

Archaeological Desk-based Assessment: Ffos-y-Fran Final Restoration Strategy

November 2024



Report No. 2321

By

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Prepared for Merthyr (South Wales) Ltd

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Summary

Archaeology Wales have been commissioned by Merthyr (South Wales) Ltd to carry out an archaeological desk-based assessment in order to assess the likely impacts which could result from the implementation of the final restoration strategy proposed for the former open cast mine at Ffos-y-Fran, Merthyr Tydfil.

The proposals include the retention of a groundwater lake that has formed naturally in the main void following cessation of coal extraction and when the pumping operation was no longer required. The sides of the main void will be re-profiled and using existing spoil material and the material from the overburden mound OB1.

Details of the scheme are subject to amendments following a consultation period, however, the overall plan has the potential to improve the visual amenity of the landscape and its surrounds.

The restoration area lies within the Merthyr Tydfil Landscape of Outstanding Historic Interest in Wales (HLW (MGL) 2) and lies just over 650m north-west of the Gelligaer Common Landscape of Special Historic Interest (HLW (MGI) 4). The proposed scheme aims to improve the aesthetics of the extraction area and remaining overburden mounds, improving the visible setting of both registered landscapes from their current status. The scheme also allows to make the restoration area safe therefore improving the accessibility to, and continued maintenance of the Merthyr Historic Landscape.

There is a one Scheduled Monument (SM) within the bounds of the proposed restoration area, Sarn Howell Pond and Watercourses (GM494) and another just beyond the bounds, the Ffos-y-fran Deserted Iron Mining Village (GM496). The proposals intend to retain and maintain the Sarn Howell Pond and Watercourses incorporating them into the final design. This will result in a more accessible site with a potential for educational opportunities. The planned revegetation of the area will improve the setting of the monuments. There will be no significant impacts to any other SMs.

There is one Listed Building within the bounds of the site, the Timber Aqueduct (LB16143). The impact of the proposed restoration scheme to this asset would have the same benefits as those to the Sarn Howell Pond. These assets form part of the Dowlais Free Drainage System (DFDS) and would be incorporated into the final design of the restoration providing better accessibility and educational opportunities. No significant impacts are projected for any other Listed Buildings or any Conservation Areas. Where the site is visible from isolated locations, the views would be improved by revegetation and reprofiling.

Within the redline boundary 190 heritage assets have been identified, 36 of these have

not been directly impacted during the extraction phase and will not be subject to direct impacts during the current proposals. Sixty-eight of the identified sites have records of mitigation previously having been undertaken, however a number of these are lacking the final stages of reporting and archiving. Eighty-six of the sites are most likely destroyed, without evident mitigation, 62 within the extraction area and 24 within the area of the overburden mounds. There is a potential for mitigation having been carried out which is not yet in the public realm.

The restoration works do not propose any direct impacts to non-designated assets which remain following the main extraction works. Although, without the completion of the former mitigation works (full reporting and depositing with the HER/RCAHMMW), many of the sites within the redline boundary are formally unmitigated.

Recommendations for mitigation comprise the conclusion of the previous mitigation strategies through final reporting and archiving. As a part of the final stage of the restoration, there would be enormous benefit in the compilation and dissemination of the research which has been carried out during the Stage III Ffos-y-fran Reclamation scheme and concluding the extensive archaeological work that has already been undertaken.

The proposed restoration scheme will continue to add to the value of the landscape improving the accessibility to, and continued maintenance of, the surviving heritage assets and overall historic landscape. The scheme provides educational opportunities through the dissemination of the research which has been carried out and possibly the inclusion of information panels and heritage walking routes into the final design.

Crynodeb Annechnegol

Comisiynwyd Archaeology Wales gan Merthyr (South Wales) Cyf i gynnal asesiad desg archeolegol i asesu'r effaith debygol o ganlyniad i weithredu'r strategaeth adfer terfynol a gynigwyd ar gyfer y pwll glo brig blaenorol yn Ffos-y-fran, Merthyr Tudful.

Mae'r cynigion yn cynnwys cynlluniau i lenwi'r prif dwll i uchder o tua 300m AOD gyda thua 4.2 miliwn metr ciwbig o ddeunydd gorlwyth o OB1. Mae manylion y cynllun yn destun diwygiadau yn dilyn cyfnod ymgynghori, fodd bynnag mae potensial i'r cynllun cyffredinol wella amwynder gweledol y dirwedd a'i chyffiniau.

Mae'r ardal adfer yn gorwedd o fewn Tirwedd o Ddiddordeb Hanesyddol Eithriadol Merthyr Tudful yng Nghymru (HLW (MGL) 2) ac mae'n gorwedd ychydig dros 650m i'r gogledd-orllewin o Dirwedd o Ddiddordeb Hanesyddol Arbennig Tir Comin Gelligaer (HLW (MGI) 4). Bwriad y cynllun arfaethedig yw gwella ymddangosiad yr ardal echdynnu a'r tomenni o orlwyth sy'n weddill, gan wella lleoliad gweledol y naill dirwedd gofrestredig a'r llall o'u statws presennol. Mae'r cynllun hefyd yn caniatáu gwaith i ddiogelu'r ardal adfer gan wella'r mynediad i Dirwedd Hanesyddol Merthyr a'r gwaith parhaus o'i chynnal a'i chadw.

Ceir un Heneb Gofrestredig o fewn ffiniau'r ardal adfer arfaethedig, sef Pwll a Chyrsiau Dŵr Sarn Howell (GM494), ac un arall ychydig y tu hwnt i'r ffiniau, sef Pentref Cloddio Haearn Diffaith Ffos-y-fran (GM496). Bwriad y cynigion yw cadw a chynnal Pwll a Chyrsiau Dŵr Sarn Howell gan eu cynnwys yn y dyluniad terfynol. Bydd hyn yn arwain at safle mwy hygyrch gyda'r posibilrwydd o gyfleoedd addysgol. Bydd y gwaith aildyfu arfaethedig yn yr ardal yn gwella lleoliad yr henebion. Ni fydd effeithiau arwyddocaol ar unrhyw henebion cofrestredig eraill.

Ceir un Adeilad Rhestredig o fewn ffiniau'r safle, sef y Ddyfrbont Bren (LB16143). Byddai effaith y cynllun adfer arfaethedig ar yr ased hwn yn dod â'r un buddion â rhai Pwll Sarn Howell. Mae'r asedau hyn yn llunio rhan o System Draenio Rhydd Dowlais a byddent yn cael eu cynnwys yn nyluniad terfynol y gwaith adfer gan ddarparu mynediad gwell a chyfleoedd addysgol. Ni ragwelir unrhyw effeithiau arwyddocaol ar gyfer unrhyw Adeiladau Rhestredig neu Ardaloedd Cadwraeth eraill. Lle y bo'r safle i'w weld o leoliadau anghysbell, byddai'r golygfeydd yn cael eu gwella drwy waith adfer ac ailbroffilio.

O fewn y ffin llinell goch, mae 190 o asedau treftadaeth wedi'u nodi. Ni chafodd 36 o'r rhain e'u heffeithio'n uniongyrchol yn ystod y cam echdynnu a ni fyddant yn destun effeithiau uniongyrchol yn ystod y cynigion presennol. Mae gan 68 o'r safleoedd a nodwyd gofnodion o waith lliniaru blaenorol, ond mae diffyg camau terfynol adrodd ac archifo ar gyfer nifer o'r rhain. Mae'n debygol bod 86 o'r safleoedd wedi'u dinistrio,

heb waith lliniaru amlwg, gyda 62 ohonynt o fewn yr ardal echdynnu a 24 o fewn ardal y tomenni gorlwyth. Mae posibilrwydd bod gwaith lliniaru wedi'i gynnal nad yw eto'n gyhoeddus.

Nid yw'r gwaith adfer yn cynnig unrhyw effeithiau uniongyrchol ar asedau heb eu dynodi a fydd yn parhau yn dilyn y prif waith echdynnu. Er hynny, heb gwblhau'r gwaith lliniaru blaenorol (adroddiadau llawn a chyflwyno i'r Cofnod Amgylcheddol Hanesyddol/CBHC), nid yw nifer o'r safleoedd o fewn y ffin llinell goch wedi'u lliniaru'n ffurfiol.

Mae'r argymhellion ar gyfer gwaith lliniaru'n cynnwys y strategaethau lliniaru blaenorol drwy adroddiadau terfynol ac archifo. Fel rhan o gam olaf y gwaith adfer, byddai budd enfawr yn sgil gasglu a dosbarthu'r gwaith ymchwil a gynhaliwyd yn ystod Cam III cynllun adfer Ffos-y-fran a gorffen y gwaith archeolegol eang a gynhaliwyd eisoes.

Bydd y cynllun adfer arfaethedig yn parhau i ychwanegu gwerth i'r dirwedd gan wella hygyrchedd yr asedau treftadaeth sydd wedi goroesi a'r dirwedd hanesyddol gyffredinol, a'r gwaith parhaus o'u cynnal a'u cadw. Mae'r cynllun yn darparu cyfleoedd addysgol drwy ledaenu'r gwaith ymchwil a gynhaliwyd ac o bosibl y gwaith o gynnwys panelau gwybodaeth a llwybrau cerdded treftadaeth yn y dyluniad terfynol.

1. Introduction

- 1.1.1. Archaeology Wales have been commissioned by Merthyr (South Wales) Ltd (henceforth MSW) to carry out an archaeological desk-based assessment in order to assess the likely impacts which could result from the implementation of the final restoration strategy, proposed for the former open cast mine at Ffos-y-Fran, Merthyr Tydfil CF48 4AE, approximately centred on SO 07610 06289 (Figure 1).
- 1.1.2. The Desk-based Assessment (DBA) will help inform future decision making, design solutions and potential mitigation strategies. The aim is to make full and effective use of existing information in establishing the cultural heritage significance of the site and surrounding areas to elucidate the presence or absence of cultural heritage assets, their character, distribution, extent, condition and relative significance.
- 1.1.3. The DBA will provide information of sufficient detail to allow informed planning decisions to be made, the requirements for which are set out in Planning Policy Wales (Edition 12, February 2024), Section 6.1 and Technical Advice Note (TAN) 24: The Historic Environment (2017). This will enable MSW to safeguard and/or seek to minimise harm to the heritage resource. Preservation in situ is advocated where at all possible, but where engineering or other factors could result in the loss of archaeological features, preservation by record is recommended.
- 1.1.4. All work will conform to the Standard and Guidance for Archaeological Desk Based Assessment (CIfA, 2020) and be undertaken by suitably qualified staff to the highest professional standards.

2. Site Description

- 2.1.1. The site lies approximately 1.5 kilometres east of Merthyr Tydfil town centre. It is an extensive area of former open cast mining operations covering circa 400 hectares, at Cwmbargoed, centred on SO 07610 06289.
- 2.1.2. The underlying geology comprises mudstone, siltstone and sandstone of the South Wales Middle Coal Measure Formations of the Carboniferous Period. This is overlain by Devensian Till (BGS 2024), although much of the restoration area has been stripped of its superficial geology during the mining process.

3. Methodology

- 3.1.1. The primary objective of this DBA is to assess the potential impact of the development proposals on the historic environment. This will help inform future decision making, design solutions and potential mitigation strategies. The aim is to make full and effective use of existing information in establishing the heritage/archaeological significance of the site to elucidate the presence or absence of heritage/archaeological material, its character, distribution, extent, condition and relative significance.
- 3.1.2. The work includes a comprehensive assessment of regional context within which the heritage/archaeological evidence resides and aims to highlight any relevant research issues within national and regional research frameworks.
- 3.1.3. This report provides information of sufficient detail to allow informed planning decisions to be made which can safeguard the heritage/archaeological resource.
- 3.1.4. Preservation in situ has been advocated where at all possible, but where engineering or other factors could result in the loss of archaeological deposits,

preservation by record has been recommended.

3.1.5. This assessment considers the following:

- a) The nature, extent, and degree of survival of archaeological sites, structures, deposits, and landscapes within the study area through assessment of various readily available primary sources:
 - i. Collation and assessment of all relevant information held in the regional HER, within the bounds of the development.
 - ii. Collation and assessment of the impact on all Designated archaeological sites (Scheduled Ancient Monuments, Listed Buildings, Historic Parks & Gardens, landscapes, Conservation Areas) within 3km study area around the proposed development.
 - iii. Assessment of all available excavation reports and archives including unpublished and unprocessed material affecting the site and its setting.
 - iv. Assessment of aerial photographic and satellite imagery evidence.
 - v. Assessment of archive records held at the County Archive, the National Library of Wales (NLW) and the Royal Commission on Ancient and Historical Monuments in Wales (RCAHMW).
 - vi. Records held by the developer e.g. bore-hole logs, geological/geomorphological information, aerial photographs, maps, plans.
 - vii. Map regression analysis using all relevant cartographic sources e.g. all editions of the Ordnance Survey County Series, Tithe and early estate maps (as available).
 - viii. Place-name evidence.
 - ix. Historic documents (e.g. charters, registers, estate papers).
- b) The significance of any remains in their context both regionally and nationally and in light of the findings of the desk-based study.
- c) The history of the site.
- d) The potential impact of any proposed development on the setting of known

sites of heritage/archaeological importance.

- e) The potential for further heritage/archaeological remains to be present, which have not been identified in pre-existing archaeological records.
- f) The potential for further work, with recommendations where appropriate for a suitable investigative and/or mitigation methodology.

3.1.6. In assessing the value of heritage/archaeological assets, and the potential impacts upon them by the proposed development, the terms and guidance used in the Design Manual for Roads and Bridges, Volume 11, Section 3 (Highways England 2007) has been utilised. Values are given as:

Value	Description
Very High	World Heritage Sites (including nominated sites). Assets of acknowledged international importance. Assets that can contribute significantly to acknowledged international research objectives.
High	Scheduled Monuments (including proposed sites) . Assets of national importance. Assets that contribute to regional research objectives.
Medium	Assets of regional importance. Assets that contribute to regional research objectives. Assets with lower levels of preservation
Low	Assets of local importance. Includes locally listed buildings and assets of limited value or poor preservation
Negligible	Assets with little surviving archaeological or historic interest.
Unknown	The importance of the resource has not been ascertained

3.1.7. The magnitude of the potential impact on the heritage/archaeological assets (which can be either positive or negative) is given as:

Magnitude	Description
Major	Change to most or all key heritage/archaeological materials, such that the resource is totally altered; comprehensive changes to setting
Moderate	Changes to many key heritage/archaeological materials, such that

	the resource is clearly modified; considerable changes to setting that affect the character of the asset
Minor	Changes to key heritage/archaeological materials, such that the asset is slightly altered; slight changes to setting
Negligible	Very minor changes to heritage/archaeological materials, or setting
No Change	No loss or alteration. Change not distinguishable or does not result in loss of heritage significance

- 3.1.8. This work conforms to the Standard and Guidance for Archaeological Desk-Based Assessment, as produced by the Chartered Institute for Archaeologists (CIfA 2020).

4. Archaeological and Historical Background

4.1. Previous archaeological studies

- 4.1.1. There are 13 previous archaeological studies recorded on the HER within the bounds of the proposed development. The most relevant are summarised below.
- 4.1.2. Between 2005 and 2010 The Glamorgan-Gwent Archaeological Trust (GGAT) conducted the Southeast Wales Industrial Ironworks Project. This project was instigated in response to the ongoing threats faced by the industrial remains of southeast Wales. The aim of the project was to assess the current state of survival/preservation of ironworks landscapes in the northern coalfield rim to inform conservation, protection and management of these monuments and their associated landscapes (PRN E000954).
- 4.1.3. A number of archaeological investigations were undertaken by GGAT between 2001-2009, as a part of the wider mitigation strategy relating to the current reclamation, prior to, and during, the surface extraction of coal. As one of the

most important industrial landscapes in the world, the archaeological investigations, provided an opportunity for a significant and holistic analysis of an internationally important industrial landscape.

- 4.1.4. These works were carried out within areas referred to as OB2, OB3 and the Boxcut. Within OB2, the Soap Vein pithead (GGAT07143m) and associated dam, and the Longtown Dam and valve house, and elements of the Dowlais Free Drainage System (DFDS)(GGAT05066m) were recorded. Within the OB3 area, over 200 evaluation trenches recorded further features of the DFDS as well as tramroads, a cairn and cremation burial site and a brickworks. Excavations carried out in the area of the Boxcut included the recording of No.1 Pit (GGAT07148m), No.2 Pit, No.4 Pit and the partial recording of No.6 Pit as well as a Settlement area (GGAT07091m), a bridge parapet (GGAT04340m), the Crown Patch workings along with culverts and workings associated with the earlier mining activity. Other features recorded outside of these main areas include the Penydarren platform (GGAT02760m) and the lifting of, and subsequent preservation of the listed aqueduct (LB16143).
- 4.1.5. The post-excavation assessment concluded that further analysis of the site archive as well as the finds and environmental assemblage would be required, and post-excavation analysis reporting archiving was proposed (Hart and Tuck 2011).
- 4.1.6. In 2015 GGAT returned to record the remains of Pen-y-waun-fawr Pit. Structural remains noted comprised brick and stone structures (E007399).
- 4.1.7. In May 2018 AW carried out a building survey in advance of the demolition of Tyle Dowlais Pit building. The pit structure had been revealed during initial ground works to progress the mining activity in this area. Due to health and safety constraints, the building survey was carried by desk-based research, visual inspection (remote to c.10m) and by use of a drone (Archaeology Wales,

2018).

- 4.1.8. In 2014 GGAT carried out a topographic and geophysical survey on an area in the southern part of the development boundary. The survey produced little evidence for significant occupation activity although the survey of the cairns concluded that the close relationship between cairns and banks makes it likely that they are agricultural, rather than funerary structures. A recommendation for evaluation trenching on the cairns was suggested if further work was to be carried out in this area. (Hart & Young 2014)

4.2. The Historic Landscape

- 4.2.1. The restoration area is within the Merthyr Tydfil Landscape of Outstanding Historic Interest in Wales (HLW (MGL) 2) which is identified within the Register of Landscapes of Historic Interest in Wales, published by Cadw, CCW and ICOMOS UK in 1998 (Figure 2).
- 4.2.2. Merthyr Tydfil occupies a natural basin at the head of the Taff valley. High hills and ridges reach 450m above OD on all sides, with development constrained to the basin floor and smaller tributary valleys of the Taff, which itself provides the only natural route out of the basin to the south-east. The town is a potent example of an internationally renowned industrial landscape of the 18th and 19th centuries. The present appearance of the landscape within the historic landscape area is largely due to the rapid growth of the iron and coal industries in the region during the 19th century. This comprises numerous relict elements and foci. These individual elements consist of the remains of large ironworks, remnants of the associated coal mining industry, waterpower leats, an early iron bridge, communication systems, including early tramroads, tips, terraced industrial housing, and the ironmasters house, Cyfarthfa Castle. At the Dowlais Ironworks the remains include the great stables and the blast-engine house, which have been restored. Locally, early communication systems survive,

though to varying degrees. (Cadw et al, 1998, Roberts 2003).

- 4.2.3. The Merthyr Tydfil Landscape of Outstanding Historic Interest in Wales (HLW (MGL) 2) is subdivided into smaller Historic Landscape Character Areas (HLCAs). The proposals lie within the areas of HLCA078: Dowlais Great Tip, Trecatti, Trehir and Twyn-y-Waun, HLCA039: Ffos-y-fran, H:CA031: Merthyr Common Central, HLCA032: Cwm Bargoed Washery, HLCA033: Garth Fawr Unimproved Common, HLCA075: Garth Fawr Improved Common and HLCA076: Taff Bargoed. The most significant elements of the proposals are within HLCA078, HLCA039, HLCA031.
- 4.2.4. The Glamorgan-Gwent Archaeological Trust carried out an examination of the HLCAs for the Merthyr Registered Landscape (Roberts 2003). This document describes the character of each area.
- 4.2.5. HLCA039 is described as a nationally important Industrial landscape, the area is dominated by coal and ironstone workings along the western outcrop of Merthyr Common, associated with the Dowlais and Penydarren Ironworks (Roberts 2003). The Dowlais Free Drainage System also forms part of this landscape although the greater part of it falls within HLCA031 described below.
- 4.2.6. HLCA031 is primarily characterised by water management features associated with the Dowlais Free Drainage System, an ingenious system of reservoirs and leats dating in part to c 1818, was constructed and embellished over a period of over seventy years to supply water to the coalmines and ironworks of Dowlais. The area also contains extractive features and transport networks (Roberts 2003).
- 4.2.7. HLCA078 is described as a reclaimed industrial landscape; since subject to reclamation, opencast and landfill, or combinations thereof. It is the former

site of multi-period extractive and drainage features associated with the Dowlais Ironworks. It is also the former site of industrial and post-medieval upland settlements and of a regionally important Medieval Fair/market. It goes on to summarise that nothing of historic interest lied above ground (Roberts 2003).

- 4.2.8. Within the 3km Study Area lies the Registered landscape of Gelli-Gear Common (MGI) 4. The landscape represents an increasingly rare survival in south-east Wales of an area of high upland moor rich in a diverse archaeological resource. The landscape of the Common contains a rich diversity of archaeological sites, demonstrating a long continuity of human occupation and activity from the prehistoric to modern period (Cadw et al, 1998). The HLCA within the study area (HLCA 006 Pen Garnbugail/ Mynydd Fochriw Open Common) is characterised as high upland moorland environment distinguished for the intensity of relict archaeology mainly prehistoric funerary monuments, important medieval settlements and field systems with the well-preserved Roman Road forming a key landscape feature (Hill, 1999)
- 4.2.9. The Registered Park and Garden, Cyfarthfa Castle - PGW(Gm)1(MER) (Figure 3), is located approximately 2km to the west of the restoration area. The park is a Grade II* formal garden dating to the 19th century. Within the park is the home of one of the most historically important ironmasters who resided in Wales, William Crawshay II. It is adjacent to the Cyfarthfa Ironworks (GM425) which William Crawshay II managed on behalf of his father, William Crawshay I, following the death of his grandfather Richard Crawshay in 1810.

4.3. Conservation Areas

- 4.3.1. There are no Conservation Areas within the bounds of the site. There are seven within the 3km study area (Table 1, Figure 3). The nearest being Dowlais which

is adjacent to the site, immediately to the north of the extraction area.

Table 1. Conservation Areas within 3km.

Name	Distance from site
Dowlais	300m
Thomastown, Merthyr Tydfil	1km
Town Centre, Merthyr Tydfil	1.2km
Morgantown, Merthyr Tydfil	1.3km
Cyfarthfa, Merthyr Tydfil	1.5km
Rhymney Town	2.5km
Bute Town	2.6km

4.4. Scheduled monuments

- 4.4.1. There is a one SM within the bounds of the proposed restoration area, Sarn Howell Pond and Watercourses (GM494) and another just beyond the bounds, the Deserted iron Mining Village (GM496). A further 26 are within the 3km study area (Figure 3; Table 2).
- 4.4.2. The Sarn Howell Pond and watercourses comprises a collection of water management features which formed part of the Dowlais Free Drainage System (DFDS). This gravity fed network of leats and reservoirs provided the Dowlais Ironworks and its coalmines with its water supply leading to its expansion into the largest ironworks in the world. Much of the DFDS survives today, one of the key components, the Sarn Howell Pond, still prominent in the landscape today.
- 4.4.3. Located immediately to the west of Sarn Howell is the Ffos-y-fran Deserted Iron Mining Village. This monument comprises earthworks relating to a likely squatter settlement and mining activities. The monument description noted that there are the foundations of at least fifteen cottages as well as quarry outlines and spoil tips (Cadw 1997).
- 4.4.4. Of the remaining SMs, four are prehistoric religious monuments (cairns and standing stones), three are to the south-east of the restoration area and one

to the north-west. Just one monument is of Roman date, a section of Roman road also to the south-east of the restoration area.

- 4.4.5. Three of the monuments are relating to the medieval period, one being the prominent Morlais Castle which lies just within 3km north-west of the restoration area, the remaining medieval sites comprise medieval hut/house platforms, both approximately 2km south-east of the restoration area.
- 4.4.6. The remaining SMs are of post-medieval/modern date relating to the industrial history of the area or transport serving it, the only exception being Cwm Glo Chapel.

Table 2. Scheduled Monuments within 3km search area

SM ID	Name	Period
GM424	Pont y Cafnau Tramroad Bridge	Post Medieval/Modern
GM467	Cyfarthfa Canal Level	Post Medieval/Modern
GM222	Merthyr Common Round Cairns	Prehistoric
GM028	Morlais Castle	Medieval
GM496	Deserted Iron Mining Village, Ffos-y-fran	Post Medieval/Modern
GM594	Merthyr Tramroad: Morlais Castle section	Post Medieval/Modern
GM611	Cwm Glo pit and ironstone tip	Post Medieval
GM486	Iron Canal Bridge from Rhydyar	Post Medieval/Modern
GM494	Sarn Howell Pond and Watercourses	Post Medieval/Modern
GM331	Ynys Fach Iron Furnaces	Post Medieval/Modern
GM478	Gurnos Quarry Tramroad & Leat	Post Medieval/Modern
GM221	Gelligaer Common Standing Stone	Prehistoric
GM314	Platform Houses and Cairn Cemetery on Dinas Noddfa	Medieval
GM320	Platform Houses on Coly Uchaf	Medieval
GM403	Rhymney Upper Furnace	Post Medieval/Modern
GM220	Gelligaer Common Round Cairns	Prehistoric
GM425	Remains of Blast Furnaces, Cyfarthfa Ironworks	Post Medieval/Modern
GM479	Tai Mawr Leat for Cyfarthfa Iron Works	Post Medieval/Modern
GM556	Gelligaer Common Roman Road	Roman
GM563	Morlais Hill ring cairn	Prehistoric
GM572	Abercanaid haystack boiler	Post Medieval/Modern
GM573	Merthyr Tramroad Tunnel (Trevithick's Tunnel)	Post Medieval/Modern
GM610	Cwm Glo Chapel	Post Medieval
GM607	Cwm Pit and head of railway	Post Medieval/Modern
GM606	Vale of Neath railway cutting and tunnel portal	Victorian

SM ID	Name	Period
GM608	Cyfarthfa balance pond and leat	Post Medieval
GM609	Black Pins early ironstone workings	Post Medieval
GM624	Rhaslas Pond South Dam	Post Medieval

4.5. Listed buildings

- 4.5.1. There is one Listed Building within the bounds of the site, the Timber Aqueduct (LB16143). This is a Grade II structure over the railway cutting for the Taff Bargoed Railway. This structure collapsed in 2007 and a scheme of restoration was undertaken (Dunning 2010) which resulted in this aqueduct being reconstructed to the west of its original location on the site of another former aqueduct at NGR SO 07456 06051.
- 4.5.2. Within the 3km study area, there are a further 201 Listed Buildings (Table 3): two are Grade I, both relating to Cyfarthfa Castle, seven Grade II*, and 192 Grade II (Figure 3). The majority of listed buildings fall within one of the surrounding Conservation Areas. Seventeen lie within the Cyfarthfa CA, seven in the Dowlais CA, four in Morgantown CA, sixteen in Rhymney Town CA, 24 in Thomastown CA and 26 in the Merthyr Town Centre CA.
- 4.5.3. Over half of the Listed Building represent domestic properties and largely formed of terraces of industrial workers housing or individual properties constructed for the managers of the local works.

Table 3. Listed Buildings within the 3km Study Area

ID	Name	Grade
11376	The Court House	II
11378	Old Cefn Bridge	II
11383	Pont Y Cefn	II
11387	Christ Church	II
11388	Jackson's Bridge	II
11389	Vulcan House Including Attached Rear Range, And Forecourt Wall And Gate	II
11393	Catholic Church Of St Mary Incl. Attached Presbytery	II
11394	Capel Tabernacl (Welsh Baptist Church)	II
11395	Church Hall At Capel Tabernacl	II

ID	Name	Grade
11396	Cyfarthfa Castle	I
11397	School At Cyfarthfa Castle	I
11398	Fountain Below S.Terrace At Cyfarthfa Castle	II
11399	Gatepiers At Driveway Entrance To Cyfarthfa Castel	II
11400	Railings At Driveway Entrance To Cyfarthfa Castle	II
11401	Park Wall Flanking Railings At Driveway Entrance To Cyfarthfa Castle	II
11402	Park Wall Flanking Railingsat Driveway Entrance To Cyfarthfa Castle	II
11403	Grawen	II
11404	Pandy Farmhouse	II
11405	Clock Tower At Pandy Farm	II
11406	Barn At Pandy Farm	II
11407	L-Plan Stable Ranges At Pandy Farm	II
11408	Pont-Y-Cafnau	II*
11409	No.1 Chapel Row,Georgetown,,,,,Mid Glamorgan,	II
11410	No.2 Chapel Row,Georgetown,,,,,Mid Glamorgan,	II
11411	No.3 Chapel Row,Georgetown,,,,,Mid Glamorgan,	II
11412	No.4 Chapel Row,Georgetown,,,,,Mid Glamorgan,	II
11413	No.5 Chapel Row,Georgetown,,,,,Mid Glamorgan,	II
11414	Remains Of Chapel/Warehouse At The End Of Chapel Row	II
11415	No.22 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11416	No.23 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11417	No.24 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11418	No.25 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11419	No.26 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11420	No.27 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11421	No.28 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11422	No.29 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11423	No.30 Cyfartha Road,Williamstown,,,,,Mid Glamorgan,	II
11424	Nos.9,9a & 9b Dynevor Street,Georgetown,,,,,Mid Glamorgan,	II
11425	Primrose Hill	II
11426	Merthyr Christian Centre	II
11427	Bryn Heulog	II
11428	Sunny Bank	II
11429	The Rectory	II
11430	Springfield Villa	II
11432	No.6 Coedcae'r Court,Twynyrodyn,,,,,Mid Glamorgan,	II
11433	No.7 Coedcae'r Court,Twynyrodyn,,,,,Mid Glamorgan,	II
11434	No.8 Coedcae'r Court,Twynyrodyn,,,,,Mid Glamorgan,	II
11435	No.9 Coedcae'r Court,Twynyrodyn,,,,,Mid Glamorgan,	II
11436	Crown Inn	II
11437	Barclay's Bank	II

ID	Name	Grade
11438	Lloyds Bank	II
11439	St David's Church	II
11440	Church Hall At St David's Church	II
11441	Memorial Fountain In St David's Chuchyard Wall	II
11442	Carnegie Library	II
11443	Statue & Plinth To Henry Seymour Berry	II
11444	Town Hall	II*
11445	Former County Court	II
11446	Pillar Box At NE Corner Of Town Hall	II
11447	Flooks	II
11448	Ironwork Fountain Canopy	II
11449	St Tydfil's Church	II
11450	Gates & Railings At St Tydfil's Churchyard	II
11451	High Street Baptist Church	II
11452	Zoar Chapel (Welsh Congregational)	II
11453	Gates & Gatepiers At Entry To Zoar Chapel	II
11454	Former Wesley Methodist Church	II
11455	Merthyr Tydfil War Memorial	II
11456	Guard Rail & Steps At Merthyr Tydfil War Memorial	II
11457	Former Unitarian Chapel	II
11458	No.13 New Castle Street,,,,,Mid Glamorgan,	II
11459	No.13a New Castle Street,,,,,Mid Glamorgan,	II
11460	No.14 New Castle Street,,,,,Mid Glamorgan,	II
11461	Trengrove House	II
11462	No.16 New Castle Street,,,,,Mid Glamorgan,	II
11463	No.17 New Castle Street,,,,,Mid Glamorgan,	II
11464	Theatre Royal	II
11465	Thespian House At Theatre Royal	II
11468	District Education Office Of Mid-Glamorgan County Council	II
11469	Boer War Memorial & Railings	II
11470	Zion Chapel (Capel Seion)	II
11471	Schoolroom At Zion Chapel	II
11472	Tydfil House	II
11473	Newton House	II
11474	Newton House	II
11475	St Tydfil's Hospital: Entrance Block (Centre Part Only)	II
11476	Statue & Plinth To Sir W.T. Lewis	II
11477	Stables House	II
11478	Dowlais Works Stables	II
11481	Nos.11 & 12 New Castle Street,,,,,Mid Glamorgan,	II
11487	Gwaelodygarth House	II
11488	Nos.1-16 (Consec) Upper Colliers Row,,,,,Mid Glamorgan,	II
11489	Ivor English Congregational Church Including Forecourt Walls	II

ID	Name	Grade
11490	Former Guest Memorial Library	II*
11491	Dowlais Works Blast Engine House	II*
11494	Upper Abercanaid House	II
11495	Garden Walls And Gatepiers At Upper Abercanaid House	II
11496	2 Including Former No 1	II
11497	Llwyn-Yr-Eos House	II
11498	1 Nightingale Street	II
11499	7 Nightingale Street	II
11500	70 Nightingale Street	II
11501	76 Nightingale Street	II
11502	Nos.1-6 (Consec) River Row,Abercanaid,,,,Mid Glamorgan,	II
11503	Pentrebach House	II
11504	NW And N Facing Garden Walls At Pentrebach House	II
11516	Nos.15-21 (Consec) Swansea Road,Gellideg,,,,Mid Glamorgan,	II
11517	Catholic Church Of St Illtyd	II
13546	Nos 1-14 (Consec) Collins Row	II
13547	Nos 14-28 (Consec) Lower Row	II
13548	Nos 1-13 (Consec) Middle Row & Attached Windsor Arms PH	II
13554	St David's (Masonic Hall) And Attached NE And SW Garden Walls	II
13555	No.2 The Terrace And Attached Garden Wall With Gate Piers	II
13556	House And Attached Garden Wall	II
13578	Church Of St David	II*
13588	Railway Viaduct	II
15676	Rhydycar Skew Bridge	II
15677	Rhydycar Canal Bridge	II
16073	Ynysfach Engine House	II*
16143	Timber Aqueduct Over Former Taff Bargoed Railway	II
17931	Church Of St John	II
17932	Limekilns South Of Cefn Bridge	II
21314	Bethania Independent Chapel	II
21318	Sion Independent Chapel	II
21430	Penuel Baptist Church	II*
21431	Ebenezer Calvinistic Methodist Chapel Including Vestry	II
25179	Church Of St Tyfaelog	II
25180	War Memorial	II
25181	Boundary Wall And Railings At St David's Churchyard	II
25182	Former Pay Office Noddfa Buildings	II
25183	Nos 1 And 2 The Lawn	II
25184	The Vicarage	II
25185	Ysgol Lawnt	II
25186	No.3 The Terrace And Attached Garden Wall With Gate Piers	II
25187	No.4 The Terrace And Attached Garden Wall With Gate Piers	II

ID	Name	Grade
25188	No.5 The Terrace And Attached Garden Wall With Gate Piers	II
25189	No.6 The Terrace And Attached Garden Wall With Gate Piers	II
25190	No.7 The Terrace And Attached Garden Wall With Gate Piers	II
25191	No.8 The Terrace And Attached Garden Wall With Gate Piers	II
27061	Old Cefn Bridge	II
27062	Pont Y Cefn	II
27083	Dowlais Public Library	II
27084	Mile Post	II
27085	Lower Row	II
27086	Industrial Building At Former Ivor Works	II
80765	No 10 Upper Colliers Row,,,,,	II
80766	No 13 Upper Colliers Row,,,,,	II
80767	No 14 Upper Colliers Row,,,,,	II
80768	No 16 Gelli-Deg,,,,,	II
80769	No 17 Gelli-Deg,,,,,	II
80770	NO 19 Gelli-Deg,,,,,	II
80771	NO 21 Gelli-Deg,,,,,	II
80772	No 9 Upper Colliers Row,,,,,Cf48 1un	II
80773	Nos 11-12 Upper Colliers Row,,,,,	II
80774	Nos 15-16 Upper Colliers Row,,,,,	II
80775	Nos 3-4 Uppier Colliers Row,,,,,	II
80776	Nos 5-6 Upper Colliers Row,,,,,	II
80777	Nos 7-8 Upper Colliers Row,,,,,	II
80958	The War Memorial, Screen Walls And Surrounding Railings	II
80959	Blaenygarth	II
80961	Centre Ventilation Shaft To Morlais Tunnel	II
80962	SE Ventilation Shaft To Morlais Tunnel	II
80963	White Gate Road Bridge And Aqueduct	II
80964	Aqueduct On Dowlais Free Drainage System	II
81722	Troed-Y-Rhiw War Memorial	II
81724	,2,River Row,Abercanaid,,,Cf48 1uj	II
81725	,3,River Row,Abercanaid,,,Cf48 1uj	II
81726	,4,River Row,Abercanaid,,,Cf48 1uj	II
81727	,5,River Row,Abercanaid,,,Cf48 1uj	II
81728	,6,River Row,Abercanaid,,,Cf48 1uj	II
81729	2 Nightingale Street	II
81730	3 Nightingale Street	II
81731	4 Nightingale Street	II
81732	5 Nightingale Street	II
81733	6 Nightingale Street	II
81734	8 Nightingale Street	II
81735	9 Nightingale Street	II
81736	10 Nightingale Street	II

ID	Name	Grade
81737	11 Nightingale Street	II
81738	12 Nightingale Street	II
81739	71 Nightingale Street	II
81740	72 Nightingale Street	II
81741	73 Nightingale Street	II
81742	74 Nightingale Street	II
81743	75 Nightingale Street	II
81744	77 Nightingale Street	II
81745	78 Nightingale Street	II
81746	79 Nightingale Street	II
81747	80 Nightingale Street	II
81748	81 Nightingale Street	II
81751	Gethin Tramway Bridge	II
81752	Base Of Chimney At Cwm Pit	II
81753	,3,Quay Row,Upper Abercanaid,,Cf48 1yp	II
81754	,4,Quay Row,Upper Abercanaid,,Cf48 1yp	II
81755	,5,Quay Row,Upper Abercanaid,,Cf48 1yp	II
82671	Former Miner's Welfare Hall	II
87475	,12,New Castle Street ,,,	II
87476	,18,New Castle Street,,,	II
87477	,19,New Castle Street,,,	II
87478	,20,New Castle Street,,,	II
87479	Former Chapel	II
87660	115 High Street	II

4.6. Identified sites of archaeological/historical interest

4.6.1. There are 190 previously recorded sites of heritage/archaeological interest within the bounds of the development area (Figure 4, Appendix I). This includes the Scheduled Monument of Sarn Howell Pond and Watercourses (GM494) and the Grade II Listed Building comprising a Timber Aqueduct. The sites, designated and non-designated, have been grouped into four categories.

- Table 4 shows the assets that remain outside of the extraction area or the areas of the Overburden mounds. These features have not been directly impacted during the restoration works (Table 4, Figure 5).
- Table 5 shows those assets which have been subject to demonstrable mitigation in the form of accessible reports (Table 5, Figure 6) (Hart and Tuck 2011, Archaeology Wales 2018, Roberts 2001 and Roberts and Lawler 2003).
- Table 6 lists those assets whose location is below overburden mounds OB1, OB2 or OB3 with no accessible mitigation reports (Table 6, Figure 7).
- Table 7 lists those assets which are located within the extraction area with no accessible mitigation reports, these are assumed to be destroyed (Table 7, Figure 8).

Table 4. Group 1 - Assets outside of extraction/overburden areas

ID	Name	Period	NGR	Status	Ref
GGAT02757m	Dowlais Rail Terminal	Post medieval	SO07250745		
GGAT04249m	Old Quarry, Trecatty	Post medieval	SO07860746		
GGAT04313m	Prehistoric Settlement Garth Fawr	Unknown	SO08200530		
GGAT04314m	Stone Quarry, Garth Fawr	Unknown	SO08150530		
GGAT04328m	Tramroad / Track, West of Sarn Howell Pond	Post medieval	SO07510591	PRN within SM Area	SM494
GGAT04341m	Cairn, Garth Fawr	Unknown	SO08200540		

ID	Name	Period	NGR	Status	Ref
GGAT04342m	Hut Circle, Garth Fawr	Unknown	SO08290538		
GGAT04343m	Ap Features, Merthyr Tydfil – proved natural	Unknown	SO08290528		
GGAT04345m	Ap Features, Merthyr Tydfil– proved natural	Unknown	SO08650526		
GGAT05066m	Dowlais Free Drainage System, Merthyr Tydfil	Post medieval	SO07500600	PRN within SM Area	SM494
GGAT09407m	Quarry, Nant Llesg	Post medieval	SO08257 05138		
NPRN5	Pen-y-Darren Colliery, Merthyr Tydfil	Post medieval	SO0762006000	PRN within SM Area	SM494
NPRN85632	Dowlais Iron Co Tramroad	Post medieval	SO0695005960		
NPRN85645	Dowlais Iron Co Rly.;L.&.N.W.R. Cwm Bargoed Branch	Post medieval	SO0749006040	PRN within SM Area	SM494
NPRN85646	Dowlais Iron Co Rly.;L.&.N.W.R. Cwm Bargoed Branch	Post medieval	SO0768006040	PRN within SM Area	SM494
NPRN85648	Dowlais Iron Co Rly.	Post medieval	SO0760006000	PRN within SM Area	SM494
LB16143; GGAT08164m; NPRN85868; NPRN86000	Dowlais Free Drainage System, Aqueduct	Post medieval	SO0783006130	Grade II Listed Building	LB16143
NPRN85975	Merthyr Common, Drainage Ditch on ..	Post medieval	SO0749006990		
NPRN85977	Dowlais Free Drainage System, Leat	Post medieval	SO0782006830		
NPRN85991	Pit, Merthyr Common	Post medieval	SO0802006540		
NPRN85992	Dowlais Free Drainage System, Dam	Post medieval	SO0760006470		
NPRN85993	Merthyr Common, Hut Circle on ..	Post medieval	SO0762006360		
NPRN85995	L.&.N.W.R. Cwm-Bargoed Branch, Bridge	Post medieval	SO0748006050	PRN within SM Area	SM494
NPRN85997	G.W.&.Rhymney Joint Rly., Taff Bargoed Section, Road Bridge Over..	Post medieval	SO0743006040	PRN within SM Area	SM494
NPRN85998	Dowlais Free Drainage System, Reservoir	Post medieval	SO0749006150	PRN within SM Area	SM494
NPRN85999	Dowlais Free Drainage System, Leat	Post medieval	SO0748006120	PRN within SM Area	SM494
NPRN88002	Dowlais Free Drainage System, Leat	Post medieval	SO0765006290		
NPRN88003	Dowlais Free Drainage System, Leat	Post medieval	SO0770006310		
NPRN88004	Penydarren Pond, Dam	Post medieval	SO0758006280		

ID	Name	Period	NGR	Status	Ref
NPRN88005	Penydarren Pond, Sluice	Post medieval	SO0770006310		
NPRN88006	Dowlais Free Drainage System, Leat	Post medieval	SO0768006190		
NPRN88038	Cwm Bargoed, Military Huts	Post medieval	SO0862006310		
SM494; GGAT00081m; NPRN88051	Sarn Howell Pond (Dowlais Free Drainage System) and Watercourses, Ffos y Fran	Post medieval	SO0756005900	SM	SM494
NPRN88052	Penydarren Inclines, Engine House	Post medieval	SO0761006000	PRN within SM Area	SM494
NPRN88053	Sarn Howell Pond, Quarry Near	Post medieval	SO0749005800		
NPRN88069	Dowlais Free Drainage System, Conduit	Post medieval	SO0754005990	PRN within SM Area	SM494

Table 5. Group 2 - Assets which have been previously mitigated in advance of the extraction works with accessible reports

ID	Name	Period	NGR	Status	Ref
GGAT04230m	Quarry, North of Penydarren Pits	Post medieval	SO07960584		
GGAT04231m	Pen-y-waun-fawr Pits and Associated Features	Post medieval	SO07300722		
GGAT04232m	Linear Feature, South of Isaac Morgan Cottages	Modern	SO07950600		
GGAT04235m	Leat, Ffos-y-fran	Unknown	SO07630582	PRN within SM Area	SM494
GGAT04237m	Leat, Ffos-y-fran	-	SO07480615	PRN within SM Area	SM494
GGAT04240m	Leat/stream, North of Penydarren Pits	-	SO07570583	PRN within SM Area	SM494
GGAT04243m	Leat, Ffos-y-fran	-	SO07520616	PRN within SM Area	SM494
GGAT04244m	Rectangular Features, Tre-hir Pond	-	SO07910670		
GGAT04259m	Tyle Dowlais Pit and Associated Features	Unknown	SO07480739		
GGAT04312m	Leats, N of Tal Cwm Bargoed	Unknown	SO08480646		
GGAT04316m	Culvert Part of Tram Road, Merthyr	Unknown	SO07910560		
GGAT04317m	Culvert Part of Tram Road, Merthyr	Unknown	SO07920566		
GGAT04326m	Drainage Feature, West of Tre-hir Pond	Unknown	SO07750689		
GGAT04327m	Leat, South of Tre-hir Pond	Unknown	SO07830666		

ID	Name	Period	NGR	Status	Ref
GGAT04340m	Bridge Parapet, Dowlais Great Tip	Post medieval	SO06580684		
GGAT06368m	Penydarren Incline House	Post medieval	SO0770005960		
GGAT07992m	Leat DFD1 at Twynywaun Ponds Merthyr Tydfil	Post medieval	SO0860106843		
GGAT07993m	Leat DFD3 at Twynywaun Ponds Merthyr Tydfil	Post medieval	SO0848806438		
GGAT07994m	Area F leats at Soap Vein Pond Merthyr Tydfil	Post medieval	SO0854506671		
NPRN6	Taff Bargoed Railway Platform	Post medieval	SO0738006030		
GGAT07143m; NPRN85558	Soap Vein Pond, Shaft SW of..	Post medieval	SO0852006550		
NPRN85565	Dowlais Free Drainage System, Leat	Post medieval	SO0790006780		
GGAT09401m; NPRN85647	Pen-y-Daren Pits Incline, (Pen-y-Daren Iron Co Rly.)	Post medieval	SO0762005970	PRN within SM Area	SM494
NPRN85741	Soap Pit	Unknown	SO0830006500		
NPRN85900	Dowlais Free Drainage System, Leat	Post medieval	SO0722007190	Grade II Listed Building	LB16143
NPRN85918	No.4 Pit (Dowlais)	Post medieval	SO0663006650		
NPRN85947	No.2 Pit (Dowlais), Pits NE of..	Post medieval	SO0657006470		
NPRN85948	No.2 Pit (Dowlais), Air Shaft E of..	Post medieval	SO0655006400		
NPRN85949	No.2 Pit (Dowlais), Reservoir E of..	Post medieval	SO0650006410		
GGAT07148m; NPRN85952; NPRN85951	Dowlais Ironstone Pit 1, Ffos-y-fran	Post medieval	SO0667006120		
NPRN85953	Shaft, N of No.6 Pit, Dowlais	Post medieval	SO0692006100		
NPRN85954	No.6 Pit (Dowlais)	Post medieval	SO0694006010		
NPRN85955	No.6 Pit (Dowlais) Engine House	Post medieval	SO0695006020		
NPRN85956	No.6 Pit (Dowlais), Shaft	Post medieval	SO0694006000		
NPRN85957	No.2 Pit (Dowlais)	Post medieval	SO0648006370		
NPRN85958	No.2 Pit (Dowlais): Shaft	Post medieval	SO0648006380		

ID	Name	Period	NGR	Status	Ref
NPRN85962	No.6 Pit (Dowlais), Air Shaft	Post medieval	SO0698005980		
NPRN85963	No.6 Pit (Dowlais): Spoil Heap	Post medieval	SO0690006010		
NPRN85974	Tre-Hir Pond (Dowlais Free Drainage System)	Post medieval	SO0790006850		
NPRN85976	Merthyr Common, Drainage Ditch on ..	Post medieval	SO0789006780		
NPRN85980	Shaft, W of Tre-Hir Pond	Post medieval	SO0775006870		
NPRN85981	Tre-Hir Pond, Dam	Post medieval	SO0781006820		
NPRN85982	Dowlais Free Drainage System, Reservoir	Post medieval	SO0790006990		
NPRN85983	Tre-Hir Pond, Valve House	Post medieval	SO0790006780		
GGAT02761m; NPRN85996	Dowlais Free Drainage System, Aqueduct	Post medieval	SO0745006050		
GGAT02760m; NPRN88007	Penydarren Platform	Post medieval	SO0737006030		
NPRN88008	G.W.&Rhymney Joint Rly. Taff Bargoed Section - Railway Bridge	Post medieval	SO0731006030		
GGAT07091m; NPRN 88009	Dowlais Tips, Enclosures At..	Post medieval	SO0669006880		
NPRN88029	Dowlais Free Drainage System, Leat	Post medieval	SO0862006680		
NPRN88036	Dowlais Free Drainage System, Leat	Post medieval	SO0840006520		
NPRN88032	Soap Vein Pond, Spoil Heap S of..	Post medieval	SO0847006520		
NPRN88034	Soap Pit Houses, Pond Near..	Post medieval	SO0833006600		
NPRN88035	Soap Pit, Spoil Heaps	Post medieval	SO0829006570		
NPRN85525	Soap Vein Pond (Dowlais Free Drainage System)	Post medieval	SO0845006650		
GGAT04241m	AP Site, Cwm Golau– proved natural	-	SO08700549		
GGAT04344m	Ap Features, MerthyrTydfil – proved natural	-	SO08510523		
GGAT04346m	Ap Features, Merthyr Tydfil– proved natural	-	SO08590512		
NPRN88046	Dowlais Free Drainage System, Leat	Post medieval	SO0796006110		
NPRN88001	Dowlais Free Drainage System, Leat	Post medieval	SO0799006430		

ID	Name	Period	NGR	Status	Ref
NPRN88047	Dowlais Free Drainage System, Leat	Post medieval	SO0785006100		
NPRN88048	Dowlais Free Drainage System, Leat	Post medieval	SO0786006100		
NPRN88049	Dowlais Free Drainage System, Leat	Post medieval	SO0783006120		
NPRN88050	Dowlais Free Drainage System, Leat	Post medieval	SO0778006090		
NPRN88045	Dowlais Free Drainage System, Reservoir	Post medieval	SO0800006140		
NPRN85978	Dowlais Free Drainage System, Leat	Post medieval	SO0763006750		
NPRN85984	Soap Pit, Adit W of..	Post medieval	SO0807006670		
NPRN85987	Dowlais Free Drainage System, Leat	Post medieval	SO0800006810		
NPRN85988	Dowlais Free Drainage System, Leat	Post medieval	SO0807006670		

Table 6. Group 3 - Assets currently below overburden mounds OB1, OB2 or OB3 with no published mitigation reports

ID	Name	Period	NGR	
GGAT02753m	Twyn-Y-Waun Farm	Post medieval	SO08150733	
GGAT04233m	Rectangular Feature, North of Penydarren Pits	Unknown	SO07930549	
GGAT04234m	Rectangular Feature, North of Penydarren Pits	Unknown	SO08030589	
GGAT04245m	Structure, North of Penydarren Pits	-	SO07900557	
GGAT04250m	Well, Twyn-y-waun	Post medieval	SO08260733	
GGAT04251m	Old Quarries, Tre-hir Pond	-	SO08200716	
GGAT04252m	Well, East of Tre-hir Pond	Post medieval	SO08070699	
GGAT04318m	Rectangular Feature, S of Tal Cwm Bargoed	-	SO07980569	
GGAT04319m	Pits, North of Pen-y-darren Pits	-	SO07960554	
GGAT04320m	Pits, North of Pen-y-darren Pits	-	SO08020542	
GGAT04321m	Building Platform, Garth Fawr	Unknown	SO08630542	
GGAT04322m	Bank and Ditch, Cwm Goleu	Unknown	SO08630551	
GGAT04329m	Possible Settlement, Garth Fawr	Unknown	SO08550536	
GGAT07149m	Tramroad (BYG 5), Cyfartha	Post medieval	SO0795705900	

ID	Name	Period	NGR	
GGAT09408m	Structure, Nant Llesg	Post medieval	SO 0852905411	
NPRN33463	Cwmbargoed Colliery	Post medieval	SO0840005800	Removed during earlier workings
NPRN85513	Dowlais Iron Co Rly.	Post medieval	SO0824006140	
NPRN85514	Cwm-Bargoed Pits, Tramroad	Post medieval	SO0840005940	Removed during earlier workings
NPRN85538	Cwm-Bargoed Pits; Cwm Bargoed Pits	Post medieval	SO0860005990	Removed during earlier workings
NPRN85539	Cwm-Bargoed Pits Engine House	Post medieval	SO0860005990	Removed during earlier workings
NPRN85540	Cwm-Bargoed Pits: Air Shaft	Post medieval	SO0857006010	Removed during earlier workings
NPRN85561	Cwm-Bargoed Pits, Smithy	Post medieval	SO0862005960	Removed during earlier workings
NPRN85652	Dowlais Iron Co Rly.	Post medieval	SO0835006110	
RR621-02b	Roman Road – part of	Roman		

Table 7. Group 4 - Assets within extraction area with no accessible mitigation reports, presumed condition destroyed

ID	Name	Period	NGR	Status
GGAT02754m	Longtown Cottages	Post medieval	SO07850712	
GGAT04236m	Leat, Ffos-y-fran	-	SO07330678	
GGAT04246m	Structures, Ffos-y-fran	Unknown	SO07200630	
GGAT04247m	Leat, Ffos-y-fran	Post medieval	SO06830680	
GGAT04248m	Long Row, Site of	Post medieval	SO07060715	
GGAT04253m	Well, East of Tre-Hir Pond	Post medieval	SO08060686	
GGAT04254m	Leat, West of Tre-hir Pond	Post medieval	SO07500700	
GGAT04258m	Cottages, Pwll-yr-hwyaid	Unknown	SO06770709	
GGAT04325m	Culvert Under Railway, Glyncorrwg	Post medieval	SO06740656	
GGAT04333m	Abutments, Railway Bridge, Dowlais Great Tips	Post medieval	SO06740701	
NPRN85633	Dowlais Iron Co Tramroad	Post medieval	SO0685006220	
NPRN85634	Dowlais Iron Co Tramroad	Post medieval	SO0659006380	

ID	Name	Period	NGR	Status
NPRN85635	Dowlais Iron Co Tramroad	Post medieval	SO0652006300	
NPRN85636	Dowlais Iron Co Tramroad	Post medieval	SO0703007270	
NPRN85640	Dowlais Iron Co Rly.	Post medieval	SO0725007120	
NPRN85641	Bargoed Incline (Dowlais Iron Co Rly.)	Post medieval	SO0744007280	
NPRN85642	Dowlais Iron Co Rly.;L.&.N.W.R. Cwm Bargoed Branch	Post medieval	SO0744007280	
NPRN85643	Dowlais Iron Co Rly.;L.&.N.W.R. Cwm Bargoed Branch	Post medieval	SO0706006890	
NPRN85644	Dowlais Iron Co Tramroad	Post medieval	SO0728007110	
NPRN85649	G.W.&.Rhymney Joint Rly. Taff-Bargoed Section Zig-Zag Branch	Post medieval	SO0685007080	
NPRN85650	G.W.&.Rhymney Joint Rly. Taff-Bargoed Section Dowlais Iron Works Branch	Post medieval	SO0680007000	
NPRN85651	L.&.N.W.R. Cwm Bargoed Branch	Post medieval	SO0744007280	
NPRN85807	Timber Bridge over GWR and Rhymney Joint Railway (Zig Zag Branch)	Post medieval	SO0657006630	
NPRN85896	Level, NE of Pwll-yr-Hwyaid	Post medieval	SO0653006940	
NPRN85897	Dowlais Tips, Quarry At..	Post medieval	SO0672006910	
NPRN85898	No.7 Pit (Dowlais)	Post medieval	SO0695006940	
NPRN85910	Pwll-y-Hwyaid, Level S of..	Post medieval	SO0636006520	
NPRN85911	Pwll-y-Hwyaid, Level SE of..	Post medieval	SO0646006550	
NPRN85912	No.2 Pit (Dowlais), Reservoir N of..	Post medieval	SO0649006500	
NPRN85913	Pwll-y-Hwyaid, Shaft E of..	Post medieval	SO0642006650	
NPRN85914	Level, E of Pwll-y-Hwyaid	Post medieval	SO0646006720	
NPRN85915	Level (1), NE of Pwll-y-Hwyaid	Post medieval	SO0649006790	
NPRN85916	Level (2), NE of Pwll-y-Hwyaid	Post medieval	SO0649006780	
NPRN85917	No.4 Pit (Dowlais): Air Shaft S of..	Post medieval	SO0663006550	
NPRN85919	No.4 Pit (Dowlais), Reservoir SE of..	Post medieval	SO0667006600	
NPRN85920	No.4 Pit (Dowlais), Reservoir E of..	Post medieval	SO0670006660	
NPRN85921	No.4 Pit (Dowlais), Reservoir SE of..	Post medieval	SO0670006590	
NPRN85933	Spoil Heap, E of Pwll-y-Hwyaid	Post medieval	SO0638006680	
NPRN85934	G.W.&.Rhymney Joint Rly., Zig-Zag Branch, Bridge	Post medieval	SO0638006550	

ID	Name	Period	NGR	Status
NPRN85936	No.2 Pit (Dowlais): Spoil Heap	Post medieval	SO0640006360	
NPRN85937	Pits (1), Dowlais Tips	Post medieval	SO0677006590	
NPRN85945	Mountain Hare Pit, Reservoir E of..	Post medieval	SO0642006140	
NPRN85950	Level, Dowlais Tips	Post medieval	SO0684006490	
NPRN85961	No.1 Pit (Dowlais), Spoil Heaps	Post medieval	SO0653006100	
NPRN85964	Pits (2), Dowlais Tips	Post medieval	SO0677006290	
NPRN85965	Spoil Heap (1), Dowlais Tips	Post medieval	SO0687006160	
NPRN85966	Spoil Heap (2), Dowlais Tips	Post medieval	SO0690006090	
NPRN85967	Pits (3), Dowlais Tips	Post medieval	SO0690006150	
NPRN85968	G.W.&.Rhymney Joint Rly. Taff-Bargoed Section, Culvert	Post medieval	SO0696006120	
NPRN85969	G.W.&.Rhymney Joint Rly. Taff-Bargoed Section, Bridge	Post medieval	SO0684006070	
GGAT06366m; NPRN85970	G.W.&.Rhymney Joint Rly. Zig-Zag Branch, Bridge	Post medieval	SO0676006700	
NPRN85971	Dowlais Tips, Road At..	Post medieval	SO0671006920	
NPRN85972	No.4 Pit, Dowlais: Spoil Heap	Post medieval	SO0653006670	
NPRN85973	Dowlais Tips, Level At..	Post medieval	SO0707006860	
NPRN85978	Dowlais Free Drainage System, Leat	Post medieval	SO0763006750	
NPRN85979	Tre-Hir Pond, Leat W of..	Post medieval	SO0744006880	
NPRN85985	Soap Pit, Spoil Heap W of..	Post medieval	SO0813006600	
NPRN85986	Soap Pit, Level W of..	Post medieval	SO0821006750	
NPRN85994	Merthyr Common, Drainage Ditch on ..	Post medieval	SO0713006620	
NPRN86977	Merthyr East Mining Features	Post medieval	SO0750007000	
NPRN88010	Dowlais Tips, Ironstone Workings	Post medieval	SO0710006730	
NPRN88075	Gw & Rhymney Joint Rly.(Taff Bargoed Section), Bridge Under	Post medieval	SO0679006980	

4.7. Known Archaeological Remains and Historical Development

There are 190 sites listed in the regional Historic Environment Record (HER) and in the National Monuments Record (NMW) within the bounds of the development area.

Prehistoric: Palaeolithic (c.450,000 – 10,000 BC), Mesolithic (c.10,000 – 4000 BC), Neolithic (4000 BC – 2300 BC), Bronze Age (2300 BC – 700 BC) & Iron Age (700 BC – AD 43)

There are very few sites potentially relating to the prehistoric period, the Garth Fawr Settlement, at the southern end of the site, is recorded as being of prehistoric origin (GGAT04313m) along with several potentially related features, Cairn of unknown date (GGAT04341m), Hut Circle (GGAT04342m) and a Possible Settlement (GGAT04329m) just to the east. A Geophysical and Topographical Survey (Hart & Young 2014) concluded that there was little evidence of significant occupation of the site, however no excavations of the settlements or cairn have been carried out. All, except GGAT04329m which lies beneath OB3, remain untouched by the reclamation works.

Roman (AD 43 – c. AD 410)

- 4.7.1. Within the bounds of the proposed restoration area there is just a single feature recorded as being of prehistoric date. This is a section of the projected route of the Roman road between Castell Collen and Cardiff (RR621). The original route proposed by Margary (1955) placed the route along Merthyr Common without consideration of the fort at Penydarren, however, it is now thought likely to pass through Penydarren and cut across the restoration area, although evidence for this route would have been masked by the rapid expansion of Merthyr in the post medieval period (Sherman & Evans 2004).

Early Medieval (c. AD 410 – AD 1086), Medieval (1086 – 1536)

- 4.7.2. There are no previously identified sites of Medieval date within the bounds of the restoration area.

Post Medieval (1536 – 1899) & Modern (1900 – present day)

- 4.7.3. This part of the landscape is dominated by the remains of coal and ironstone extraction works and the widespread infrastructure which served them in the form of railways and drainage systems. This industrial expansion was predominantly advanced by the Dowlais Ironwork Company.
- 4.7.4. The Dowlais Ironworks was founded in 1759 and was the first ironworks established in Merthyr Tydfil. It started with a single coke-fired furnace producing 18 tons of iron a week in 1760, initially producing pig iron. Manufacture of wrought iron commenced in 1801, with the purchase of a Boulton and Watt beam blowing engine to help increase production. By 1815 the Ironworks had five blast furnaces capable of producing a combined output of 15,600 tons a year.
- 4.7.5. Expansion continued, and by 1830 Dowlais was the largest Ironworks in South Wales, with twelve blast furnaces. By 1845 it was the largest in the world, producing 74,880 tons of iron annually in eighteen furnaces.
- 4.7.6. While the current extraction works have removed much of the evidence of the former works, many of the features are still extant and situated outside of the extraction or overburden area.
- 4.7.7. A thorough historical background has been presented in the Heritage Chapter of the previous EIA (Leek & Western 2003) and the Historic Landscape Characterisation Assessment (Roberts 2001), and the historic industrial timeline of the area examined as a part of the post-excavation assessment (Hart & Tuck 2011).

5. Map regression

5.1. Map showing the Sengheneth Common c.1820 (Figure 9)

- 5.1.1. This map appears to have been produced to illustrate the landholdings within the common, their lease holders and the current usage of the lands. Sarn Howell Pond is noted as well as a number of watercourses linking reservoirs to the various works. Noted features within the site boundary include Balance Pit No. 1, 2 and 3, Upper Four Feet Pit, Nine Feet Pit and Longtown cottages. Pen y Darren Engine Pit is shown just outside of the site boundary to the west of Sarn Howell. Various areas of patch workings are also noted at the northern extent of the site.

5.2. Tithe Map of the Parish of Merthyr Tydfil in the County of Glamorgan, 1850.

- 5.2.1. The tithe map shows the area to be largely comprised of common land of meadow and open pasture. None of the pits noted on the previous mapping are mentioned. There are a number of properties noted such as Twyn y waun Farmstead, which lies just outside of the site boundary, and Longtown, also known as Tir-Hir, cottages in the north-east area, both owned by the Marques of Bute and occupied by the Dowlais Iron Company.
- 5.2.2. Along the north-west boundary are a number of structures noted as owned and occupied by the Dowlais Iron Company and are described as cottages and gardens.
- 5.2.3. Sarn Howell Pond is visible indicating the presence of the Dowlais Free Drainage System (DFDS) and a handful of trackways bisecting the hillside though few other features recorded.

5.3. Ordnance Survey County Series, First Edition, 1885 (Figure 10)

- 5.3.1. A significant change can be seen between the tithe map and the 1885

mapping illustrating the massive expansion of the coal and iron industry in the South Wales valleys which is seen prominently in Merthyr Tydfil.

- 5.3.2. Several pits are named within the restoration area including Cwm Bargoed Pit (coal), Tyle Dowlais (ironstone), Pen-y-waun fawr Pit (ironstone), No. 1 Pit (ironstone), No. 2 Pit (coal and ironstone), No. 4 Pit (coal and ironstone), No. 6 Pit (ironstone), No. 7 Pit (ironstone). These all have associated engine houses, air shafts and a network of associated transport infrastructure with the site now being crossed by tramways and the construction of the Taff Bargoed branch of the Great Western Railway (GWR) in progress.
- 5.3.3. What was named as Pen y Darren Engine Pit on the 1820s map is now named Old Pit (ironstone), but still appears functional.
- 5.3.4. Several other industries are also now named on the mapping within the site, most likely all serving the expanding industry such as brick works and smithies. By the time of the first edition the DFDS has flourished with the inclusion of several new reservoirs with associated drainage routes linking these to the various works.

5.4. Ordnance Survey County Series, Second Edition, 1901

- 5.4.1. By the time of the 1901 mapping Pits No. 1, No. 2, No. 4, No. 6, No. 7 and Old Pit are all shown as being disused. The Dowlais Ironworks has expanded as well as the number of rail lines. The GWR Taff Bargoed branch is completed and several other lines including the Rhymney Joint Line – Dowlais Steel Works Branch and the London and North Western Railway (L&NWR)- Cwm Bargoed branch. Crossing the cutting for the GWR are the two aqueducts and the Bogey Bridge.

5.5. Ordnance Survey Edition of 1922

- 5.5.1. This mapping shows very little difference within the site boundary with the Pits

still shown as disused but present. Merthyr town has expanded with the villages of Penydarren, Twyn and Penyard more than doubling in occupancy.

5.6. Ordnance Survey Map of 1963

- 5.6.1. While this map doesn't show much beyond the network of railways and spoil heaps it does indicate that a large portion of the extraction area has been subject to opencast working previously.

6. Aerial photographs and LiDAR

6.1. Aerial photographs

- 6.1.1. The collections from the Central Register of Air Photography for Wales (CRAPW), Cambridge University Collection of Aerial Photography (CUCAP), britainfromabove.org.uk, and Satellite Imagery from Google Earth were examined.
- 6.1.2. The earliest available aerial photograph to show the site is from 1929 focused on the Dowlais Ironworks but includes the north-west aspect of the site. The images show a landscape dominated by 'fingertip' spoil heaps from the former works.
- 6.1.3. The next images date to 1945 and show a similar landscape. The railways are still intact and appear to be in use. The eastern aqueduct is visible still as well as the structures at the top of the Penydarren incline near Sarn Howell, although it is unclear if these are derelict.
- 6.1.4. Photographs dating to 1985 show the site although with little detail due to the resolution. There appears to be groundworks being undertaken, likely further opencast works to the north of the site and to the east of the site, in the location of the Cwmbargoed pits, the spoil heaps appear to have been cleared.
- 6.1.5. The next clear image dates to 2001, this shows a green landscape with the

outlines of the spoil heaps visible, as well as several reservoirs and the GWR line. No significant changes are seen until the start of the reclamation scheme seen in the images of 2008.

- 6.1.6. Between 2008 and the 2023 images, a steady progression can be seen of the extraction works travelling eastwards from the site boundary through the extraction area and the mounds at OB1-3 forming.

6.2. LiDAR

- 6.2.1. LiDAR 1m DTM was processed Hillshade to examine the presence and character of sub-surface features that might be present on site.
- 6.2.2. The LiDAR shows the site as it is currently with no new sites identified.

7. Site visit

- 7.1.1. A site visit was conducted on the 24th of September 2024, during which conditions were good with clear visibility.
- 7.1.2. The location of the non-designated assets known to have been destroyed as a part of the extraction works were not visited.
- 7.1.3. The area of the Relocated Aqueduct (LB14143) and Sarn Howell Pond (GM494) was visited (Plate 1-Plate 6) as was the Rhaslas Pond Dam (Plate 7) the Deserted iron Mining Village (Plate 8), and views from several aspects were photographed. Views were assessed from the nearest points of the Gelli-gaer Common Registered Landscape (Plate 9).
- 7.1.4. The sites at the southern end of the site which are outside of the restoration area were visited and views towards the proposed restoration area photographed (Plate 10 and Plate 11).
- 7.1.5. Other designated sites within the 3km study area were visited that had the

potential to be impacted by the proposed works. These included the Dowlais Conservation Area (Plate 12 and Plate 13), Town Centre and the Thomastown Conservation Areas, however the views from these sites were limited.

- 7.1.6. Several Listed Buildings in Dowlais also had views to the site, however these were fairly obscured (Plate 14 and 15)

8. Impact Assessment

8.1. Restoration Strategy

- 8.1.1. A phased scheme of reclamation was commenced in the mid-1980s with Phase I and II covering the Incline Top and The Dowlais Great White Tip respectively. Phase III, the final and current phase, comprises the Ffos-y-Fran reclamation scheme.
- 8.1.2. Phase III comprises the extraction of coal via surface mining and to return the overburden mounds OB1-OB3 to restore the derelict land at no public cost. The scheme was approved in 2005, and mining commenced in 2007 and ceased in late-2023.
- 8.1.3. The approved restoration scheme mitigated the impacts to the heritage resource as outlined in the previous EIA (Leek & Western 2003). In summary the effects of the scheme to the heritage resource were *'losses of heritage assets during operational phase, but recovery of artefacts, recording and publication of the archaeological finding's positive aspects. Long term, records will contribute to cataloguing Merthyr's physical cultural heritage.'* (Leek & Western 2003).
- 8.1.4. The restoration aftercare scheme detail was provided to fulfil Condition 50 of the approved scheme. This included using approximately 26 million cubic metres of the overburden material to fill the extraction void and reprofile the

site. This scheme was approved in 2016. However, the cost for this scheme was expected to be beyond what had been supplied by the mine's previous owner (Miller Argent (South Wales)) and the scheme was likely to generate significant noise, air pollution and carbon emissions.

- 8.1.5. Consequently, the current owners, MSW, looked to implement an updated restoration scheme which would be affordable and less impactful to the surrounding area. The current plan is outlined in the current planning application documents – *'To facilitate this requirement, it is the intention of MSW to undertake minimal work on OB2 (which has substantially revegetated) and retain and enhance OB3 as an area of upland grassland with some areas returned to upland grazing for sheep and cattle as part reinstatement of the former Gelligaer and Merthyr Urban Common. Therefore, should there be a requirement for any additional overburden to achieve an alternative restoration design, this would be sourced from OB1'* (RML 2024).
- 8.1.6. The key features of the final restoration strategy are to minimise bulk earthworks by retaining the existing groundwater lake that has formed naturally in the main void following cessation of coal extraction and when the de-watering of the main void was no longer required. The sides of the main void will be re-profiled and using existing spoil material and material from the overburden mound OB1. The height of OB1 would be reduced and re-profiled as a sinuous undulating ridge and areas of open rock face and scree retained for biodiversity and visual amenity. Existing ponds and water bodies, such important relics of the previous industrial extractive industries will be retained and enhanced for nature conservation and preserved as heritage assets. The overburden mounds of OB2 and OB3 will be retained and returned to areas of upland grassland with areas of woodland planting and heathland.
- 8.1.7. The current proposals would be subject to adjustment following multi-

discipline consultations, but the overall scheme would have the potential to improve the visual amenity of residential properties in east Merthyr and Dowlais Top along with users of the A465 Heads of Valley Road and the A4060 and the wider landscape.

8.2. Previous Impacts

- 8.2.1. Previous impacts across the proposed development area are of great significance in determining the survival and importance of the known and potential archaeological resource.
- 8.2.2. The restoration site has been subject to mining activities since the 18th century, many of the heritage assets relates to this activity. The previous impacts of the site are of major significance resulting in many of the non-designated sites listed on the HER having been mitigated and/or removed.
- 8.2.3. Table 4-Table 7 outline the status of the heritage assets within the bounds of the development as they stand currently following the impact of the previously approved works.

8.3. Previous Impact Assessment and Mitigation

- 8.3.1. The impacts of the original restoration scheme were assessed in the previous EIA (Leek & Western 2003). These are summarised below and form an integral part of the current impact assessment as the greater part of the impacts resulting from the extraction works were considered and mitigated during this stage.
- 8.3.2. The restoration area is within the Merthyr Tydfil Landscape of Outstanding Historic Interest in Wales (HLW (MGL) 2). Consultation carried out with Cadw during the original application stages resulted in a study of the historic landscape character of the application area being undertaken, this was to provide further information on the significance of the landscape and the

effects of the proposals (Roberts, 2001). Subsequently an assessment of the significance of the impact of development on historic landscape areas on the Register (ASIDOHL) was carried out (Chapter 14, Leek & Western 2003). The ASIDOHL process considered the impact of the proposals on the separate HLCAs and the impact of the proposals on the Registered Landscape as a whole. The overall significance of impact of the scheme was assessed to be Moderate.

- 8.3.3. The desk-based assessment (Appendix 14A of Leek & Western 2003) identified 206 heritage assets with the potential to be impacted by the works.
- 8.3.4. During the design process it was possible to engineer to result in no effects to almost all sites of High and High/Medium value. Significant numbers of Medium value sites were not affected. Most effects were to occur to Medium/Low and Low sites. In all cases where there were to be effects, appropriate mitigation solutions were recommended.
- 8.3.5. Mitigation measures were recommended to reduce the impact to the archaeological resource. These included preservation in situ wherever possible. The methodology was defined by the degree of impact and the value of the heritage asset as defined in the DBA (Appendix 14A of Leek & Western 2003). Table 8 outlines these measures.

Table 8. Mitigation measures following original application

Mitigation measures	Criteria
Protection	• Scheduled Monuments are to have secure protection

Condition Survey	• Sites which lay just outside areas where ground works are to occur • Sites within the ground works areas but where fully retained by burial or within exclusion zones • Slight or Moderate adverse effects to sites of any value
Watching Brief	• Slight or Moderate adverse effects to sites of any value
Survey and Recording comprising site topographic mapping and drawing of exposed features	• Slight or moderate adverse effects to High-Low Value sites • Major effects to sites of any value
Local Evaluation comprising sampling of the site with pits and trenches to satisfy precisely determined research objectives	• Slight or moderate adverse effects to High-Low Value sites • Major effects to sites of any value
Local Investigation carried out by standard archaeological processes and principally related to understanding components, materials and functions. Given the character of known resources area and large-scale excavations are not envisaged.	• Major effects to sites of any value

8.3.6. Also noted were the potential difficulties in mitigating the impact to assets related to mining activities encountered. It was recommended that within the safety requirements, features encountered during the extraction works would be mitigated by means of the survey and recording of the workings and working methods and artefact recovery, documentation and emergency conservation works to be carried out.

Mitigation which has been fully or partially undertaken

8.3.7. A field evaluation was carried out to inform the desk-based assessment and

was submitted within the 2003 EIA. Its aim was to allow for the detailed micro-characterisation of the area now known as OB3 through the excavation of 34 test-pits which would help in determining the character, distribution and importance of the resource in the southern area (Roberts, 2001).

- 8.3.8. An in-depth study was carried out of the Dowlais Free Drainage System (DFDS) which comprised, desk-based research and field survey. This work resulted in the recording of 29 previously identified sites as well as eleven previously unidentified sites through walk-over surveys, total station surveys, drawn profiles and the excavation of sections through selected leats (Roberts & Lawler 2003).
- 8.3.9. Covering the larger part of the restoration boundary was a large-scale mitigation programme undertaken between 2007-2009. This entailed the excavation and recording of the Soap Vein pithead and associated dam, and the Longtown Dam and valve house, and elements of the DFDS within the area of OB2 and within the OB3 area, over 200 evaluation trenches recorded further features of the DFDS as well as tramroads, a cairn and cremation burial site and a brickworks. Excavations carried out in the area of the Boxcut included the recording of No.1, No.2, and No.4 Pit and the partial recording of No.6 Pit as well as a Settlement area, a bridge parapet, the Crown Patch workings along with culverts and workings associated with the earlier mining activity. Other features recorded outside of these main areas include the Penydarren platform and the lifting of, and subsequent preservation of the listed aqueduct.

The post-excavation assessment, indicated that further analysis of the site archive, finds and environmental assemblage would be required, and an analysis reporting followed by archiving was proposed (Hart and Tuck, 2011).

- 8.3.10. In 2014 a topographic and geophysical survey on the southern area at the Garth Fawr settlement. The survey of the cairns concluded that the close relationship between cairns and banks makes it likely that they are agricultural

in nature (Hart & Young 2014).

- 8.3.11. In 2015 the remains of Pen-y-waun-fawr Pit were recorded as the Pit was encountered during the extraction works. The report is yet to be published.
- 8.3.12. A building survey was carried out in advance of the demolition of Tyle Dowlais Pit building. The pit structure had been revealed during initial ground works to progress the mining activity (Archaeology Wales 2018).

8.4. Impacts of the current proposals

- 8.4.1. The impacts are assessed using the current condition (September 2024) of the restoration area as the baseline.

Registered Landscapes

Merthyr Tydfil Landscape of Outstanding Historic Interest (HLW (MGL) 2)

- 8.4.2. The restoration area lies within the Merthyr Tydfil Landscape of Outstanding Historic Interest in Wales (HLW (MGL) 2). Merthyr has been described as the most significant town of the Industrial Revolution with numerous elements attesting to the scale of the industry still extant throughout the landscape despite subsequent development and reclamation.
- 8.4.3. Intertwined with modern industry and retail and residential developments are key surviving components evidencing Merthyr's historic significance, such as the Cyfarthfa Furnaces (GM425), the Ynys Fach Furnaces (GM31), the Dowlais Engine House (LB11491) and Cyfarthfa Castle (LB11396). Much of the transport infrastructure is still visible within the current landscape in the form of protected sections of tramroads, canals, railways, bridges and viaducts.
- 8.4.4. While the extraction works removed some elements of this industrial landscape, the benefit that the scheme has provided in the identification, research, restoration, maintenance and publication of these sites has added to the understanding of the landscape.

- 8.4.5. The proposed scheme aims to improve the visible amenity of the extraction area and remaining overburden mounds improving the setting of the landscape from its current condition. The scheme also allows to make the area safe therefore improving the accessibility to, and continued maintenance of, the surviving heritage assets.

Gelligaer Common Landscape of Special Historic Interest (HLW (MGI) 4)

- 8.4.6. The restoration works lie just over 650m north-west of the Registered Landscape of Gelligaer Common (Plate 9). The Gelligaer Common contains a diverse archaeological resource from the prehistoric to the modern period. There will be no physical impact to the Registered Landscape. The restoration works will be visible from the northern extent of the Registered landscape and once completed should restore the setting of the landscape to its previous state prior to the start of the extraction works. The main visible element will be the retention of the overburden mounds, however once these are revegetated and reprofiled they should blend into the surrounding upland landscape.

Scheduled Monuments

- 8.4.7. There is a one SM within the bounds of the proposed restoration area, Sarn Howell Pond and Watercourses (GM494) and another just beyond the bounds, the Ffos-y-fran Deserted Iron Mining Village (GM496). A further 26 are within the 3km study area. There will be no direct physical impact to the Scheduled monument.

Sarn Howell Pond and Watercourses

- 8.4.8. The current setting of this group of monuments is infinitely tied to the industrial heritage landscape of Merthyr Tydfil. At its core is the Sarn Howell Pond which is situated with views over the Merthyr Valley and of the more recent extraction works.

- 8.4.9. This group of monuments are surrounded by the remnants of the industry that it once served. Within the immediate vicinity of the monument are visible remains of the innovative DFDS in the form of leats, aqueducts and ponds, which formed the network of drainage systems of which the Sarn Howell Pond comprised a core aspect.
- 8.4.10. The proposals intend to retain and maintain the Sarn Howell Pond and Watercourses incorporating them, along with related features, into the final design. This will result in a safer, more accessible site with a potential for educational opportunities.

Ffos-y-fran Deserted Iron Mining Village

- 8.4.11. The deserted mining village lies on the western slopes of the hillside overlooking Merthyr Valley with views to the opposing hillside.
- 8.4.12. While the visual element of the setting of both Sarn Howell and the Deserted Mining Village has been impacted during the main extraction works, predominantly the result of the retention of OB3. The evolving backdrop of the monuments are a testimony to the continuation of the coal and iron extraction industry which they are a component of.

Rhas Las Pond South Dam

- 8.4.13. The only other SM with a significant view of the site is the Rhas Las Pond South Dam (GM624). While the overburden mounds can be clearly seen from the dam (Plate 7), they do not impact on the appreciation of the monument, or dominate the surrounding views, however, improvements to the vegetation on and surrounding the overburden mounds will further help in incorporating these into the landscape.

Other Scheduled Monuments

- 8.4.14. For the remainder of the SMs within the 3km study Area, there is either little

or no intervisibility between them and the site, or there are long-range views from such monuments as Morlais Castle on the opposite side of the Merthyr Valley. In isolated locations, where the extents of the overburden mounds are visible, these do not form a dominating aspect of the landscape and further revegetation will be beneficial.

Listed Buildings and Conservation Areas

- 8.4.15. There is one Listed Building within the bounds of the site, the Timber Aqueduct (LB16143). This is a Grade II structure over the railway cutting for the Taff Bargoed Railway. This structure collapsed in 2007, and a scheme of restoration was undertaken (Dunning 2010) which resulted in this aqueduct being reconstructed to the west of its original location on the site of another former aqueduct at NGR SO 07456 06051. The impact of the proposed restoration scheme to this asset would have the same benefits as those to the Sarn Howell Pond. These assets form part of the DFDS and would be incorporated into the final design of the restoration providing safer and better accessibility and educational opportunities.
- 8.4.16. The majority of the Listed Buildings and Conservation Areas lie in the valley bottom with few lines of sight to the restoration area. The Listed Buildings within the Thomastown Conservation Area have no views of the site due to its position on a west facing slope and those within the Town Centre Conservation area and Morganstown have no views to the site due to intervening topography.
- 8.4.17. There are isolated views from Dowlais Engine House (LB11491) and Dowlais Stables (LB11478) within the Dowlais Conservation Area (Plate 12 and Plate 13), and Lower Row (LB27085) and Ivor Works (LB27086) as the topography rises (Plate 14 and 15).
- 8.4.18. The restoration area is also visible from those designated sites on the

opposing valley side such as the Cyfarthfa Conservation Area (Plate 16 and Plate 17), however the site does not dominate the views.

- 8.4.19. All of these views would be improved by the revegetation of the site and the relandscaping of the restoration area integrating them into the surrounding hillsides.

Non designated sites

- 8.4.20. The non-designated sites have been split into four categories.

- a) Assets which lie outside of the extraction/overburden areas (36);
- b) Assets which have had the impacts of the restoration works mitigated as part of an earlier scheme (68);
- c) Assets with no clear previous mitigation, below the overburden mounds, survival possible but unlikely (24) and;
- d) Assets with no clear previous mitigation, within the main extraction areas, destroyed (62)

- 8.4.21. The restoration works do not propose any direct impacts to non-designated assets which remain following the main extraction works. Although, without the completion of the former mitigation works (full reporting and depositing with the HER/RCAHMW), many of the sites within the redline boundary are unmitigated.

- 8.4.22. Most of the sites in the 'a)' category will be indirectly impacted by the restoration works, however the impact will likely be beneficial in comparison to the current baseline based on the revegetation of the area.

9. Mitigation

- 9.1.1. There are nearly 200 sites noted as being present within the bounds of the current proposal area. While mitigation has been carried out on many of the

sites as a part of an earlier phase of the restoration, in some cases, the reporting remains incomplete, therefore, not fully complying with Condition 51 of the former approval *'The site shall be reclaimed (progressively) in accordance with the Restoration Strategy.'*

- 9.1.2. The assessment of the extensive excavations carried out by GGAT between 2007-2009 (Hart and Tuck, 2011) concluded that further analysis of the site archive, finds and environmental assemblage would be required, and a staged programme of post-excavation and reporting was proposed. Undertaking this final stage of reporting and deposition with the relevant archives would conclude the mitigation of the sites which these works addressed.
- 9.1.3. As a part of the final stage of the restoration, there would be significant benefit in the compilation and dissemination of the research which has been carried out during the Stage III Reclamation scheme and concluding the extensive archaeological work that has already been undertaken.
- 9.1.4. Further mitigation which would result in a beneficial impact would be the inclusion of information panels near to Sarn Howell Pond and the Listed Aqueduct, informing the public on the nearby monuments as well as the incorporation of heritage walking routes into the final design.

10. Conclusion

- 10.1.1. Archaeology Wales have been commissioned by MSW to carry out an archaeological desk-based assessment in order to assess the likely impacts which could result from the implementation of the final restoration strategy, proposed for the former open cast mine at Ffos-y-Fran, Merthyr Tydfil.
- 10.1.2. The restoration area lies within the Merthyr Tydfil Landscape of Outstanding Historic Interest in Wales (HLW (MGL) 2) and lies just over 650m north-west of

the Gelligaer Common Landscape of Special Historic Interest (HLW (MGI) 4). The proposed scheme aims to improve the visual characteristics of the extraction area and remaining overburden mounds improving the visible setting of both registered landscapes from their current condition. The scheme also allows to make the restoration area safe therefore improving the accessibility to, and continued maintenance of, the Merthyr Historic Landscape.

- 10.1.3. There is a one SM within the bounds of the proposed restoration area, Sarn Howell Pond and Watercourses (GM494) and another just beyond the bounds, the Ffos-y-fran Deserted Iron Mining Village (GM496). The proposals intend to retain and maintain the Sarn Howell Pond and Watercourses incorporating them into the final design. This will result in a more accessible site with a potential for educational and community opportunities. The planned revegetation of the area will improve the setting of the monuments. There will be no significant impacts to any other SMs.
- 10.1.4. There is one Listed Building within the bounds of the site, the Timber Aqueduct (LB16143). The impact of the proposed restoration scheme to this asset would have the same benefits as those to the Sarn Howell Pond. These assets form part of the DFDS and would be incorporated into the final design of the restoration providing better accessibility as well as educational and community opportunities. No significant impacts are projected for any other Listed Buildings or any Conservation Areas, where the site is visible from isolated locations, the views would be improved by revegetation and reprofiling.
- 10.1.5. Within the redline boundary 190 heritage assets have been identified, 36 of these have not been directly impacted during the extraction phase and will not be subject to direct impacts during the current proposals. Sixty-eight of the

identified sites have records of mitigation previously having been undertaken, however a number of these are lacking the final stages of reporting and archiving. Eighty-six of the sites are most likely destroyed, without any evident mitigation, 62 within the extraction area and 24 within the area of the overburden mounds. There is a potential for mitigation having been carried out which is not yet completed and publicly accessible.

- 10.1.6. The restoration works do not propose any direct impacts to non-designated assets which remain following the main extraction works. Although, without the completion of the former mitigation works (full reporting and depositing with the HER/RCAHMW), many of the sites within the redline boundary are unmitigated.
- 10.1.7. Recommendations for mitigation comprise the conclusion of the previous mitigation strategies through final reporting and archiving. As a part of the final stage of the restoration, there would be enormous benefit in the compilation and dissemination of the research which has been carried out during the Stage III Ffos-y-fran Reclamation scheme and concluding the extensive archaeological work that has already been undertaken.
- 10.1.8. The proposed restoration scheme will continue to add to the value of the landscape improving the accessibility to, and continued maintenance of, the surviving heritage assets and overall historic landscape. The scheme provides educational and community opportunities through the dissemination of the research which has been carried out and possibly the inclusion of information panels and heritage walking routes into the final design.

11. Sources

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Figures

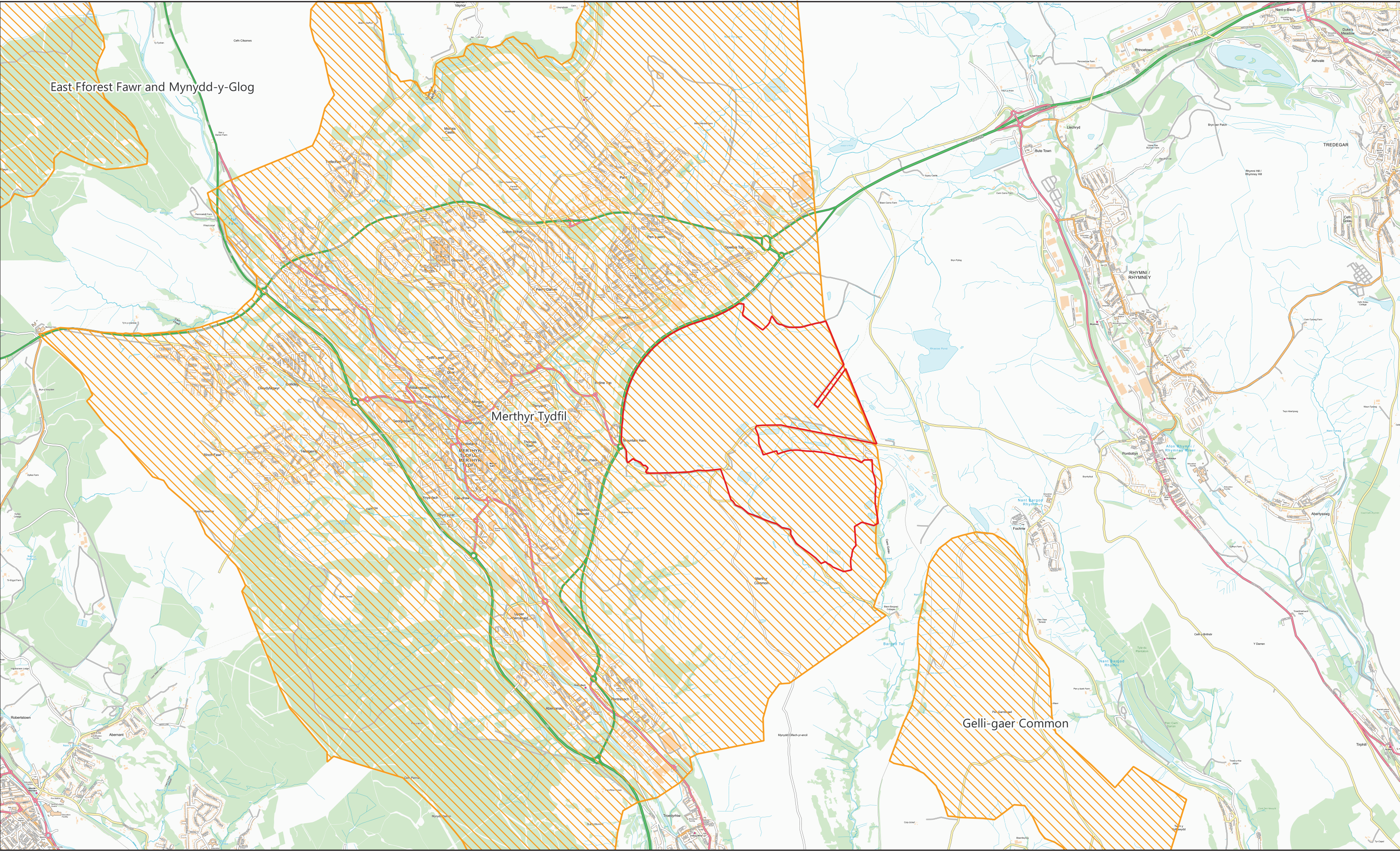


Figure 2. Registered Historic Landscapes

- Development Boundary
- Registered Historic Landscape



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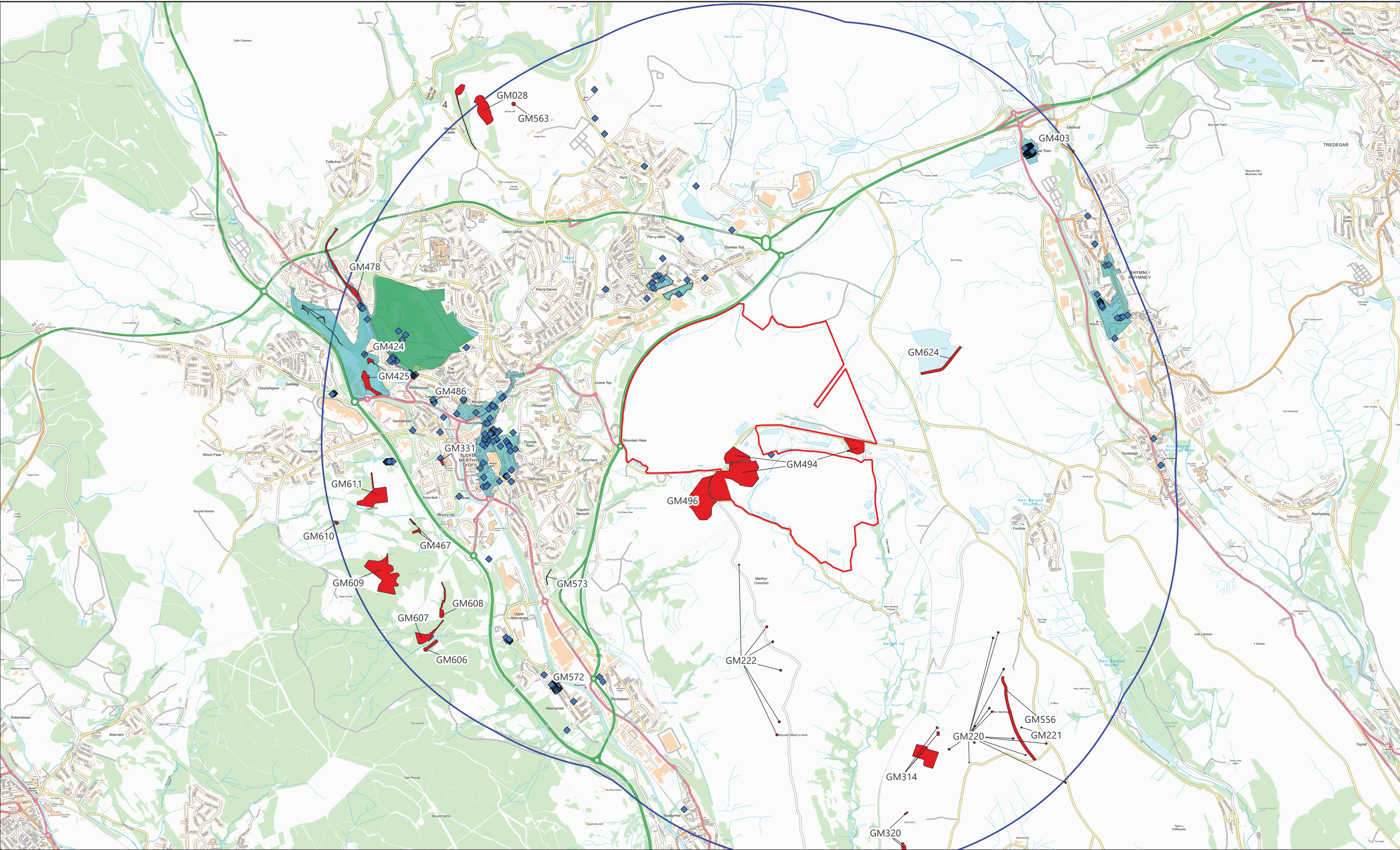


Figure 2. Designated assests within the 3km Study Area

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- | | |
|----------------------|----------------------------|
| Restoration Boundary | Listed Building |
| 3km Study Area | Registered Park and Garden |
| Scheduled Monument | Conservation Area |



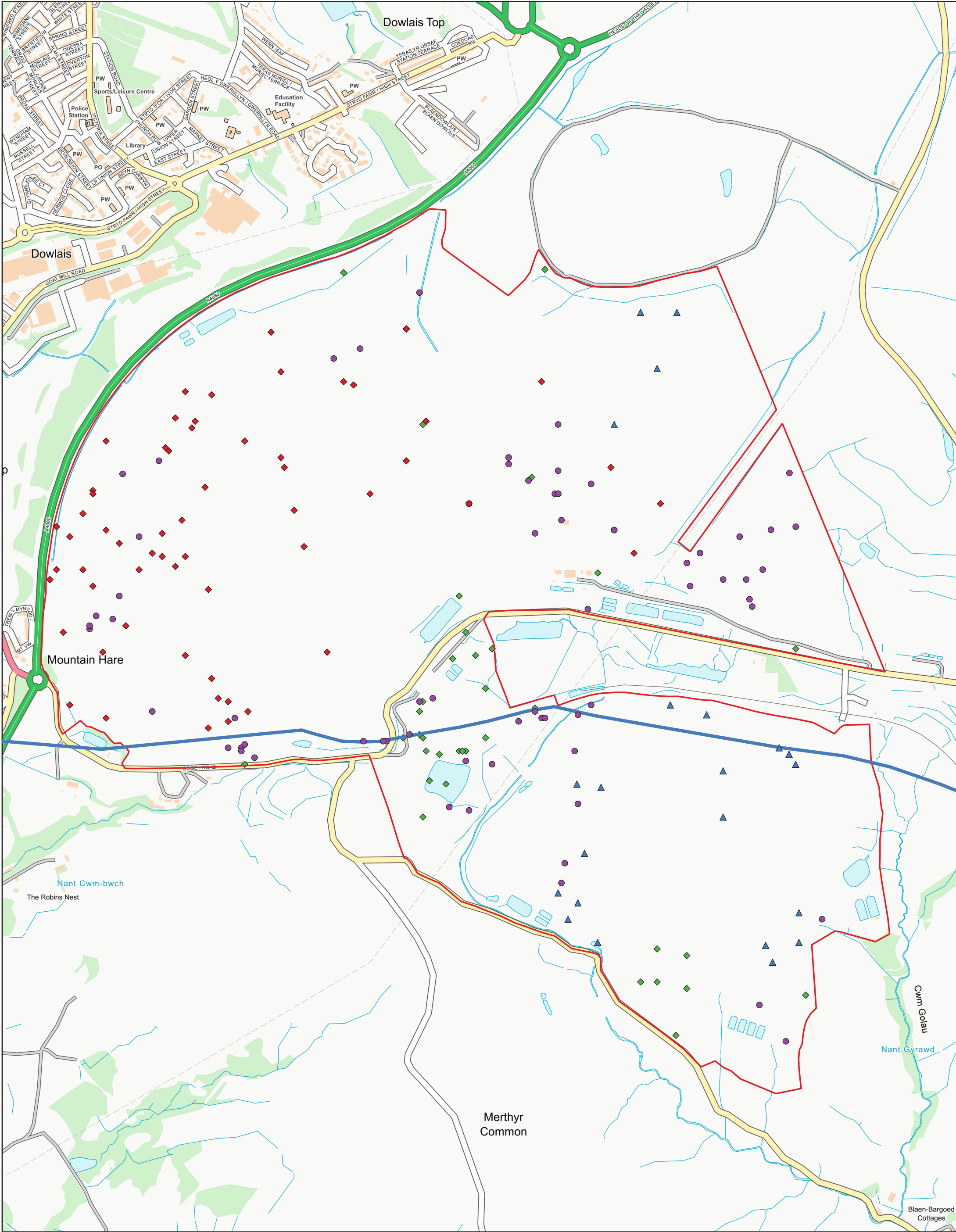


Figure 4. All assets within the bounds of the restoration area

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- ◆ Outside of extraction/overburden areas
- Previously mitigated assets
- ▲ Below overburden mounds
- ◆ Within extraction area
- Development Area



0 250m 0.5km

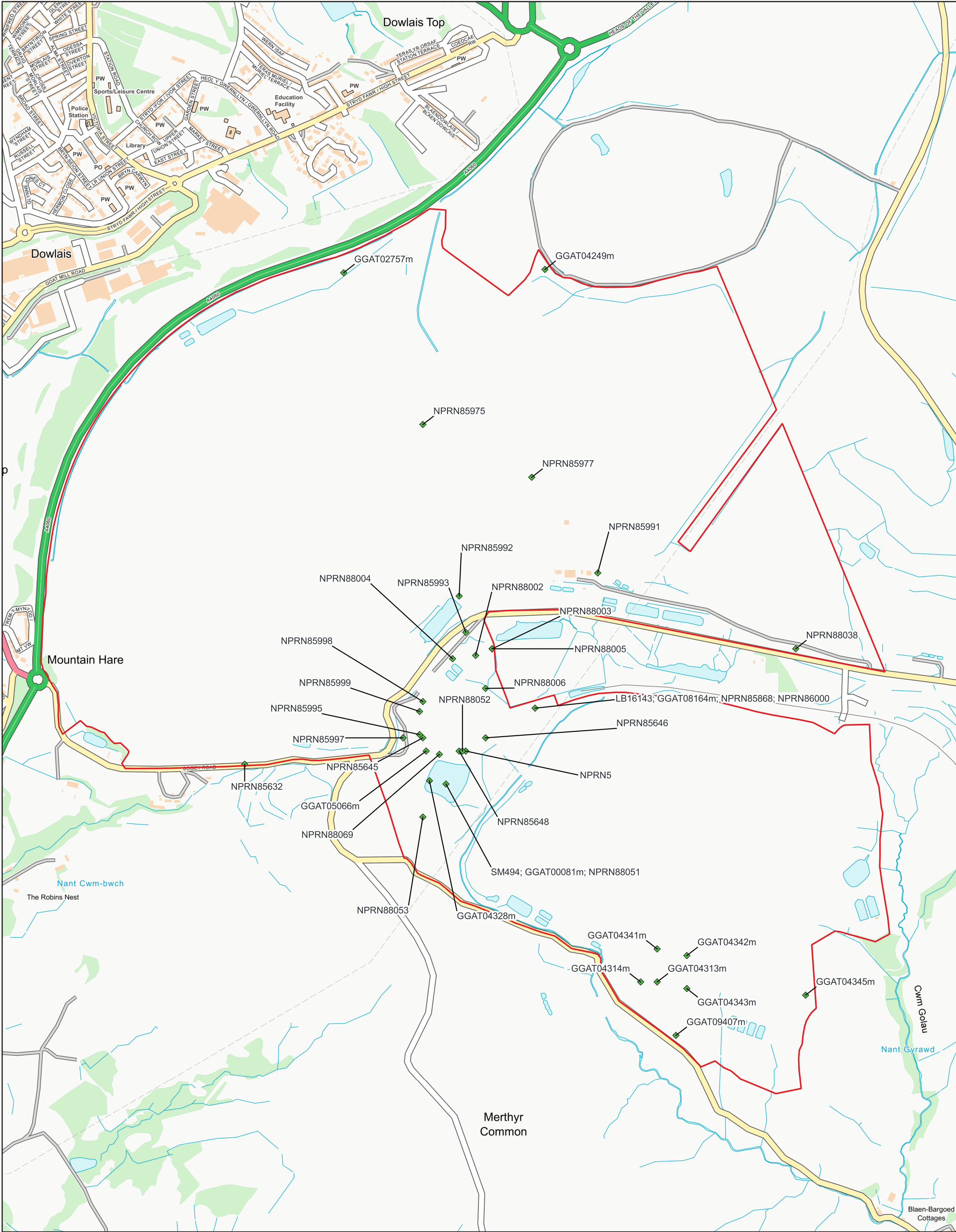


Figure 2. Assets outside of extraction/overburden areas

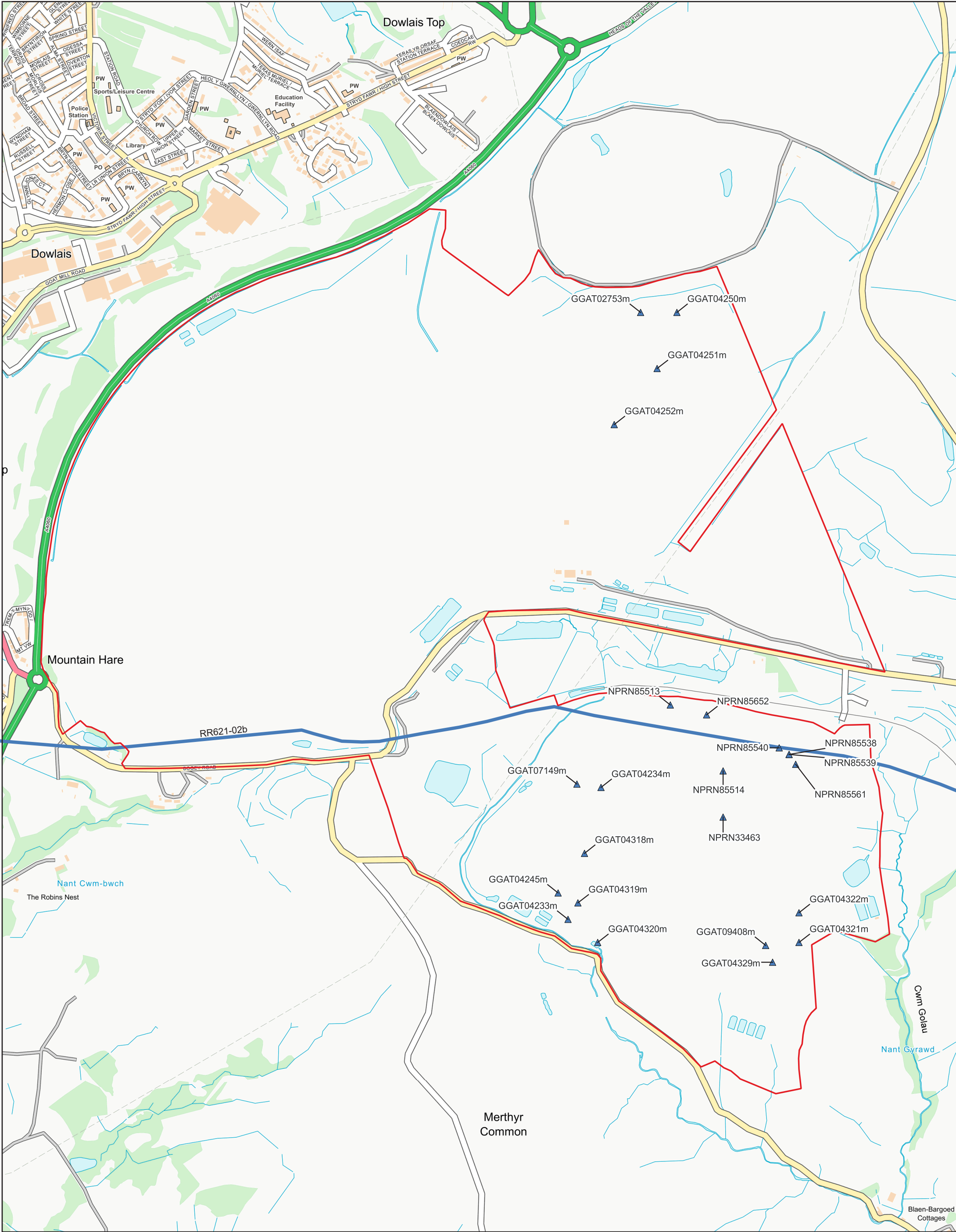


Figure 2. Assets currently below overburden mounds OB1, OB2 or OB3 with no published mitigation

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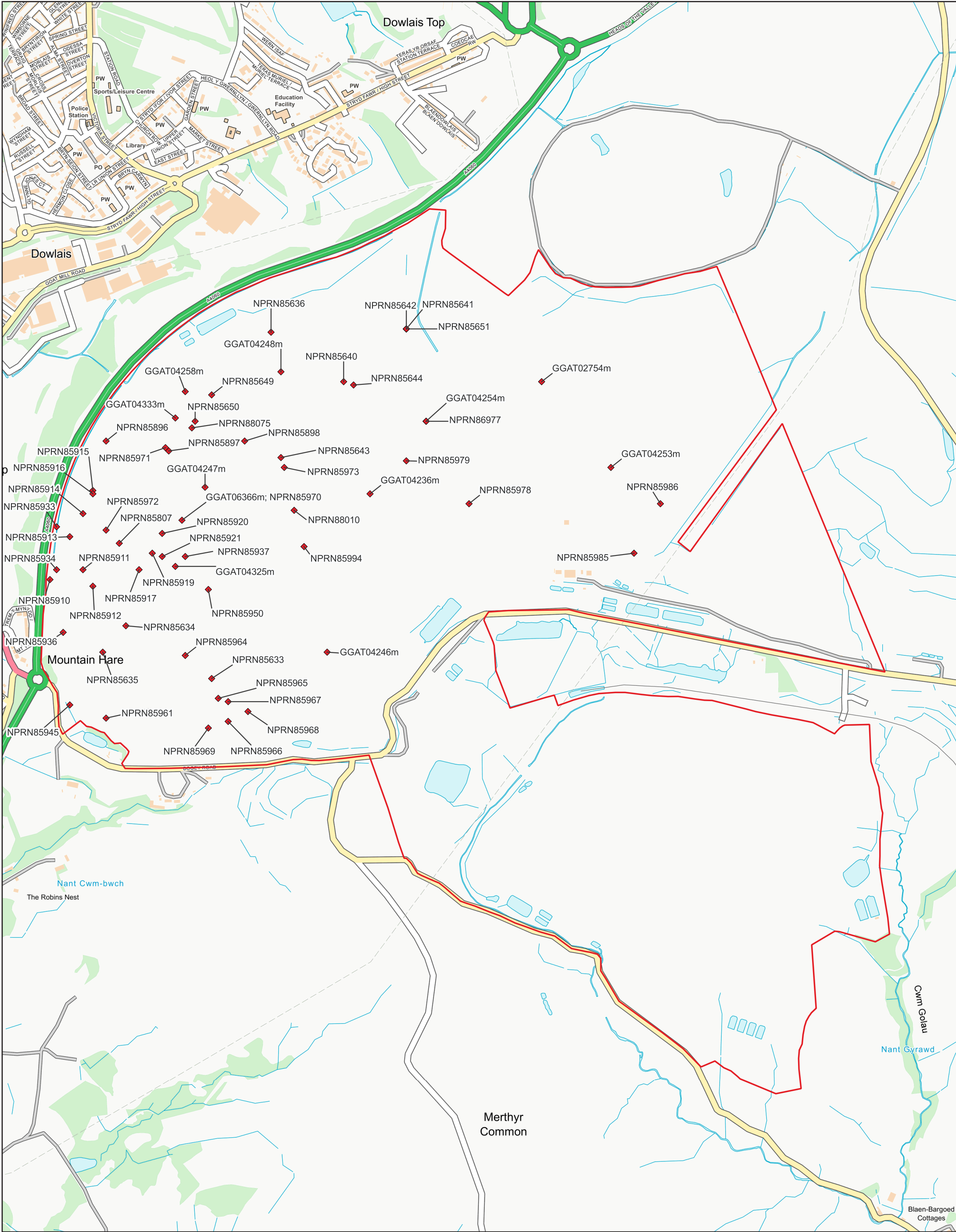


Figure 2. Assets within extraction area with no accessible mitigation reports

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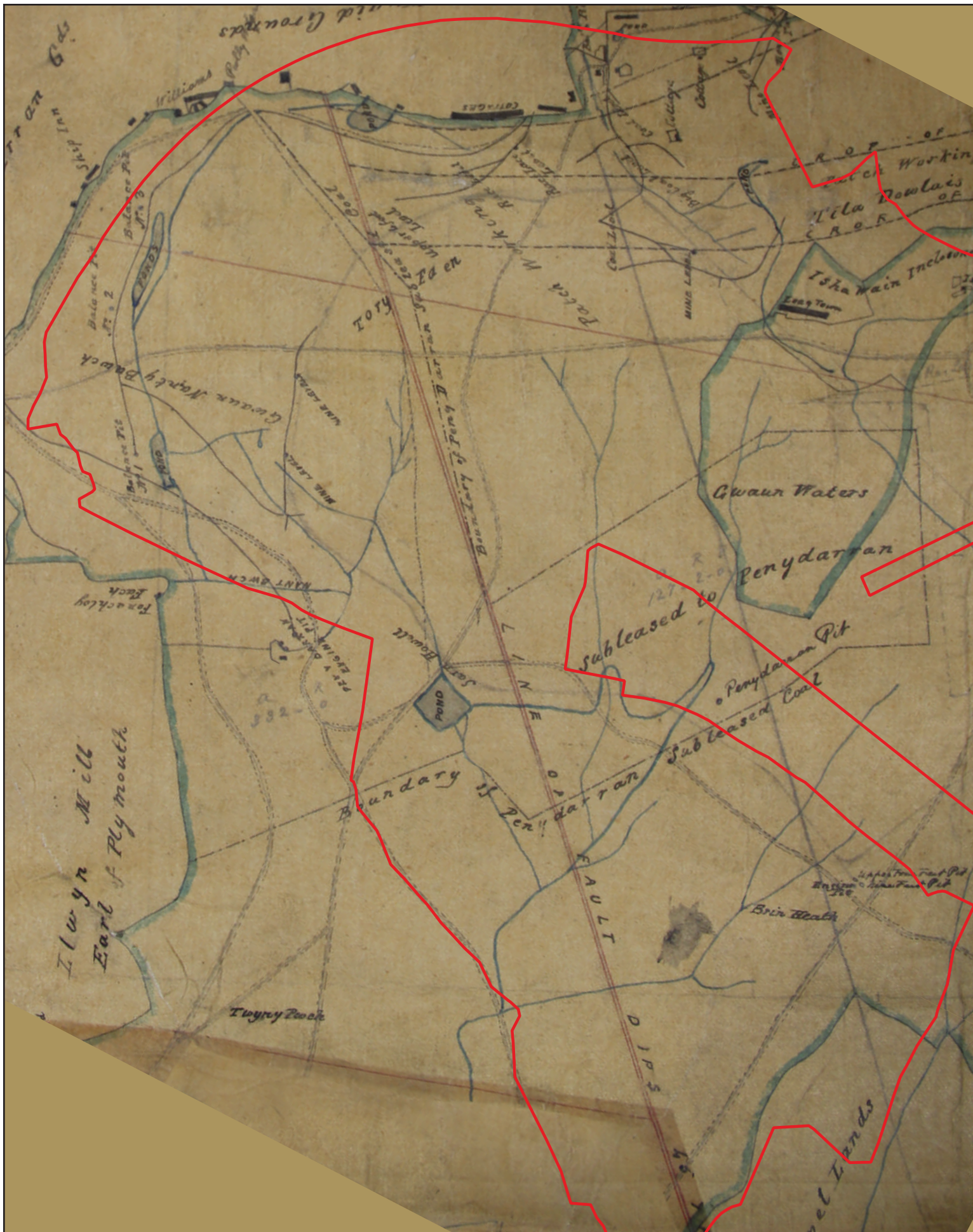


Figure 1. Map of Sengheneth Common c.1820





Figure 2. Ordnance Survey Map - Surveyed in 1868-75, published 1885

— Restoration Boundary



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Plates



Plate 1. Relocated Listed Aqueduct (LB14143) view to south-east towards OB3



Plate 2. Relocated Listed Aqueduct (LB14143) view to the north towards the extraction area



Plate 3. Within Northern SM area of GM494 view east towards OB1 and OB2



Plate 4. Within the northern SM area of GM494 view south-east towards OB3



Plate 5. Sarn Howell Pond, view south-east towards OB3



Plate 6. Sarn Howell Pond, view to the east towards OB3



Plate 7. Rhas Las Dam (GM624), view to the west towards OB1 and OB2



Plate 8. View north over the Deserted Iron Mining Village (GM496) towards the main extraction area



Plate 9. View north-east from the northern point of the Gelli-gaer Common Registered Landscape towards the restoration area.



Plate 10. View to the east of the Garth Fawr prehistoric area in the southern part of the restoration area.



Plate 11. View to the north-east from the Garth Fawer prehistoric area towards OB3.



Plate 12. View from Dowlais Conservation Area at the Dowlais Engine House (LB11491)



Plate 13. View south-east from Dowlais CA at the Dowlais Works Stables (LB 11478)



Plate 14. View from Lower Row (LB27085) to the south



Plate 15. View from the Ifor Works (LB27086) to the south-east

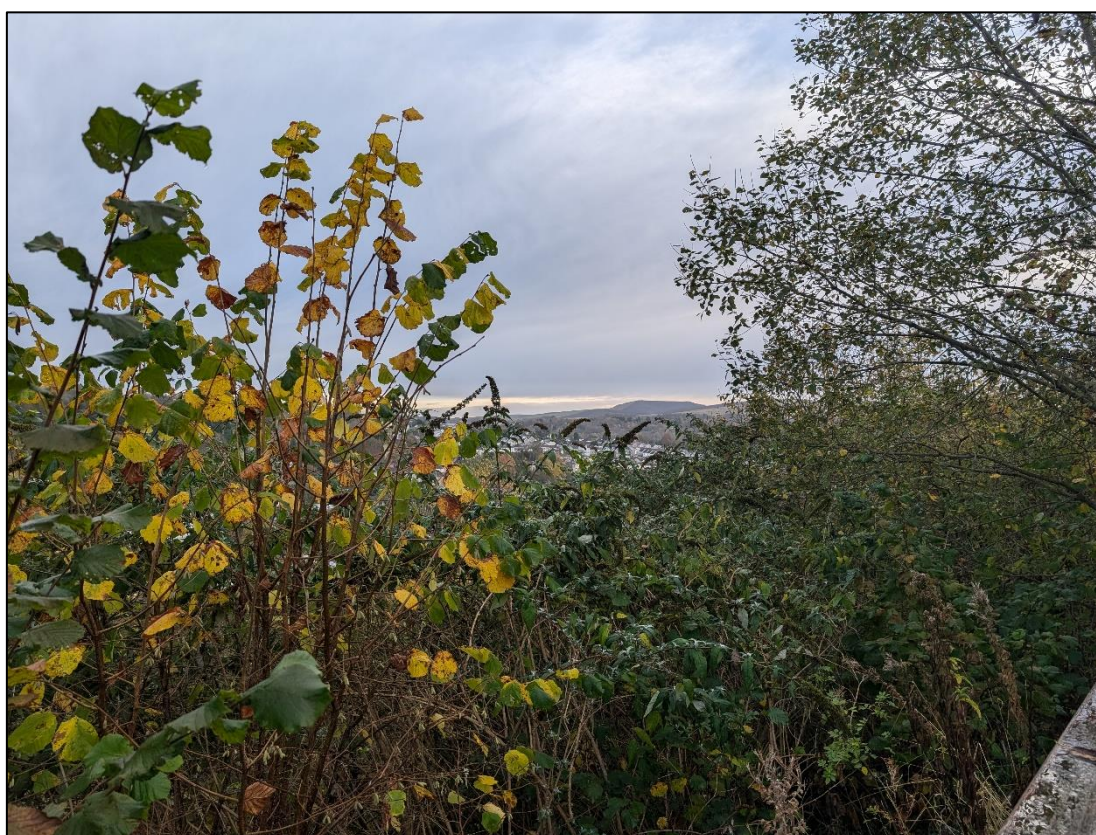


Plate 16. View east from Cyfarthfa Conservation Area from atop the Cyfarthfa Blast Furnaces (GM425)



*Plate 17. View eastwards from Cyfarthfa Conservation Area from the Cefn Railway Viaduct
(LB11382/LB11377)*



Appendix I: Gazetteer of sites on regional HER

HENEB: GLAMORGAN-GWENT ARCHAEOLOGY HISTORIC ENVIRONMENT RECORD ENQUIRY REPORT - CORE RECORDS

Enquiry reference number: 9042

Prepared by: Calli Rouse, Heneb: Glamorgan-Gwent Archaeology
Produced for: Charley James-Martin, Archaeology Wales

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Search criteria

All sites within the attached redline boundary. Its centered on NGR SO 07610 06289 for a site at Ffos y fran, Merthyr Tydfil

PRN 00066m **NAME** Ffos-Y-Fran, Deserted Iron Mining Village, Merthyr Tydfil **NGR** SO07080569, SO0711306329, SO0712606370 **COMMUNITY** Troed-y-rhiw

TYPE POST MEDIEVAL, Workers village, **RANK:** 1

SUMMARY The site of an iron mining village and adjacent mining earthworks, probably dating to the 18th or 19th century, deserted around 1879.

DESCRIPTION The site of a deserted iron mining village and adjacent mining earthworks, probably dating to the 18th or 19th century, emerging as a squatter settlement permitted by the Lord of the Manor in order to provide labour for the isolated upland iron ore mines. The village may have been occupied by a 100 people. The foundations of at least 15 cottages and the outlines of gardens reside under the quarry faces and former spoil tips, arranged in irregular pattern. The village was recorded as abandoned in 1879. The monument is of national importance for its potential to enhance knowledge of 18th or 19th century iron working and other industrial practices. It retains significant archaeological potential, with a strong probability of the presence of associated archaeological features and deposits, as well as information concerning chronology and building techniques (Evans 2019).

CONDITION

CONDITION: Not known **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:** 1997

STATUS Scheduled Monument GM496

CROSS REFERENCES - - GGATE003866, GGATE008178, GGATE008192, GGATE008193, GGATE008207

SOURCES

Report Evans, J. 2019 Gelligaer and Merthyr Common: Heritage Impact Assessment 4949

Report Maylan, C.N. & Page, N.A. 1990 Helid Colliery, Rhymney. Proposed Open Cast Mining. An Archaeological Assessment 171 90 01

01/Desc Text/Cadw/ Full Management Report/2007/ Copy in further information file **ARCHWILIO URL**

<http://archwilio.org.uk/arch/query/page.php?watprn=GGAT00066m>, <https://archwilio.org.uk/arch/query/page.php?watprn=GGAT00066m>

PRN 00081m **NAME** Sarn Howell Pond and Watercourses **NGR** SO0756005900 **COMMUNITY** Town
TYPE Unknown, Water course, **RANK:** 1

SUMMARY *A collection of features associated with water supply to Dowlais Ironworks and related iron and coal mines. (EM13)*

DESCRIPTION *A collection of features associated with water supply to Dowlais Ironworks and related iron and coal mines. (EM13) The Dowlais works grew rapidly in the early 19th century to become the largest in the world, leading to much greater demands for water to supply waterwheels, balances and steam engines at the works and its surrounding mines.*

CONDITION

CONDITION: Not known DESCRIPTION: - RELATED EVENT: - RECORDED: 1997

STATUS *Scheduled Monument GM494*

CROSS REFERENCES *Same as 88051 GGATE003751, GGATE007964, GGATE008192*

SOURCES

Document Cadw Revised Entry to the Schedule of Monuments

01/Desc Text/Cadw/ Full Management Report/2007/ Copy in further information file ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT00081m>

PRN 02753m **NAME** Twyn-Y-Waun Farm **NGR** SO08150733 **COMMUNITY** Town

TYPE POST MEDIEVAL, Farmstead, **RANK:** 1

SUMMARY *GGAT Assessment East Merthyr Land Reclamation - Twyn-y-Waun farmstead, site of medieval fair EM2*

DESCRIPTION *GGAT Assessment East Merthyr Land Reclamation - Twyn-y-Waun farmstead, site of medieval fair EM2*

CONDITION

CONDITION: Not known DESCRIPTION: - RELATED EVENT: - RECORDED: 1998

STATUS *None recorded*

CROSS REFERENCES - - GGATE003751

SOURCES

GGAT Assessment East Merthyr Land Reclamation - ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT02753m>

PRN 02754m **NAME** Longtown Cottages **NGR** SO07850712 **COMMUNITY** Town

TYPE POST MEDIEVAL, House, **RANK:** 1

SUMMARY *A row of 20 workers' cottages appear on the 1st and 2nd edn 25" map located along a footpath leading from Dowlais. Destroyed by the time of the 3rd edn.*

DESCRIPTION *A row of workers' cottages 1st and 2nd edn OS maps 25" maps show the cottages fronting a footpath running up onto Merthyr Common from Dowlais, in an area of quarries and limestone mines. The cottages face northwards onto the footpath, with their gardens on the other side of it, partly protected by a shelter-belt of trees. There appear to have been 20 cottages in the row, but some of them had obviously undergone structural modification before the survey for the 1st edn. The cottages had been destroyed by the time the 3rd edn was surveyed. Page suggests that the Longtown Cottages may have been constructed as part of a planned programme of housing, possibly, given their location on the plateau in apparent isolation from the main urban centre, as part of an unfinished building scheme. However, it is more likely that they were self-build by squatters on common land. GGAT Assessment East Merthyr Land Reclamation EM3*

CONDITION

CONDITION: Not known DESCRIPTION: - RELATED EVENT: - RECORDED: 1998

STATUS *None recorded*

CROSS REFERENCES - - GGATE003751, GGATE003775

SOURCES

Report Page, N 1993 East Merthyr Land Reclamation Scheme: Desk-based assessment 136 93_05

GGAT Assessment East Merthyr Land Reclamation - ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT02754m>

PRN 02757m **NAME** Dowlais Rail Terminal **NGR** SO07250745 **COMMUNITY** Dowlais

TYPE POST MEDIEVAL, Railway station, **RANK:** 1

SUMMARY *GGAT Assessment East Merthyr Land Reclamation - Dowlais rail terminal was a busy coal terminal (EM 9)*

DESCRIPTION *GGAT Assessment East Merthyr Land Reclamation - Dowlais rail terminal was a busy coal terminal (EM 9)*

CONDITION

CONDITION: Not known DESCRIPTION: - RELATED EVENT: - RECORDED: 1998

STATUS *None recorded*

CROSS REFERENCES - - GGATE003751

SOURCES

GGAT Assessment East Merthyr Land Reclamation - ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT02757m>

PRN 02760m **NAME** *Penydarren Platform* **NGR** SO07380603 **COMMUNITY** *Town*

TYPE *POST MEDIEVAL, Railway station, RANK: 1*

SUMMARY *A station provided for the use of workmen (miners at Penydarren Pit) only, not for general public use. Originally two platforms, one either side of the double-track railway (G.W.&.Rhymney Joint Rly. Taff Bargoed Section), but only that on the S side now*

DESCRIPTION *A station provided for the use of workmen (miners at Penydarren Pit) only, not for general public use. Originally two platforms, one either side of the double-track railway (G.W.&.Rhymney Joint Rly. Taff Bargoed Section), but only that on the S side now remains. Brick face and pillars, rubble core. No trace of any building and there probably never was one. (DJP 12/04/95) GGAT Assessment Merthyr east land reclamation - EM11*

CONDITION

CONDITION: Not known DESCRIPTION: - RELATED EVENT: - RECORDED: 1998

STATUS *None recorded*

CROSS REFERENCES *Same as 88007 GGATE003751*

SOURCES

GGAT Assessment East Merthyr Land Reclamation - ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT02760m>

PRN 02761m **NAME** *Aqueduct, Dowlais Free Drainage System* **NGR** SO07450605 **COMMUNITY** *Town*

TYPE *POST MEDIEVAL, Aqueduct, RANK: 1*

SUMMARY *A timber-built bridge aqueduct built in c1876, crossing the aff Bargoed branch of the joint Rhymney and Great Western Railway which would have supplied water to the Dowlais Ironworks*

DESCRIPTION *A timber-built bridge aqueduct built in c1876, crossing the aff Bargoed branch of the joint Rhymney and Great Western Railway, incorporated into the Sarn Howell Watercourse which had been in operation by c1839. The aqueduct would have supplied water to the Dowlais Ironworks (c1818) and was in use until the 1960s. Such timber structures were common on railways in the nineteenth century, but are now rare (Cadw LB16143). A timber-built bridge carrying a leat (85900) across the G.W. & Rhymney Joint Railway Taff Bargoed Section. (85559). Part of the Dowlais Free Drainage System. GGAT Assessment Merthyr east land reclamation - EM12*

CONDITION

CONDITION: Not known DESCRIPTION: - RELATED EVENT: - RECORDED: 1998

STATUS *Listed Building 16143 II*

CROSS REFERENCES *Associated with 01615m, Associated with 02471m, Same as 85996 GGATE003339, GGATE003751, GGATE003775, GGATE007287*

SOURCES

Online Resource Cadw Listed Buildings Description
Report Dunning, R 2010 Aqueduct (02761m/85996)m Ffos-y-fran, Merthyr Tydfil: Archaeological Excavation Interim Report 2936 2011_05
Report Malaws, M. and Wakelin, P. 1993 East Merthyr Opencast/Reclamation Phase III: Report of Fieldwork 3124 2012_07
Report Page, N 1993 East Merthyr Land Reclamation Scheme: Desk-based assessment 136 93_05
Report Tuck, M 2014 Ffos-y-fran Reclamation Scheme, Merthyr Tydfil: Archaeological excavation of aqueduct

(2761m/85996) and watching brief report during reinstallation of the conserved aqueduct 3827
GGAT Assessment East Merthyr Land Reclamation - **ARCHWILIO URL**
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT02761m>

PRN 04230m **NAME** Quarry, North of Penydarren Pits **NGR** SO07960584 **COMMUNITY** Town
TYPE POST MEDIEVAL, QUARRY, **RANK:** 1
SUMMARY A small quarry named on 1st edition 6-inch OS map of 1875.

DESCRIPTION A small quarry named on 1st edition 6-inch OS map of 1875.T

CONDITION
CONDITION: NOT KNOWN **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:** 1875

STATUS None recorded
CROSS REFERENCES - -

SOURCES
Map Ordnance Survey 1st Edition OS map 6"
ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04230m>

PRN 04231m **NAME** Pen-y-waun-fawr Pits and Associated Features **NGR** SO07300722 **COMMUNITY** Dowlais
TYPE POST MEDIEVAL, INDUSTRIAL SITE, **RANK:** 1
SUMMARY Features associated with the Pen-y-waun-fawr Pit (Ironstone). Following a watching brief, an heritage statement by GGAT (E007399) has recorded exposed masonry building, comprising arches and multiple levels. Their function is as yet unclear, but their good preservation allude to the high possibility of further structures being unearthed in the area.

DESCRIPTION Features associated with the Pen-y-waun-fawr Pit (Ironstone). The 1st edition OS (1875) depicts engine house and other structures, tramways, tips, etc. Site much reduced by 1905, old shaft and single structure remain. An heritage statement by GGAT in 2015 took note of recently revealed features (E007399): Two elevations of a rectangular masonry building have been exposed; the shorter length facing southwest measured approximately 4-5m in length and the longer elevation, in excess of 10m, faced southeast. The southwest facing elevation was plain but the southeast elevation had two blocked archways formed from four rows of yellow coloured brick headers, below four rectangular voids with timber lintels. Secondary structures were discovered to the northwest and northeast. Brick walling in excess of 2m in length abutted the short length of masonry on the northwest side and a brick chamber, roofed with metal plates and containing pipework, were found on the northeast side. The differing height from the main structure indicates that they were to operate on different working levels. (Tuck, 2015)

CONDITION
CONDITION: NOT KNOWN **DESCRIPTION:** RELATED EVENT: RECORDED: 1875

STATUS None recorded
CROSS REFERENCES - - GGATE007399

SOURCES
Map Ordnance Survey 1st Edition OS map 6"
Report Tuck, M. 2015 Ffos-y-fran Land Reclamation Scheme, Merthyr Tydfil. Statement relating to Pen y waun fawr pit 3662
ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04231m>

PRN 04232m **NAME** Linear Feature, South of Isaac Morgan Cottages **NGR** SO07950600 **COMMUNITY** Town
TYPE MODERN, FIELD BOUNDARY, **RANK:** 1
SUMMARY Recent field boundary

DESCRIPTION An L-shaped linear feature noted from aerial photographs (6711 Meridian 71/67/108 and 9139 Geonex H 010 4991/026 & 027). The feature was found to be a recent field boundary (Locock 2003)

CONDITION
CONDITION: DESCRIPTION: - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04232m>

PRN 04233m **NAME** Rectangular Feature, North of Penydarren Pits **NGR** SO07930549 **COMMUNITY** Town
TYPE UNKNOWN, ENCLOSURE, RANK: 1
SUMMARY A small rectangular earthwork, possibly an enclosure.

DESCRIPTION A small rectangular earthwork, possibly an enclosure, located adjacent to the Taff Bargoed on aerial photographs (7313 Meridian 28/73/15).

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04233m>

PRN 04234m **NAME** Rectangular Feature, North of Penydarren Pits **NGR** SO08030589 **COMMUNITY** Town
TYPE UNKNOWN, ENCLOSURE, RANK: 1
SUMMARY A small rectangular earthwork, possibly an enclosure.

DESCRIPTION A small rectangular earthwork, possibly an enclosure, located adjacent to the Taff Bargoed on aerial photographs (7313 Meridian 28/73/15).

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04234m>

PRN 04235m **NAME** Leat, Ffos-y-fran **NGR** SO07630582 **COMMUNITY** Town
TYPE UNKNOWN, LEAT, RANK: 1
SUMMARY Leat which appears on 1st edition 6-inch/25-inch OS maps.

DESCRIPTION Leat which appears on 1st edition 6-inch/25-inch OS maps of 1873/75, on 3rd edition of 1905, but is not shown later. Probably part of the Dowlais Free Drainage System. Aerial photographs show the feature to be more extensive than suggested by map evidence.

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04235m>

PRN 04236m **NAME** Leat, Ffos-y-fran **NGR** SO07330678 **COMMUNITY** Town
TYPE , LEAT, RANK: 1

SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04236m>

PRN 04237m **NAME** Leat, Ffos-y-fran **NGR** SO07480615 **COMMUNITY** Town

TYPE , LEAT, RANK: 1

SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04237m>

PRN 04240m **NAME** Leat/stream, North of Penydarren Pits **NGR** SO07570583 **COMMUNITY** Town

TYPE , LEAT, RANK: 1

SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04240m>

PRN 04241m **NAME** AP Site, Cwm Golau **NGR** SO08700549 **COMMUNITY** Town

TYPE , Awaiting details, RANK: 1

SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04241m>

PRN 04243m NAME *Leat, Ffos-y-fran* **NGR** *SO07520616* **COMMUNITY** *Town*
TYPE *, LEAT, RANK: 1*
SUMMARY *A674 FFOS Y FRAN, EAST MERTHYR DT*

DESCRIPTION *A674 FFOS Y FRAN, EAST MERTHYR DT*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES *- -*

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04243m>

PRN 04244m NAME *Rectangular Features, Tre-hir Pond* **NGR** *SO07910670* **COMMUNITY** *Town*
TYPE *, FEATURE, RANK: 1*
SUMMARY *A674 FFOS Y FRAN, EAST MERTHYR DT*

DESCRIPTION *A674 FFOS Y FRAN, EAST MERTHYR DT*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES *- -*

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04244m>

PRN 04245m NAME *Structure, North of Penydarren Pits* **NGR** *SO07900557* **COMMUNITY** *Town*
TYPE *, STRUCTURE, RANK: 1*
SUMMARY *A674 FFOS Y FRAN, EAST MERTHYR DT*

DESCRIPTION *A674 FFOS Y FRAN, EAST MERTHYR DT*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES *- -*

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04245m>

PRN 04246m NAME *Structures, Ffos-y-fran* **NGR** *SO07200630* **COMMUNITY** *Town*
TYPE *UNKNOWN, STRUCTURE, RANK: 1*
SUMMARY *A674 FFOS Y FRAN, EAST MERTHYR DT*

DESCRIPTION *A674 FFOS Y FRAN, EAST MERTHYR DT*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES *- -*

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04246m>

PRN 04247m **NAME** *Leat, Ffos-y-fran* **NGR** SO06830680 **COMMUNITY** *Town*
TYPE POST MEDIEVAL, LEAT, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04247m>

PRN 04248m **NAME** *Long Row, Site of* **NGR** SO07060715 **COMMUNITY** *Dowlais*
TYPE POST MEDIEVAL, TERRACED HOUSING, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04248m>

PRN 04249m **NAME** *Old Quarry, Trecatty* **NGR** SO07860746 **COMMUNITY** *Dowlais*
TYPE POST MEDIEVAL, QUARRY, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04249m>

PRN 04250m **NAME** *Well, Twyn-y-waun* **NGR** SO08260733 **COMMUNITY** *Town*
TYPE POST MEDIEVAL, WELL, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04250m>

PRN 04251m **NAME** Old Quarries, Tre-hir Pond **NGR** SO08200716 **COMMUNITY** Town
TYPE , QUARRY, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04251m>

PRN 04252m **NAME** Well, East of Tre-hir Pond **NGR** SO08070699 **COMMUNITY** Town
TYPE POST MEDIEVAL, WELL, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04252m>

PRN 04253m **NAME** Well, East of Tre-Hir Pond **NGR** SO08060686 **COMMUNITY** Town
TYPE POST MEDIEVAL, WELL, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04253m>

PRN 04254m **NAME** Leat, West of Tre-hir Pond **NGR** SO07500700 **COMMUNITY** Town
TYPE POST MEDIEVAL, LEAT, RANK: 1
SUMMARY A674 FFOS Y FRAN, EAST MERTHYR DT

DESCRIPTION A674 FFOS Y FRAN, EAST MERTHYR DT

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
 CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04254m>

PRN *04258m* NAME *Cottages, Pwll-yr-hwyaid* NGR *SO06770709* COMMUNITY *Dowlais*
 TYPE *UNKNOWN, COTTAGE, RANK: 1*
 SUMMARY *A674 FFOS Y FRAN, EAST MERTHYR DT*

DESCRIPTION *A674 FFOS Y FRAN, EAST MERTHYR DT*

CONDITION
 CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
 CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04258m>

PRN *04259m* NAME *Tyle Dowlais Pit and Associated Features* NGR *SO07480739* COMMUNITY *Dowlais*
 TYPE *UNKNOWN, EXTRACTIVE PIT, RANK: 1*
 SUMMARY *A674 FFOS Y FRAN, EAST MERTHYR DT*

DESCRIPTION *A674 FFOS Y FRAN, EAST MERTHYR DT*

CONDITION
 CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
 CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04259m>

PRN *04312m* NAME *Leats, N of Tal Cwm Bargoed* NGR *SO08480646* COMMUNITY *Town*
 TYPE *UNKNOWN, LEAT, RANK: 1*
 SUMMARY *A674 MERTHYR COMMONS - RR*

DESCRIPTION *A674 MERTHYR COMMONS - RR*

CONDITION
 CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*
 CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04312m>

PRN *04313m* NAME *Prehistoric Settlement Garth Fawr* NGR *SO08200530* COMMUNITY *Town*
 TYPE *UNKNOWN, SETTLEMENT, RANK: 1*
 SUMMARY *A674 MERTHYR COMMONS - RR*

DESCRIPTION *A674 MERTHYR COMMONS - RR*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04313m>

PRN *04314m* **NAME** *Stone Quarry, Garth Fawr* **NGR** *SO08150530* **COMMUNITY** *Town*
TYPE *UNKNOWN, QUARRY, RANK: 1*
SUMMARY *A674 MERTHYR COMMONS - RR*

DESCRIPTION *A674 MERTHYR COMMONS - RR*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04314m>

PRN *04316m* **NAME** *Culvert Part of Tram Road, Merthyr* **NGR** *SO07910560* **COMMUNITY** *Town*
TYPE *UNKNOWN, CULVERT, RANK: 1*
SUMMARY *A674 MERTHYR COMMONS - RR*

DESCRIPTION *A674 MERTHYR COMMONS - RR*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04316m>

PRN *04317m* **NAME** *Culvert Part of Tram Road, Merthyr* **NGR** *SO07920566* **COMMUNITY** *Town*
TYPE *UNKNOWN, CULVERT, RANK: 1*
SUMMARY *A674 MERTHYR COMMONS - RR*

DESCRIPTION *A674 MERTHYR COMMONS - RR*

CONDITION
CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04317m>

PRN *04318m* **NAME** *Rectangular Feature, S of Tal Cwm Bargoed* **NGR** *SO07980569* **COMMUNITY** *Town*
TYPE *, FEATURE, RANK: 1*
SUMMARY *A674 MERTHYR COMMONS - RR*

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04318m>

PRN 04319m **NAME** Pits, North of Pen-y-darren Pits **NGR** SO07960554 **COMMUNITY** Town

TYPE , PIT, **RANK:** 1

SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04319m>

PRN 04320m **NAME** Pits, North of Pen-y-darren Pits **NGR** SO08020542 **COMMUNITY** Town

TYPE , PIT, **RANK:** 1

SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04320m>

PRN 04321m **NAME** Building Platform, Garth Fawr **NGR** SO08630542 **COMMUNITY** Town

TYPE UNKNOWN, BUILDING PLATFORM, **RANK:** 1

SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04321m>

PRN 04322m **NAME** Bank and Ditch, Cwm Goleu **NGR** SO08630551 **COMMUNITY** Town
TYPE UNKNOWN, EARTHWORK, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION
CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04322m>

PRN 04325m **NAME** Culvert Under Railway, Glyncorwg **NGR** SO06740656 **COMMUNITY** Town
TYPE POST MEDIEVAL, CULVERT, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION
CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04325m>

PRN 04326m **NAME** Drainage Feature, West of Tre-hir Pond **NGR** SO07750689 **COMMUNITY** Town
TYPE UNKNOWN, DRAINAGE DITCH, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION
CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04326m>

PRN 04327m **NAME** Leat, South of Tre-hir Pond **NGR** SO07830666 **COMMUNITY** Town
TYPE UNKNOWN, LEAT, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION
CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded
CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04327m>

PRN 04328m **NAME** Tramroad / Track, West of Sarn Howell
Pond **NGR** SO07510591 **COMMUNITY** Town
TYPE POST MEDIEVAL, TRAMWAY, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04328m>

PRN 04329m **NAME** Possible Settlement, Garth Fawr **NGR** SO08550536 **COMMUNITY** Town
TYPE UNKNOWN, SETTLEMENT, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04329m>

PRN 04333m **NAME** Abutments, Railway Bridge, Dowlais Great
Tips **NGR** SO06740701 **COMMUNITY** Dowlais
TYPE POST MEDIEVAL, RAILWAY BRIDGE, RANK: 1
SUMMARY A674 MERTHYR COMMONS - RR

DESCRIPTION A674 MERTHYR COMMONS - RR

CONDITION

CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04333m>

PRN 04340m **NAME** Bridge Parapet, Dowlais Great Tip **NGR** SO06580684 **COMMUNITY** Dowlais
TYPE POST MEDIEVAL, BRIDGE, RANK: 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded

CROSS REFERENCES - -**SOURCES****ARCHWILIO URL**

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04340m>

PRN 04341m **NAME** Cairn, Garth Fawr **NGR** SO08200540 **COMMUNITY** Town
TYPE UNKNOWN, CAIRN, RANK: 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -**SOURCES****ARCHWILIO URL**

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04341m>

PRN 04342m **NAME** Hut Circle, Garth Fawr **NGR** SO08290538 **COMMUNITY** Town
TYPE UNKNOWN, HUT CIRCLE, RANK: 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -**SOURCES****ARCHWILIO URL**

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04342m>

PRN 04343m **NAME** Ap Features, Merthyr Tydfil **NGR** SO08290528 **COMMUNITY** Town
TYPE , Awaiting details, RANK: 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - -**SOURCES****ARCHWILIO URL**

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04343m>

PRN 04344m **NAME** Ap Features, MerthyrTydfil **NGR** SO08510523 **COMMUNITY** Town
TYPE , Awaiting details, RANK: 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04344m>

PRN 04345m **NAME** *Ap Features, Merthyr Tydfil* **NGR** SO08650526 **COMMUNITY** *Town*
TYPE , *Awaiting details*, **RANK:** 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04345m>

PRN 04346m **NAME** *Ap Features, Merthyr Tydfil* **NGR** SO08590512 **COMMUNITY** *Town*
TYPE , *Awaiting details*, **RANK:** 1
SUMMARY A674 MERTHYR COMMONS RR

DESCRIPTION A674 MERTHYR COMMONS RR

CONDITION

CONDITION: DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - -

SOURCES

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT04346m>

PRN 05066m **NAME** *Dowlais Free Drainage System, Merthyr Tydfil* **NGR** SO07500600 **COMMUNITY** *Town*

TYPE POST MEDIEVAL, *Reservoir*, **RANK:** 1

SUMMARY General number for the Dowlais Free Drainage System. The implementation of the Dowlais Free Drainage System (e.g. SAM Gm 494; PRNs 00081m; 02471m; NPRNs 4; 85868; 88039; 88041; 88051; 88069; etc.), an ingenious system of reservoirs and leats heralded the end of the early Dowlais period and the emergence of the following period. The system, fed by gravity and which in part dates to c. 1818, was crucial to the expansion of the ironworks at Dowlais and indeed Penydarren. It supplied water to the coal mines and ironworks of Dowlais via an extensive above-ground network of leats and reservoirs and underground U-shaped channels. (Owen, 1977, 67-8)

DESCRIPTION General number for the Dowlais Free Drainage System. The implementation of the Dowlais Free Drainage System (e.g. SAM Gm 494; PRNs 00081m; 02471m; NPRNs 4; 85868; 88039; 88041; 88051; 88069; etc.), an ingenious system of reservoirs and leats heralded the end of the early Dowlais period and the emergence of the following period. The system, fed by gravity and which in part dates to c. 1818, was crucial to the expansion of the ironworks at Dowlais and indeed Penydarren. It supplied water to the coal mines and ironworks of Dowlais via an extensive above-ground network of leats and reservoirs and underground U-shaped channels, built to the 'Dowlais pattern' within various levels, such as the Brew House Level, and Buxton's or the Purple Level. The system acted to drain a variety of coal seams including the Lower Four Feet seams of the Cwm-bargoed, Trecatty and Trehir area and the Upper, and Lower Four Feet, Big Coal, Red, Blue and Spotted Vein in the Pantywaun, Rhaslas, and South Tunnel areas, before eventually draining into a water pit at Tyle Dowlais Pit, from where water could either be pumped back to the surface system or allowed to drain to the charging levels of the Penydarren

furnaces (Owen 1977, 67-8). (01) (Sherman, 2004) The drainage system covers large areas of Merthyr Common above and below the Heads of the Valleys Road and is made up of reservoirs, leats, ponds and culverts. (Roberts 2003, 5-7) The two most prominent features are Pitwellt Pond 02700m and Jepsons Pond 86808. See also 02118m, 02139m, 02140m, 02221m, 02361m, 02708m to 02713m, 04192m, 04193m, 04194m for other Dowlais Free Drainage cores. (Sherman A, 2004)

CONDITION

CONDITION: Near intact **DESCRIPTION:** The water storage and drainage system was viewed during the preliminary archaeological assessment and noted as being near intact. **RELATED EVENT:** E005236 **RECORDED:** 2004

STATUS Scheduled Monument GM494

CROSS REFERENCES Associated with 00081m, Associated with 02471m, Associated with 09011m, Divided into 02139m, Divided into 02140m, Divided into 02700m GGATE003751, GGATE003775, GGATE005236

SOURCES

Book Owen JA 1977 The History of the Dowlais Ironworks 1759 - 1970
Document Cadw Revised Entry to the Schedule of Monuments
Report Page, N 1993 East Merthyr Land Reclamation Scheme: Desk-based assessment 136 93_05
Report Roberts R and Lawler M 2003 East Merthyr Reclamation Scheme, Phase 3, Merthyr Tydfil: archaeological field survey 1802205_03
Report Sherman, A. 2004 Merthyr Common, Wind Farm, Merthyr Tydfil: Preliminary archaeological assessment 2158 207_04
01. Sherman A (2004), GGAT A884 Merthyr Common, Wind Farm: Preliminary Archaeological Assessment 02/Desc Text/Cadw/ Full Management Report/2007/ Copy in further information file **ARCHWILIO URL**
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT05066m>

PRN 06366m **NAME** GW and Rhymney Joint Railway Zig-Zag

Branch **NGR** SO06850708 **COMMUNITY** Dowlais

TYPE POST MEDIEVAL, railway, **RANK:** -

SUMMARY G.W. and Rhymney Joint Railway (Taff-Bargoed Section) Zig-zag Branch: Jcn. with (85650) at SO06850708 - Jcn. 85624/85625 at SO06140717 via a reversing junction at SO06760617.

DESCRIPTION G.W. and Rhymney Joint Railway (Taff-Bargoed Section) Zig-zag Branch: Jcn. with (85650) at SO06850708 - Jcn. 85624/85625 at SO06140717 via a reversing junction at SO06760617.

CONDITION

CONDITION: **DESCRIPTION:** - **RELATED EVENT:** - **RECORDED:**

STATUS None recorded

CROSS REFERENCES Associated with 4333m, Associated with 4340m, Same as 85649 GGATE003751

SOURCES

Archive RCAHMMW National Monuments Record
Report Page, N 1993 East Merthyr Land Reclamation Scheme: Desk-based assessment 136 93_05
ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT06366m>

PRN 06368m **NAME** Penydarren Incline House **NGR** SO0770005960 **COMMUNITY** Town

TYPE POST MEDIEVAL, house ruins, **RANK:** -

SUMMARY Housing associated with the Dowlais Free Drainage System. Little survives in good condition.

DESCRIPTION Housing associated with the Dowlais Free Drainage System. Little survives in good condition.

CONDITION

CONDITION: Destroyed **DESCRIPTION:** - **RELATED EVENT:** E003775 **RECORDED:** 2012

STATUS None recorded

CROSS REFERENCES - - GGATE003775

SOURCES

Report Malaws, M. and Wakelin, P. 1993 East Merthyr Opencast/Reclamation Phase III: Report of Fieldwork 3124 2012_07
ARCHWILIO URL
<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT06368m>

PRN 07091m NAME Settlement, Ffos-y-fran **NGR** SO0668406853 **COMMUNITY** Dowlais
TYPE POST MEDIEVAL, settlement, **RANK:** -

SUMMARY The site comprises archaeological features including the remains of six buildings, a well, tramroad sections, a possible metalled 'road'™ surface, several ponds, leats and ditches, a quarry and an agricultural fieldscape of small regular fields all dating to the post-medieval period (Hart and Tuck 2011). Further information pending.

DESCRIPTION The site comprises archaeological features including the remains of six buildings, a well, tramroad sections, a possible metalled 'road'™ surface, several ponds, leats and ditches, a quarry and an agricultural fieldscape of small regular fields all dating to the post-medieval period (Hart and Tuck 2011). Further information pending.

CONDITION

CONDITION: Excavated **DESCRIPTION:** RELATED EVENT: E002283 **RECORDED:** 0

STATUS None recorded

CROSS REFERENCES - - GGATE002278

SOURCES

Report Hart, R and Tuck, M 2011 Ffos-y-fran Land Reclamation Scheme, Merthyr Tydfil: Post-excavation assessment 3267 2015_02

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07091m>

PRN 07143m NAME Soap Vein Pit Head, Ffos-y-fran **NGR** SO0853006550 **COMMUNITY** Town
TYPE POST MEDIEVAL, pit, **RANK:** 0

SUMMARY A substantial complex of buildings and structures of the Soap Vein pit was identified during excavations undertaken in 2011. A large building and three other stone structures; the latter included a circular chimney, engine platform and a structure probably associated with winding activities were also identified. The large building (10.5m by 4.2m) was divided into two contiguous sections, one which backed onto the chimney and one that contained a large rectangular sump. The walls had survived to several courses and were constructed of roughly coursed sandstone blocks. The sump (c.4m by 2m by 1m in depth) contained two large castiron plates in the base and a large drain supported by a cast-iron lintel. The drain followed a stone arched culvert southward for some 30m where it emptied onto the common moorland. The northern section of the building was clearly associated with the chimney and may have housed a boiler. The chimney stood to 1.2m along its northern half and measured 3.4m in diameter. The chimney base was constructed of large (0.5m by 0.6m) flat blocks of sandstone and appears to have been demolished shortly before abandonment (Hart and Tuck 2011). Further information pending.

DESCRIPTION A substantial complex of buildings and structures of the Soap Vein pit was identified during excavations undertaken in 2011. A large building and three other stone structures; the latter included a circular chimney, engine platform and a structure probably associated with winding activities were also identified. The large building (10.5m by 4.2m) was divided into two contiguous sections, one which backed onto the chimney and one that contained a large rectangular sump. The walls had survived to several courses and were constructed of roughly coursed sandstone blocks. The sump (c.4m by 2m by 1m in depth) contained two large castiron plates in the base and a large drain supported by a cast-iron lintel. The drain followed a stone arched culvert southward for some 30m where it emptied onto the common moorland. The northern section of the building was clearly associated with the chimney and may have housed a boiler. The chimney stood to 1.2m along its northern half and measured 3.4m in diameter. The chimney base was constructed of large (0.5m by 0.6m) flat blocks of sandstone and appears to have been demolished shortly before abandonment (Hart and Tuck 2011). Further information pending.

CONDITION

CONDITION: Excavated **DESCRIPTION:** RELATED EVENT: E002283 **RECORDED:** 0

STATUS None recorded

CROSS REFERENCES - - GGATE002278

SOURCES

Report Hart, R and Tuck, M 2011 Ffos-y-fran Land Reclamation Scheme, Merthyr Tydfil: Post-excavation assessment 3267 2015_02

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07143m>

PRN 07148m NAME Dowlais Ironstone Pit 1, Ffos-y-fran **NGR** SO0669006130 **COMMUNITY** Town
TYPE POST MEDIEVAL, ironstone level, **RANK:** -

SUMMARY Dowlais Ironstone Pit No.1 was established in the early 1800s and continued in use for the greater part of the 19th century. The initial findings were that in 1965 the pit shaft had been made safe by infilling, and that the upper part of the shaft walls were made good in order to support the concrete cap. A ruinous dwelling (11.2m by

5.2m) has been located just to the south and east of the shaft, of at least two storeys plus a basement; this house was likely to have been the pit manager's house. After the pit had gone out of use, the building became a domestic dwelling and was occupied until the 1940s. During this latter phase, the house underwent alterations to divide it into two separate dwellings. Immediately outside of the south facing front doors but hidden by the yard surface was a flight of stairs descending to a room with a vaulted ceiling, which possibly acted as a storeroom for the mine. The western wall of the basement acted as the partition wall. Further information pending (Hart and Tuck 2011).

DESCRIPTION Dowlais Ironstone Pit No.1 was established in the early 1800s and continued in use for the greater part of the 19th century. The initial findings were that in 1965 the pit shaft had been made safe by infilling, and that the upper part of the shaft walls were made good in order to support the concrete cap. A ruinous dwelling (11.2m by 5.2m) has been located just to the south and east of the shaft, of at least two storeys plus a basement; this house was likely to have been the pit manager's house. After the pit had gone out of use, the building became a domestic dwelling and was occupied until the 1940s. During this latter phase, the house underwent alterations to divide it into two separate dwellings. Immediately outside of the south facing front doors but hidden by the yard surface was a flight of stairs descending to a room with a vaulted ceiling, which possibly acted as a storeroom for the mine. The western wall of the basement acted as the partition wall. Further information pending (Hart and Tuck 2011).

CONDITION

CONDITION: Excavated DESCRIPTION: RELATED EVENT: E002283 RECORDED: 0

STATUS None recorded

CROSS REFERENCES - - GGATE002278

SOURCES

Report Hart, R and Tuck, M 2011 Ffos-y-fran Land Reclamation Scheme, Merthyr Tydfil: Post-excavation assessment 3267 2015_02

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07148m>

PRN 07149m **NAME** Tramroad (BYG 5), Cyfartha **NGR** SO0795705900 **COMMUNITY** Town

TYPE POST MEDIEVAL, tramroad, RANK: -

SUMMARY Tramroad to BYG3 and 4, on 1884, removed in 1914 (85683, 85684).

DESCRIPTION**CONDITION**

CONDITION: Not known DESCRIPTION: RELATED EVENT: E002283 RECORDED: 0

STATUS None recorded

CROSS REFERENCES - - GGATE002283

SOURCES**ARCHWILIO URL**

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07149m>

PRN 07992m **NAME** Leat DFD1 at Twynywaun Ponds Merthyr

Tydfil **NGR** SO0860106843 **COMMUNITY** Town

TYPE POST MEDIEVAL, LEAT SYSTEM, RANK: -

SUMMARY Leat at Twynywaun Ponds

DESCRIPTION Leat DFD1 runs south of Leat 88025 and 88015; probably follows the line of the course of a natural stream. A broad flat ditch 5.2m in width and 0.7m deep. A smaller gully from Leat 88026 joins the leat on the west side (Roberts and Lawler 2003)

CONDITION

CONDITION: DAMAGED DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS None recorded

CROSS REFERENCES - - GGATE002278, GGATE004940

SOURCES

Report Roberts R and Lawler M 2003 East Merthyr Reclamation Scheme, Phase 3, Merthyr Tydfil: archaeological field survey 1802205_03

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07992m>

PRN 07993m **NAME** *Leat DFD3 at Twynywaun Ponds Merthyr Tydfil* **NGR** SO0848806438 **COMMUNITY** Town
TYPE POST MEDIEVAL, LEAT SYSTEM, RANK: -
SUMMARY *Leat at Twynywaun Ponds*

DESCRIPTION *Leat DFD3 at Twynywaun Ponds extending southeast from Tips88032; main ditch 0.9m width and 0.45m depth with banks on either side. 2m from the main ditch a second ditch runs parallel on the east/upslope side (Roberts and laler 2003)*

CONDITION

CONDITION: DAMAGED DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - - GGATE004940

SOURCES

Report Roberts R and Lawler M 2003 East Merthyr Reclamation Scheme, Phase 3, Merthyr Tydfil:archaeological field survey 1802205_03

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07993m>

PRN 07994m **NAME** *Area F leats at Soap Vein Pond Merthyr Tydfil* **NGR** SO0854506671 **COMMUNITY** Town
TYPE POST MEDIEVAL, LEAT SYSTEM, RANK: -
SUMMARY *Leats at Soap Vein Pond.*

DESCRIPTION *Leats at Soap Vein Pond. (Area F) in marshy area between Soap Vein Pond and Leat 88029. The leats feed into Leat 85525. Two princioal leats and probably a third on the northwest side of the area (Roberts and Lawler 2003)*

CONDITION

CONDITION: DAMAGED DESCRIPTION: - RELATED EVENT: - RECORDED:

STATUS *None recorded*

CROSS REFERENCES - - GGATE002278, GGATE004940

SOURCES

Report Roberts R and Lawler M 2003 East Merthyr Reclamation Scheme, Phase 3, Merthyr Tydfil:archaeological field survey 1802205_03

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT07994m>

PRN 08164m **NAME** *Timber Aqueduct over former Taff Bargoed Railway, Merthyr Common* **NGR** SO0783406132 **COMMUNITY** Town
TYPE POST MEDIEVAL, AQUEDUCT, RANK: -

SUMMARY *A timber aqueduct at SO07830613, some 32m in length, for the complex system of water supply to Dowlais Ironworks. Built c1876 to cross the Taff Bargoed branch of the joint Rhymney and Great Western Railway. It has Grade II listed building status, reference no. 16143 as it is a rare surviving timber aqueduct from a period when they were very common. (see Cadw: Cof Cymru listed building report 16143)*

DESCRIPTION *A timber aqueduct at SO07830613, some 32m in length, for the complex system of water supply to Dowlais Ironworks. Built c1876 to cross the Taff Bargoed branch of the joint Rhymney and Great Western Railway. The aqueduct has Grade II listed building status, reference no. 16143. Traditional techniques were used in its construction using joists and planks. It has 2 spans across timber trestle piers from masonry and brick abutments. Its plank sides are held together, above and below, by timber cross members and tied vertically by wrought iron rods. This is a rare surviving timber aqueduct and a significant part of Dowlais Ironworks important water power system and is located on the deep railway cutting west of Cwm Bargoed coal preparation plant. These were once very common and a similar collapsed structure remains lies just to the west. (see Cadw: Cof Cymru listed building report 16143)*

CONDITION

CONDITION: NEAR INTACT DESCRIPTION: The 32 m long timber aqueduct is at SO07830613 on the deep railway cutting west of Cwm Bargoed coal preparation plant. It is a rare surviving timber aqueduct and has 2 spans across timber trestle piers from masonry and brick abutments. Its plank sides are held together, above and below, by timber cross members and tied vertically by wrought iron rods. (see Cadw: Cof Cymru listed building report 16143)

RELATED EVENT: - RECORDED: 1995

STATUS *listed building 16143 2*

CROSS REFERENCES *Part of 05066m*

SOURCES

Online Resource Cadw Listed Buildings Description

Online Resource The Handley Partnership HAAbase built heritage assessment system: Buildings at Risk database

ARCHWILIO URL

<https://archwilio.org.uk/arch/query/page.php?watprn=GGAT08164m>

PRN 09401m **NAME** *Railway, Nant Llesg* **NGR** SO0786705470, SO0812305988 **COMMUNITY** *Town*
TYPE *POST MEDIEVAL, RAILWAY, RANK: -*

SUMMARY *A site identified on the first edition Ordnance Survey Map (1880).*

DESCRIPTION *A site identified on the first edition Ordnance Survey Map (1880). On site visit (E006755), it appears to have been buried beneath historic spoil heaps (GGAT2013)*

CONDITION

CONDITION: DAMAGED DESCRIPTION: Railway appears to have been buried beneath historic spoil heaps (GGAT2013). RELATED EVENT: RECORDED: 2013

CONDITION: NOT KNOWN DESCRIPTION: Visible on first edition Ordnance Survey Map (1880) RELATED EVENT: - RECORDED: 1880

STATUS *None recorded*

CROSS REFERENCES - - GGATE006754, GGATE006755

SOURCES

Map Ordnance Survey 1st Edition OS map 6"

Report (digital) Glamorgan Gwent Archaeological Trust (GGAT) 2013 Nant Llesg common land exchange, Merthyr Tydfil and Caerphilly: Desk-based Assessment 4263

ARCHWILIO URL

<http://archwilio.org.uk/arch/query/page.php?watprn=GGAT09401m>

PRN 09407m **NAME** *Quarry, Nant Llesg* **NGR** SO 08257 05138 **COMMUNITY** *Town*
TYPE *POST MEDIEVAL, QUARRY, RANK: 0*

SUMMARY *A site identified on the first edition Ordnance Survey Map (1880).*

DESCRIPTION *A site identified on the first edition Ordnance Survey Map (1880). On site visit (E006755), it appears to have been buried beneath historic spoil heaps (GGAT2013)*

CONDITION

CONDITION: DAMAGED DESCRIPTION: Quarry appears to have been buried beneath historic spoil heaps (GGAT2013). RELATED EVENT: RECORDED: 2013

CONDITION: NOT KNOWN DESCRIPTION: Visible on first edition Ordnance Survey Map (1880) RELATED EVENT: RECORDED: 1880

STATUS *None recorded*

CROSS REFERENCES - - GGATE006754, GGATE006755

SOURCES

Map Ordnance Survey 1st Edition OS map 6"

Report (digital) Glamorgan Gwent Archaeological Trust (GGAT) 2013 Nant Llesg common land exchange, Merthyr Tydfil and Caerphilly: Desk-based Assessment 4263

ARCHWILIO URL

<http://archwilio.org.uk/arch/query/page.php?watprn=GGAT09407m>

PRN 09408m **NAME** *Structure, Nant Llesg* **NGR** SO 08529 05411 **COMMUNITY** *Town*
TYPE *POST MEDIEVAL, STRUCTURE, RANK: -*

SUMMARY *A site identified on the first edition Ordnance Survey Map (1880).*

DESCRIPTION *A site identified on the first edition Ordnance Survey Map (1880). On site visit (E006755), it was noted that the site is now buried beneath modern southern dumping ground spoil heap (GGAT2013)*

CONDITION

CONDITION: DAMAGED DESCRIPTION: Quarry appears to have been buried beneath historic spoil heaps

(GGAT2013). *RELATED EVENT: RECORDED: 2013*

CONDITION: NOT KNOWN DESCRIPTION: Visible on first edition Ordnance Survey Map (1880) RELATED EVENT: RECORDED: 1880

STATUS *None recorded*

CROSS REFERENCES - - GGATE006754, GGATE006755

SOURCES

Map Ordnance Survey 1st Edition OS map 6"

Report (digital) Glamorgan Gwent Archaeological Trust (GGAT) 2013 Nant Llesg common land exchange, Merthyr Tydfil and Caerphilly: Desk-based Assessment 4263

ARCHWILIO URL

<http://archwilio.org.uk/arch/query/page.php?watprn=GGAT09408m>

PRN 11785m **NAME** *Nos 42 and 43 High Street, Aberdare* **NGR** SO 00081 02665, SO 00083 02657 **COMMUNITY** *Aberdare*

TYPE *POST MEDIEVAL, HOUSE, RANK: -*

SUMMARY *Nos. 42 and 43 High Street were built c.1850, appearing on the 1868 Ordnance Survey map. The 3-storey, 5-window building is designed as a unified late-Georgian frontage even though it contains two separate properties. The slate roof with clay ridge tiles has been renewed and the rendered chimney stacks rebuilt in blockwork but they still remain to help define the division between the two properties, 3-bay to No.42 and 2-bay to No.43.*

DESCRIPTION *The Tithe Apportionment of 1846 describes the buildings on this site as 'cottages; under the ownership of George Rowland Morgan, owner of the Gadlys Estate. The map shows the impression of smaller, more architecturally simple, buildings and suggests that the buildings that are now known as Nos 42 and 43 High Street were built after this time. A date around 1850 is likely. The 1868 Ordnance Survey map show Nos 42 and 43 High Street set back as existing. In 1865 No.42 comprised a private house and it can be assumed that No.43 was likewise. Although No. 42 was acquired by the Aberdare Urban District Council in the mid-1960s it is not shown on the 1968-72 map as being a council office. It served as a rates collection office and then in 1974 became the office of the Finance Department of Cynon Valley Borough Council. Significant alterations were then carried out and in 1980s when the roof slates and chimney stacks were replaced. In 1996 it became part of Rhondda Cynon Taf Council and soon after was vacated and has remained empty ever since. In recent years the interior had been largely gutted. The 3-storey, 5-window building is designed as a unified late-Georgian frontage even though it contains two separate properties. The slate roof with clay ridge tiles has been renewed and the rendered chimney stacks rebuilt in blockwork but they still remain to help define the division between the two properties, 3-bay to No.42 and 2-bay to No.43 (Holland 2021).*

CONDITION

CONDITION: DAMAGED DESCRIPTION: Photographs from the site show broken windows. In recent years the interior had been largely gutted. RELATED EVENT: E008375 RECORDED: 2021
CONDITION: DAMAGED DESCRIPTION: Regarding No. 42: Significant alterations were carried out in the 1970s; in in the 1980s the roof slates and chimney stacks were replaced. In 1996 it became part of Rhondda Cynon Taf Council and soon after was vacated and has remained empty ever since. RELATED EVENT: E008375 RECORDED: 1970

STATUS *Listed Building 10852 II, Listed Building 10853 II*

CROSS REFERENCES - - GGATE008375, GGATE008376

SOURCES

Report Holland, E. 2021 Nos 42 and 43 High Street, Aberdare, CF44 7AA: Heritage Impact Statement 5154

ARCHWILIO URL

<http://archwilio.org.uk/arch/query/page.php?watprn=GGAT11785m>

AM - 08.27.24 (12:08) - HTML file produced from Heneb HER, Heneb file number 3285.

Heneb: Glamorgan-Gwent Archaeology, SA12 Business Centre, Seaway Parade Industrial Estate, Baglan, Port Talbot, SA12 7BR tel (01792) 655208 , fax (01792) 474696, email her@ggat.org.uk , website www.ggat.org.uk

Archaeological data, from the Regional Historic Environment Record, supplied by Heneb: Glamorgan-Gwent Archaeology in partnership with Local Authorities, Cadw and the partners of ENDEX GGAT, 2010.



Appendix II: Written Scheme of Investigation

**Written Scheme of Investigation
for an Archaeological Desk-based Assessment
for the
Ffos-y-Fran Final Restoration Strategy**

Project No: 3152

August 2024

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Summary

This Specification details the proposal for an archaeological desk-based assessment associated with the final restoration strategy, proposed for the former open cast mine at Ffos-y-Fran, Merthyr Tydfil CF48 4AE. This Written Scheme of Investigation (WSI) has been prepared by Archaeology Wales for Merthyr (South Wales) Ltd.

1. Introduction

- 1.1.1. This Specification has been prepared by Charley James-Martin MCIfA for Archaeology Wales Ltd (henceforth – AW) at the request of Merthyr (South Wales) Ltd. It provides information on the methodology that will be employed by AW during the Desk-based Assessment (DBA).
- 1.1.2. The purpose of the proposed Desk-Based Assessment is to provide Archaeological Planning Heneb Glamorgan Gwent Archaeology (APHGGA) with the information they are likely to request in respect of the proposed development, the requirements for which are set out in Planning Policy Wales (Ed.12.). The work is to highlight and assess the impact, if any archaeology is on/surrounding the proposed site, and to provide specialist advice upon any potential impact.
- 1.1.3. All work will conform to the Standard and Guidance for Archaeological Desk Based Assessment (CIfA, 2020) and be undertaken by suitably qualified staff to the highest professional standards.

2. Site Description

- 2.1.1. The Ffos-y-Fran site lies approximately 1.5 kilometres east of Merthyr Tydfil town centre. It is an extensive area of former open cast mining operations covering circa 400 hectares, centred on SO 07610 06289.

- 2.1.2. The underlying geology comprises mudstone, siltstone and sandstone of the South Wales Middle Coal Measure Formations of the Carboniferous Period. This is overlain by Devensian Till (BGS 2024), although much of the restoration area has been stripped of its superficial geology during the mining process.

3. Objectives

- 3.1.1. The primary objective of the desk-based assessment will be to assess the potential impact of the proposals on the historic environment by means of a detailed desk-based study and site visit. This will help inform future decision making, design solutions and potential mitigation strategies. The aim will be to make full and effective use of existing information in establishing the archaeological significance of the site, to elucidate the presence or absence of archaeological material, its character, distribution, extent, condition and relative significance.
- 3.1.2. The work will include a comprehensive assessment of regional context within which the archaeological evidence rests and will aim to highlight any relevant research issues within national and regional research frameworks.
- 3.1.3. This desk-based assessment will result in a report that will provide information of sufficient detail to allow informed planning decisions to be made which can safeguard the archaeological resource. The information could then be used to determine further archaeological investigation or appropriate mitigation strategies for any archaeological remains within the area to be implemented prior to or during the proposed development. Preservation *in situ* will be advocated where at all possible, but where engineering or other factors result in loss of archaeological deposits, preservation by record will be recommended.

4. Methodology

4.1. Assessment

4.1.1. The assessment will consider the following:

- a) The nature, extent and degree of survival of archaeological sites, structures, deposits and landscapes within the study area. It will involve the following areas of research:
 - i. Collation and assessment of all relevant information held in the regional HER within the proposed development area.
 - ii. Collation and assessment of the impact on all Designated archaeological sites (Scheduled Monuments, Listed Buildings, Historic Parks & Gardens, landscapes, Conservation Areas) within 3km buffer zone around the proposed development area.
 - iii. Assessment of all available excavation report and archives including unpublished and unprocessed material affecting the site and its setting.
 - iv. Assessment of all extant aerial photographic (AP) evidence. This will include material from the Central Register of Air Photography for Wales, in Cardiff (CRAPW).
 - v. Assessment of relevant archive records held at the County Archives, and as appropriate, site files held by RCAHMW
 - vi. Records held by the developer e.g. bore logs, geological/geomorphological information, aerial photographs, maps, plans.
 - vii. Map regression analysis using all relevant cartographic sources e.g. All editions of the Ordnance Survey County Series, Tithe and early estate maps (as available).
 - viii. Place name evidence.
 - ix. Internet sourced satellite imagery and Lidar imagery as available.

- x. Assessment of the records held at the Portable Antiquities Scheme.
 - xi. Historic documents (e.g. Charters, registers, estate papers).
 - b) The significance of any remains in their context both regionally and nationally and in light of the findings of the desk-based study.
 - c) The history of the site, based on the areas of research outlined above.
 - d) The potential impact of any proposed development on the setting of known sites of archaeological importance (this will constitute a brief assessment, rather than a formal assessment such as that detailed in the Design Manual of Roads and Bridges).
 - e) The potential for further archaeological remains to be present, which have not been identified in pre-existing archaeological records.
 - f) The potential for further work, with recommendations if requested and where appropriate for a suitable investigative and/or mitigation methodology.
- 4.1.2. The site visit will be a visual walked search of the accessible development area. The ground surface will be visually inspected for all earthworks, structures and finds. The location of any environmental archaeological deposits, or areas which may have a potential for such deposits, will also be taken into account along with the visible archaeology.
- 4.1.3. All located sites or finds will be accurately fixed by means of GPS. Each individual find or site location will have an accurate NGR reference attached. Where a close cluster of related features is identified a single NGR for the centre of the cluster will be used, and each constituent feature separately described in the text.
- 4.1.4. Digital photographs, including scales, will be taken using cameras with resolutions of 10 mega pixels or above.

4.2. Report

- 4.2.1. The results will be presented in a report and will be detailed and laid out in such a way that data and supporting text are readily cross-referenced. The report will adhere to the Welsh Archaeological Trust's joint Guidance for the Submission of Data to the Welsh Historic Environment Records (2022). The historical development of the site will be presented in phased maps and plans comprising clearly, the outline of the site.
- 4.2.2. Within the report an attempt will be made to indicate areas of greater or lesser archaeological significance and the sites will be ranked in level of overall archaeological importance (locally, regionally and nationally).
- 4.2.3. All relevant aerial photographs, re-plots and historic maps will be included and be fully referenced.
- 4.2.4. The report will specifically include the following:
 - a location plan
 - all identified sites plotted on an appropriately scaled plan of the proposal site
 - a gazetteer of all located sites
- 4.2.5. Copies of the report will be sent to the client and to the region HER. Digital copies will be provided in pdf format.

4.3. The Site Archive

- 4.3.1. A project archive will be prepared in accordance with the National Monuments Record (Wales) agreed structure and be deposited with the National Monuments Records, held and maintained by the RCAHMW, Aberystwyth, on completion of the report. It will also conform to the guidelines set out in 'The National Standard and Guidance to Best Practice for Collecting and Depositing Archaeological Archives in Wales 2017' (National Panel for Archaeological Archives in Wales 2017).

- 4.3.2. Although there may be a period during which client confidentiality will need to be maintained, the report and the archive will be deposited not later than six months after completion of the work.
- 4.3.3. Other significant digital data generated by the survey (i.e. AP plots, EDM surveys, CAD drawings, GIS maps, etc) will be presented as part of the archive. The format of this presented data will be agreed with the curator in advance of its preparation.

5. Resources & Timetable

5.1. Standards

- 5.1.1. The desk-based assessment will be undertaken by AW staff using current best practice. All work will be undertaken to the standards and guidelines of the CIfA.

5.2. Staff

- 5.2.1. The project will be undertaken by suitably qualified AW staff. Overall management of the project will be undertaken by Charley James-Martin – project manager, AW (MCIfA).

5.3. Timetable of archaeological works

- 5.3.1. The work will be undertaken at the convenience of the client and is likely to commence imminently.

5.4. Insurance

- 5.4.1. AW is fully insured for this type of work and holds Insurance with Aviva Insurance Ltd and Hiscox Insurance Company Limited through Towergate Insurance. Full details of these and other relevant policies can be supplied on request.

5.5. Arbitration

- 5.5.1. Disputes or differences arising in relation to this work shall be referred for a decision in accordance with the Rules of the Chartered Institute of Arbitrators' *Arbitration Scheme for the Institute for Archaeologists* applying at the date of the agreement.

5.6. Health and safety

- 5.6.1. All members of staff will adhere to the requirements of the *Health & Safety at Work Act*, 1974, and the Health and Safety Policy Statement of AW.

6. References

Chartered Institute for Archaeologists, 2020. *Standards and guidance for the creation, compilation, transfer and deposition of archaeological archives.*

Chartered Institute for Archaeologists, 2020. *Standards and guidance for the collection, documentation, conservation and research of archaeological materials.*

Chartered Institute for Archaeologists, 2020. *Standards and guidance for historic environment desk-based assessment.*

National Panel for Archaeological Archives in Wales, 2017. *The National Standard and Guidance to Best Practice for Collecting and Depositing Archaeological Archives in Wales*

Welsh Archaeological Trusts, 2022. *Guidance for the Submission of Data to the Welsh Historic Environment Records (HERs).*

British Geological Survey: Geology of Britain viewer:

<https://geologyviewer.bgs.ac.uk/> (accessed 16/08/2024)





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