels | 1965 |
| 43K | 0.0 | On Site | 282478 212034 | Colliery | 1877 |
| 44I | 0.0 | On Site | 282422 211928 | Unspecified Disused Levels | 1965 |
| 45K | 0.0 | On Site | 282568 212004 | Colliery | 1948 |
| 46K | 0.0 | On Site | 282568 212004 | Colliery | 1903 |
| 47L | 0.0 | On Site | 282487 211918 | Unspecified Old Levels | 1903 |
| 48L | 0.0 | On Site | 282506 211890 | Old Coal Level | 1877 |
| 49L | 0.0 | On Site | 282531 211881 | Unspecified Old Levels | 1903 |
| 50L | 0.0 | On Site | 282578 211838 | Unspecified Old Level | 1948 |
| 51M | 0.0 | On Site | 282949 211962 | Unspecified Disused Drift | 1987 |
| 52M | 0.0 | On Site | 282949 211962 | Unspecified Disused Drift | 1965 |
| 53N | 0.0 | On Site | 283137 211748 | Unspecified Disused Levels | 1965 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 54N | 0.0 | On Site | 283139 211746 | Unspecified Old Levels | 1903 |
| 55N | 0.0 | On Site | 283161 211737 | Unspecified Disused Levels | 1987 |
| 56N | 0.0 | On Site | 283168 211718 | Old Coal Levels | 1948 |
| 57N | 0.0 | On Site | 283211 211754 | Unspecified Disused Levels | 1965 |
| 58N | 0.0 | On Site | 283209 211740 | Unspecified Old Level | 1903 |
| 59N | 0.0 | On Site | 283214 211752 | Unspecified Disused Levels | 1987 |
| 60O | 0.0 | On Site | 283279 211732 | Colliery | 1948 |
| 61O | 0.0 | On Site | 283263 211727 | Unspecified Disused Drift | 1987 |
| 62 | 0.0 | On Site | 283382 211742 | Coal Shaft | 1948 |
| 63 | 0.0 | On Site | 284964 210308 | Colliery | 1948 |
| 64P | 0.0 | On Site | 285348 210272 | Old Coal Level | 1900 |
| 65P | 0.0 | On Site | 285328 210258 | Old Coal Pit | 1903 |
| 66P | 0.0 | On Site | 285402 210270 | Old Coal Level | 1903 |
| 67Q | 0.0 | On Site | 285404 210409 | Old Coal Level | 1948 |
| 68Q | 0.0 | On Site | 285391 210419 | Unspecified Disused Level | 1962 |
| 69 | 0.0 | On Site | 284751 210569 | Opencast Workings | 1987 |
| 70R | 0.0 | On Site | 285244 210511 | Old Coal Level | 1903 |
| 71R | 0.0 | On Site | 285142 210529 | Old Coal Level | 1900 |
| 72N | 0.0 | On Site | 283183 211721 | Air Shaft | 1903 |
| 73M | 0.0 | On Site | 282961 211903 | Unspecified Drift | 1948 |
| 74K | 0.0 | On Site | 282560 211990 | Unspecified Drift | 1903 |
| 75L | 0.0 | On Site | 282556 211936 | Unspecified Drift | 1903 |
| 76L | 0.0 | On Site | 282552 211933 | Unspecified Drift | 1948 |
| 77K | 0.0 | On Site | 282462 212011 | Unspecified Drift | 1948 |
| 78J | 0.0 | On Site | 282421 212114 | Air Shaft | 1948 |
| 79J | 0.0 | On Site | 282419 212112 | Air Shaft | 1903 |
| 80 | 0.0 | On Site | 283324 210868 | Air Shaft | 1948 |
| 81E | 0.0 | On Site | 283331 210850 | Air Shaft | 1903 |
| 82P | 4.0 | S | 285370 210223 | Old Coal Level | 1903 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 83P | 5.0 | S | 285368 210223 | Old Coal Pit | 1900 |
| 84 | 5.0 | N | 283442 211991 | Unspecified Disused Drift | 1987 |
| 85P | 6.0 | S | 285424 210190 | Old Coal Level | 1900 |
| 86S | 7.0 | NW | 281890 212030 | Old Coal Level | 1877 |
| 87S | 7.0 | NW | 281890 212030 | Old Coal Level | 1903 |
| 88T | 9.0 | S | 283648 210226 | Old Coal Level | 1948 |
| 89T | 9.0 | S | 283648 210226 | Old Coal Level | 1903 |
| 90U | 10.0 | SE | 283424 210059 | Old Coal Level | 1901 |
| 91D | 11.0 | W | 284186 210339 | Air Shaft | 1948 |
| 92T | 20.0 | S | 283741 210237 | Old Coal Level | 1901 |
| 93V | 20.0 | N | 283912 210558 | Unspecified Old Level | 1948 |
| 94 | 37.0 | S | 285429 210179 | Old Coal Level | 1903 |
| 95V | 37.0 | N | 284050 210625 | Old Coal Pit | 1877 |
| 96W | 41.0 | NE | 282415 212173 | Unspecified Old Level | 1903 |
| 97Q | 46.0 | NE | 285454 210446 | Unspecified Disused Level | 1977 |
| 98S | 47.0 | NW | 281873 212040 | Old Coal Level | 1948 |
| 99W | 53.0 | NE | 282417 212185 | Old Coal Level | 1877 |
| 100P | 58.0 | S | 285351 210164 | Old Coal Level | 1903 |
| 101AA | 83.0 | SE | 283845 210715 | Unspecified Old Shafts | 1903 |
| 102X | 84.0 | N | 284123 210683 | Disused Old Coal Pit | 1877 |
| 103X | 84.0 | N | 284121 210677 | Old Coal Pit | 1901 |
| 104X | 85.0 | N | 284124 210677 | Unspecified Old Shaft | 1903 |
| 105Y | 85.0 | S | 283832 210210 | Old Trial Drift | 1948 |
| 106Y | 86.0 | S | 283784 210190 | Unspecified Drift | 1876 |
| 107T | 90.0 | S | 283787 210186 | Unspecified Drift | 1877 |
| 108X | 94.0 | N | 284128 210689 | Old Coal Shaft | 1948 |
| 109Z | 106.0 | NW | 281445 211821 | Unspecified Old Levels | 1903 |
| 110Z | 106.0 | NW | 281445 211821 | Old Ironstone Levels | 1948 |
| 111Z | 109.0 | NW | 281446 211821 | Old Ironstone Level | 1877 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 112Z | 112.0 | NW | 281577 211923 | Unspecified Drifts | 1948 |
| 113AA | 114.0 | N | 283961 210663 | Old Coal Pit | 1901 |
| 114AA | 114.0 | N | 283961 210663 | Old Coal Shafts | 1948 |
| 115AA | 114.0 | N | 283961 210663 | Unspecified Old Shafts | 1903 |
| 116Y | 130.0 | S | 283796 210150 | Air Shaft | 1877 |
| 117AA | 132.0 | N | 283921 210673 | Old Coal Shafts | 1948 |
| 118AB | 134.0 | SW | 284121 210205 | Old Coal Pit | 1948 |
| 119AB | 134.0 | SW | 284121 210205 | Old Coal Pit | 1903 |
| 120AB | 135.0 | SW | 284119 210203 | Old Coal Pit | 1901 |
| 121AC | 136.0 | S | 283677 210103 | Air Shaft | 1876 |
| 122AC | 137.0 | S | 283853 210162 | Air Shaft | 1876 |
| 123AC | 140.0 | S | 283675 210100 | Air Shaft | 1877 |
| 124AG | 145.0 | NE | 284074 211883 | Old Ironstone Quarry | 1877 |
| 125AD | 154.0 | S | 285177 210061 | Old Coal Level | 1903 |
| 126AA | 158.0 | N | 283979 210717 | Old Coal Shafts | 1948 |
| 127AD | 164.0 | S | 285203 210054 | Old Coal Level | 1900 |
| 128AD | 165.0 | S | 285203 210053 | Old Coal Level | 1903 |
| 129Z | 172.0 | NW | 281369 211820 | Unspecified Old Levels | 1903 |
| 130Z | 172.0 | NW | 281369 211820 | Old Ironstone Levels | 1948 |
| 131Z | 176.0 | NW | 281364 211820 | Old Ironstone Level | 1877 |
| 132AB | 176.0 | SE | 284020 210182 | Old Coal Level | 1903 |
| 133AB | 184.0 | SW | 284077 210176 | Old Coal Level | 1948 |
| 134AE | 192.0 | NW | 281505 212047 | Colliery | 1903 |
| 135AE | 197.0 | NW | 281522 211984 | Unspecified Drifts | 1948 |
| 136Z | 220.0 | NW | 281301 211801 | Old Ironstone Levels | 1948 |
| 137AF | 222.0 | NW | 281302 211799 | Old Ironstone Level | 1877 |
| 138AH | 271.0 | S | 283878 210029 | Old Coal Drift | 1948 |
| 139AF | 272.0 | NW | 281236 211775 | Old Ironstone Level | 1948 |
| 140AF | 280.0 | NW | 281234 211764 | Unspecified Old Level | 1903 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 141AG | 290.0 | NE | 284201 211938 | Old Ironstone Level | 1948 |
| 142AH | 294.0 | SE | 283981 209973 | Old Coal Drift | 1901 |
| 143AH | 295.0 | S | 283877 210002 | Air Shaft | 1876 |
| 144AH | 298.0 | S | 283877 210000 | Air Shaft | 1877 |
| 145AH | 319.0 | S | 283923 209995 | Old Coal Drift | 1903 |
| 146AG | 325.0 | NE | 284245 211932 | Old Ironstone Level | 1877 |
| 147AK | 326.0 | NW | 280856 211254 | Disused Old Ironstone Level | 1877 |
| 148AI | 330.0 | N | 283598 212323 | Unspecified Melin | 1903 |
| 149AI | 330.0 | N | 283598 212323 | Unspecified Melin | 1877 |
| 150AI | 330.0 | N | 283598 212323 | Unspecified Melin | 1948 |
| 151 | 339.0 | NE | 284345 211829 | Old Ironstone Quarry | 1877 |
| 152AJ | 343.0 | S | 283760 209911 | Air Shaft | 1876 |
| 153AU | 343.0 | NW | 281083 211888 | Colliery | 1877 |
| 154AJ | 345.0 | S | 283760 209909 | Air Shaft | 1877 |
| 155AN | 355.0 | S | 283959 209863 | Old Coal Level | 1901 |
| 156AM | 355.0 | NE | 284255 211966 | Unspecified Disused Level | 1987 |
| 157AK | 356.0 | NW | 280876 211246 | Unspecified Old Level | 1903 |
| 158AK | 358.0 | NW | 280877 211248 | Disused Old Ironstone Level | 1901 |
| 159AL | 361.0 | W | 280810 211098 | Unspecified Disused Shaft | 1965 |
| 160AL | 366.0 | W | 280805 211095 | Old Ironstone Pit | 1901 |
| 161AL | 367.0 | W | 280807 211101 | Unspecified Old Shaft | 1903 |
| 162AL | 367.0 | W | 280807 211101 | Old Ironstone Shaft | 1948 |
| 163AM | 388.0 | NE | 284301 211959 | Unspecified Old Level | 1903 |
| 164AS | 395.0 | E | 284548 211557 | Old Ironstone Quarry | 1877 |
| 165AN | 400.0 | S | 284121 209883 | Old Coal Level | 1948 |
| 166 | 400.0 | NW | 280585 211222 | Disused Old Ironstone Level | 1877 |
| 167AN | 403.0 | S | 284118 209888 | Old Coal Level | 1903 |
| 168 | 414.0 | SE | 285766 209936 | Old Coal Level | 1948 |
| 169 | 425.0 | E | 284523 211693 | Old Ironstone Quarry | 1877 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 170AO | 466.0 | S | 285035 209739 | Old Coal Level | 1948 |
| 171AO | 485.0 | S | 284867 209719 | Old Coal Level | 1948 |
| 172AQ | 487.0 | S | 284859 209713 | Old Coal Level | 1900 |
| 173AO | 489.0 | S | 284863 209724 | Old Coal Level | 1903 |
| 174AP | 491.0 | N | 284747 211392 | Old Ironstone Quarry | 1877 |
| 175AO | 498.0 | S | 285088 209698 | Old Coal Level | 1948 |
| 176 | 501.0 | SE | 286806 209361 | Opencast Workings | 1981 |
| 177AP | 510.0 | NW | 284697 211365 | Air Shaft | 1948 |
| 178AQ | 518.0 | S | 284844 209697 | Old Coal Level | 1903 |
| 179AR | 522.0 | W | 280626 211061 | Unspecified Old Level | 1903 |
| 180AR | 522.0 | W | 280626 211061 | Old Ironstone Levels | 1948 |
| 181AR | 522.0 | W | 280626 211061 | Old Ironstone Level | 1877 |
| 182AS | 522.0 | E | 284635 211598 | Old Ironstone Quarry | 1877 |
| 183AR | 525.0 | W | 280620 211058 | Old Ironstone Level | 1901 |
| 184AT | 529.0 | S | 282619 209661 | Old Coal Pit | 1901 |
| 185AT | 529.0 | S | 282619 209661 | Old Coal Pit | 1948 |
| 186AT | 529.0 | S | 282619 209661 | Old Coal Pit | 1903 |
| 187AT | 534.0 | S | 282622 209659 | Coal Pit | 1876 |
| 188AT | 536.0 | S | 282620 209656 | Coal Pit | 1877 |
| 189AU | 545.0 | NW | 281008 211899 | Old Coal Shaft | 1948 |
| 190AU | 547.0 | NW | 281004 211899 | Unspecified Old Shaft | 1903 |
| 191AU | 549.0 | NW | 281008 211905 | Old Coal Shaft | 1877 |
| 192AV | 551.0 | NW | 281093 212043 | Unspecified Old Level | 1903 |
| 193AV | 551.0 | NW | 281093 212043 | Old Coal Level | 1948 |
| 194AV | 554.0 | NW | 281090 212043 | Old Coal Level | 1877 |
| Not shown | 571.0 | W | 280573 211010 | Old Ironstone Levels | 1948 |
| 196 | 576.0 | NW | 281525 212450 | Air Shaft | 1877 |
| Not shown | 584.0 | W | 280492 211070 | Disused Ironstone Level | 1877 |
| Not shown | 598.0 | W | 280557 211002 | Air Shaft | 1948 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| Not shown | 598.0 | W | 280557 211002 | Air Shaft | 1903 |
| Not shown | 598.0 | W | 280557 211002 | Air Shaft | 1877 |
| 201AW | 612.0 | S | 284217 209688 | Old Coal Pit | 1901 |
| 202AW | 613.0 | S | 284220 209688 | Old Coal Pit | 1948 |
| 203AW | 613.0 | S | 284220 209688 | Old Coal Pit | 1903 |
| Not shown | 613.0 | W | 280506 211079 | Disused Ironstone Level | 1901 |
| 205AU | 624.0 | NW | 280918 211914 | Unspecified Disused Level | 1987 |
| 206AX | 658.0 | NW | 280891 211946 | Unspecified Disused Level | 1965 |
| Not shown | 662.0 | W | 280488 211030 | Unspecified Old Level | 1903 |
| 208AX | 669.0 | NW | 280885 211936 | Unspecified Old Level | 1903 |
| 209AX | 672.0 | NW | 280884 211938 | Old Coal Level | 1948 |
| Not shown | 703.0 | W | 280488 210727 | Unspecified Old Shaft | 1903 |
| Not shown | 703.0 | W | 280488 210727 | Old Ironstone Level | 1948 |
| Not shown | 703.0 | W | 280488 210727 | Old Ironstone Level | 1877 |
| 213AY | 704.0 | W | 280724 211670 | Old Ironstone Level | 1877 |
| Not shown | 707.0 | W | 280485 210722 | Disused Ironstone Pit | 1901 |
| Not shown | 709.0 | W | 280477 210713 | Disused Ironstone Pit | 1877 |
| 216AZ | 720.0 | NW | 280637 211522 | Old Ironstone Level | 1877 |
| Not shown | 725.0 | W | 280459 210763 | Unspecified Disused Level | 1987 |
| 218AY | 737.0 | NW | 280650 211567 | Unspecified Level | 1877 |
| Not shown | 743.0 | W | 280384 210823 | Disused Ironstone Level | 1877 |
| Not shown | 754.0 | W | 280396 210846 | Old Ironstone Level | 1948 |
| Not shown | 755.0 | W | 280408 211164 | Disused Old Ironstone Level | 1901 |
| Not shown | 755.0 | W | 280407 211164 | Unspecified Old Level | 1903 |
| 223AZ | 764.0 | NW | 280631 211582 | Old Ironstone Level | 1877 |
| 224BC | 782.0 | SE | 285954 209248 | Colliery | 1948 |
| 225BA | 788.0 | NW | 281143 212430 | Old Coal Shaft | 1948 |
| 226BA | 788.0 | NW | 281143 212430 | Unspecified Shaft | 1903 |
| 227BB | 801.0 | S | 282186 209202 | Colliery | 1948 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 228BB | 806.0 | S | 282091 209140 | Colliery | 1901 |
| 229BE | 810.0 | NW | 280740 212048 | Unspecified Disused Level | 1987 |
| 230BB | 811.0 | S | 282134 209184 | Unspecified Mine | 1988 |
| 231BB | 811.0 | S | 282134 209184 | Unspecified Mine | 1964 |
| Not shown | 814.0 | NW | 280440 211586 | Old Coal Level | 1877 |
| Not shown | 839.0 | W | 280318 210838 | Unspecified Disused Level | 1965 |
| Not shown | 840.0 | W | 280312 210836 | Unspecified Old Level | 1903 |
| Not shown | 845.0 | W | 280307 210830 | Disused Ironstone Level | 1901 |
| Not shown | 858.0 | SW | 280476 210329 | Trial Shaft | 1948 |
| Not shown | 861.0 | W | 280355 210562 | Unspecified Old Shaft | 1903 |
| Not shown | 864.0 | SW | 280469 210327 | Unspecified Disused Shaft | 1965 |
| Not shown | 864.0 | SW | 280469 210327 | Unspecified Disused Shaft | 1987 |
| 240BC | 864.0 | SE | 285949 209246 | Unspecified Mine | 1980 |
| 241BC | 864.0 | SE | 285949 209246 | Unspecified Mine | 1964 |
| Not shown | 865.0 | W | 280284 210911 | Unspecified Disused Level | 1965 |
| Not shown | 866.0 | W | 280279 210907 | Unspecified Old Level | 1903 |
| Not shown | 866.0 | W | 280279 210907 | Old Ironstone Level | 1948 |
| Not shown | 866.0 | W | 280279 210907 | Ironstone Level | 1877 |
| Not shown | 868.0 | SW | 280471 210323 | Trial Shaft | 1903 |
| Not shown | 869.0 | W | 280357 210562 | Disused Ironstone Pit | 1901 |
| Not shown | 870.0 | W | 280351 210566 | Old Ironstone Shaft | 1948 |
| Not shown | 873.0 | W | 280269 210904 | Ironstone Level | 1901 |
| Not shown | 874.0 | W | 280348 210567 | Unspecified Disused Shaft | 1987 |
| Not shown | 874.0 | W | 280348 210567 | Unspecified Disused Shaft | 1965 |
| Not shown | 876.0 | W | 280345 210570 | Disused Ironstone Pit | 1877 |
| Not shown | 880.0 | NW | 280425 211497 | Unspecified Old Shaft | 1903 |
| Not shown | 883.0 | NW | 280422 211495 | Old Coal Pit | 1877 |
| Not shown | 884.0 | SW | 280378 210458 | Trial Shaft | 1948 |
| Not shown | 888.0 | SW | 280371 210458 | Unspecified Disused Shaft | 1965 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| Not shown | 888.0 | SW | 280371 210458 | Unspecified Disused Shaft | 1987 |
| Not shown | 894.0 | SW | 280370 210452 | Trial Shaft | 1903 |
| 259BD | 899.0 | S | 285438 209317 | Air Shaft | 1903 |
| Not shown | 905.0 | W | 280312 211317 | Old Coal Level | 1877 |
| Not shown | 907.0 | W | 280308 211313 | Old Coal Level | 1901 |
| 262BD | 913.0 | S | 285393 209306 | Air Shaft | 1903 |
| 263BD | 915.0 | S | 285393 209305 | Air Shaft | 1900 |
| 264BE | 927.0 | NW | 280577 211967 | Unspecified Old Level | 1903 |
| 265BE | 927.0 | NW | 280577 211967 | Old Coal Level | 1948 |
| 266BE | 945.0 | NW | 280670 212114 | Old Coal Levels | 1948 |
| 267BF | 952.0 | NW | 280686 212157 | Unspecified Old Levels | 1903 |
| 268BD | 955.0 | S | 285496 209269 | Air Shaft | 1903 |
| 269BD | 966.0 | S | 285424 209231 | Unspecified Level | 1876 |
| 270BC | 970.0 | S | 285887 209168 | Disused Colliery | 1900 |
| Not shown | 981.0 | NW | 280256 211438 | Old Coal Level | 1877 |
| 272BB | 982.0 | S | 282119 209172 | Coal Pit | 1877 |
| 273BF | 985.0 | NW | 280664 212182 | Unspecified Old Shaft | 1903 |
| Not shown | 985.0 | NW | 280251 211438 | Old Coal Level | 1901 |
| 275BF | 986.0 | NW | 280666 212186 | Old Coal Shaft | 1877 |
| 276BF | 988.0 | NW | 280657 212184 | Unspecified Disused Shaft | 1987 |
| 277BE | 997.0 | NW | 280608 212112 | Unspecified Old Levels | 1903 |
| Not shown | 998.0 | W | 280230 210538 | Air Shaft | 1877 |
| 279BD | 999.0 | S | 285430 209220 | Unspecified Level | 1903 |
| Not shown | 999.0 | W | 280159 211138 | Disused Air Shaft | 1965 |
| Not shown | 999.0 | W | 280159 211138 | Disused Air Shaft | 1987 |
| 282BD | 999.0 | S | 285430 209221 | Unspecified Level | 1900 |

## 5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

The following Coal Mining information provided by the Coal Authority is not represented on Mapping:

| Distance (m) | Direction | Details |
|---|---|---|
| 0.0 | On Site | The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority |

## 5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

## 5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

| ID | Distance (m) | Direction | Name | Commodity | Assessment of likelihood |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |
| 2 | 0.0 | On Site | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |
| 3 | 219.0 | S | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |
| 4 | 535.0 | N | Not available | Vein Mineral | Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered |

## 5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

## 5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

## 5.7 Brine Extraction

This data provides information from the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.9 Cornwall and Devon Metalliferous Mining

This dataset provides information on metalliferous mining areas in Cornwall/Devon and is derived from records held by Mining Searches UK.

Are there any Cornwall and Devon Metalliferous Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.10 Clay Mining

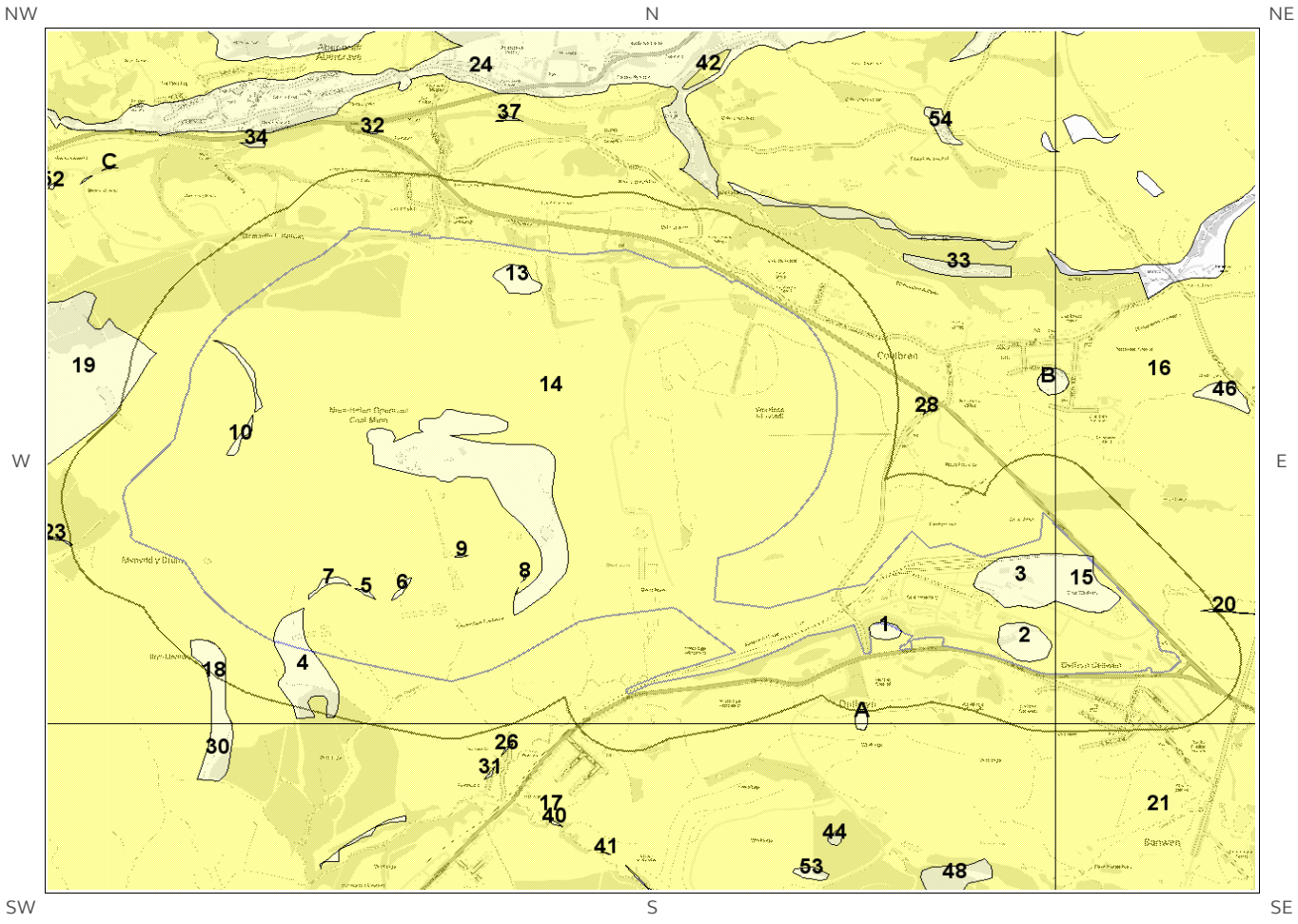
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

# 6 Natural Ground Subsidence

## 6.1 Shrink-Swell Clay map

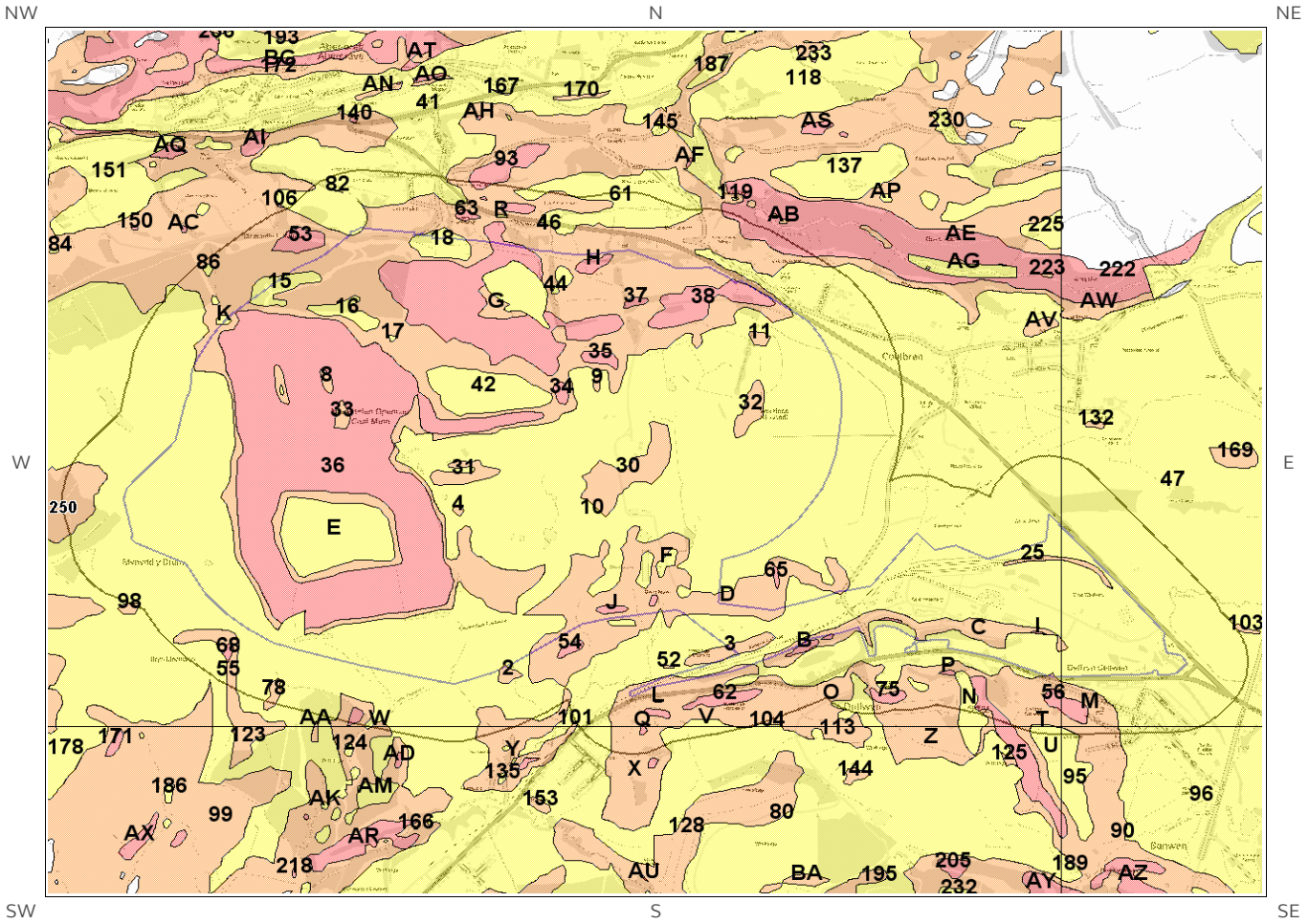



**Shrink Swell Clay Legend**

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# 6.2 Landslides map




**Landslides Legend**

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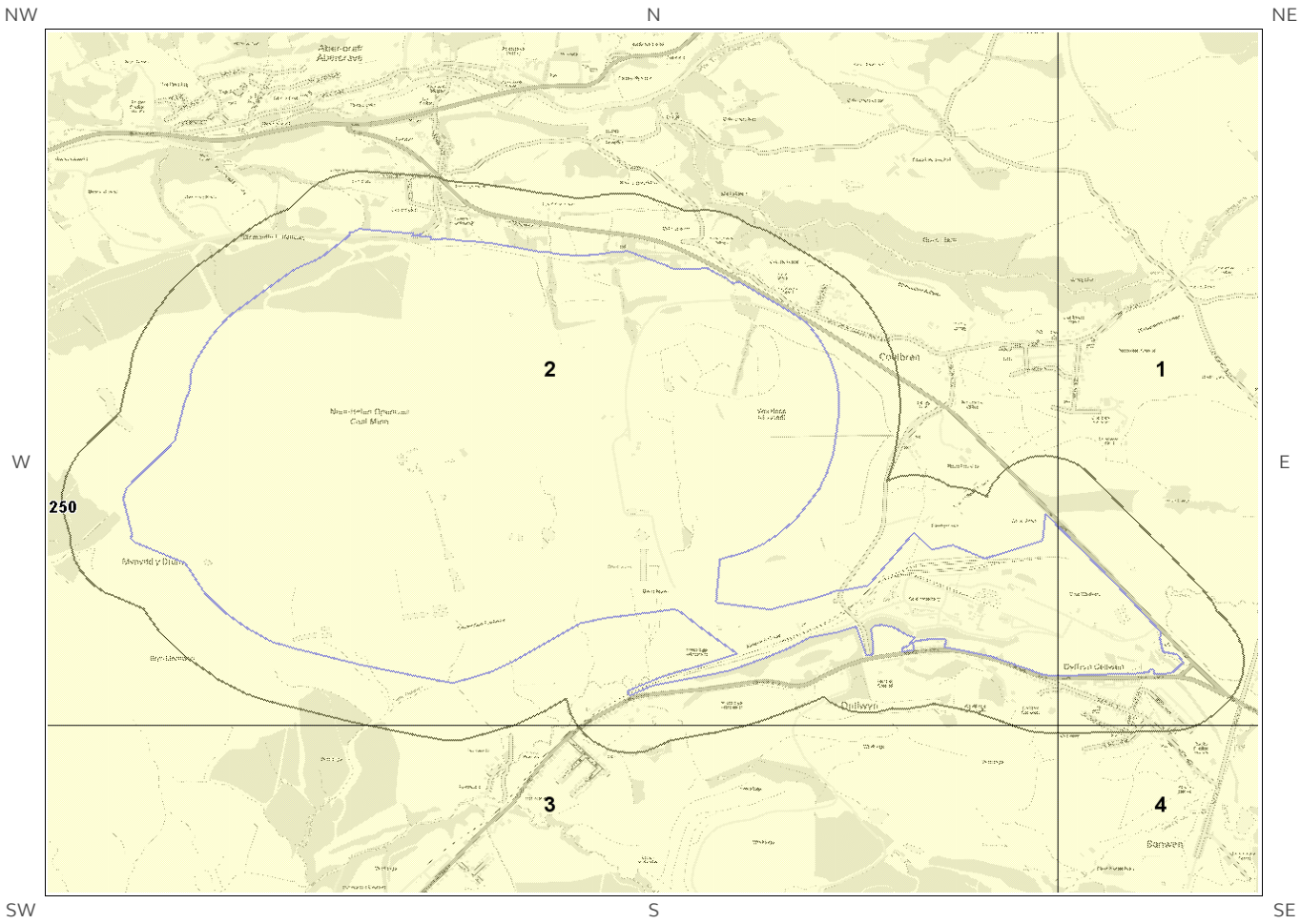
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

# 6.3 Ground Dissolution of Soluble Rocks map

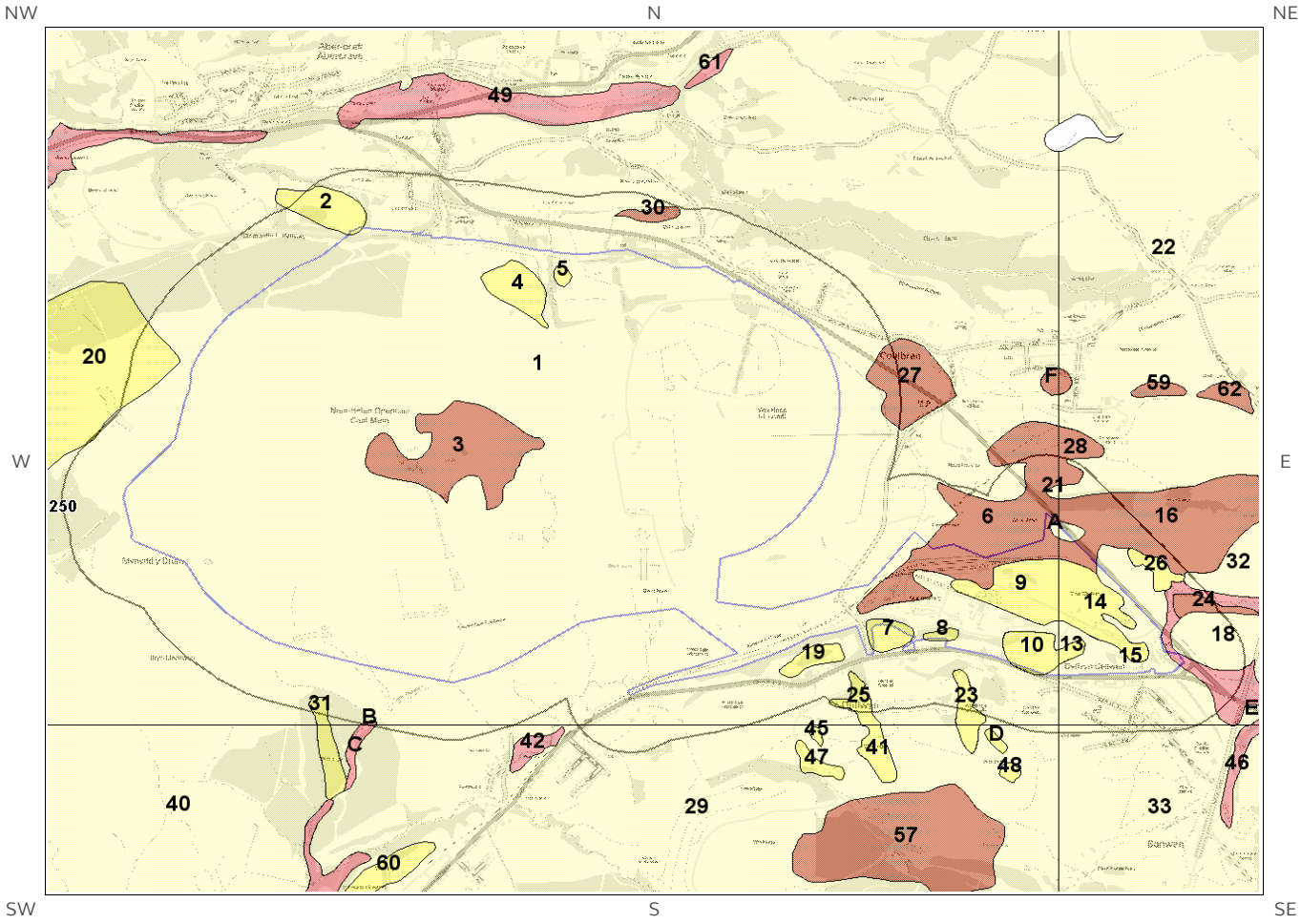



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**Ground Dissolution Soluble Rocks Legend**



# 6.4 Compressible Deposits map

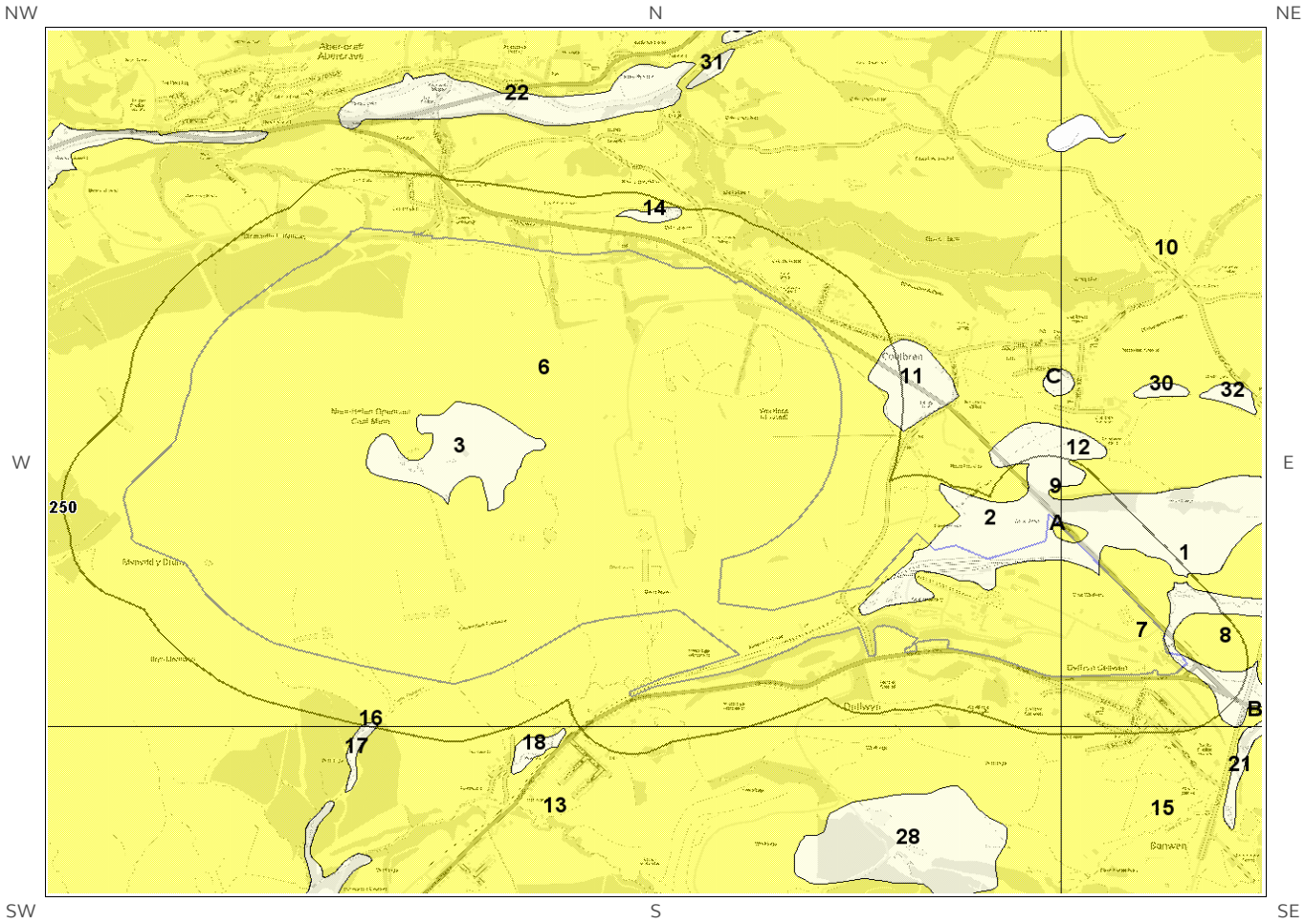



**Compressible Deposits Legend**

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# 6.5 Collapsible Deposits map

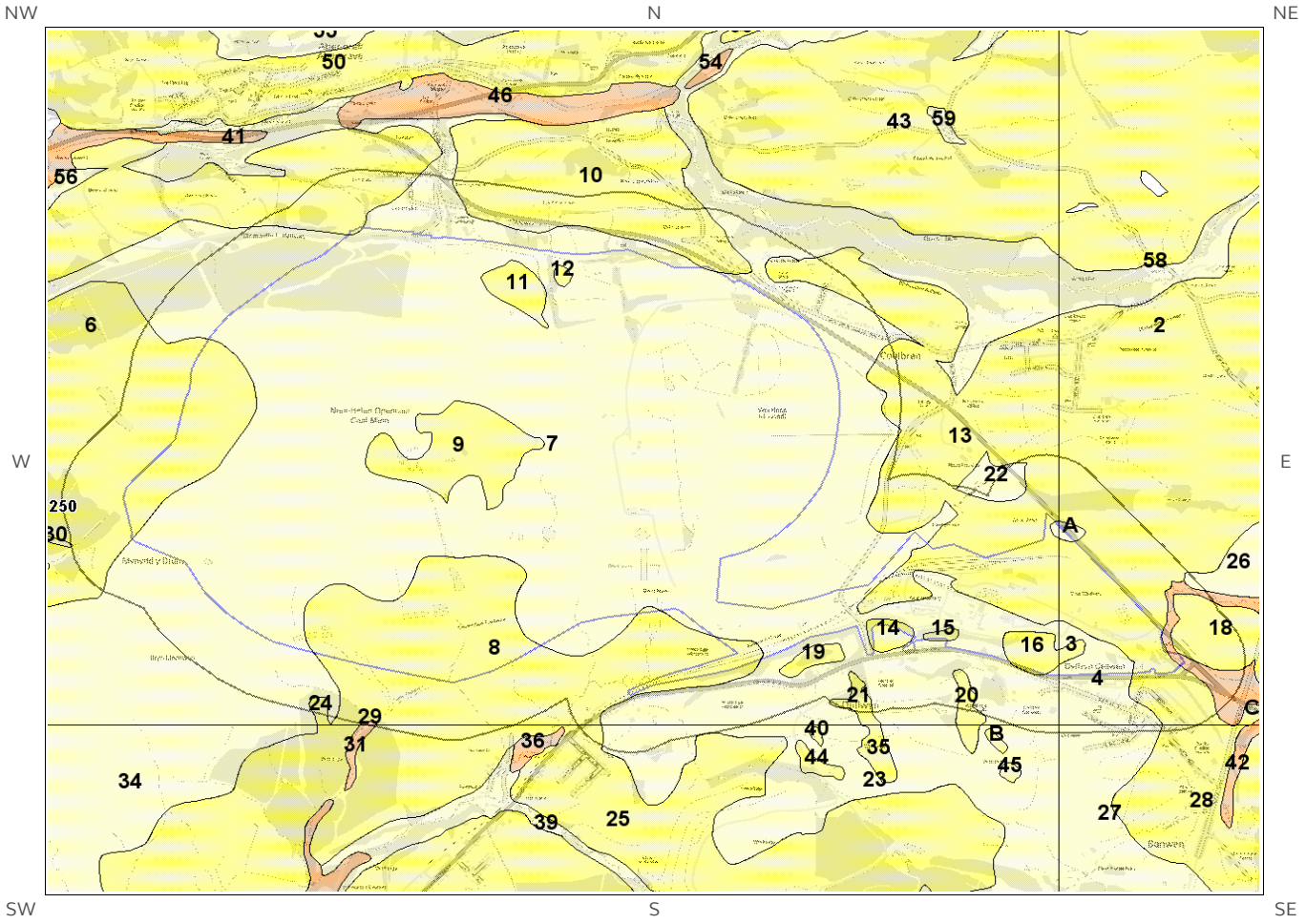



**Collapsible Deposits Legend**

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# 6.6 Running Sand map




**Running Sand Legend**

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# 6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site*[*] boundary? High

## 6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 2 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 3 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 4 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 5 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |

* This includes an automatically generated 50m buffer zone around the site

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 6 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 7 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 8 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 9 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 10 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 11 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 12 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 13 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 14 | 0.0 | On Site | Very Low | Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 15 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 16 | 0.0 | On Site | Very Low | Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

## 6.2 Landslides

The following Landslides information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1O | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 2 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 3 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 4 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 5C | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 6D | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 7A | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 8 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 9 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 10 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 11 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 12G | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 13K | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 14A | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 15 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 16 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 17 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 18 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 19B | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 20B | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 21I | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 22C | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 23J | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 24D | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 25 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 26E | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 27F | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 28E | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 29F | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 30 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 31 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 32 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 33 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 34 | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 35 | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 36 | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 37 | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 38 | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 39H | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 40G | 0.0 | On Site | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 41 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 42 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 43G | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 44 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 45H | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 46 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 47 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 48I | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 49 | 0.0 | On Site | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 50J | 5.0 | S | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 51M | 20.0 | S | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 52 | 27.0 | N | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 53 | 36.0 | NW | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 54 | 43.0 | SE | Moderate | Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |
| 55 | 47.0 | SW | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |

## 6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |
| 2 | 0.0 | On Site | Negligible | Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

## 6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 2 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 3 | 0.0 | On Site | High | Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly. |
| 4 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 5 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 6 | 0.0 | On Site | High | Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly. |
| 7 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 8 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 9 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 10 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 11A | 0.0 | On Site | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 12A | 0.0 | On Site | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 13 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 14 | 0.0 | On Site | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 15 | 0.0 | On Site | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 16 | 0.0 | On Site | High | Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly. |
| 17 | 0.0 | On Site | Moderate | Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly. |
| 18 | 4.0 | NE | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |
| 19 | 36.0 | SE | Very Low | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

## 6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 2 | 0.0 | On Site | Negligible | No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 3 | 0.0 | On Site | Negligible | No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 4A | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 5A | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 6 | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 7 | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 8 | 4.0 | NE | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

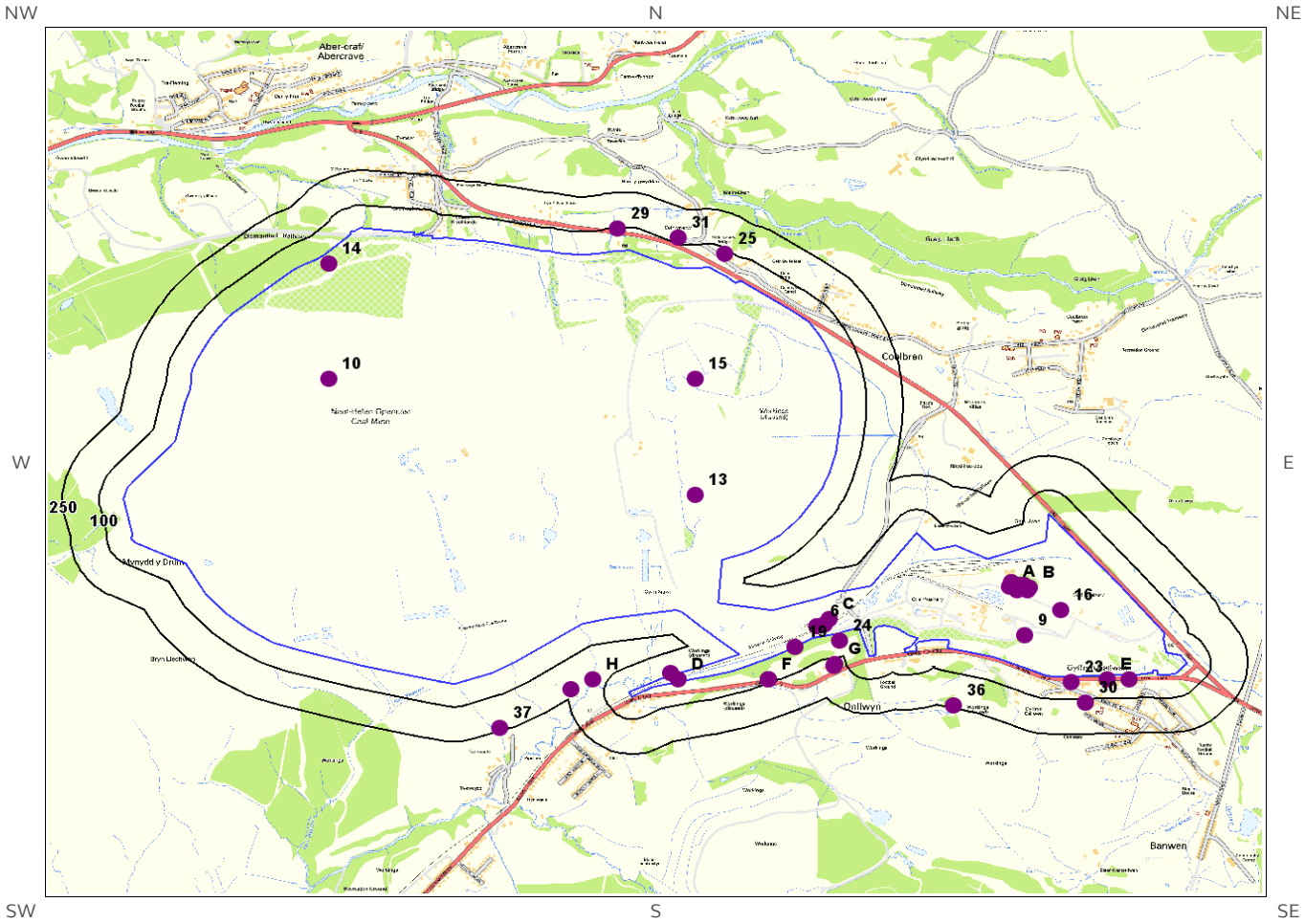
## 6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1A | 0.0 | On Site | Negligible | No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 2 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 3 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 4 | 0.0 | On Site | Negligible | No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 5 | 0.0 | On Site | Low | Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely. |
| 6 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 7 | 0.0 | On Site | Negligible | No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 8 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 9 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 10 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 11 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 12 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 13 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 14 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 15 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 16 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 17A | 0.0 | On Site | Negligible | No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 18 | 4.0 | NE | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 19 | 36.0 | SE | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

# 7 Borehole Records map




**Borehole Records Legend**

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Site Outline

Borehole Locations

125
250
Search Buffers (m)

# 7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 37

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 1D | 0.0 | On Site | 283430 210200 | SN81SW11 | 15.85 | YSTRADGYNLAIS-ONLLWYN ROAD 41 |
| 2C | 0.0 | On Site | 284050 210460 | SN81SW39 | 1.5 | NANT HELEN O C C S TP3 |
| 3B | 0.0 | On Site | 284869 210600 | SN81SW35 | 22 | ONLLWYN 7 |
| 4A | 0.0 | On Site | 284787 210602 | SN81SW30 | 30 | ONLLWYN 2 |
| 5A | 0.0 | On Site | 284813 210603 | SN81SW32 | 24 | ONLLWYN 4 |
| 6 | 0.0 | On Site | 284000 210430 | SN81SW37 | 1.9 | NANT HELEN O C C S TP1 |
| 7A | 0.0 | On Site | 284795 210621 | SN81SW29 | 25.55 | ONLLWYN 1 |
| 8B | 0.0 | On Site | 284824 210610 | SN81SW33 | 24 | ONLLWYN 5 |
| 9 | 0.0 | On Site | 284850 210390 | SN81SW19 | 45.11 | ONLLWYN TIP. ON10 |
| 10 | 0.0 | On Site | 282000 211500 | SN81SW2 | Not Available | ABERCRAVE, 579 |
| 11C | 0.0 | On Site | 284030 210440 | SN81SW38 | 2 | NANT HELEN O C C S TP2 |
| 12B | 0.0 | On Site | 284862 210586 | SN81SW36 | 23 | ONLLWYN 8 |
| 13 | 0.0 | On Site | 283500 211000 | SN81SW1 | Not Available | ONLLWYN, O/C SITE. 070402 |
| 14 | 0.0 | On Site | 282000 212000 | SN81SW28 | Not Available | ABERCRAVE & INTERNATIONAL COLLIERY |
| 15 | 0.0 | On Site | 283500 211500 | SN81SW5 | Not Available | CEFN BYRLE, 880 |
| 16 | 0.0 | On Site | 285000 210500 | SN81SE1 | Not Available | LLWYND PCA, 547 |
| 17A | 0.0 | On Site | 284845 210609 | SN81SW34 | 24 | ONLLWYN 6 |
| 18A | 0.0 | On Site | 284818 210585 | SN81SW31 | 24 | ONLLWYN 3 |
| 19 | 2.0 | SE | 283910 210340 | SN81SW20 | 24.38 | ONLLWYN TIP. ON11 |
| 20D | 10.0 | N | 283400 210230 | SN81SW10 | 14.63 | YSTRADGYNLAIS-ONLLWYN ROAD 40 |
| 21E | 21.0 | S | 285190 210200 | SN81SE5 | 4 | DYFFRYN CELLWEN NEATH L2 |
| 22E | 23.0 | S | 285280 210200 | SN81SE6 | 4 | DYFFRYN CELLWEN NEATH L3 |

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 23 | 27.0 | S | 285040 210190 | SN81SE4 | 5 | DYFFRYN CELLWEN NEATH L1 |
| 24 | 31.0 | S | 284090 210370 | SN81SW17 | 23.16 | ONLLWYN TIP. ON7 |
| 25 | 78.0 | NE | 283620 212040 | SN81SW42 | Not Available | COELBEREN SEWER RELIEF TP 3 |
| 26F | 86.0 | S | 283800 210200 | SN81SW43 | Not Available | DRYM PIT ONLLWYN |
| 27F | 86.0 | S | 283800 210200 | SN81SW46 | Not Available | DRYM TRIAL PIT ONLLWYN |
| 28F | 86.0 | S | 283800 210200 | SN81SW47 | Not Available | CROSS MEASURE DRIFT, ONLLWYN NO.1 COLLIERY |
| 29 | 93.0 | N | 283180 212150 | SN81SW40 | Not Available | COELBEREN SEWER RELIEF TP 1 |
| 30 | 119.0 | S | 285100 210100 | SN81SE2 | Not Available | CELLWN, 404 |
| 31 | 121.0 | N | 283430 212110 | SN81SW41 | Not Available | COELBEREN SEWER RELIEF TP 2 |
| 32G | 129.0 | S | 284073 210268 | SN81SW12 | 24.38 | ONLLWYN TIP. ON1 |
| 33G | 137.0 | S | 284070 210260 | SN81SW13 | 9.14 | ONLLWYN TIP. ON1A |
| 34H | 157.0 | W | 283080 210200 | SN81SW9 | 7.62 | YSTRADGYNLAIS-ONLLWYN ROAD 39 |
| 35H | 218.0 | SE | 282990 210160 | SN81SW8 | 7.62 | YSTRADGYNLAIS-ONLLWYN ROAD 38 |
| 36 | 239.0 | S | 284560 210090 | SN81SW16 | 15.54 | ONLLWYN TIP. ON4 |
| 37 | 240.0 | S | 282700 209990 | SN80NW29 | 7.77 | YSTRADGYNLAIS-ONLLWYN RD 37 |

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1D: scans.bgs.ac.uk/sobi_scans/boreholes/258497
#2C: scans.bgs.ac.uk/sobi_scans/boreholes/258525
#3B: scans.bgs.ac.uk/sobi_scans/boreholes/258521
#4A: scans.bgs.ac.uk/sobi_scans/boreholes/258516
#5A: scans.bgs.ac.uk/sobi_scans/boreholes/258518
#6: scans.bgs.ac.uk/sobi_scans/boreholes/258523
#7A: scans.bgs.ac.uk/sobi_scans/boreholes/258515
#8B: scans.bgs.ac.uk/sobi_scans/boreholes/258519
#9: scans.bgs.ac.uk/sobi_scans/boreholes/258505
#10: scans.bgs.ac.uk/sobi_scans/boreholes/258488
#11C: scans.bgs.ac.uk/sobi_scans/boreholes/258524
#12B: scans.bgs.ac.uk/sobi_scans/boreholes/258522
#13: scans.bgs.ac.uk/sobi_scans/boreholes/258487
#14: scans.bgs.ac.uk/sobi_scans/boreholes/258514
#15: scans.bgs.ac.uk/sobi_scans/boreholes/258491
#16: scans.bgs.ac.uk/sobi_scans/boreholes/258479
#17A: scans.bgs.ac.uk/sobi_scans/boreholes/258520
#18A: scans.bgs.ac.uk/sobi_scans/boreholes/258517
#19: scans.bgs.ac.uk/sobi_scans/boreholes/258506
#20D: scans.bgs.ac.uk/sobi_scans/boreholes/258496
#21E: scans.bgs.ac.uk/sobi_scans/boreholes/258483
#22E: scans.bgs.ac.uk/sobi_scans/boreholes/258484
#23: scans.bgs.ac.uk/sobi_scans/boreholes/258482
#24: scans.bgs.ac.uk/sobi_scans/boreholes/258503
#26F: scans.bgs.ac.uk/sobi_scans/boreholes/258529
#27F: scans.bgs.ac.uk/sobi_scans/boreholes/258532
#28F: scans.bgs.ac.uk/sobi_scans/boreholes/258533
#30: scans.bgs.ac.uk/sobi_scans/boreholes/258480
#32G: scans.bgs.ac.uk/sobi_scans/boreholes/258498
#33G: scans.bgs.ac.uk/sobi_scans/boreholes/258499
#34H: scans.bgs.ac.uk/sobi_scans/boreholes/258495
#35H: scans.bgs.ac.uk/sobi_scans/boreholes/258494
#36: scans.bgs.ac.uk/sobi_scans/boreholes/258502
#37: scans.bgs.ac.uk/sobi_scans/boreholes/258113

# 8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary: 142

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

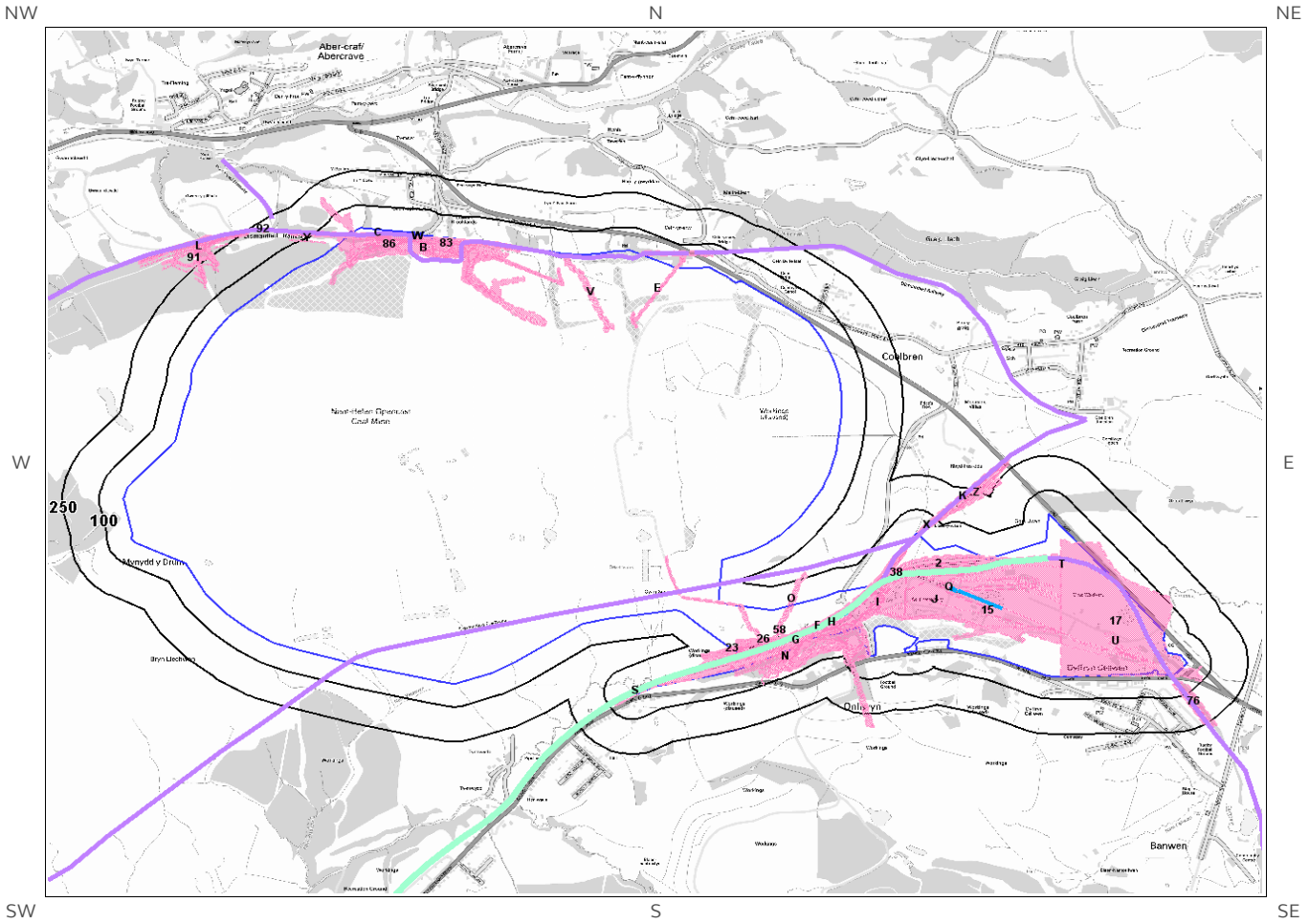
| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|---|---|
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | 1.8 - 2.2 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 45 - 60 mg/kg | 1.8 - 2.2 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 45 - 60 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | 1.8 - 2.2 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | 1.8 - 2.2 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 2.2 - 3.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |

| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|---|---|
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 2.2 - 3.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 45 - 60 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | 2.2 - 3.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |

| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|---|---|
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 45 - 60 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 2.2 - 3.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 1.8 - 2.2 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 45 - 60 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 1.0 | SE | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 4.0 | NE | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 7.0 | NE | Sediment | 35 - 45 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 8.0 | SE | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 10.0 | N | Sediment | 35 - 45 mg/kg | 1.8 - 2.2 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 10.0 | NW | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 11.0 | SE | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 13.0 | N | Sediment | 35 - 45 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 13.0 | NE | Sediment | 45 - 60 mg/kg | 3.0 - 6.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 14.0 | N | Sediment | 35 - 45 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 16.0 | N | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 16.0 | N | Sediment | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 20.0 | N | Sediment | 35 - 45 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 47.0 | SW | Sediment | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

# 9 Railways and Tunnels map




**Railways and Tunnels Legend**

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- Site Outline
- Search Buffers (m) — 250 — 500
- Underground or Partially Underground Railway / Subway System
- Railway Tunnel (OS Mapping)
- Abandoned or Dismantled Railway (OpenStreetMap)
- Railway Track (OS Mapping)
- Railway Track (OpenStreetMap)
- High Speed 2
- High Speed 2 Revised Proposed Route
- Crossrail 1
- Railway and/or Tunnel Feature from Historical Mapping

# 9 Railways and Tunnels

## 9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 1K | 0 | On Site | 284576 210960 | Railway Sidings | 1921 |
| 2 | 0 | On Site | 284430 210683 | Railway Sidings | 1921 |
| 3A | 0 | On Site | 282203 212067 | Railway Sidings | 1921 |
| 4B | 0 | On Site | 282086 211994 | Railway Sidings | 1921 |
| 5A | 0 | On Site | 282130 212064 | Railway Sidings | 1914 |
| 6B | 0 | On Site | 282570 211973 | Railway Sidings | 1948 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 7B | 0 | On Site | 282096 212030 | Railway Sidings | 1903 |
| 8C | 0 | On Site | 282184 212125 | Railway Sidings | 1921 |
| 9C | 0 | On Site | 282193 212121 | Railway Sidings | 1914 |
| 10W | 0 | On Site | 282374 212107 | Railway Sidings | 1877 |
| 11D | 0 | On Site | 282592 211920 | Railway Sidings | 1965 |
| 12D | 0 | On Site | 282562 211966 | Tramway Sidings | 1921 |
| 13 | 0 | On Site | 282564 211961 | Tramway Sidings | 1914 |
| 14V | 0 | On Site | 283067 211864 | Tramway Sidings | 1903 |
| 15 | 0 | On Site | 284385 210466 | Railway Sidings | 1948 |
| 16U | 0 | On Site | 285233 210356 | Railway Sidings | 1977 |
| 17 | 0 | On Site | 285289 210506 | Railway Sidings | 1962 |
| 18E | 0 | On Site | 283353 211886 | Tramway Sidings | 1921 |
| 19E | 0 | On Site | 283349 211880 | Tramway Sidings | 1914 |
| 20 | 0 | On Site | 283357 211892 | Tramway Sidings | 1921 |
| 21R | 0 | On Site | 283553 210544 | Tramway Sidings | 1903 |
| 22P | 0 | On Site | 283571 210272 | Railway Sidings | 1921 |
| 23 | 0 | On Site | 283646 210326 | Railway Sidings | 1921 |
| 24F | 0 | On Site | 284042 210395 | Railway Sidings | 1948 |
| 25O | 0 | On Site | 283894 210537 | Tramway Sidings | 1903 |
| 26 | 0 | On Site | 283783 210366 | Railway Sidings | 1921 |
| 27F | 0 | On Site | 284179 210511 | Railway Sidings | 1914 |
| 28F | 0 | On Site | 284179 210511 | Railway Sidings | 1914 |
| 29G | 0 | On Site | 283803 210354 | Railway Sidings | 1921 |
| 30F | 0 | On Site | 284145 210479 | Railway Sidings | 1921 |
| 31G | 0 | On Site | 283858 210398 | Railway Sidings | 1921 |
| 32H | 0 | On Site | 284138 210479 | Railway Sidings | 1903 |
| 33F | 0 | On Site | 284075 210469 | Railway Sidings | 1901 |
| 34N | 0 | On Site | 283897 210309 | Railway Sidings | 1876 |
| 35H | 0 | On Site | 284121 210503 | Railway Sidings | 1877 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 36M | 0 | On Site | 283877 210338 | Railway Sidings | 1921 |
| 37H | 0 | On Site | 284133 210491 | Railway Sidings | 1921 |
| 38 | 0 | On Site | 284325 210649 | Railway Sidings | 1901 |
| 39J | 0 | On Site | 284163 210461 | Mineral Railway Sidings | 1987 |
| 40I | 0 | On Site | 284249 210525 | Railway Sidings | 1921 |
| 41I | 0 | On Site | 284261 210529 | Railway Sidings | 1921 |
| 42J | 0 | On Site | 283953 210369 | Railway Sidings | 1965 |
| 52M | 0 | On Site | 284071 210381 | Tramway Sidings | 1904 |
| 53N | 0 | On Site | 283871 210292 | Railway Sidings | 1877 |
| 54F | 0 | On Site | 283982 210408 | Railway Sidings | 1961 |
| 55F | 0 | On Site | 283979 210408 | Mineral Railway Sidings | 1984 |
| 56N | 0 | On Site | 283835 210307 | Railway Sidings | 1961 |
| 57H | 0 | On Site | 284116 210510 | Railway Sidings | 1904 |
| 58 | 0 | On Site | 283847 210405 | Railway Sidings | 1918 |
| 59F | 0 | On Site | 284168 210505 | Railway Sidings | 1918 |
| 60I | 0 | On Site | 284202 210566 | Mineral Railway Sidings | 1962 |
| 61O | 0 | On Site | 283894 210532 | Tramway Sidings | 1904 |
| 62P | 0 | On Site | 283584 210268 | Railway Sidings | 1996 |
| 63Q | 0 | On Site | 284538 210568 | Mineral Railway Sidings | 1997 |
| 64J | 0 | On Site | 284569 210569 | Mineral Railway Sidings | 1986 |
| 65Q | 0 | On Site | 284116 210365 | Mineral Railway Sidings | 1962 |
| 66R | 0 | On Site | 283555 210542 | Tramway Sidings | 1904 |
| 67S | 0 | On Site | 283249 210143 | Mineral Railway Sidings | 1986 |
| 68S | 0 | On Site | 283249 210143 | Mineral Railway Sidings | 1984 |
| 69S | 0 | On Site | 283266 210151 | Railway Sidings | 1961 |
| 70T | 0 | On Site | 285005 210686 | Railway Sidings | 1989 |
| 71T | 0 | On Site | 285005 210688 | Railway Sidings | 1978 |
| 72T | 0 | On Site | 285005 210688 | Railway Sidings | 1989 |
| 73U | 0 | On Site | 285225 210347 | Mineral Railway Sidings | 1978 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 74U | 0 | On Site | 285227 210348 | Mineral Railway Sidings | 1989 |
| 75U | 0 | On Site | 285227 210348 | Mineral Railway Sidings | 1919 |
| 76 | 0 | On Site | 285533 210113 | Mineral Railway Sidings | 1905 |
| 77E | 0 | On Site | 283350 211885 | Tramway Sidings | 1962 |
| 78V | 0 | On Site | 283079 211867 | Old Tramway Sidings | 1919 |
| 79 | 0 | On Site | 282650 211869 | Railway Sidings | 1905 |
| 80 | 0 | On Site | 282819 211972 | Tramway Sidings | 1919 |
| 81W | 0 | On Site | 282098 212026 | Railway Sidings | 1962 |
| 82W | 0 | On Site | 282568 211989 | Railway Sidings | 1905 |
| 83 | 0 | On Site | 282540 212066 | Mineral Railway Sidings | 1877 |
| 84B | 0 | On Site | 282421 212064 | Railway Sidings | 1962 |
| 85B | 0 | On Site | 282380 212062 | Colliery Railway Sidings | 1921 |
| 86 | 0 | On Site | 282252 212073 | Railway Sidings | 1962 |
| 43X | 6 | NE | 284449 210859 | Railway Sidings | 1919 |
| 87X | 14 | NE | 284442 210857 | Mineral Railway Sidings | 1948 |
| 88K | 14 | NE | 284605 211000 | Railway Sidings | 1921 |
| 44K | 17 | NE | 284597 210989 | Railway Sidings | 1919 |
| 45K | 17 | NE | 284599 210986 | Railway Sidings | 1904 |
| 89Y | 38 | NW | 281912 212099 | Railway Sidings | 1965 |
| 90Y | 63 | NW | 281908 212127 | Railway Sidings | 1919 |
| 46Z | 140 | N | 284654 210998 | Railway Sidings | 1921 |
| 91 | 155 | NW | 281236 211992 | Railway Sidings | 1914 |
| 47L | 166 | NW | 281272 212028 | Railway Sidings | 1921 |
| 48L | 169 | NW | 281278 212023 | Railway Sidings | 1962 |
| 49L | 173 | NW | 281280 212029 | Railway Sidings | 1903 |
| 92 | 199 | NW | 281730 212138 | Mineral Railway Sidings | 1904 |
| 50L | 200 | NW | 281390 212037 | Railway Sidings | 1962 |
| 93L | 206 | NW | 281415 212051 | Railway Sidings | 1948 |
| 94Z | 234 | N | 284703 211028 | Railway Sidings | |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 51L | 239 | NW | 281390 212074 | Railway Sidings | |

*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? Yes

Have any historical railway lines been identified within 250m of the study site boundary? Yes

| Distance (m) | Direction | Status |
|---|---|---|
| 0 | On Site | Abandoned |
| 0 | On Site | Razed |
| 0 | On Site | Razed |
| 0 | On Site | Abandoned |
| 0 | On Site | Razed |
| 0 | On Site | Abandoned |
| 0 | On Site | Abandoned |
| 0 | On Site | Razed |
| 0 | On Site | Razed |
| 0 | On Site | Abandoned |
| 0 | On Site | Razed |
| 0 | On Site | Abandoned |
| 65 | N | Abandoned |
| 65 | N | Razed |
| 237 | NW | Abandoned |
| 237 | NW | Razed |

Multiple sections of the same track may be listed in the detail above
*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? Yes

Have any active railway lines been identified within 250m of the study site boundary? Yes

| Distance (m) | Direction | Name | Type |
|---|---|---|---|
| 0 | On Site | Not given | rail |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |

| Distance (m) | Direction | Name | Type |
|---|---|---|---|
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | rail |
| 80 | SW | Not given | Multi Track |
| 80 | SW | Not given | Multi Track |

Multiple sections of the same track may be listed in the detail above
*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? No

Is the study site within 500m of the route of the Crossrail 1 rail project? No

*Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.*

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

# Contact Details

**Groundsure Helpline**

**Telephone: 08444 159 000**
**info@groundsure.com**

**British Geological Survey Enquiries**

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:**enquiries@bgs.ac.uk**
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries

**British Gypsum**

British Gypsum Ltd
East Leake
Loughborough
Leicestershire
LE12 6HX

**The Coal Authority**

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
**www.coal.gov.uk**

**Public Health England**

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
**https://www.gov.uk/government/organisations/public-health-england**
Email: **enquiries@phe.gov.uk**
Main switchboard: 020 7654 8000

**Johnson Poole & Bloomer Limited**

Harris and Pearson Building, Brettel Lane
Brierley Hill, West Midlands
DY5 3LH
Tel: +44 (0) 1384 262 000
Email:**enquiries.gs@jpb.co.uk**
Website: **www.jpb.co.uk**

**Ordnance Survey**

Adanac Drive, Southampton
SO16 0AS

Tel: 08456 050505
**Website: http://www.ordnancesurvey.co.uk/**

**Getmapping PLC**

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444
Website:**http://www1.getmapping.com/**

**Peter Brett Associates**
Caversham Bridge House
Waterman Place
Reading
Berkshire RG1 8DN
Tel: +44 (0)118 950 0761 E-mail:**reading@pba.co.uk**
Website:**http://www.peterbrett.com/home**

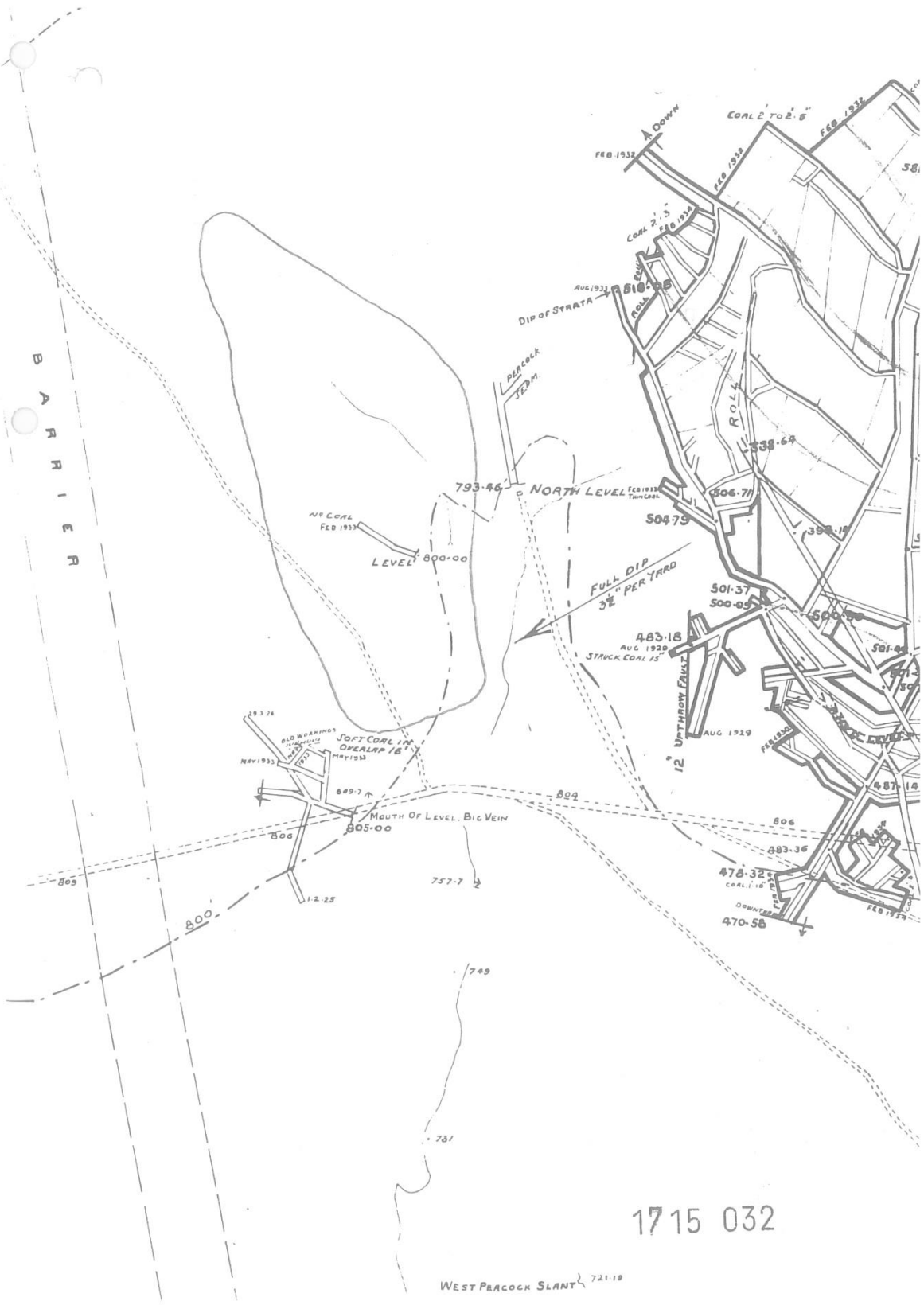
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# Standard Terms and Conditions

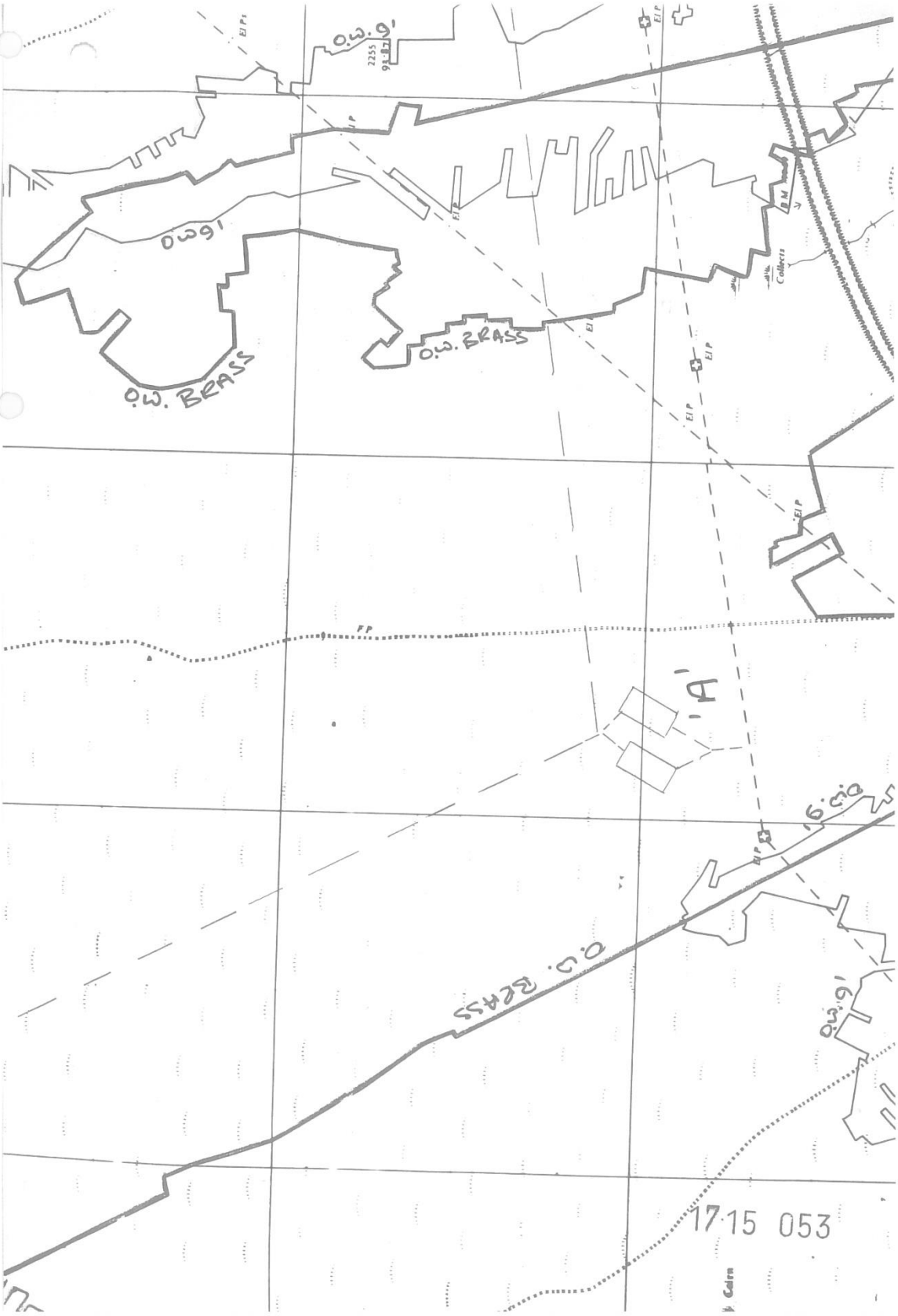
Groundsure's Terms and Conditions can be viewed online at this link:
https://www.groundsure.com/terms-and-conditions-feb11-2019

# Appendix F

Nant Helen Underground Workings - Celtic Energy


BARRIER
A DOWN
COAL 2' TO 2'6"
FEB 1932
FEB 1932
FEB 1932
COAL 2'-3"
FEB 1932
AUG 1931
518·25
DIP OF STRATA
PEACOCK JEAN
793·46
NORTH LEVEL
FEB 1933
TWIN CROSS
ROLL
538·64
506·71
504·79
398·18
No COAL
FEB 1933
LEVEL 800·00
FULL DIP
3½" PER YARD
501·37
500·05
500·00
483·18
AUG 1929
STRUCK COAL 15"
UPTHROW FAULT
12"
AUG 1929
FEB 1934
487·14
293·26
OLD WORKINGS
NAY 1933
SOFT COAL 1'4"
OVERLAP 16"
MAY 1933
809·7
804
MOUTH OF LEVEL, BIG VEIN
805·00
806
806
483·36
809
800
757·7
12·25
478·32
COAL 1'6"
DOWNTHROW
FEB 1934
470·58
749
731
WEST PEACOCK SLANT
721·19

1715 032


O.W.
O.W. BRASS
O.W. BRASS
O.W.
O.W. BRASS
O.W.
17 15 053

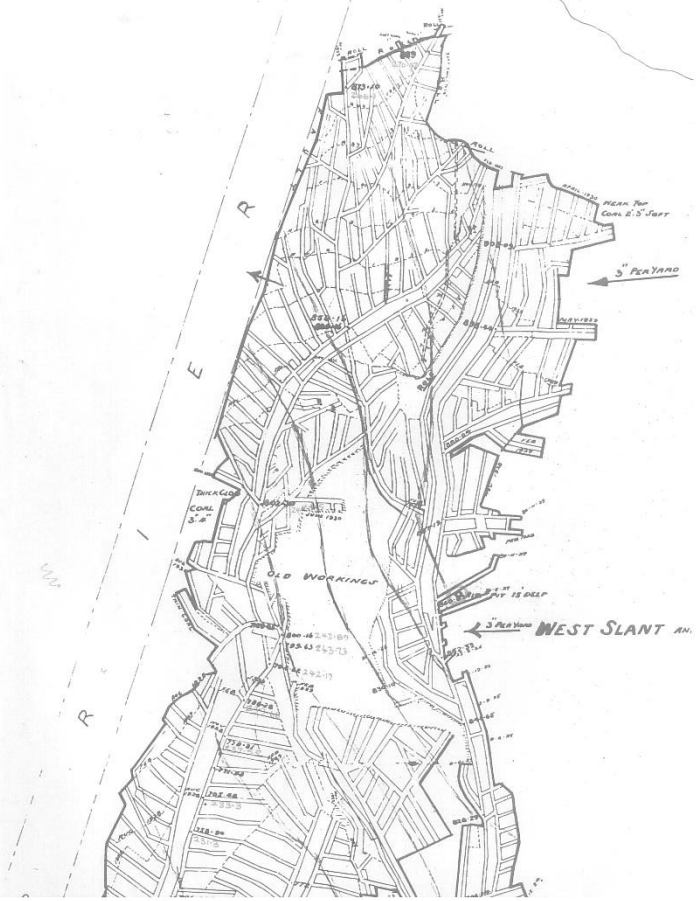
1715 054
O.W. BRASS
O.W. BRASS
O.W. BRASS
O.W. BRASS
Mynydd y Drum
Cairn Cloch

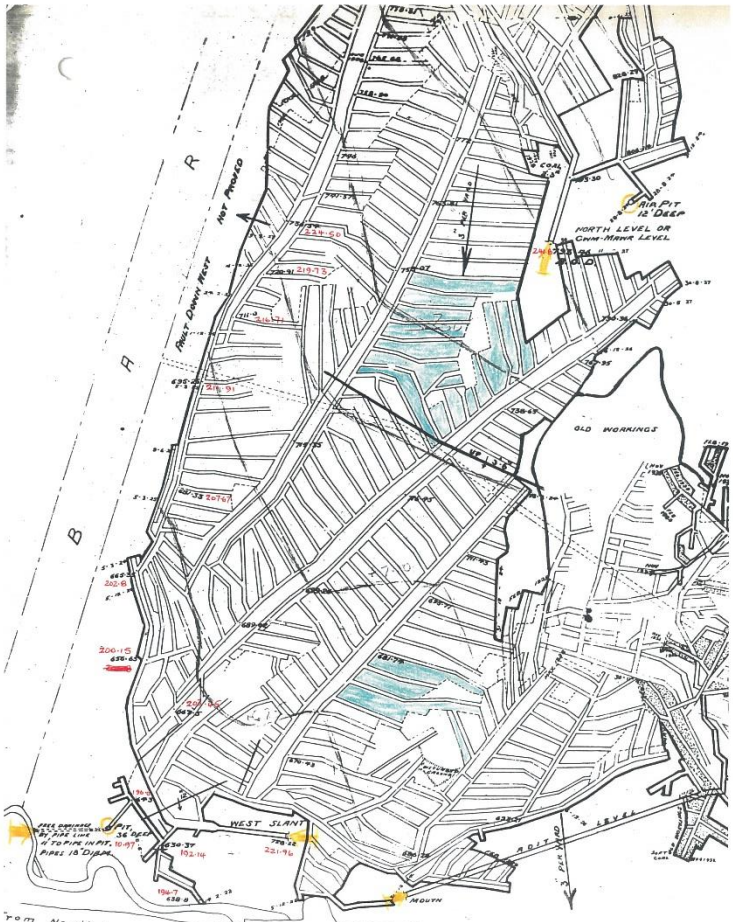
LIV 9.

DULA

x·3048

1715 066



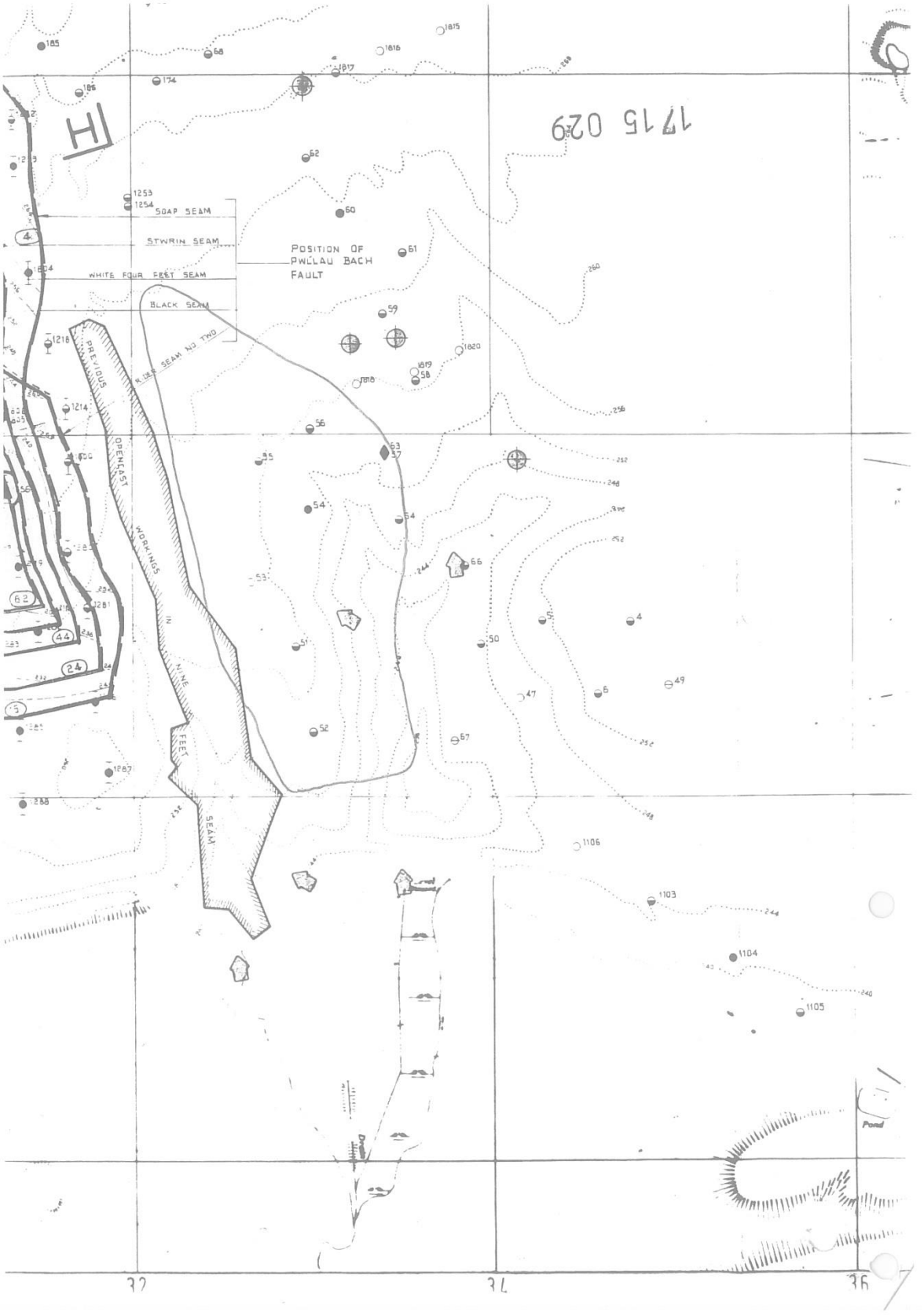


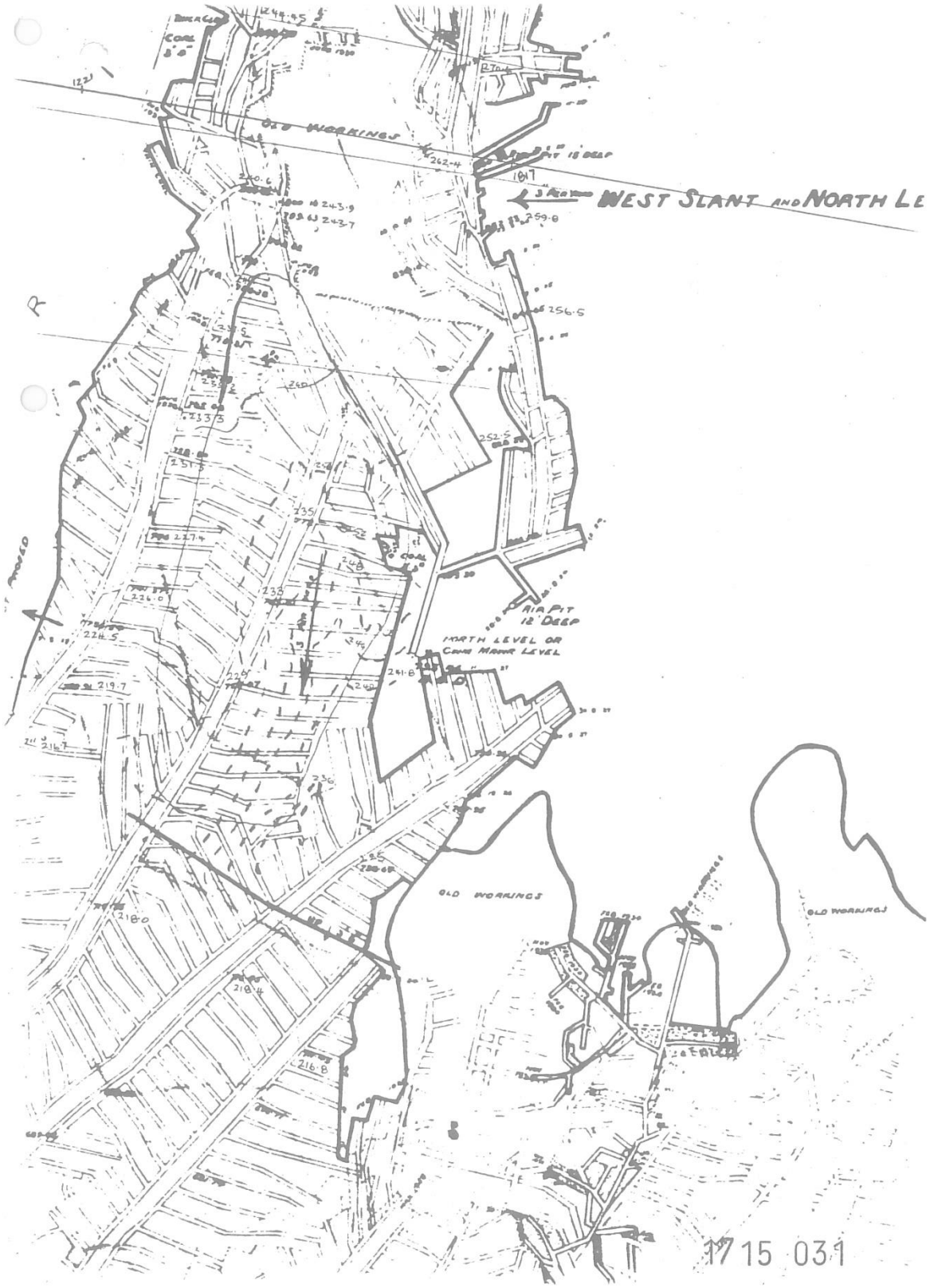

"THIS PLAN IS A TRUE COPY OF THE WORKING PLAN OF THE MINE AS COMPLETED UP TO 10TH FEBRUARY 1934, AND I CERTIFY AFTER THOROUGH EXAMINATION AND INQUIRY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF IT IS AN ACCURATE PLAN OF THE MINE"

H. Burnell
Mining Engineer
Llanelly
29/5/34

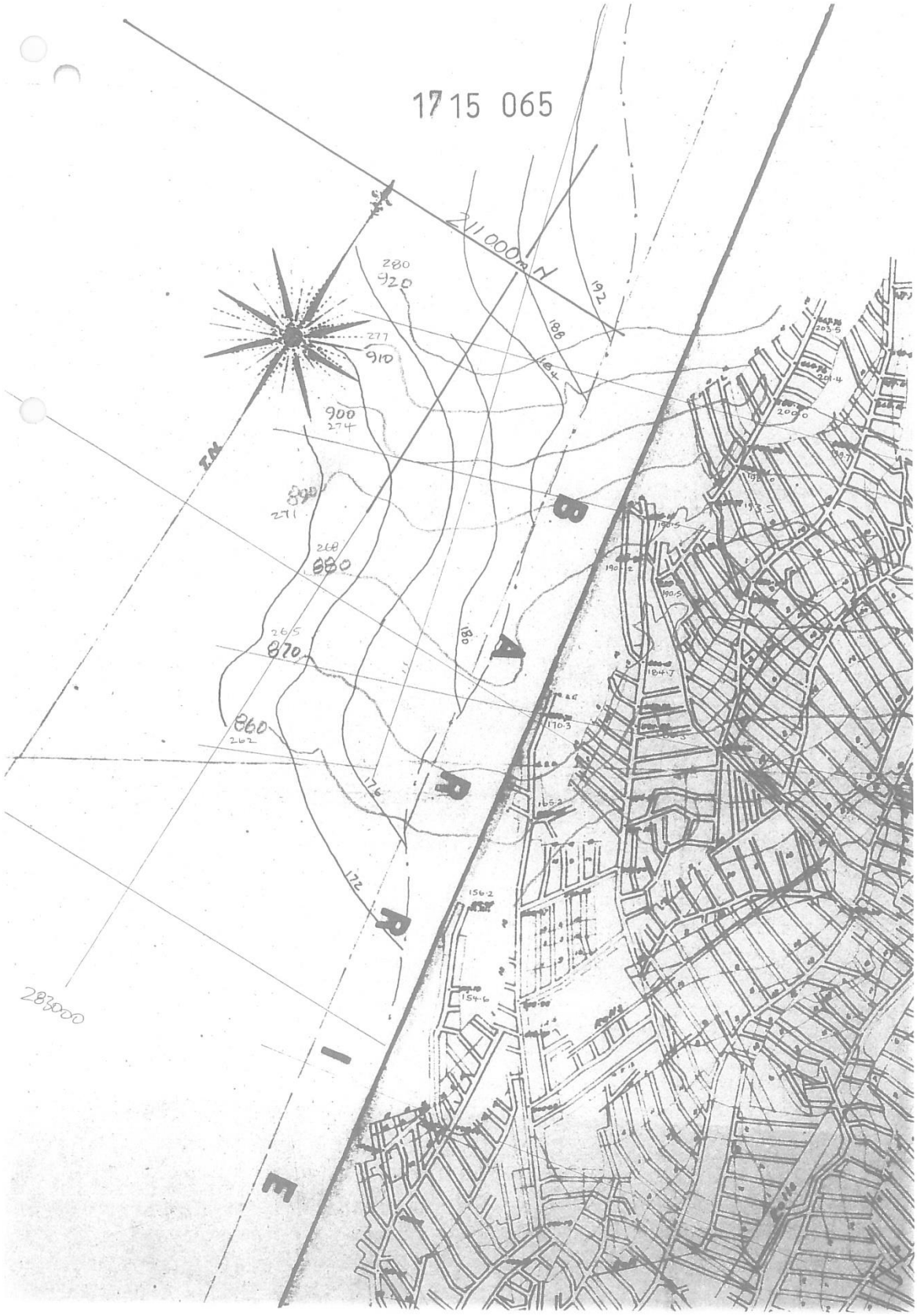
Certificate No 1502

SCALE ~~2 CHAINS TO ONE INCH~~ 1:2500


1715 029
SOAP SEAM
STWRIN SEAM
WHITE FOUR FEET SEAM
BLACK SEAM
POSITION OF PWLLAU BACH FAULT
PREVIOUS OPENCAST WORKINGS IN NINE FEET SEAM
R.I.P. SEAM NO TWO
37
36

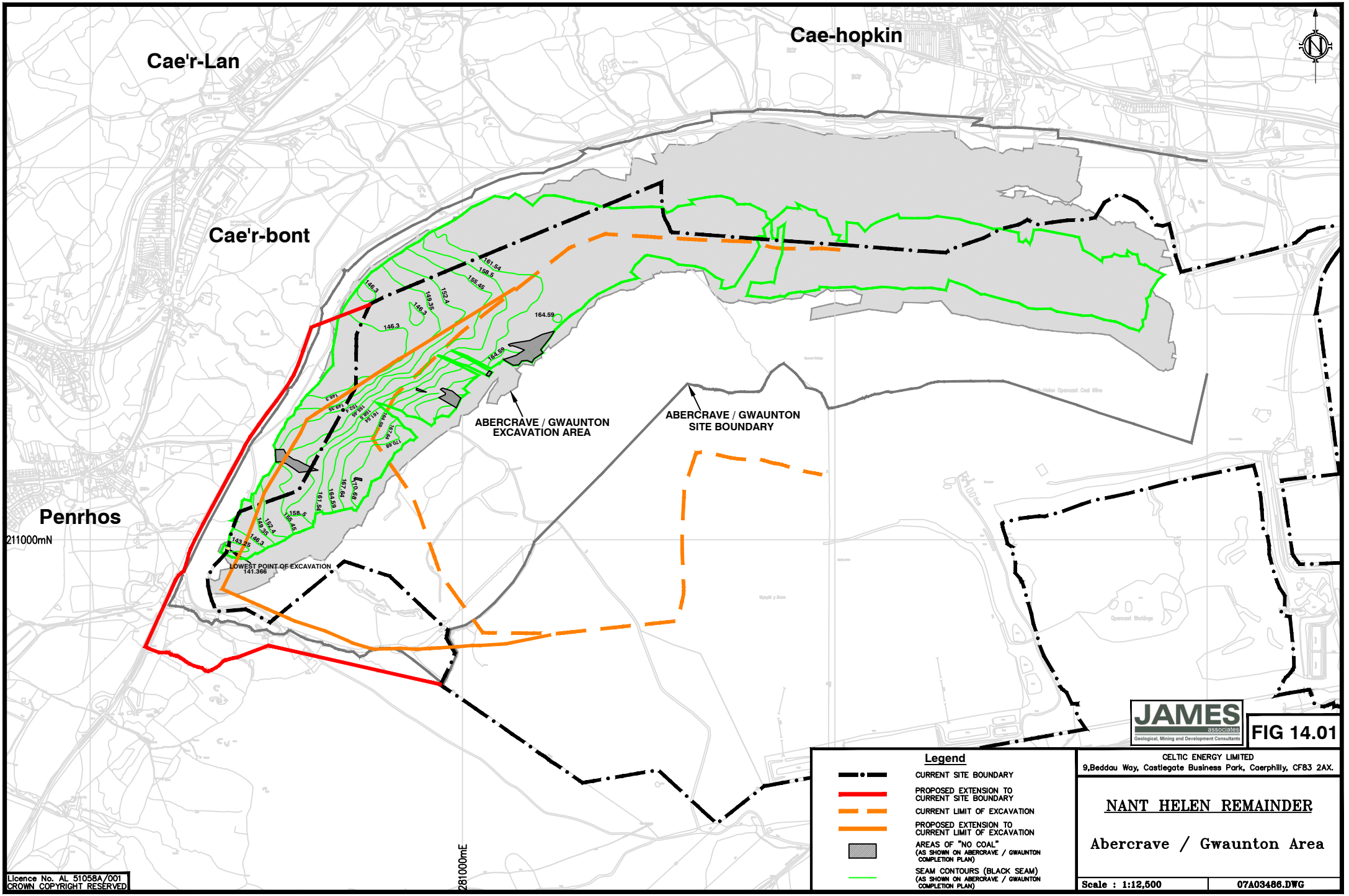

OLD WORKINGS
WEST SLANT AND NORTH LE
AIR PIT 18' DEEP
NORTH LEVEL OR CROSS MAIN LEVEL
OLD WORKINGS
OLD WORKINGS

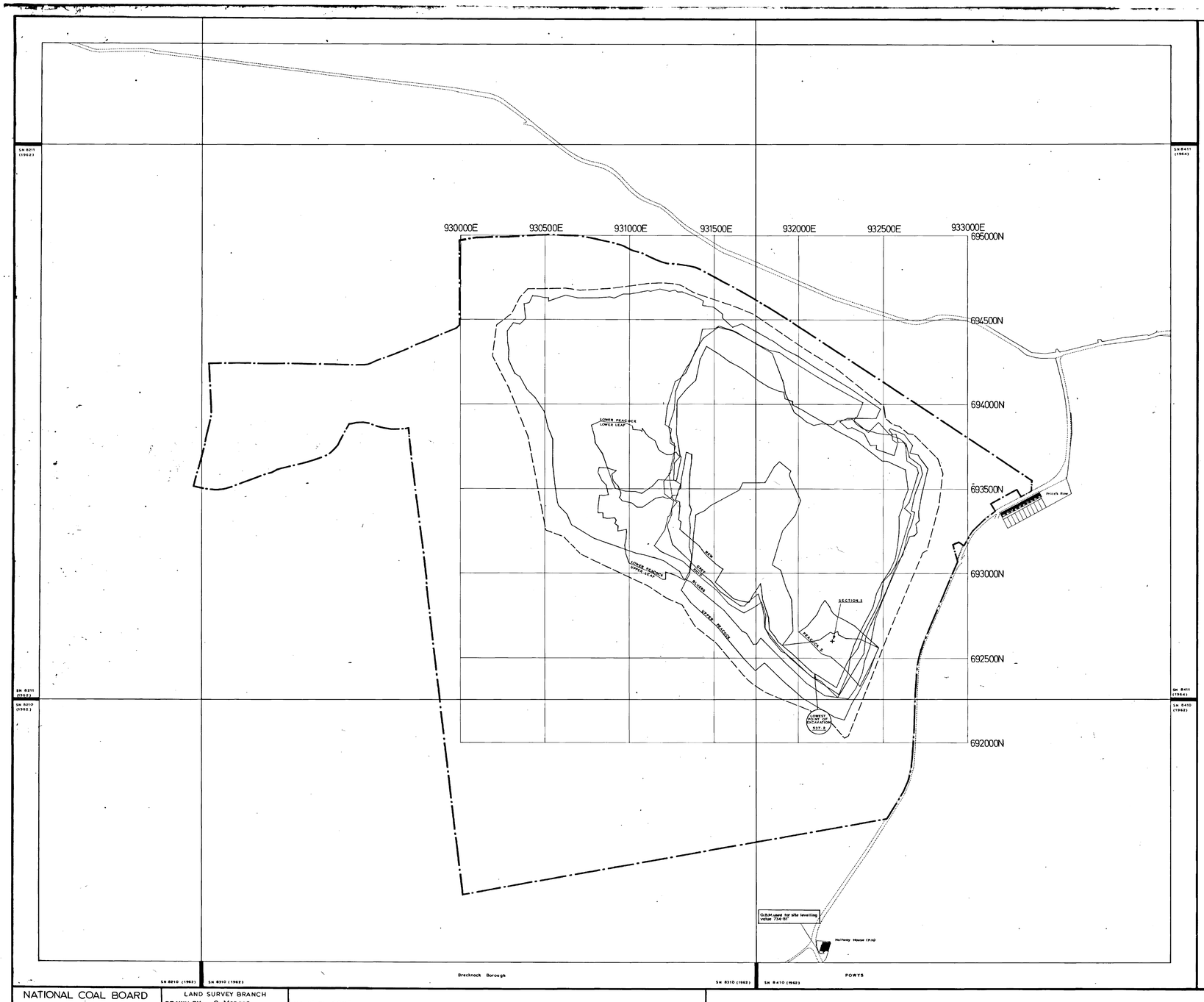
1715 031


1715 065
N
280
920
277
910
900
274
271
880
265
870
860
262
192
186
184
180
176
172
154·6
156·2
165·2
170·3
184·7
190·5
193·5
203·5
204·4
2000
283000

# Appendix G

Opencast Completion Plans - Celtic Energy


Cae'r-Lan
Cae-hopkin
Cae'r-bont
Penrhos
211000mN
281000mE
ABERCRAVE / GWAUNTON EXCAVATION AREA
ABERCRAVE / GWAUNTON SITE BOUNDARY
LOWEST POINT OF EXCAVATION 141.366
Legend
CURRENT SITE BOUNDARY
PROPOSED EXTENSION TO CURRENT SITE BOUNDARY
CURRENT LIMIT OF EXCAVATION
PROPOSED EXTENSION TO CURRENT LIMIT OF EXCAVATION
AREAS OF "NO COAL" (AS SHOWN ON ABERCRAVE / GWAUNTON COMPLETION PLAN)
SEAM CONTOURS (BLACK SEAM) (AS SHOWN ON ABERCRAVE / GWAUNTON COMPLETION PLAN)
JAMES associates
Geological, Mining and Development Consultants
FIG 14.01
CELTIC ENERGY LIMITED
9,Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX.
NANT HELEN REMAINDER
Abercrave / Gwaunton Area
Scale : 1:12,500
07A03486.DWG
Licence No. AL 51058A/001
CROWN COPYRIGHT RESERVED




# LEGEND

## LOCATION

| | |
|---|---|
| 1:2500 SCALE ORDNANCE SHEET REFERENCE | SN 8310: 8311: 8410: 8411 |
| DATE OF ORDNANCE SHEET | 1962: 1962: 1962: 1964 |
| NAME OF SITE | ONLLWYN |
| LOCATION OF SITE | 2mi N.E. Seven Sisters, 1·5 mi S.E. Abercrave |
| COUNTY | POWYS |
| DISTRICT | BRECKNOCK |
| COMMUNITY | YSTRADGYNLAIS HIGHER |

## QUANTITIES WORKED

TOTAL AREA ACQUIRED 258 ACRES SHEWN

TOTAL AREA WORKED EXCUDING BATTERS 81.22 ACRES

TOTAL COAL RECOVERED FROM ABOVE 1,224,740 TONS

| NAMES OF SEAMS WORKED FOR ABOVE TONNAGE (SEAMS NAMES FROM LEFT TO RIGHT IN GEOLOGICAL DESCENDING ORDER) | UPPER PEACOCK | PEACOCK 2. | LOWER PEACOCK | BLUERS | RHYD | GREY | NEW |
|---|---|---|---|---|---|---|---|
| AREA OF COAL SEAM WORKED COLOUR EDGE (SQUARE YARDS) (SEAMS COLOURED FROM LEFT TO RIGHT IN GEOLOGICAL DESCENDING ORDER) | 82,122 | 11,636 | 32,229 | 399,302 | 227,349 | 225,962 | 187,380 |
| TOTAL OLD WORKING VOIDS IN COAL SEAM IN CUBIC YDS. | — | — | — | — | — | — | — |
| AREA OF SEAM WHERE OLD WORKING VOIDS WERE LOCATED | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| DIP AND DIRECTION OF EACH SEAM SHEWN BY CONTOURS | 830 | 760 | 819 | 702 | 650 | 638 | 605 |
| REDUCED LEVELS TO ORDNANCE DATUM SHEWN GROUND LEVEL (RELATIVE TO NEWLYN) | OL 813·5 | OL 803·3 | OL 866·1 | OL 802·7 | OL 801·7 | OL 802·6 | OL 804·8 |
| BOTTOM OF COAL | BC 797·3 | BC 756·7 | BC 780·7 | BC 655·4 | BC 630·4 | BC 606·8 | BC 552·8 |
| FAULTS SHEWN WITH THROW IN FEET ON DOWNTHROW SIDE | | | | | | | |
| EXCAVATION ONLY | | | | | | | |

## GENERAL DESCRIPTION

TYPE OF LAND: Grazing

NATURE OF OVERBURDEN: Boulder Clay & Mudstones with some Shales & Sandstones.

NATURE OF COAL: Anthracite

SPECIAL REMARKS:

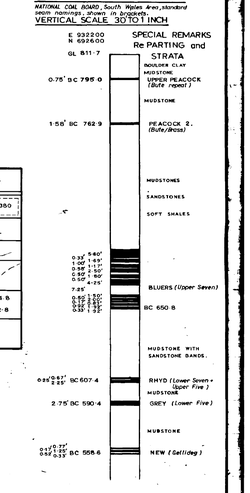
## OPERATIONAL DATES

| | |
|---|---|
| ACQUIRED | August 1972 |
| COMMENCEMENT OF COALING | October 1973 |
| COMPLETION OF COALING | May 1982 |
| COMPLETION OF RESOILING | |
| HANDED OVER TO MINISTRY OF AGRICULTURE F&F | |
| FINALLY RELINQUISHED | |

| COPY SENT TO | DATE | INITIAL |
|---|---|---|
| Mining Records (2) | | |
| N.C.B. (1) | | |
| Geological Survey (1) | | |
| | | |
| | | |
| | | |
| | | |

## VERTICAL SECTION (S)

NATIONAL COAL BOARD, South Wales Area, standard seam namings, shown in brackets.
VERTICAL SCALE 30 TO 1 INCH

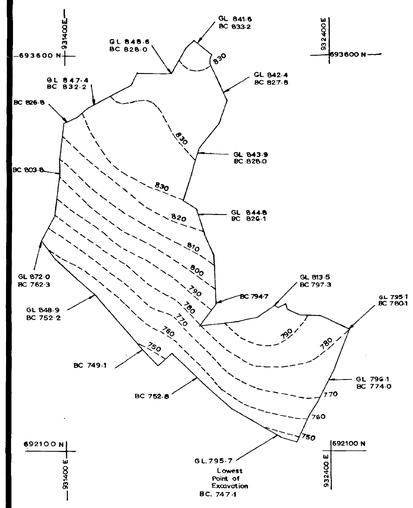



1 of 2

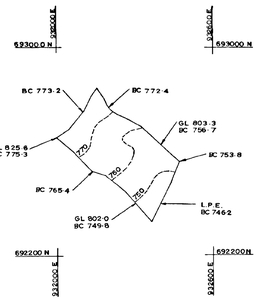
163A

| | | | | |
|---|---|---|---|---|
| NATIONAL COAL BOARD<br>OPENCAST EXECUTIVE<br>200 LICHFIELD LANE, BERRY HILL<br>MANSFIELD, NOTTS. | LAND SURVEY BRANCH<br>DRAWN BY: C. Morgan<br>DATE: September 1983<br>CHECKED BY: B. Evans<br>DATE: December 1983<br>SCALE: 1:2500 | NAME OF ZONE<br>OR CONTRACT | NAME OF SITE. **ONLLWYN** | SITE REFERENCE NUMBER 070402<br>OPERATIONAL CONTRACT NUMBER 5066 | DRAWING NUMBER OE/COMP/0 / |

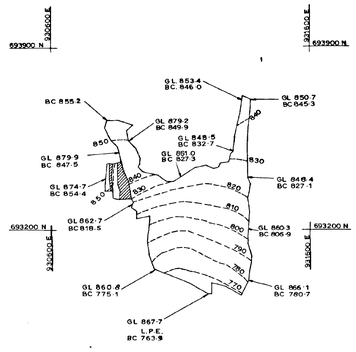
07A04247.DWG
(Scale 1:2500)



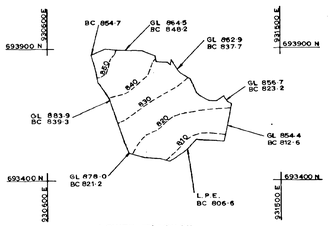

UPPER PEACOCK.



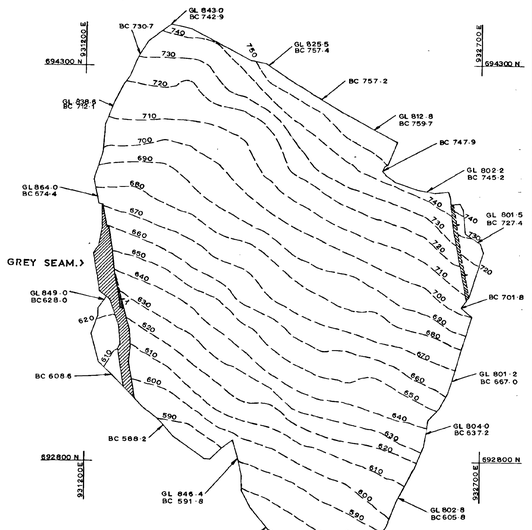

PEACOCK 2.

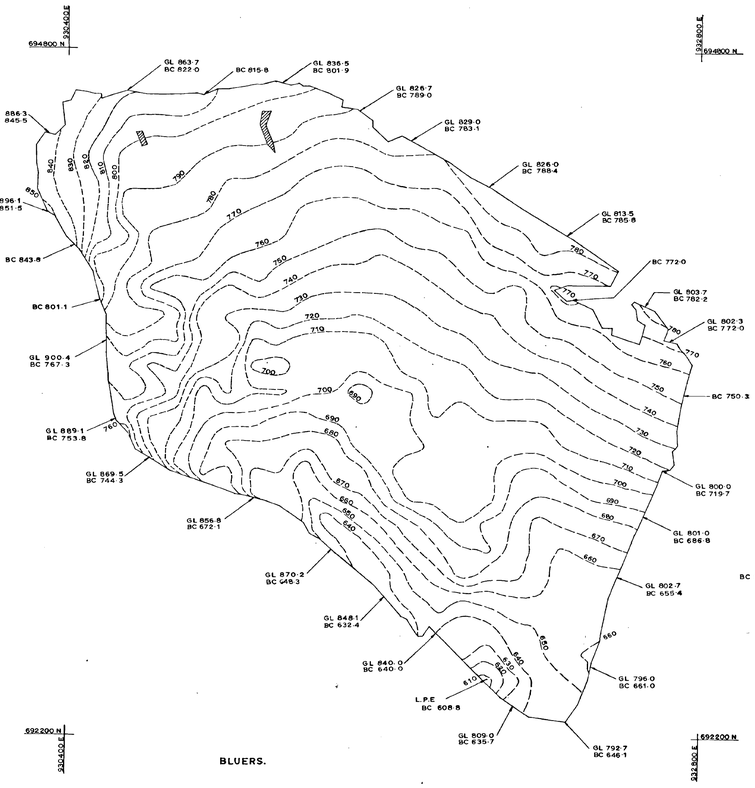



LOWER PEACOCK.
Upper Leaf.

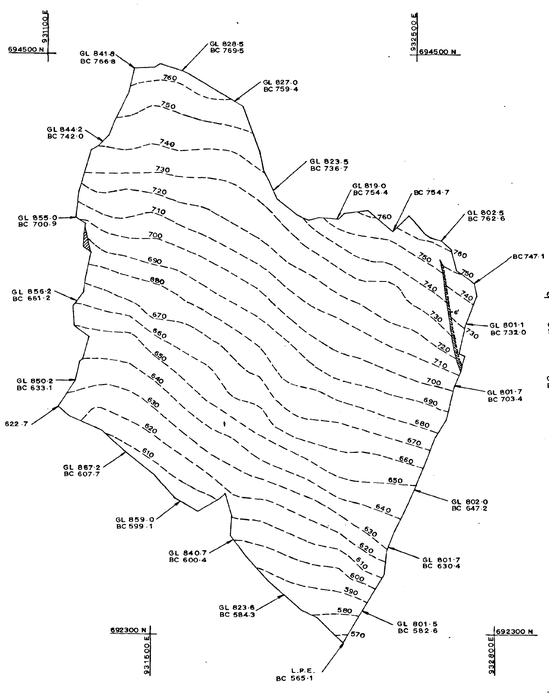



LOWER PEACOCK.
Lower Leaf.

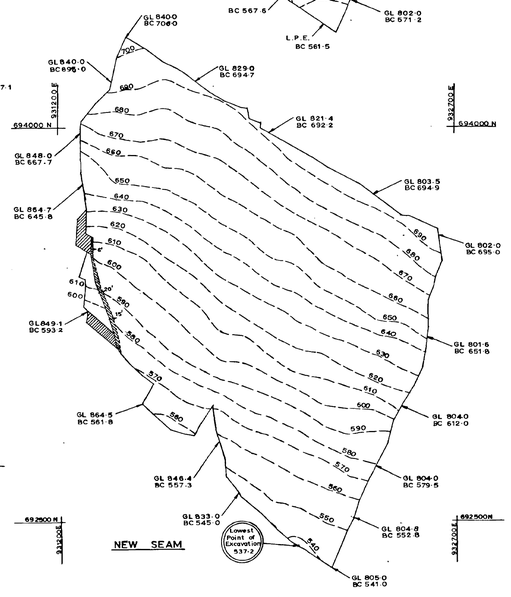



BLUERS.




RHYD SEAM.

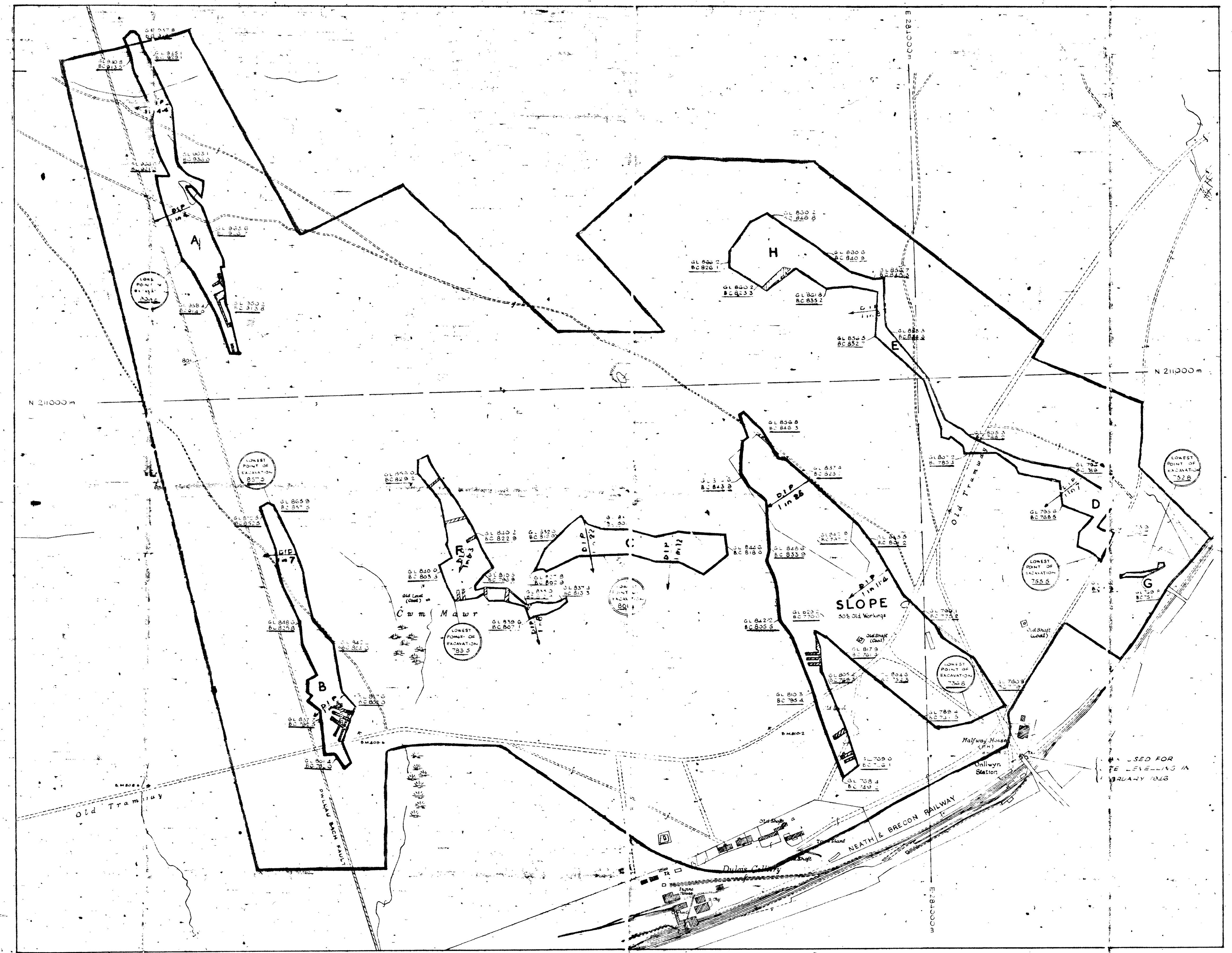



NEW SEAM

2 of 2

**ONLLWYN 163B**

07A04247/A.DWG
(Scale 1:2500)




ALL LEVELS ARE REFERRED TO THE LIVERPOOL DATUM

CROWN COPYRIGHT RESERVED

# LEGEND

## LOCATION

1:2500 SCALE ORDNANCE SHEET REFERENCE BRECKNOCKSHIRE XLIII. 12
DATE OF ORDNANCE SHEET 1918
NAME OF SITE ONLLWYN ONLLWYN ZONE
LOCATION OF SITE ½ MILE N.W. ONLLWYN
COUNTY BRECKNOCKSHIRE
PARISH YSTRADGYNLAIS HIGHER

## QUANTITIES WORKED

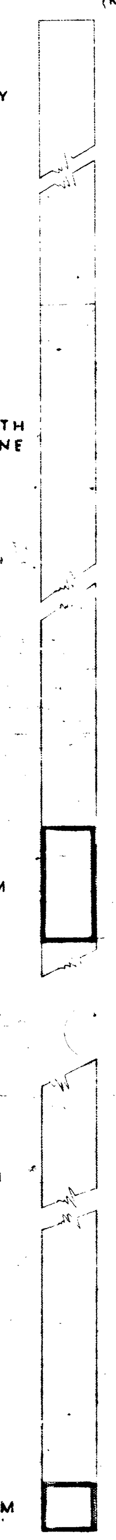
TOTAL AREA REQUISITIONED 221·5 ACRES, SHEWN
TOTAL AREA WORKED EXCLUDING BATTERS 26·85 ACRES
TOTAL COAL RECOVERED FROM ABOVE 139,808 TONS

| | | |
|---|---|---|
| NAMES OF SEAMS WORKED FOR ABOVE TONNAGE (SEAMS NAMED FROM LEFT TO RIGHT IN GEOLOGICAL DESCENDING ORDER) | NINE FEET | BRASS |
| AREA OF COAL SEAM WORKED COLOUR EDGED (SEAMS COLOURED FROM LEFT TO RIGHT IN GEOLOGICAL DESCENDING ORDER) | | |
| TOTAL OLD WORKING VOIDS IN COAL SEAM IN CUBIC YDS. | 59104 | 998 |
| AREA OF SEAM WHERE OLD WORKING VOIDS WERE LOCATED | | |
| DIP AND DIRECTION OF EACH SEAM SHEWN | DIP 1 in 25 | DIP 1 in 12 |
| REDUCED LEVELS TO ORDNANCE DATUM SHEWN GROUND LEVEL | GL 856·8 | GL 844·6 |
| REDUCED LEVELS TO ORDNANCE DATUM SHEWN BOTTOM OF COAL | BC 846·3 | BC 818·0 |
| FAULTS SHEWN WITH THROW IN FEET ON DOWNTHROW SIDE | 55 | |

## AVERAGE VERTICAL SECTION THROUGH ALL SEAMS

VERTICAL SCALE TO 1 INCH

SPECIAL REMARKS (RE PARTINGS & STRATA)




## GENERAL DESCRIPTION

TYPE OF LAND ROUGH HILL GRAZING

NATURE OF OVERBURDEN CLAY, SHALE WITH THIN BANDS OF IRONSTONE

NATURE OF COAL ANTHRACITE

SPECIAL REMARKS SLOPE AREA: AGREED 50% OLD WORKINGS

## OPERATIONAL DATA

DATE REQUISITIONED 62 ACRES - 16·10·46 116 ACRES 29·10·47 43·5 ACRES 25·11·48
COMMENCEMENT OF COALING MARCH 1947
COMPLETION OF COALING NOVEMBER 1949
COMPLETION OF RESOILING FEBRUARY 1950
SITE HANDED BACK TO AGRICULTURE MARCH 1952
FINAL DEREQUISITION OF SITE

| COPY SENT TO | DATE | INITIALS |
|---|---|---|
| Mining Records (2) | 30/12/53 | K.K. |
| | | |
| | | |
| | | |
| | | |
| | | |

38

| | | | | | |
|---|---|---|---|---|---|
| NATIONAL COAL BOARD<br>OPENCAST EXECUTIVE<br>66A, WHITCOMB STREET<br>LONDON, W.C.2 | LAND SURVEY BRANCH<br>DRAWN BY: C.M.J.<br>DATE: 28.12.53<br>CHECKED BY: K.K.<br>DATE: 29/12/53<br>SCALE 1:2500 | NAME OF ZONE ONLLWYN<br>OR CONTRACT | NAME OF SITE ONLLWYN | SITE REFERENCE NUMBER 070402 070402a,b,c/B<br>OPERATIONAL CONTRACT NUMBER OC/CON/1506 OC/CON/2187 | DRAWING NUMBER<br>ABAN /07 / 9 |

OE/CLS/7

07A04248.DWG
(Scale 1:2500)




# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 13 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 122 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 125.6 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

## AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Soap Rider
- Soap
- Penny Pieces
- Stwrin
- White Four Feet
- Lower Block Upper Leaf
- Lower Block Lower Leaf
- Cornish
- Hamlo
- 9 Feet Rider
- 9 Feet
- Brass

## NOTES

Shafts (S1 etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

## LAND TYPE AND USAGE

BEFORE OPERATIONS Rough Pasture

AFTER RESTORATION Rough Pasture

DETAILS OF OVERBURDEN Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL

NATURE OF COAL Anthrocite

## OPERATIONAL DATES

AUTHORISED September 1986

COALING COMMENCED June 1987

COALING COMPLETED March 1999

PLANS ISSUED

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

# NANT HELEN

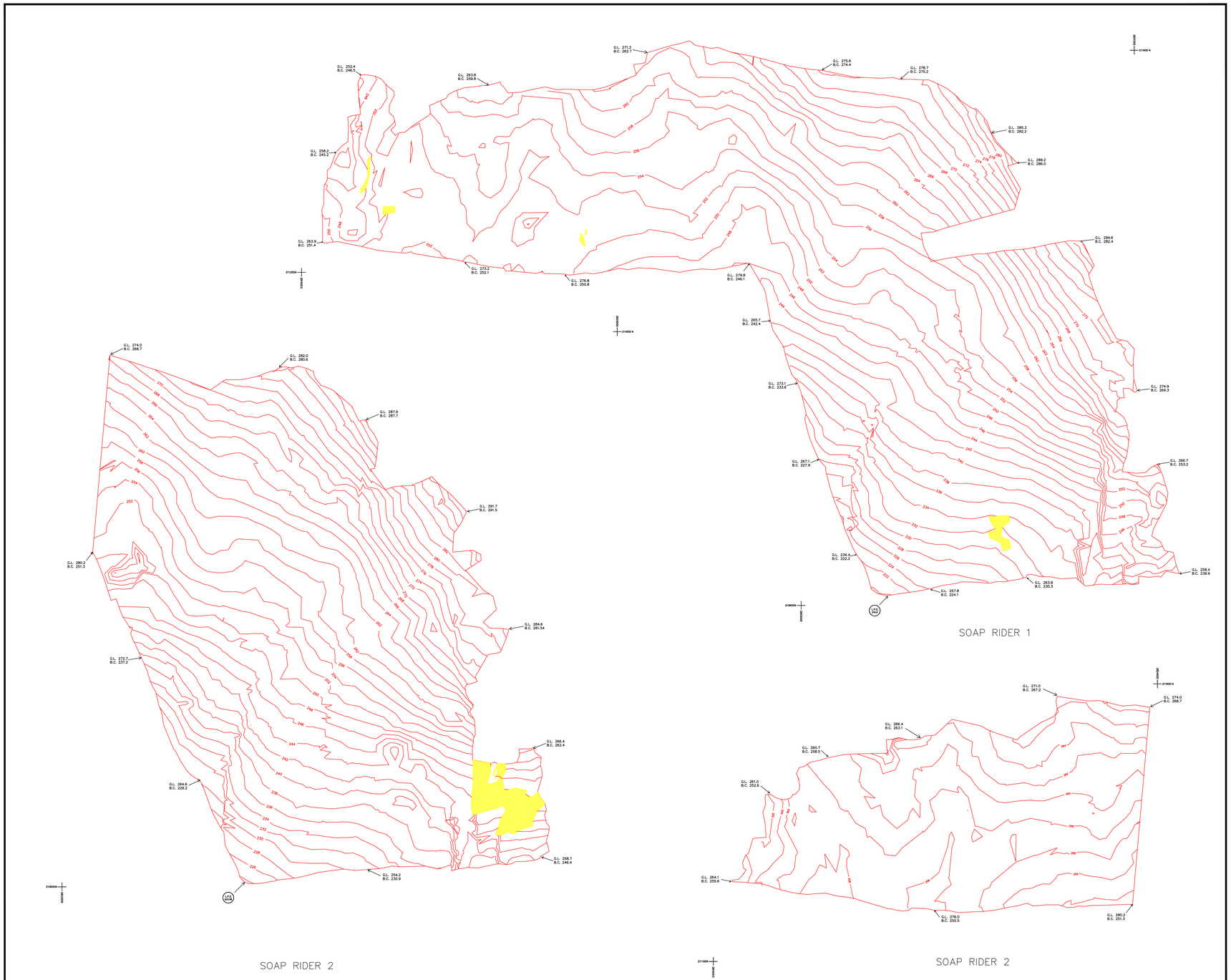
TITLE

# COMPLETION PLAN

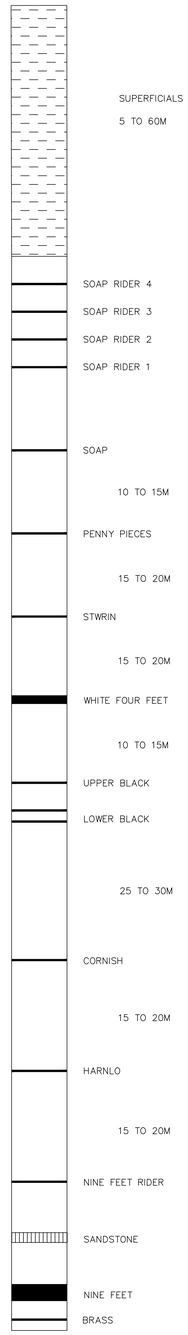
| COUNTY | DISTRICT | CIVIL PARISH |
|---|---|---|
| POWYS | POWYS | |

LOCATION

Drawn by H. Davies Date 2-08-99
Checked by Date
Scale 1:2500 Sheet 7 of 7
Drawing No. 7SN0413
Contract Drawing No. 07A04306




# Vertical Sections




# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 13 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 122 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 125.6 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

**AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER**

| | |
|---|---|
| Soap Rider | 9 Feet Rider |
| Soap | 9 Feet |
| Penny Pieces | Brass |
| Stwrin | |
| White Four Feet | |
| Lower Block Upper Leaf | |
| Lower Block Lower Leaf | |
| Cornish | |
| Harnlo | |

## NOTES

Shafts (St etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

## LAND TYPE AND USAGE

BEFORE OPERATIONS Rough Pasture

AFTER RESTORATION Rough Pasture

DETAILS OF OVERBURDEN Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL

NATURE OF COAL Anthracite

## OPERATIONAL DATES

AUTHORISED September 1986

COALING COMMENCED June 1987

COALING COMPLETED March 1999

PLANS ISSUED

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

# NANT HELEN

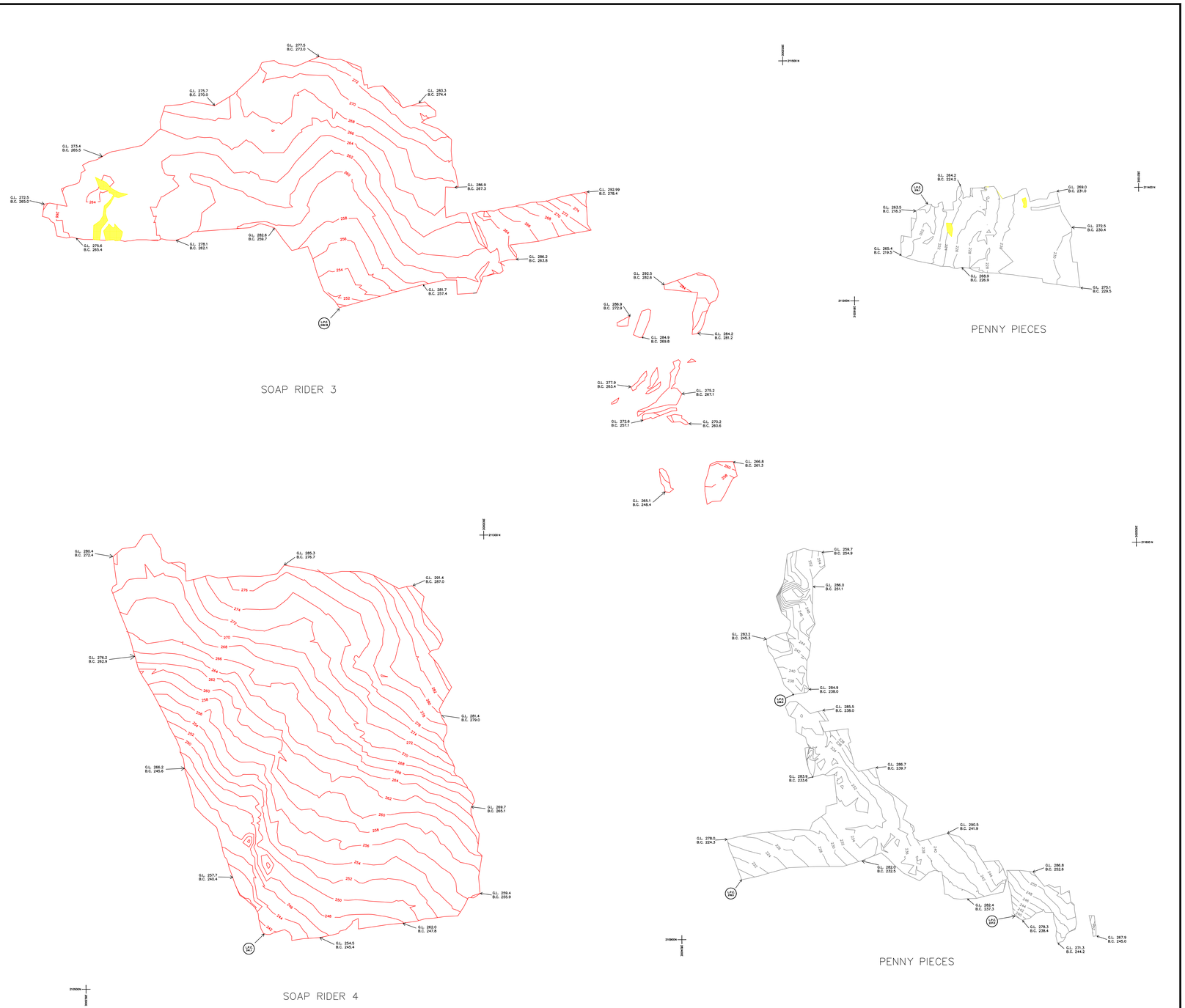
TITLE

# COMPLETION PLAN

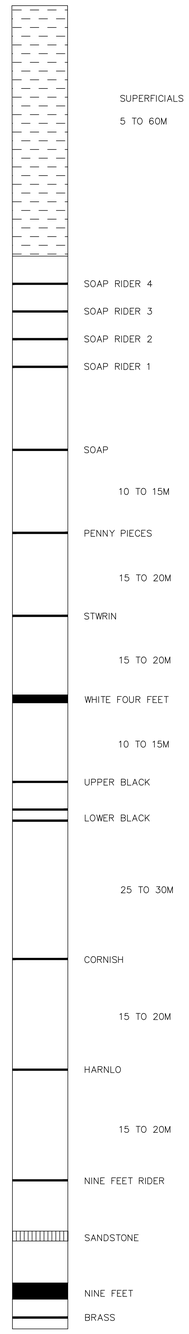
| COUNTY | DISTRICT | CIVIL PARISH |
|---|---|---|
| POWYS | POWYS | |

LOCATION

| | |
|---|---|
| Drawn by H. Davies | Date 2-08-99 |
| Checked by | Date |
| Scale 1:2500 | Sheet 1 of 7 |
| Drawing No. 7SN0407 | Contract Drawing No. 07A04306/A |




# Vertical Sections




# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 13 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 122 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 125.6 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

**AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER**

| | |
|---|---|
| Soap Rider | 9 Feet Rider |
| Soap | 9 Feet |
| Penny Pieces | Brass |
| Stwrin | |
| White Four Feet | |
| Lower Black Upper Leaf | |
| Lower Black Lower Leaf | |
| Cornish | |
| Harnlo | |

**NOTES**

Shafts (St etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

**LAND TYPE AND USAGE**

BEFORE OPERATIONS: Rough Pasture

AFTER RESTORATION: Rough Pasture

DETAILS OF OVERBURDEN: Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL:

NATURE OF COAL: Anthracite

**OPERATIONAL DATES**

AUTHORISED: September 1986

COALING COMMENCED: June 1987

COALING COMPLETED: March 1999

PLANS ISSUED:

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

## NANT HELEN

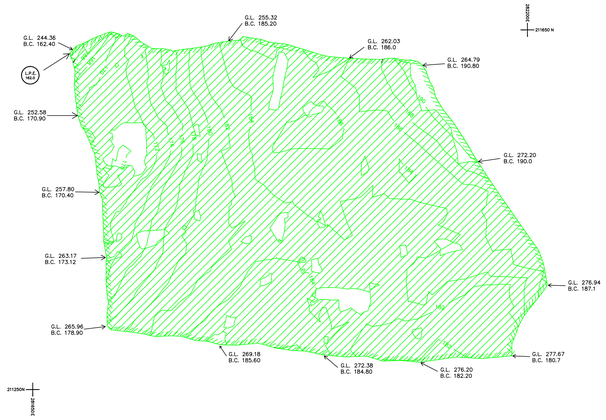
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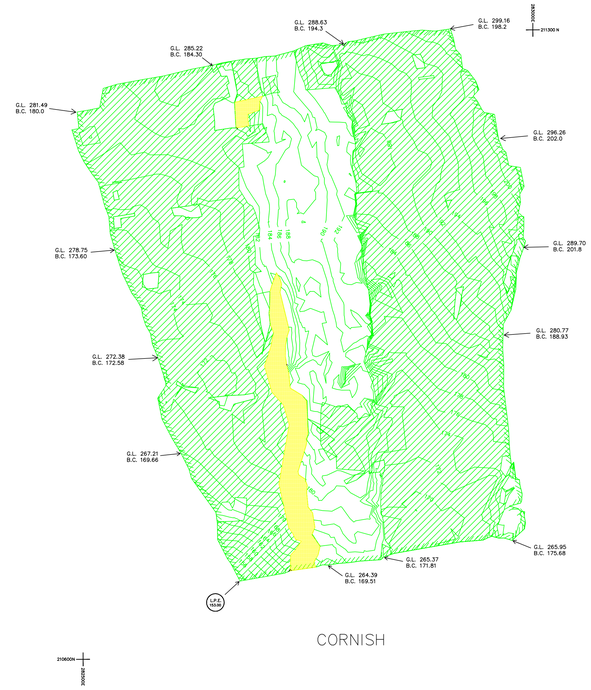
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|---|---|---|
| POWYS | POWYS | |

LOCATION

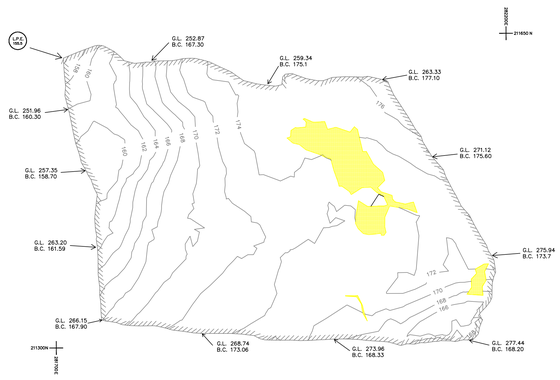
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| Scale 1:2500 | Sheet 2 of 7 |
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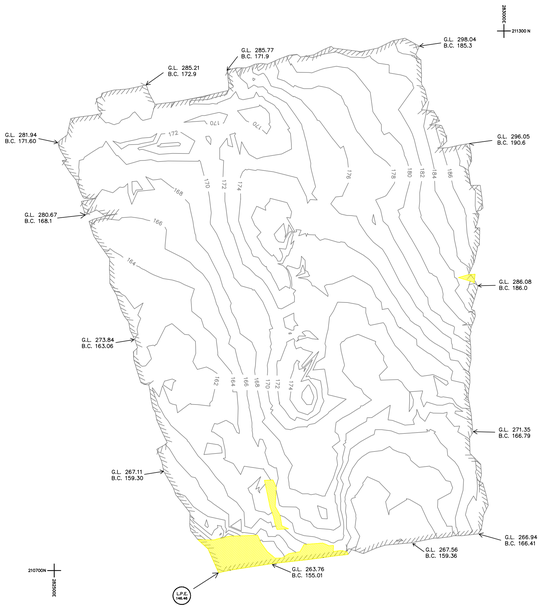

CORNISH




CORNISH




HARNLO




HARNLO

# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 13 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 122 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 125.6 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

## AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Soap Rider
- Soap
- Penny Pieces
- Stwrin
- White Four
- Lower Block Upper Leaf
- Lower Block Lower Leaf
- Cornish
- Hamlo
- 9 Feet Rider
- 9 Feet
- Brass

## NOTES

Shafts (S1 etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

## LAND TYPE AND USAGE

BEFORE OPERATIONS Rough Pasture

AFTER RESTORATION Rough Pasture

DETAILS OF OVERBURDEN Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL

NATURE OF COAL Anthracite

## OPERATIONAL DATES

AUTHORISED September 1986

COALING COMMENCED June 1987

COALING COMPLETED March 1999

PLANS ISSUED

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

# NANT HELEN

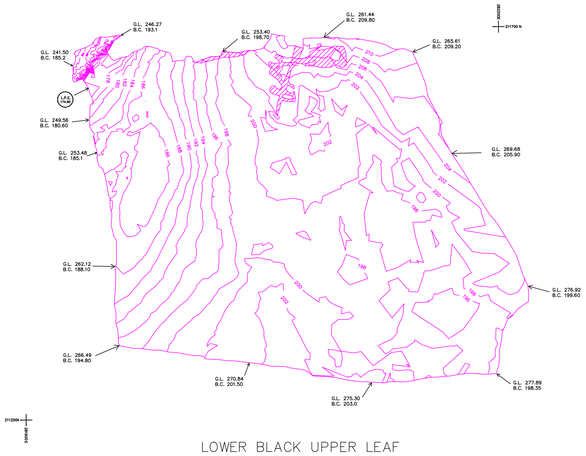
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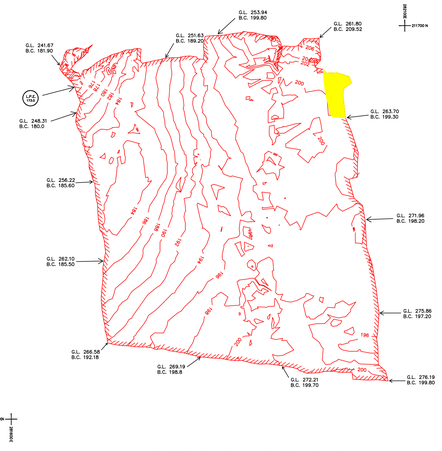
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|---|---|---|
| POWYS | POWYS | |

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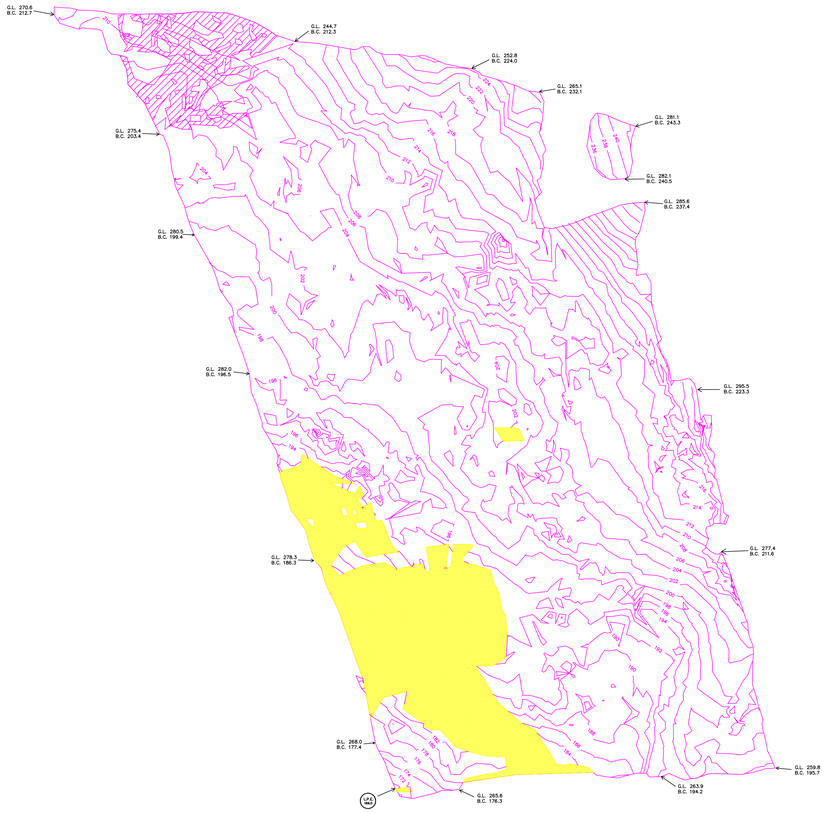
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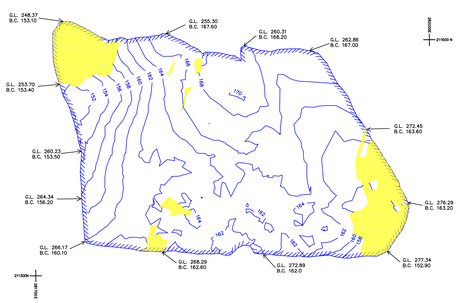

LOWER BLACK UPPER LEAF




LOWER BLACK LOWER LEAF




LOWER BLACK UPPER LEAF




NINE FEET RIDER

# Vertical Sections




# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 13 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 122 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 125.6 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

**AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER**

| | |
|---|---|
| Soap Rider | 9 Feet Rider |
| Soap | 9 Feet |
| Penny Pieces | Brass |
| Stwrin | |
| White Four Feet | |
| Lower Black Upper Leaf | |
| Lower Black Lower Leaf | |
| Cornish | |
| Harnlo | |

## NOTES

Shafts (S1 etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

## LAND TYPE AND USAGE

BEFORE OPERATIONS Rough Pasture

AFTER RESTORATION Rough Pasture

DETAILS OF OVERBURDEN Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL

NATURE OF COAL Anthracite

## OPERATIONAL DATES

AUTHORISED September 1986

COALING COMMENCED June 1987

COALING COMPLETED March 1999

PLANS ISSUED

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

# NANT HELEN

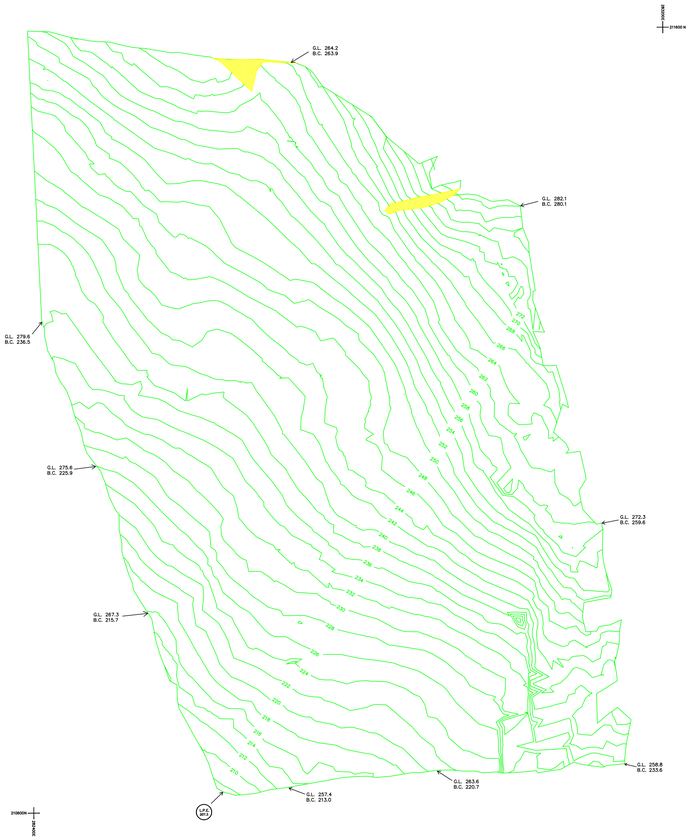
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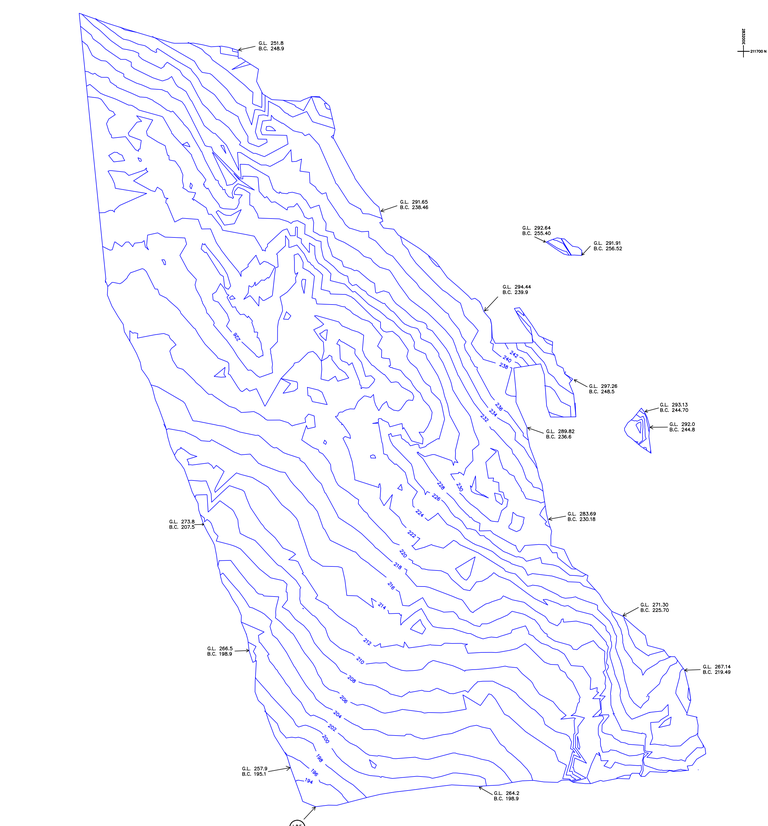
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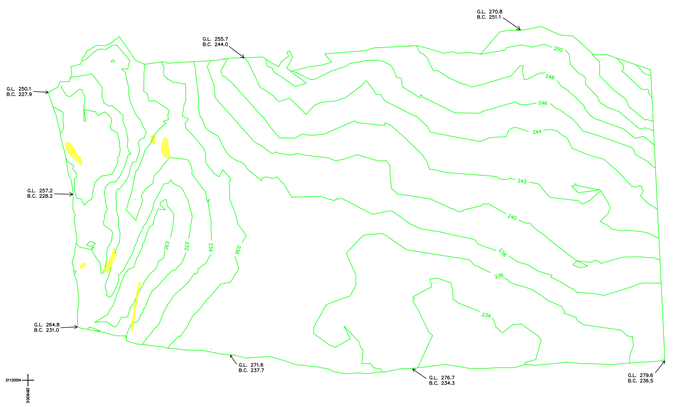
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|---|---|---|
| POWYS | POWYS | |

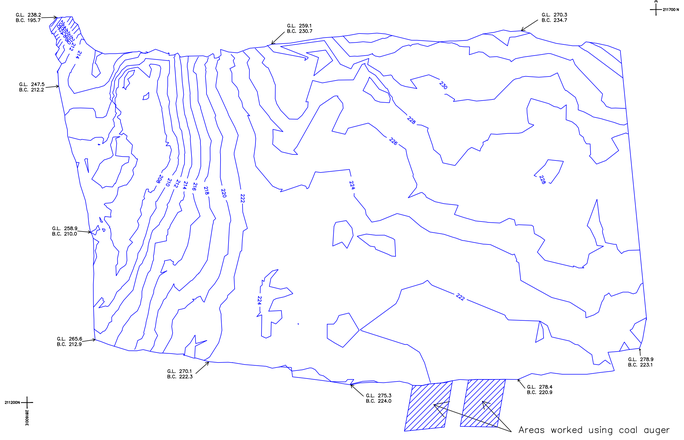
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| Drawn by H. Davies | Date 2-08-99 |
| Checked by | Date |
| Scale 1:2500 | Sheet 4 of 7 |
| Drawing No. 7SN0410 | Contract Drawing No. 07A04306/D |

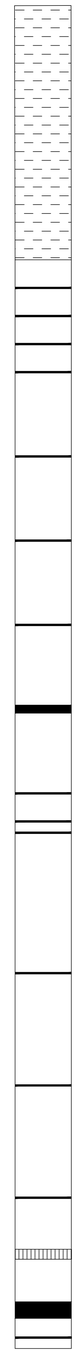



# Vertical Sections




# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
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**AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER**

| | |
|---|---|
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| Soap | 9 Feet |
| Penny Pieces | Brass |
| Stwrin | |
| White Four Feet | |
| Lower Block Upper Leaf | |
| Lower Block Lower Leaf | |
| Cornish | |
| Harnlo | |

**NOTES**

Shafts (S1 etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

**LAND TYPE AND USAGE**

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AFTER RESTORATION: Rough Pasture

DETAILS OF OVERBURDEN: Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL:

NATURE OF COAL: Anthracite

**OPERATIONAL DATES**

AUTHORISED: September 1986

COALING COMMENCED: June 1987

COALING COMPLETED: March 1999

PLANS ISSUED:

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

# NANT HELEN

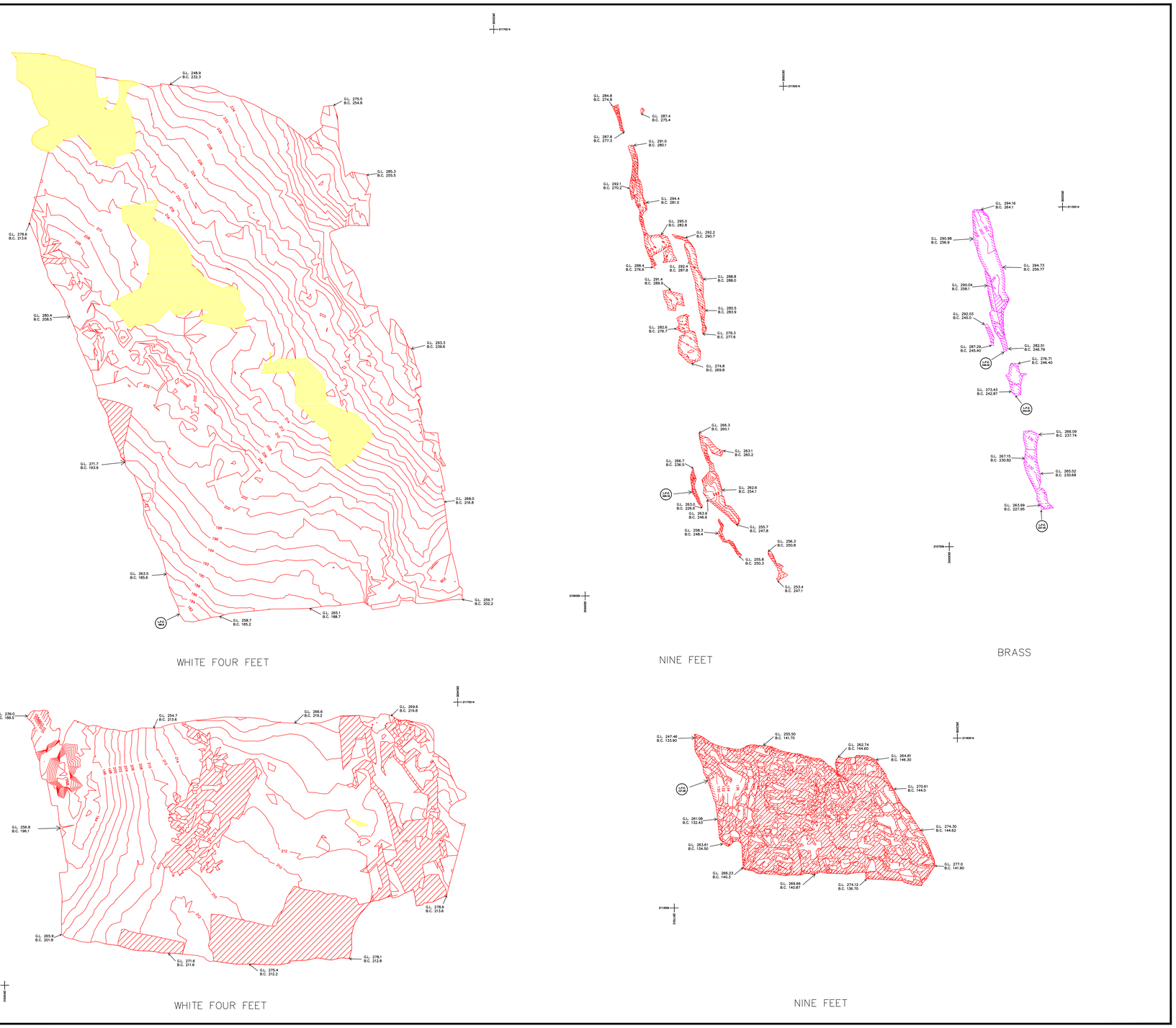
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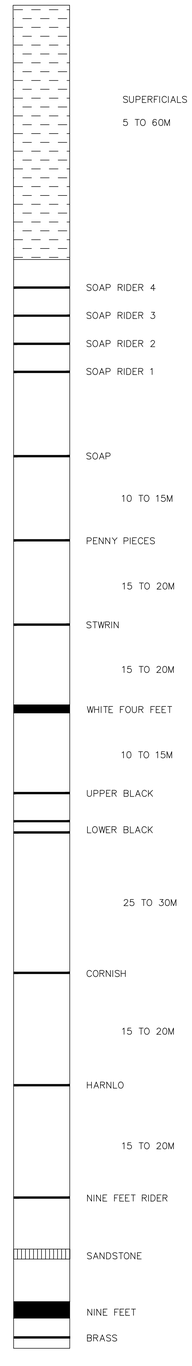
| COUNTY | DISTRICT | CIVIL PARISH |
|---|---|---|
| POWYS | POWYS | |

LOCATION

| | |
|---|---|
| Drawn by H. Davies | Date 2-08-99 |
| Checked by | Date |
| Scale 1:2500 | Sheet 5 of 7 |
| Drawing No. 7SN0411 | Contract Drawing No. 07A04306/E |




# Vertical Sections




# Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 1.3 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
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- OLD WORKINGS (Seam Colour)
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| Penny Pieces | Brass |
| Stwrin | |
| White Four Feet | |
| Lower Block Upper Leaf | |
| Lower Block Lower Leaf | |
| Cornish | |
| Harnlo | |

**NOTES**

Shafts (S1 etc.) Refer to Shaft Register

| Site Bench Mark | E | N | L |
|---|---|---|---|
| | 284236 | 210268 | 242.50 |

**LAND TYPE AND USAGE**

BEFORE OPERATIONS Rough Pasture

AFTER RESTORATION Rough Pasture

DETAILS OF OVERBURDEN Glacial Drift,Mudstone,Siltstone, Sandstone.

DETAILS OF BACKFILL

NATURE OF COAL Anthracite

**OPERATIONAL DATES**

AUTHORISED September 1986

COALING COMMENCED June 1987

COALING COMPLETED March 1999

PLANS ISSUED

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME

# NANT HELEN

TITLE

# COMPLETION PLAN

| COUNTY | DISTRICT | CIVIL PARISH |
|---|---|---|
| POWYS | POWYS | |

LOCATION

| | | |
|---|---|---|
| Drawn by H. Davies | Date 2-08-99 | |
| Checked by | Date | |
| Scale 1:2500 | Sheet 6 of 7 | |
| Drawing No. 7SN0412 | Contract Drawing No. 07A04306/F | |

# Appendix H

2011 Nant Helen Extension Environmental Statement extracts - Celtic Energy

# 14 HYDROGEOLOGY

## 14.1 Background

14.1.1 The existing Nant Helen Extension OCCS involves the excavation of coal seams extending between the Soap Rider 2 and Nine Feet seams in a series of north-west/south-east orientated panels. The site is progressing in a south-westerly direction.

14.1.2 The proposed extension will involve the excavation of the same sequence of strata as in the current site and continue to intersect previous surface mine workings in the Abercrave/Gwaunton site (within which excavation extended to the Upper Black seam), and abandoned underground workings in the Cornish and Nine Feet seam.

14.1.3 The proposed site will be operated in the same manner as the existing site and would form a contiguous extension to it.

## 14.2 Site Location

14.2.1 The proposed site is located immediately to the west of the existing site and extends in a westerly direction by up to 500 metres as shown in Figure 14.01.

## 14.3 Topography and Surface Features

14.3.1 The land within the proposed excavation area is generally inclined towards the north-west and, with the exception of a very minor area at the south-eastern extremity of the site (which is open moorland), is currently covered by a coniferous plantation.

14.3.2 To the south-east and south of the site boundary, the land rises and comprises open moorland which similarly falls towards the north-west, see Figure 14.02.

14.3.3 The western boundary of the site is defined by a stand-off from a disused railway line which is now used as a public cycleway. To the west of the cycleway the forestry is replaced by open fields which gently sweep down to the River Tawe.

## 14.4 Hydrology (see also Chapter 13)

14.4.1 The principal water feature in the general area is the River Tawe which at its closest lies approximately 370 metres to the north-west of the site boundary and generally flows in a south-westerly direction. The existing site and proposed extension both lie within the catchment of the River Tawe and are located on its south-eastern valley side.

14.4.2 Two small north westerly flowing watercourses flow through the proposed extension area. The northernmost watercourse, i.e. Nant Pen-Rhos, has been affected by both the earlier Abercrave/Gwaunton and current sites. The more southerly of the two routes (the former Nant Gyrlais) lies within the proposed extension area and has not so far been affected by the current operations, but does lie on a restored route across the Abercrave/Gwaunton OCCS.

14.4.3 Lying immediately outside of the southern boundary of the excavation, is the diverted watercourse now known as the Nant Gyrlais. This is fed by surface run-off and groundwater emergences from higher ground to the east.

14.4.4 Details on surface hydrology are contained within the report compiled by Merebrook Consulting (see Chapter 13).

## 14.5 Water Features

14.5.1 As noted, almost the entire proposed extension area is covered by dense coniferous plantation within which there are very limited surface water features present.

14.5.2 Details of identified surface water features within 500 metres of the proposed excavation are contained within Appendix I1 of this report.

14.5.3 There will be no impacts of any significance on any of the identified features.

## 14.6 Excavation Sequence

14.6.1 Surface deposits which will be intersected during operations include glacial drift and old surface mine backfill associated with the Abercrave/Gwaunton OCCS, details of which are shown in Figure 14.01. Beneath the surface deposits Coal Measures extending downwards to the Nine Feet seam will be excavated

**Glacial Drift Deposits**

14.6.2 It is expected that glacial drift deposits will be encountered within the proposed excavation area.

14.6.3 No detailed information exists which defines the precise sedimentological make-up of the deposit. However, it is likely that the deposits will be broadly similar to those intersected in the present site and exposed in the existing western excavation faces. The deposits can be observed to comprise dark grey brown, stiff, sandy clay with scattered sub-angular boulders and occasional minor discontinuous sandier horizons which contain insignificant amounts of groundwater.

**Head**

14.6.4 No head deposits have been identified and are considered unlikely to be present.

**Previous Surface Mine Deposits**

14.6.5 Previous surface mine deposits associated with the Abercrave/Gwaunton site, within which seams extending from the Soap Rider 2 down to the Upper Black seam were excavated, will continue to be intersected, exposed along the northern and western sidewalls. The deposits will comprise a mix of Coal Measures, mudstones, sandstones, siltstones and seatearths and may contain minor discontinuous water-bearing pockets.

14.6.6 The area of previous surface coal mining operations associated with the Abercrave/Gwaunton site is shown in Figure 14.01.

14.6.7 The thickness of the deposits will vary between 40 to 60 metres at their thickest, tapering westwards towards the incrop position of the Lower Black seam - see cross sections in Figures 14.03 and 14.04.

**Solid Measures**

14.6.8 The solid Coal Measures strata will consist of a number of cyclic sequences (cyclothems) principally comprising mudstones/siltstones with coal seams, seatearths and sub-ordinate sandstone horizons, the thickest of which occurs above the Nine Feet seam. The sequence is classified by the Environment Agency Wales as a secondary aquifer of no significance with respect to groundwater resources but with potential local importance.

14.6.9 Potential for the occurrence of minor perched aquifers exists within some of the coal seams and minor sandstone/siltstone horizons though during the operation of the current site no horizons of note have been identified. If any strata water is encountered, it is likely (due to the structurally disturbed nature of the site), to be discontinuous and with low volumes.

## 14.7 Structural Geology

14.7.1 Within the general area the principal structural features are north-north-west/south-south-east orientated normal faults such as the Pwllau Bach which is located approximately 2 kms to the east.

14.7.2 The macroscopic structure is relatively simple comprising strata which dip towards the west and south-west at a gentle gradient of 1 in 7 to 1 in 10.

14.7.3 At a smaller scale, the existing site is significantly disturbed by low angle thrust faulting and monoclinal, isoclinal and recumbent folding with a north-east/south-west axial trend.

## 14.8 Sequence of Measures

14.8.1 The proposed excavation sequence with separation intervals is shown in Table 14.1 below. The base of the proposed excavation is represented by the Nine Feet seam, seam contour details for which are shown in Figure 14.05.

**Table 14.1 Seam sequence and intervals**

| Seam | Approximate Interval |
|---|---|
| Soap Rider 2 | |
| | 8-10 metres |
| Soap Rider 1 | |
| | 15 metres |
| Soap | |
| | 20-25 metres |
| Stwrin | |
| | 10-12 metres |
| White Four Feet | |
| | 10 metres |
| Upper Black | |
| | 15-17 metres |
| Cornish | |
| | 10-12 metres |
| Harnlo | |
| | 10 metres |
| Nine Feet Rider | |
| | 20 metres |
| Nine Feet | |

## 14.9 Previous Mineworkings

14.9.1 The proposed excavation area has been affected by previous surface and underground coal mining operations, none of which are now operational, but may have a localised impact upon stability and seam working.

14.9.2 Significant mining operations for other minerals, i.e. ironstone, are not recorded in the immediate area, though do occur in the Coal Measures sequence within the wider geographical area.

**Underground Mineworkings**

14.9.3 Within the proposed excavation area previous underground mineworkings at the Nine Feet seam horizon associated with the Ynyscedwyn Colliery will be intersected in the area indicated in Figure 14.06. Currently these workings are isolated from those being worked through in the existing site by an in-situ underground barrier which comprises an un-worked block of solid strata. In addition, areas of previous underground mineworkings at a higher level in the Cornish seam will be intersected.

14.9.4 Previous mineworkings in the Brass seam, which lies approximately 15 to 18 metres below the Nine Feet, occur but will not be intersected by the proposed operations.

14.9.5 There are three drainage adits in the general area, which control the outflow of underground mineworkings water, the locations of which are shown in Figure 14.06.

14.9.6 To the north is the Yard Adit which is located at a level of approximately 122.5 metres AOD (associated with the International colliery). In the central area (and of relevance to the current operating site) is the Gwaun Clawdd Adit, which is located at a level of 106.1 metres AOD and associated with the Gwaun Clawdd colliery. The southernmost adit is the Cwm Du Adit which is located at a level of approximately 93.6 metres AOD and associated with the Ynyscedwen colliery. All three of the above adits drain into the River Tawe.

14.9.7 The current operation requires sump pumping to be undertaken with all water flowing through the site water treatment facility and then to the north-north-west and into the River Tawe. There is potential for natural drainage from the site due to the disposition of the Nine Feet contours which are favourably orientated in the north-eastern part of the site. Any natural flow from the site would be via the Gwaun Clawdd drift, a cross-measures decline drift which accesses the Nine Feet seam workings.

14.9.8 The current site is in the process of removing the in-situ barrier at Nine Feet seam level between the Gwaun Clawdd and Ynyscedwen workings. The removal of this barrier is likely to result in an increase in the discharge volume from the Cwm Du adit which is located at a lower elevation than the Gwaun Clawdd adit, i.e. 93.6m AOD versus 106.1m AOD respectively.

14.9.9 Whilst underground barriers between the various sets of workings isolated the individual collieries, within the mining blocks there is clear evidence of the inter-connection between mineworkings at various seam horizons, specifically between the Brass and Nine Feet. The implications of this are that below the lowest level at which Nine Feet workings are intersected in the proposed excavation the Brass seam workings will be flooded. In addition, all water entering the Brass workings located to the east and at a higher level than the lowest intercept point in the Nine Feet workings will flow into the base of the excavation void.

**Surface Workings**

14.9.10 The current operating site has been progressively working through old surface mine backfill deposits associated with the Abercrave/Gwaunton site. The proposed extension will similarly involve the re-excavation of old surface mine backfill associated with the same site.

14.9.11 The previous level of excavation was down to the pavement of the Upper Black seam which lies approximately 60 metres above the Nine Feet.

14.9.12 No significant groundwater is expected to be intersected in the backfill deposits. Groundwater, if any is encountered, is likely to be of limited volume and will almost certainly occur in isolated discontinuous zones, as is commonly the 'norm' for such deposits.

## 14.10 Site Investigation

14.10.1 Exploratory drilling over the south-western and south-eastern parts of the site was undertaken by British Coal leaving a significant central section with no exploration boreholes within it. Nevertheless, the working of the Abercrave/Gwaunton site confirmed the borehole data relevant to that site.

14.10.2 The area with no borehole cover is that within which the backfill deposits associated with the Abercrave/Gwaunton site occur. Strike water levels were noted in the boreholes and give an indication of the impact of the underground mineworkings barriers between the various mines on minewater. Boreholes are shown in Figure 14.07.

## 14.11 Piezometer and adit drainage data

**Piezometers**

14.11.1 Information for two piezometers (installed in the late 1990s with monitoring data extending back to 2003) located in Boreholes 3091 and 3092 indicates average water levels of 108.15 and 98.75 metres AOD respectively with a variation of between 109.04 and 101.96 in BH 3091, and 102.56 and 98.8 in BH 3092.

14.11.2 Borehole 3091 is located in the Gwaun Clawdd colliery workings, at Brass seam level, and Borehole 3092 in the Ynyscedwen colliery workings, at the Nine Feet level. The locations of both boreholes are shown in Figure 14.07 and are located along the bed of the dis-used railway line beyond the western site boundary.

14.11.3 Underground mineworkings abandonment plan information indicates linkage between the Brass and Nine Feet workings, the implications of which are indicated in section 14.9.

14.11.4 Monitoring data extending from March 2003 to November 2010 are shown in Appendix I2, Table No. 2.

14.11.5 The data show a reasonable consistency in the level recorded in the piezometer located in Borehole 3092 - varying between approximately 102 and 99 metres AOD, which shows a correlation with water level in the operating void sump.

14.11.6 A similar level of consistency can be seen in the piezometer located in Borehole 3091. A future potential drop in level may occur and would be of significance as it is

likely to correspond with the underground barrier between abandoned mineworkings in the Nine Feet seam in Gwaun Clawdd and Ynyscedwen collieries being breached by the current surface mining operations.

**Drainage Adits**

14.11.7 The discharge of water from three adits, the Yard, Gwaun Clawdd and Cwm Du, has been regularly monitored, data for which are shown in Appendix I2, Table No.2. The locations of the three adits are shown in Figures 14.06 and 14.08-10.

14.11.8 Field observations indicate that a noticeable reduction in flow rate from the Yard Adit has occurred from June 2010 and is likely to be related to pumping activity in the active site. For the Gwaun Clawdd Adit, significant reductions in the recorded flow rates from this adit have been recorded since November 2007, and since May 2010 minimal flow volumes have been noted. This reduction in flow corresponds with the current site's pumping operations whereby the water levels in the site have been at 95 to 110 metres AOD. The level at the Gwaun Clawdd outflow is 106.1 metres AOD. There is, therefore, direct linkage between the outflow and excavation activity at the Nine Feet horizon in the active site. For Cwm Du Adit, flow rates have remained reasonably consistent, allowing for normal acyclic trends. It is anticipated that with the breach of the underground barrier between the Gwaun Clawdd and Ynyscedwyn workings that flow will increase from the Cwm Du adit.

## 14.12 Hydrogeological characteristics of site deposits

14.12.1 The site lies in an area of high rainfall which over the past 3 years has seen an increase from 1.78 metres in 2007 to 2.28 metres in 2009, as of the end of November the total was 1.46metres. The rainfall commonly occurs in high intensity episodic events.

14.12.2 Due to a history of previous surface and underground mineworkings (and current surface workings) the site hydrogeology has been fundamentally altered and complicated. Within the proposed extension area there are potentially three distinct units, each of which is likely to have its own distinct hydrogeological character. They are:

- Un-disturbed superficial glacial deposits;
- Old surface mine backfill, and
- Coal Measures strata

**Glacial Deposits**

14.12.3 Good exposures of glacial deposits are available along the western advance face in the currently operating site and based upon experience within the site no significant variations have been recorded. Generally the deposits comprise a stiff, sandy clay with cobbles, boulders and fine gravel primarily consisting of sandstone clasts.

14.12.4 Minor discontinuous water-bearing sandy lenses and bands occur. No significant water-makes are evident though occasional discontinuous 'damp' patches can be observed along with minor scour failure cones around sandy horizons.

**Old Surface Mine Backfill**

14.12.5 The deposits can be clearly observed in the current operating site and are seen as typical surface mine backfill deposits comprising an irregular inhomogeneous mass of angular clasts of variable size of varying materials set in a moderately cohesive matrix.

14.12.6 Again, no significant water-makes / inflows from the deposits can be observed, though occasional minor seepages have been noted in the past. It is possible that some surface water infiltration into the deposits occurs, quantities of which may eventually emerge at lower levels as the ground falls away towards the north-west.

**Coal Measures Strata**

14.12.7 The Coal Measures strata are defined as a minor aquifer with the sequence containing a number of horizons which may potentially contain perched water. Generally such aquifers have low storativity and transmissivity. This is in contrast to the significant volumes of water and highly transmissive nature of the network of underground mineworkings at the various seam horizons, i.e. Cornish, Nine Feet and Brass.

14.12.8 Whilst in general terms the Coal Measures sequence is classified as an aquifer of no significance, where disturbed by underground mineworkings activity its water bearing potential can be radically changed. The collapse of the strata above mineworkings can give rise to enhanced fragmentation which may result in a significant increase in the strata's water-bearing capacity.

14.12.9 As noted in Section 14.1, the various Nant Helen sites which have progressed from north-east to south-west along seam incrops have intersected a series of abandoned underground mineworkings associated with the International, Gwaun Clawdd and Ynyscedwen collieries. The surface coal mine sites have been contiguous and as a result involved the breaching of underground in-situ barriers between the collieries leading to connection.

14.12.10 An assessment of borehole standing water levels as recorded (1997) in the above colliery blocks recorded 124.44m in International workings, 108.17m in Gwaun Clawdd workings and 100.52m AOD in Ynyscedwyn workings, i.e. decreasing levels, as followed to the south-west.

## 14.13 Comments on the validity of the previous Hydrogeological Model

14.13.1 A detailed hydrogeological assessment was undertaken as supportive documentation to the planning application associated with the current site. The key controlling element in the model was identified as the abandoned underground mineworkings which, prior to surface mining operations removing in-situ barriers, were hydraulically isolated from one another (other than the possibility of minor leakage occurring). The current site is working through the barrier between the Gwaun Clawdd and Ynyscedwyn workings.

14.13.2 It is expected that once the underground barrier is breached that there could be a drop in the recorded water level in piezometer 3091 which is located in Nine Feet workings associated with Gwaun Clawdd workings. Figures 14.08 to 14.10 which are associated with the application documentation for the current site, show existing conditions, conditions during the operational phase and conditions post-restoration respectively. The plans are based upon an assessment of underground mineworkings

barriers, seam contours, horizon interconnection and the influence of existing drainage adits.

14.13.3 From the plans it can be seen that the breaching of the underground barriers will result in a change in the flow pattern involving a larger element of water flowing towards the Cwm Du adit. It is considered likely that the model will hold true for the proposed site. The principal change, i.e. breach of mineworkings barrier, will occur in association with the currently consented site.

14.13.4 The monitoring of flow rates at the three drainage adits will continue during the life of the proposed extension site and its is expected that a trend towards an increased flow through the Cwm Du adit and potential reduction in the Gwaun Clawdd adit will occur. A test of the validity of the model has yet to occur but with the breach of the barrier between the Gwaun Clawdd and Ynyscedwen workings, resulting from the mining advance programmed for early 2011, the original hydrogeological assessment for the site can be validated.

14.13.5 It should be noted that there has been a recent flow of water into the void from the Nine Feet horizon along the western and north western sides of the site which may be confirmation of the validity of the anticipated hydrogeological model as shown in Figure 14.09 i.e. Hydrogeological Model – Operational Phase. Conditions will be continually monitored as the site develops.

## 14.14 Protected rights search

14.14.1 The Environment Agency Wales has been consulted for information with respect to licensed abstractions within a 1.5 kilometres search radius of the site centre. Details are contained in Appendix I3.

14.14.2 In summary, the only licensed feature within close proximity to the site is the reservoir at Gwaunclawdd Farm, Caerlan (water feature number 23). The feature is likely to have been formed on glacial boulder clay and therefore will not be affected by the proposed operation. Other licensed features occur at some distance to the north west of the site and are not likely to be affected by the proposed operation. There is one de-regulated which is a an abstraction from a spring ,the water from which flows into the river Tawe, and the others comprise a farm abstraction, a pond, a reservoir and abstractions from a tributary to the River Tawe. The features lie closer to the currently operating site and there are no reports of them having been affected by it.

14.14.3 In addition, under the Private Water Supplies Regulations 1992, the local authority has been consulted for details of exempt private water supplies in the area. There are no records of any interests in close proximity of the site.

## 14.15 Likely impacts of proposed operations on groundwater

14.15.1 As noted in Section 14.6, a number of material types with potentially very different hydrogeological characteristics and groundwater regimes contained within occur.

14.15.2 Within the superficial and old surface mine backfill deposits it is highly unlikely that there will be any groundwater systems of significance. Groundwater, if intersected, is likely to be low volume and without any appreciable flow rate, other than potentially an initial flow which reduces rapidly as pockets are de-watered, a phenomenon which has often been observed in working areas within the operating sites.

14.15.3 Within a 500 metres zone (an assumed zone beyond which it is highly un-likely that there could be any potential impacts associated with the proposed operation) extending beyond the proposed limit of excavation at surface minor diffuse seepages are evident from the rising moorland areas to the east and south-east of the site, and are thought likely to represent the outcrop position of minor sand horizons contained within the Glacial Drift. These features will not be affected by the proposed extension as their re-charge areas lie to the east and south of the emergence points.

14.15.4 There is no known hydrogeological connection between the operations at the site and any area of statutory protection.

14.15.5 Within the solid measures, and based upon experience in the currently operating site, it is unlikely that any significant strata inflows will occur. The major source of water inflow will be via the system of previous underground mineworkings roadways, extraction cavities and broken strata which overlie the worked areas.

14.15.6 The principal consequence associated with mining through the various areas of previous underground mineworkings in the extension area will be no different from within the currently consented operation.

14.15.7 It is possible that with the breach of the underground in-situ barrier at the Nine Feet seam horizon there will be an increase, during the operational phase, in the outflow from the Cwm Du adit with a decrease in the Gwaun Clawdd. The possible increase in outflow rate cannot be easily predicted though will be monitored during the operational phase of the site.

**Post-Restoration rebound**

14.15.8 Following the completion of coaling operation the final void will be infilled with overburden and the site restored to the consented restoration landform.

14.15.9 Infiltration into the backfill deposits to a greater or lesser extent may occur and therefore the deposits may or may not contain groundwater which may be affected by drainage via the Cwm Du adit. The lowest projected level of excavation at Nine Feet level in the proposed extension will be approximately 76 metres AOD which is approximately 17 metres below the level of the Cwm Du adit (93.6m AOD). If there is significant infiltration into the backfill, there will potentially be saturation below 93.6 metres AOD. It is likely therefore that upon restoration and groundwater re-bound in the backfill, some increased outflow from the Cwm Du adit will occur.

14.15.10 Due to the character of surface mine backfill with respect to its ability to contain and allow the passage of water, it is not possible to predict accurately whether there will be a significant build up of water level above that of the Cwm Du adit (93.6m AOD). It is possible that water levels could build up against the excavation sidewall along the western site boundary leading to infiltration into the strata which form the wall.

14.15.11 However, any seepage through the sidewall is likely to be via coal seam horizons in the excavation sequence and possibly sandy horizons contained within the overlying glacial drift deposits.

14.15.12 A programme of groundwater monitoring will be proposed 12 months before the completion of operations at the site. It is possible that this may involve the installation of a number of standpipe piezometers within areas of backfill.

14.15.13 The potential consequences of a re-bound in groundwater levels may be a re-activation of original spring-lines or the formation of new points of groundwater emergence.

14.15.14 As a part of the scheme it will be necessary to undertake a programme of post-restoration monitoring to identify any incidences of groundwater rebound and emergence at surface, and implement control measures as required.

**Acid Rock Drainage Potential (ARD)**

14.15.15 Within Coal measures strata varying quantities of pyrites (iron sulphide) can occur, typically associated with carbonaceous shales and coal seam horizons. Upon exposure to air the sulphide oxidises and converts into a water soluble oxide which in contact with water goes into solution with the effect of acidifying the water. The effects of the acidifying property of pyrites can be counter-balanced by the presence of carbonate rich minerals.

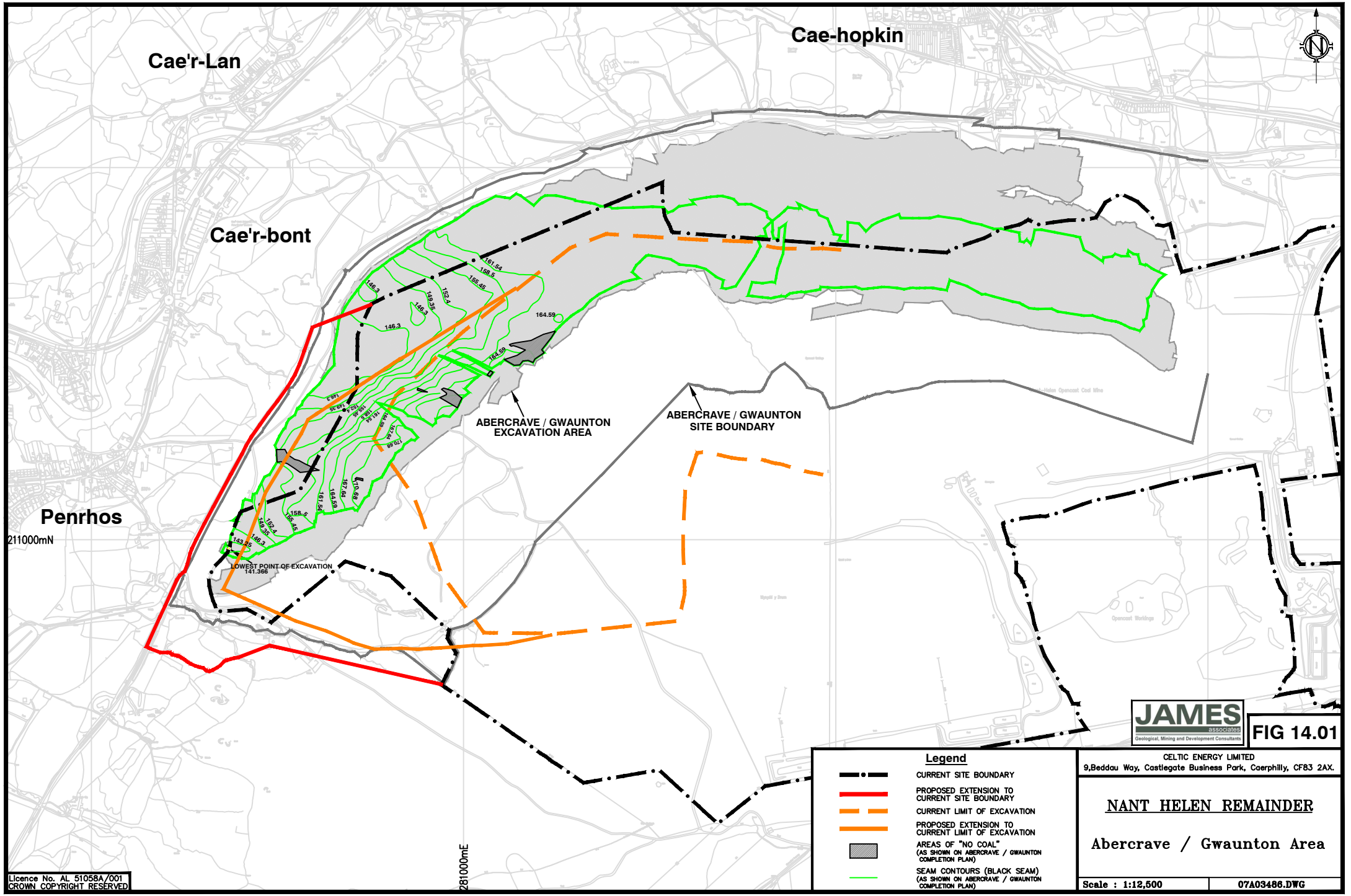
14.15.16 The excavation sequence in the proposed extension site is the same as that which is extracted in both the current and previous sites, associated with which there have been no recorded problems relating to acid rock drainage, primarily due to the presence of acid neutralising carbonate rich minerals contained within the sedimentary sequence. It is therefore anticipated that there will be no ARD problems arising as a consequence of the proposed operation.

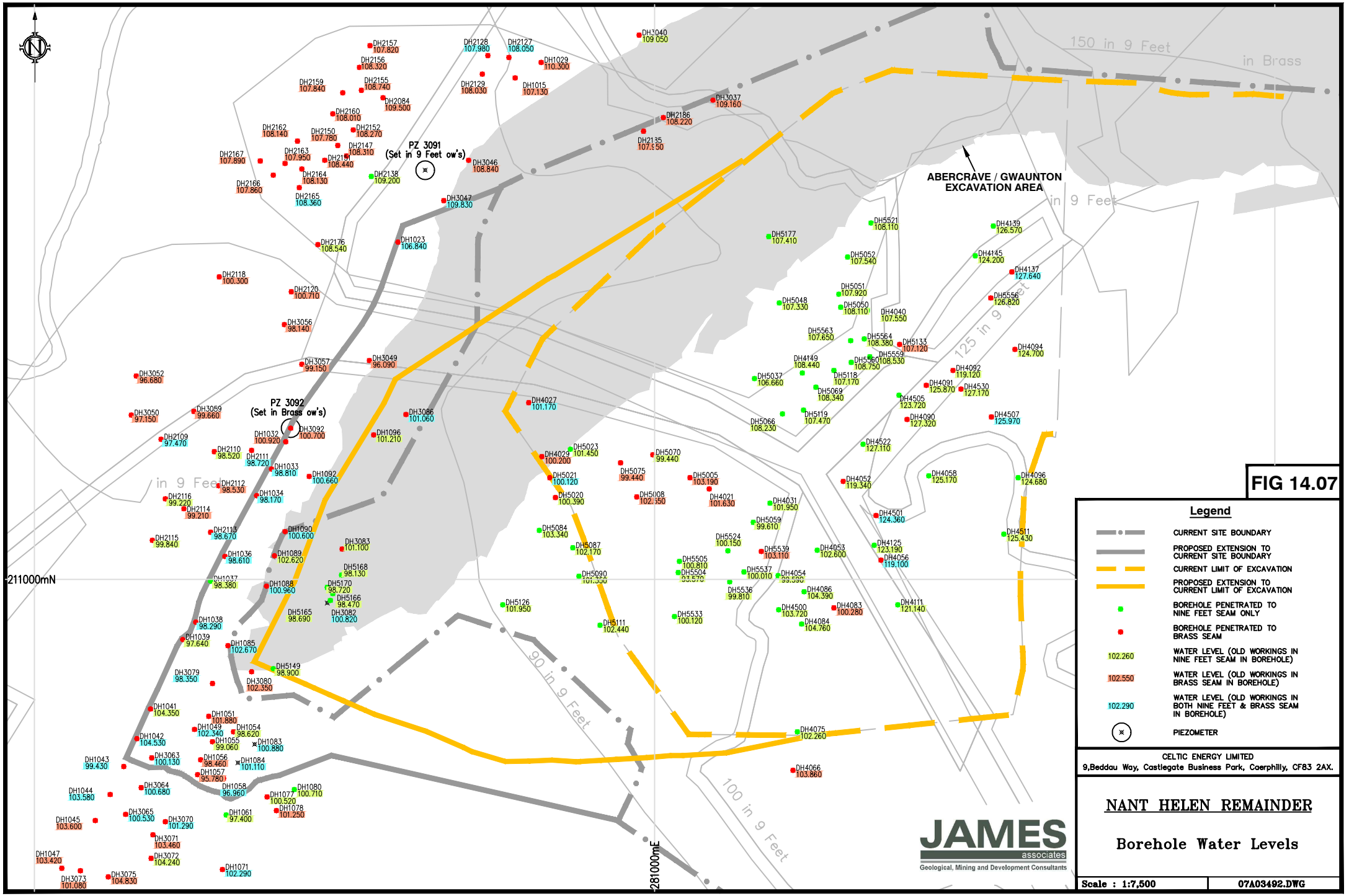
## 14.16 Monitoring.

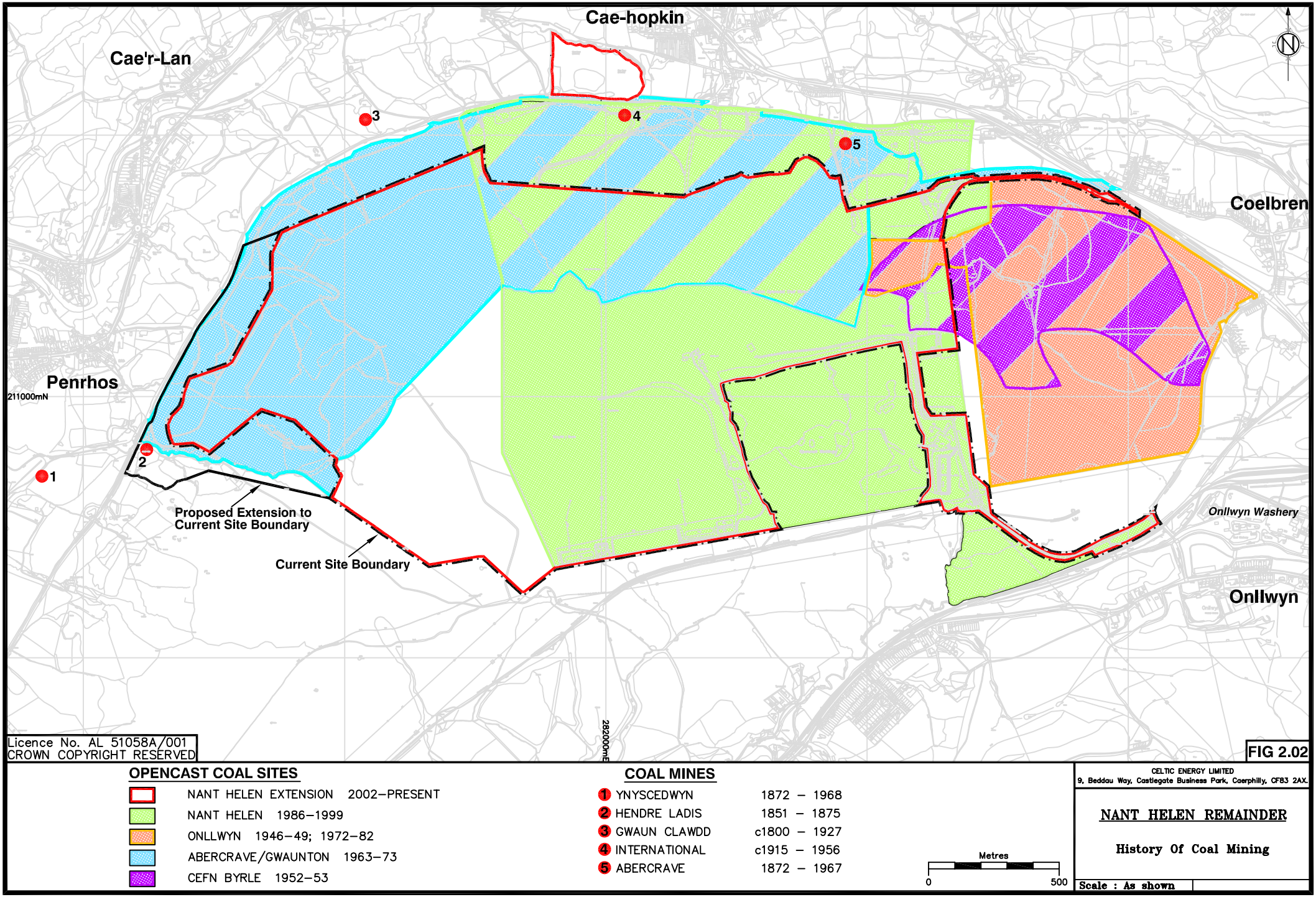
14.16.1 A scheme of monitoring will be agreed with the Environment Agency Wales no later than 12 months before the completion of coaling on the site. In the interim routine monitoring of piezometers and the three drainage adits will be undertaken and results submitted to the EAW on an annual basis or whatever frequency is reasonably requested.

## 14.17 Conclusions

14.17.1 On the basis of the above assessment of hydrogeology, it is concluded that the proposed Nant Helen Remainder site will not cause any additional impact than that predicted for the current site. Old underground mine workings will control the drainage from the site and upon restoration.


Cae'r-Lan
Cae-hopkin
Cae'r-bont
Penrhos
211000mN
281000mE
ABERCRAVE / GWAUNTON EXCAVATION AREA
ABERCRAVE / GWAUNTON SITE BOUNDARY
LOWEST POINT OF EXCAVATION 141.366
Legend
CURRENT SITE BOUNDARY
PROPOSED EXTENSION TO CURRENT SITE BOUNDARY
CURRENT LIMIT OF EXCAVATION
PROPOSED EXTENSION TO CURRENT LIMIT OF EXCAVATION
AREAS OF "NO COAL" (AS SHOWN ON ABERCRAVE / GWAUNTON COMPLETION PLAN)
SEAM CONTOURS (BLACK SEAM) (AS SHOWN ON ABERCRAVE / GWAUNTON COMPLETION PLAN)
JAMES associates
Geological, Mining and Development Consultants
FIG 14.01
CELTIC ENERGY LIMITED
9,Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX.
NANT HELEN REMAINDER
Abercrave / Gwaunton Area
Scale : 1:12,500
07A03486.DWG
Licence No. AL 51058A/001
CROWN COPYRIGHT RESERVED


PZ 3091
(Set in 9 Feet ow's)
PZ 3092
(Set in Brass ow's)
ABERCRAVE / GWAUNTON
EXCAVATION AREA
150 in 9 Feet
in Brass
in 9 Feet
125 in 9 Feet
90 in 9 Feet
100 in 9 Feet
211000mN
281000mE
FIG 14.07
Legend
CURRENT SITE BOUNDARY
PROPOSED EXTENSION TO CURRENT SITE BOUNDARY
CURRENT LIMIT OF EXCAVATION
PROPOSED EXTENSION TO CURRENT LIMIT OF EXCAVATION
BOREHOLE PENETRATED TO NINE FEET SEAM ONLY
BOREHOLE PENETRATED TO BRASS SEAM
102.260 WATER LEVEL (OLD WORKINGS IN NINE FEET SEAM IN BOREHOLE)
102.550 WATER LEVEL (OLD WORKINGS IN BRASS SEAM IN BOREHOLE)
102.290 WATER LEVEL (OLD WORKINGS IN BOTH NINE FEET & BRASS SEAM IN BOREHOLE)
PIEZOMETER
CELTIC ENERGY LIMITED
9,Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX.
NANT HELEN REMAINDER
Borehole Water Levels
JAMES associates
Geological, Mining and Development Consultants
Scale : 1:7,500
07A03492.DWG


Cae-hopkin
Cae'r-Lan
Coelbren
Penrhos
211000mN
Onllwyn
Onllwyn Washery
1
2
3
4
5
Proposed Extension to Current Site Boundary
Current Site Boundary
282000mE
Licence No. AL 51058A/001
CROWN COPYRIGHT RESERVED
FIG 2.02
OPENCAST COAL SITES
NANT HELEN EXTENSION 2002–PRESENT
NANT HELEN 1986–1999
ONLLWYN 1946–49; 1972–82
ABERCRAVE/GWAUNTON 1963–73
CEFN BYRLE 1952–53
COAL MINES
1 YNYSCEDWYN 1872 – 1968
2 HENDRE LADIS 1851 – 1875
3 GWAUN CLAWDD c1800 – 1927
4 INTERNATIONAL c1915 – 1956
5 ABERCRAVE 1872 – 1967
Metres
0
500
CELTIC ENERGY LIMITED
9, Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX.
NANT HELEN REMAINDER
History Of Coal Mining
Scale : As shown

0 200 400 600 800m

N

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Abercrave
Cae'r-Lan
Cae'r-bont
Cae-Hopkin
Coelbren
Penrhos
Onllwyn
Seven Sisters
BRECON BEACONS NATIONAL PARK
Afon Tawe
A4067
A4221
B4599
A4109
Nant Llech
Sustrans Cycle Track
POWYS
NEATH PORT TALBOT
Dulais
Restored Derelict Land (2010)
Restored Land (1993 - 1998)
Restored Land (1980 - 1990)
Restored Land (1995 - 2000)
Restored Land ('95 - '00)
Overburden Storage Area
Existing Void
Surcharge Mound
Soil Mound
Soil Mounds
Plant Maintenance Area
Coal Stocking Area
Main Site Access
Site Access (Coal traffic)
Onllwyn Washery
Managed Land
COAL HAUL ROUTE
WATER TREATMENT AREA
Air shaft (Listed building & Scheduled Monument)

**Key**

- Site boundary
- Proposed extraction void
- Brecon Beacons National Park boundary
- Unitary Authority boundary
- Site contours @ 4m intervals
- Surrounding contours @10m intervals
- Steep slopes within extension site
- Existing footpath
- Existing bridleway
- Suspended footpaths within site
- Existing SUSTRANS cycle route
- Proposed SUSTRANS cycle route
- Existing CROW Open Access Land
- Broadleaved Woodland
- Coniferous Woodland
- Scrub
- Unimproved Grassland
- Natural Wetland: Bog, Fen & Swamp
- Improved Agricultural Grassland
- Upland Grazing Grassland
- Tips
- Playing Fields and Outdoor Sports Facilities
- Amenity Greenspace
- Domestic Gardens
- Cemeteries & Churchyards
- Rivers, Streams and Ponds

CELTIC ENERGY LIMITED
9, Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX

Project:

# Nant Helen Remainder

Drawing Title:

## Site Context

| Drawing No. | Drawn by TP | Date December 2010 |
|---|---|---|
| **10.02** | Scale @ A3 1:14,000 | Revision - |

wyg.

CELTIC ENERGY