



Galileo 03 Limited

Mynydd Ty-talwyn Energy Park – Environmental Statement Volume III

Appendix 5.2: Coal Mining Risk Assessment

Annex B – Consultants Coal Mining Report

Project reference: 663870

ANNEX B

CONSULTANTS COAL MINING REPORT (2023)

NB: The Mining Remediation Authority was formerly known as the Coal Authority).

It should be noted that the Consultants Coal Mining report was obtained in 2023, and was obtained for an area of the Site that was referred to as 'the developable area'. The text of this CMRA report has been updated to reflect features that are within/outside the current Site boundary (as shown on Figure 2), but it should be noted that the boundary displayed in the Consultants Coal Mining report has been superseded by the current boundary. As the 'developable area' boundary is smaller than the current Site boundary, there are some areas of Site that fall outside the boundary of the Consultants Coal Mining report. However, it was possible to augment the information presented within the Consultants Coal Mining report with data from the Mining Remediation Authority website (<https://datamine-cauk.hub.arcgis.com/>), so that information on all relevant features could be reviewed and incorporated where appropriate.



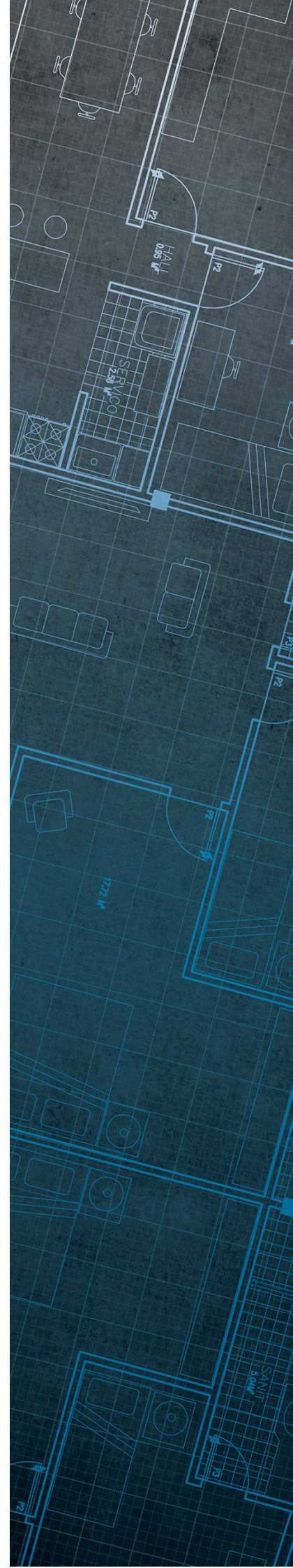
The Coal
Authority

Consultants Coal Mining Report

Mynydd Ty-talwyn Energy Park
Swansea
SA13 2TN

Date of enquiry:	28 June 2023
Date enquiry received:	28 June 2023
Issue date:	28 June 2023

Our reference:	71009601103001
Your reference:	323220



Consultants

Coal Mining Report

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

Client name

RSK Environment Limited

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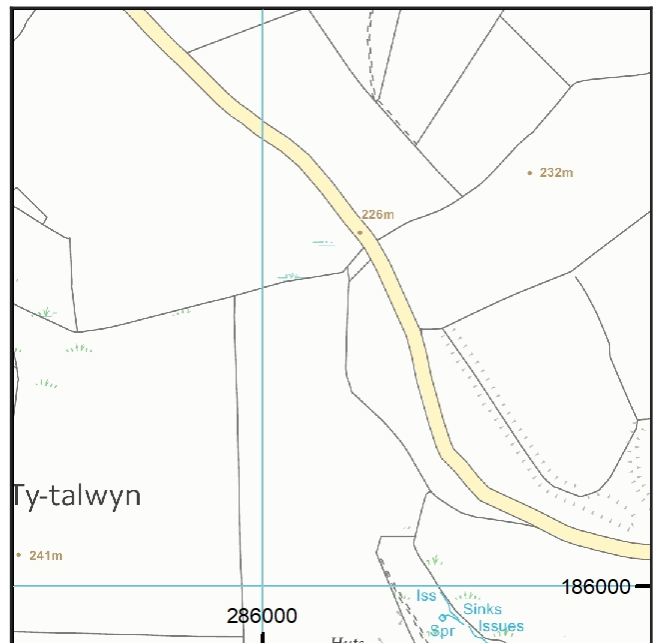
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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	NO.3 RHONDDA	Coal	4EV4	246	Beneath Property	15.7	North-East	150	1921
unnamed	NO.3 RHONDDA	Coal	4EV3	251	Beneath Property	19.3	North	140	1913
unnamed	NO.3 RHONDDA	Coal	4EV5	263	Beneath Property	16.7	North	100	1915
unnamed	NO.3 RHONDDA	Coal	4EJH	299	Beneath Property	17.9	North	80	1908
unnamed	NO.3 RHONDDA	Coal	4EJI	313	Beneath Property	17.1	North	80	1938
unnamed	NO.3 RHONDDA	Coal	4EJL	315	Beneath Property	17.0	North	80	1908
COYTRAHEN PARK	NO.3 RHONDDA	Coal	4E8L	318	East	13.7	North	112	1922
unnamed	NO.3 RHONDDA	Coal	4EJJ	341	Beneath Property	13.7	North	80	1923
unnamed	NO.3 RHONDDA	Coal	4EJC	342	Beneath Property	15.3	North	80	1917
ABERBAIDEN	NO.3 RHONDDA	Coal	4DX1	348	Beneath Property	15.4	North	120	1929
ABERBAIDEN	NO.3 RHONDDA	Coal	4DX4	356	Beneath Property	17.6	North-East	120	1918
TY NEWYDD	NO.3 RHONDDA	Coal	4E8M	370	East	13.4	North	80	1922
unnamed	NO.3 RHONDDA	Coal	4EJK	379	South-West	17.4	North	80	1914
ABERBAIDEN	HAFOD	Coal	4DWZ	383	Beneath Property	17.2	North	116	1955
PENTRE	NO.3 RHONDDA	Coal	4DW4	384	West	16.5	North-East	145	1924
unnamed	HAFOD	Coal	4EUZ	409	Beneath Property	17.4	North	116	1958
unnamed	HAFOD	Coal	4EV0	425	South-West	17.7	North	116	1950
unnamed	NO.3 RHONDDA	Coal	4DX2	440	Beneath Property	17.4	North	120	1929
ABERBAIDEN	HAFOD	Coal	4DW1	460	South-West	17.6	North	116	1952
unnamed	NO.3 RHONDDA	Coal	4EJO	482	Beneath Property	0.0	East	150	1923
ABERBAIDEN	HAFOD	Coal	4DWY	485	South-West	17.4	North	116	1955
unnamed	NO.3 RHONDDA	Coal	4EJW	486	North	16.9	North	91	1925

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	NO.3 RHONDDA	Coal	4EJF	488	Beneath Property	15.3	North	80	1922
unnamed	NO.3 RHONDDA	Coal	4EJT	492	Beneath Property	14.2	North	80	1928
unnamed	NO.3 RHONDDA	Coal	4DX6	495	Beneath Property	9.1	North-East	120	1940
unnamed	NO.3 RHONDDA	Coal	4DW5	544	West	15.6	North-East	139	1931
ABERBAIDEN	NO.3 RHONDDA	Coal	4DY4	559	Beneath Property	8.2	North-East	120	1936
unnamed	NO.3 RHONDDA	Coal	4DW6	560	West	15.5	North-East	130	1931
unnamed	NO.3 RHONDDA	Coal	4EAL	564	West	10.8	North-East	150	1933
ABERBAIDEN	NO.3 RHONDDA	Coal	4DX0	565	Beneath Property	0.0	East	120	1933
unnamed	NO.3 RHONDDA	Coal	4EJP	566	Beneath Property	14.5	North	150	1926
ABERBAIDEN	NO.3 RHONDDA	Coal	4DX3	567	Beneath Property	12.5	North-East	120	1929
unnamed	NO.3 RHONDDA	Coal	4EJS	570	Beneath Property	14.9	North	80	1928
unnamed	NO.3 RHONDDA	Coal	4DY2	580	Beneath Property	12.9	North-East	92	1934
unnamed	NO.3 RHONDDA	Coal	4EJR	580	North-East	12.5	North	90	1927
unnamed	NO.3 RHONDDA	Coal	4DY3	629	North-West	9.3	North	100	1935
unnamed	NO.3 RHONDDA	Coal	4EJQ	629	North	14.6	North	140	1927
unnamed	NO.3 RHONDDA	Coal	4EJM	640	North-East	0.0	East	120	1942
unnamed	NO.3 RHONDDA	Coal	4DX5	640	Beneath Property	10.9	North	120	1940
unnamed	NO.3 RHONDDA	Coal	4EJN	643	North-East	10.8	North	120	1949
unnamed	NO.3 RHONDDA	Coal	4DY5	661	Beneath Property	9.2	North-East	150	1948
ABERBAIDEN	NO.3 RHONDDA	Coal	4E93	685	East	4.3	North-East	167	1947
ABERBAIDEN	NO.3 RHONDDA	Coal	4E94	696	East	3.8	North-East	167	1950
unnamed	NO.3 RHONDDA	Coal	4DY6	730	East	0.0	East	150	1949
unnamed	FIVE FOOT	Coal	4DXS	820	South	20.5	North	233	1899
unnamed	FIVE FOOT	Coal	4EVU	832	South	26.8	North	152	1902
PARK SLIP	FIVE FOOT	Coal	4DXT	837	South	21.7	North	300	1900

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	287185-001	287449 185666		Coal	
Adit	287185-002	287680 185880		Coal	

Abandoned mine plan catalogue numbers

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

SW417	SWA3180	SW6
SW406	SW407	PO0
9862	SWR3874	SWA3181

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

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	92
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	98
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	113
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	116
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	128
BRITHDIR RIDER GROUP	Coal	Yes	11.5	West	129
NO.1 RHONDDA	Coal	Yes	Within	N/A	60
NO.1 RHONDDA	Coal	Yes	Within	N/A	99
NO.1 RHONDDA	Coal	Yes	Within	N/A	210
NO.1 RHONDDA	Coal	Yes	Within	N/A	253
TILLERY BRITHDIR	Coal	No	Within	N/A	66
TILLERY BRITHDIR	Coal	No	Within	N/A	79
TILLERY BRITHDIR	Coal	No	Within	N/A	94
TILLERY BRITHDIR	Coal	No	Within	N/A	108
TILLERY BRITHDIR	Coal	No	Within	N/A	139
TILLERY RIDER NO.2	Coal	Yes	Within	N/A	96
TILLERY RIDER NO.2	Coal	Yes	Within	N/A	111
TILLERY RIDER NO.2	Coal	Yes	Within	N/A	128
TILLERY RIDER NO.2	Coal	Yes	Within	N/A	138
TILLERY RIDER NO.2	Coal	Yes	Within	N/A	260
TILLERY RIDER NO.2	Coal	Yes	Within	N/A	317

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1948.

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

Payments to owners of former copyhold land

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

Section 4 – Further information

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

Future development

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

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

Development advice

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

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

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices

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

Payment to owners of former copyhold land

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

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

