Project Number:	B023905
Project Name	Rhydycar West
Document Name	Mine Entry Summary

1.1 CONTEXT

An outline planning application (application reference P / 23 / 0065) has been submitted for a mixed leisure development on the site known as Rhydycar West (herein referred to as the site).

The following reports have previously been prepared in relation to the potential risks from historical coal mining on the site.

- B023905 – Rhydycar West Phase 1 Geoenvironmental Assessment: Desk Top Study and Coal Mining Risk Assessment. Tetra Tech January 2023.
- Rhydycar West. Environmental Statement, Chapter 7 Ground Conditions. Tetra Tech January 2023.

This note and the accompanying drawing has been prepared in response to an application consultation response received from the Coal Authority (CA) dated 18th April 2023.

The CA response acknowledges the content of the above reports and the recommendations for a phased approach to ground investigation to develop a detailed ground model for the site including the presence of shallow mine workings and mine entries.

The consultation response requested the provision of a drawing outlining the location of the mine entries which are recorded in the vicinity of the proposed development. This drawing is appended to this note with further information provided below.

1.2 SUMMARY INFORMATION

A table summarising the information shown in the attached figure is presented in the following pages. This documents the information provided on the Coal Authority website, including the orientation of adits, assumed diameter of shafts and departure value which represents the degree of confidence associated with the location of the mine entry.

1.3 INFORMATION PRESENTED IN DRAWING

Drawing reference B023905-TTE-00-XX-DR-U-0002-P01 Mine Entries is appended to this document showing the approximate location of the recorded shafts in the context of the proposed development.

The symbol denoting the location of the recorded mine entries considers both the departure value (represented by the inner circle) and an assumed 20m zone of influence from the extent of the departure zone (outer circle).

1.4 CONSTRAINTS AND LIMITATIONS

A default 20m zone of influence has been adopted for all locations (plus variation associated with departure value) to reflect the current level of information for the site. Further assessment will be required to develop a detailed ground model including thickness of superficial and stockpile materials, depth to mine workings and to confirm the location of mine entries within the vicinity of the development boundary.

It is recommended that a phased approach to ground investigation is adopted with geophysical surveys utilised to inform and design intrusive works across the site both to refine the Coal Mining Risk Assessment (CMRA) and aid the design process.

The zone of influence will be reviewed and adjusted as required following the collection of site-specific data and the completion of an updated risk assessment.

The risk assessment process will also consider factors including the hydrology and hydrogeology of the site including current and proposed drainage schemes, overall stability of stockpiles, migration of contaminated groundwater and mine drainage, migration of mine gases and the impact on the proposed development.

The locations of the recorded mine entries are presented based on the available information. The actual location of the mine entries will need to be determined though future ground investigation. The presence of additional, unrecorded, mine entries and shallow mine workings cannot be discounted and will also be considered as part of the recommended phased ground investigation.

This note should not be considered in isolation and the reports listed above should be referred to for a more detailed summary of the current understanding of the site.

1.5 COMMENT

From the information presented in the table below and the attached drawing a number of mine entries and associated zones of influence are noted to be in the vicinity of the proposed development boundary.

Further assessment will be required to confirm the location of these features and determine the depth to bedrock including the thickness and nature of overlying superficial deposits or stockpiled materials, the nature of any shallow mine workings in the vicinity of the site.

The information gained from the intrusive investigations will be used to update the CMRA for the site and provide recommendations for further assessment and / or treatment following consultation with the Coal Authority.

Table 1 – Summary of Information

Tt ref	CA Reference	Name	Type	Bearing of Adit (degrees)	Assumed diameter (m)	Departure (m)	Comment	Further Assessment Required
1	304205-016	William Ellis Level	Adit	239	3.00	5.00	Adit, potentially passing beneath site. Plotting in vicinity of main A470 stockpile.	Yes
2	304205-066	South Wales	Adit	257	3.00	8.00	Adit, potentially passing beneath site. Plotting in vicinity of main A470 stockpile.	Yes
3	304205-079	Mn Davies Level	Adit	205	3.00	8.00	Adit oriented towards development area. To be included in future intrusive works. Zone of influence for opening off site, but route of adit to be considered in future intrusive investigation.	Yes
4	304205-0.26	Lower Colliers Row Pit - Old Coal Shaft	Shaft	-	6.00	5.00	Shaft located close to development boundary, previously treated. Will require investigation to confirm location on site.	Yes
5	304205-025	Upper Colliers Row Pit - Air Shaft	Shaft	-	6.00	5.00	Shaft located off site.	No
6	304205-012	Colliers Row Drift	Adit	210	3.00	5.00	Adit entrance off site but bearing towards development. Route to be considered in future intrusive works. Zone of influence for opening off site.	Yes
7	304205-051	Colliers Row 4ft Level	Adit	233	3.00	8.00	Adit entrance off site but bearing towards development. Route to be considered in future intrusive works. Zone of influence for opening off site.	Yes
8	304204-090	No. 9 Level	Adit	263	3.00	8.00	Adit entrance located close to development boundary, route of adit likely to run parallel to site development boundary. Further investigation required.	Yes
9	304204-0.91	Gunters Level	Adit	270	3.00	8.00	Adit entrance located within development boundary, likely to be oriented to divert away from site. Further investigation required.	Yes
10	304204-004	New Colliers Row Drift	Adit	201	3.00	5.00	Adit entrance located within development boundary and oriented to pass below development area. Further investigation required.	Yes
11	304204-001	Colliers 20 Inch Level	Adit	252	3.00	5.00	Adit entrance located off site and bearing does not indicate that it will pass below proposed development	No
12	304204-080	South Wales	Shaft	-	2.50	8.00	Shaft located off site.	No
13	304204-089	Air Pit	Shaft	-	2.50	8.00	Shaft located on site, to be assessed as part of future intrusive works.	Yes
14	304204-109	Air Pit	Shaft	-	2.50	8.00	Shaft located on site, to be assessed as part of future intrusive works.	Yes
15	304204-110	Old Flue	Shaft	-	2.50	8.00	Shaft located on site, to be assessed as part of future intrusive works. Located in region of coal tips, potentially buried.	Yes
16	304204-055	South Wales	Shaft	-	2.50	8.00	Shaft located on site, to be assessed as part of future intrusive works. Located in region of coal tips, potentially buried.	Yes
17	304204-079	South Wales	Adit	268	3.00	8.00	Adit entrance located on site passing under landscaping bund. Further investigation required. Located in region of coal tips, potentially buried.	Yes
18	304204-052	Wain Level	Adit	266	3.00	8.00	Adit entrance located on site passing under landscaping bund. Further investigation required. Located in region of coal tips, potentially buried.	Yes
19	304204-111	Air Pit	Shaft	-	2.50	8.00	Shaft located on site below landscaping bund. To be assessed as part of future works. Located in region of coal tips, potentially buried.	Yes
20	304204-003	South Wales	Adit	270	3.00	5.00	Adit entrance located on site passing under landscaping bund. Further investigation required. Located in region of coal tips, potentially buried.	Yes
21	304204-088	Air Pit	Shaft	-	2.50	8.00	Shaft located off site.	No
22	304204-087	No 8 Level	Adit	243	3.00	8.00	Adit entrance located within site boundary, orientation indicates adit does not pass below site. Further investigation required to confirm location of entrance.	Yes
23	304204-086	Giles Thomas Level	Adit	296	3.00	8.00	Adit entrance located within site boundary, orientation indicates adit will pass below, likely to be at depth. Further investigation required to confirm location of entrance.	Yes
24	304204-005	South Wales	Adit	282	3.00	5.00	Adit located off site, orientation indicates adit will not pass below site boundary.	No
25	304204-053	Air Shaft	Shaft	-	2.50	10.00	Shaft located off site.	No

Tt ref	CA Reference	Name	Type	Bearing of Adit (degrees)	Assumed diameter (m)	Departure (m)	Comment	Further Assessment Required
26	304204-050	South Wales	Shaft	-	2.50	10.00	Shaft located on site, further investigation required to locate. Located in region of coal tips, potentially buried.	Yes
27	304204-046	Carriage Pit	Shaft	-	2.50	8.00	Shaft located on site, further investigation required to locate. Located in region of coal tips, potentially buried.	Yes
28	304204-112	South Wales	Shaft	-	2.50	10.00	Shaft located on site, further investigation required to locate. Plotting in vicinity of main A470 stockpile.	Yes
29	304204-056	Air Shaft	Shaft	-	2.50	8.00	Shaft located off site.	No
30	304204-085	No 9 Level	Adit	296	3.00	8.00	Adit entrance located within site boundary, orientation indicates adit does not pass below site. Further investigation required to confirm location of entrance.	Yes
31	304204-006	Glyn Dyrys Pit / Griffith Evans Pit	Shaft	-	2.50	5.00	Shaft located on site, previously treated. Will require investigation to confirm location on site. Plotting in vicinity of main A470 stockpile.	Yes
32	304204-078	Jas Williams Level	Adit	243	3.00	8.00	Adit entrance located within site boundary, orientation indicates adit does not pass below site. Further investigation required to confirm location of entrance.	Yes
33	304204-113	South Wales	Shaft	-	2.50	10.00	Shaft located off site	No
34	304204-092	South Wales	Shaft	-	2.50	8.00	Shaft located off site	No
35	304204-114	South Wales	Shaft	-	2.50	10.00	Shaft located off site	No
36	304204-115	South Wales	Shaft	-	2.50	10.00	Shaft located adjacent to site boundary. Further investigation required.	Yes
37	304204-054	Old Pond Level	Adit	276	3.00	8.00	Adit located on site, passing below proposed lodge accommodation. Further assessment required.	Yes
38	304204-024	Pond Pit	Shaft	-	2.50	5.00	Shaft located off site	No
39	304204-047	South Wales	Shaft	-	2.50	8.00	Shaft located off site	No
40	304204-057	No 3 Level	Adit	303	3.00	8.00	Adit located off site, adjacent to site boundary, orientation indicates adit does not pass below site. Further investigation required to confirm location of entrance	Yes
41	304204-058	No 4 Level	Adit	350	3.00	8.00	Adit located on site. Further investigation required.	Yes
42	304204-059	Cwmcannaid Level	Adit	278	3.00	8.00	Adit located on site, orientated to off site, investigation required to confirm location of entrance.	Yes
43	304204-049	South Wales	Shaft	-	2.50	8.00	Shaft located on site	Yes
44	304204-021	Cwm Pit	Shaft	-	2.50	5.00	Shaft located on site.	Yes
45	304205-040	Cwm Pit Upcast (Fan Pit)	Shaft	-	2.50	8.00	Shaft located off site	No
46	304204-108	Air Shaft	Shaft	-	2.50	10.00	Shaft located off site	No
47	304204-020	Cwmfelin Flue Pit	Shaft	-	2.50	5.00	Shaft located off site	No
48	304204-019	Cwmfelin Drift	Adit	278	3.00	5.00	Adit located off site, orientation indicates it will not pass below site	No

DRAWING REFERENCE B023905-TTE-00-XX-DR-U-0002-P01 MINE ENTRIES

N

LEGEND:

- ADIT
- ADIT BEARING
- SHAFT
- TREATED

NOTES:
Inner circle denotes departure showing level of uncertainty
Outer circle denotes 20m zone of influence taken from the edge of the departure value.

Mine entry locations shown on the plan are approximate and will need to be confirmed as part of future investigation including geophysical surveys and intrusive investigation. The mine entry zone of influence has been set at a default 20m radius. The actual zone of influence will need to be determined following the completion of the proposed ground investigation to determine the presence of Made Ground / superficial strata, depth to bedrock and further information relating to the ground model for the site.

Drawing to be used in conjunction with accompanying technical note.

- A Snow Centre
- B Water Park
- C Indoor Activity Centre
- D Hotel Accommodation
- E Hotel Accommodation
- F Hotel Accommodation
- G Lodge Accommodation
- P1 Surface Car Parking Areas
- P2 Multi-storey Parking, Service Areas and Ancillary Usesto Hotel and Leisure uses
- H Outdoor Activity Area
- I Piazza and Landscaped Approach
- J Outdoor Water Park

Rev	Description	Date	Drn / Chk / App
P01	PRELIMINARY FIRST ISSUE	26.07.2023	PP SR CBP

Document Control

Issuing Office

Tetra Tech Cardiff

5th Floor, Longcross Court,
47 Newport Road, Cardiff,
United Kingdom, CF24 0AD
Tel: +44 (0)29 2082 9200
www.tetratecheurope.com

TETRA TECH

Client

MARVEL

Project Name

RHYDYCAR WEST

Sheet Title

MINE ENTRIES

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A1	Suitability
B023905	PP	26.07.23	SR	26.07.23	CBP	26.07.23	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
B023905 - TTE - 00 - XX - DR - U - 0002							P01

© Copyright Tetra Tech

TTE_MT_v1

0 20 40 60 80 100 m
SCALE 1:2000