

Coal Mining Risk Assessment

**DEWSBURY MOOR ARLFC CLUB HOUSE
HECKMONDWIKE ROAD, DEWSBURY**

for

Dewsbury Moor ARLFC

Report Number 3637

June 2016

Michael D Joyce Associates LLP
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Contents

- 1.** Introduction
- 2.** The Property
- 3.** Geology and Mining
- 4.** Conclusions and Recommendations

Figures

- Figure 1 Site Location and Proposals

Appendices

- Appendix 1 Coal Authority Mining Report

1 INTRODUCTION

1.1 At the request J A Oldroyd and Sons Ltd, acting on behalf of Dewsbury Moor ARLFC, a Coal Mining Risk Assessment has been carried out for an extension to the existing clubhouse located on Heckmondwike Road in Dewsbury.

1.2 The assessment has not included other desk study research and no structural or asbestos surveys have been carried out.

2 THE PROPERTY

2.1 The extension is to the clubhouse of Dewsbury Moor ARLFC, located on the southwest side of Heckmondwike Road in Dewsbury Moor. Access is off Cornfield. The Ordnance Survey Grid Reference is SE 226 222. It lies approximately 2 km of the centre of Dewsbury, and is at approximately 70 mAOD. Figure 1 shows the site location and development proposals. A site inspection has not been carried out as part of this study.

3 GEOLOGY AND MINING

3.1 Geology

3.1.1 Maps of the British Geological Survey (BGS), in particular 1:10,560 sheets 232SE and 232SW, and 1:50,000 sheet 77 show the site to be underlain by the Carboniferous Middle Coal Measures, comprising mudstones, siltstones, shales and sandstones. There are no drift deposits shown to affect the site.

3.1.2 There is a northwest-southeast trending fault believed to pass just to the northeast side of Heckmondwike Road, close to the extension development. It downthrows to the southwest. The proposed extension therefore lies to the southwest side of the fault.

3.2 Mining

3.2.1 The 6" to 1 mile geological sheet 232SW shows a fault and the conjectured outcrop of the Wheatley Lime Coal to lie in a roughly northwest-southeast direction through the development. It is recorded as conjectured, which means the actual position is uncertain. The Lime Coal has been worked in the general area but was usually of poor quality coal.

3.2.2 The latest geological map however shows a fault to lie to the opposite side of Heckmondwike Road and the Middleton Main Coal seam to outcrop approximately beneath the development area. This seam was worked extensively. It is typically 0.6m thick and lies approximately 31m above the Wheatley Lime Coal.

- 3.2.3 At the former Waterloo Colliery at Dewsbury Moor, the Wheatley Lime Coal is recorded as being 0.4m thick. The Middleton Eleven Yards Coal lies 9m below this. It is 0.6m thick. The Blocking Bed Coal lies a further 22m below the Middleton Eleven Yards, and this seam is also recorded as being 0.6m thick.
- 3.2.4 A mining report has been obtained from the Coal Authority, and is reproduced in full in Appendix 1. It states that there has been recorded mining beneath the site in 3 seams of coal at shallow to 120m depth, with the last known workings in 1905. Shallow depth refers to any seam within 30m of the surface. This may refer to the Lime Coal, but is more likely to be the Middleton Main Coal.
- 3.2.5 There are no known coal mining entries within, or within 20m of the development. However this does not preclude the presence of unrecorded shafts or adits.
- 3.2.6 There are no recorded past, present or future opencasts in the immediate vicinity of the site.

4 CONCLUSIONS AND RECOMMENDATIONS

- 4.1 There are possibly two or three seams within 30m of the surface which may have been worked. However the Middleton Main is likely to be the shallowest and the seam referred to in the mining report.
- 4.2 In the first instance, it is recommended that two or three rotary openhole boreholes are sunk to determine whether there are any shallow mineworkings, and whether they are sufficiently shallow that they could affect surface stability. It is a requirement to obtain a licence from the Coal Authority before such work is carried out.
- 4.3 It is recommended that full time supervision and logging of the drilling is carried out by a Chartered Geologist or a Fellow of the Geological Society.
- 4.4 Once this information is known, the risk to the extension can be properly assessed. It may be that grouting is necessary to stabilise any shallow workings. In addition there is a fault close to the development area. The exact position of the fault is not known and it is assumed that there is no structural damage to the existing building. As a precaution, it is recommended that the extension is constructed on a raft or with light reinforcement to any strip footings.

A handwritten signature in black ink, appearing to read 'A D Joyce', with a long horizontal flourish extending to the right.

A D Joyce

BSc MSc ARSM CEng CGeol CEnv MICE FGS SiLC

June 2016

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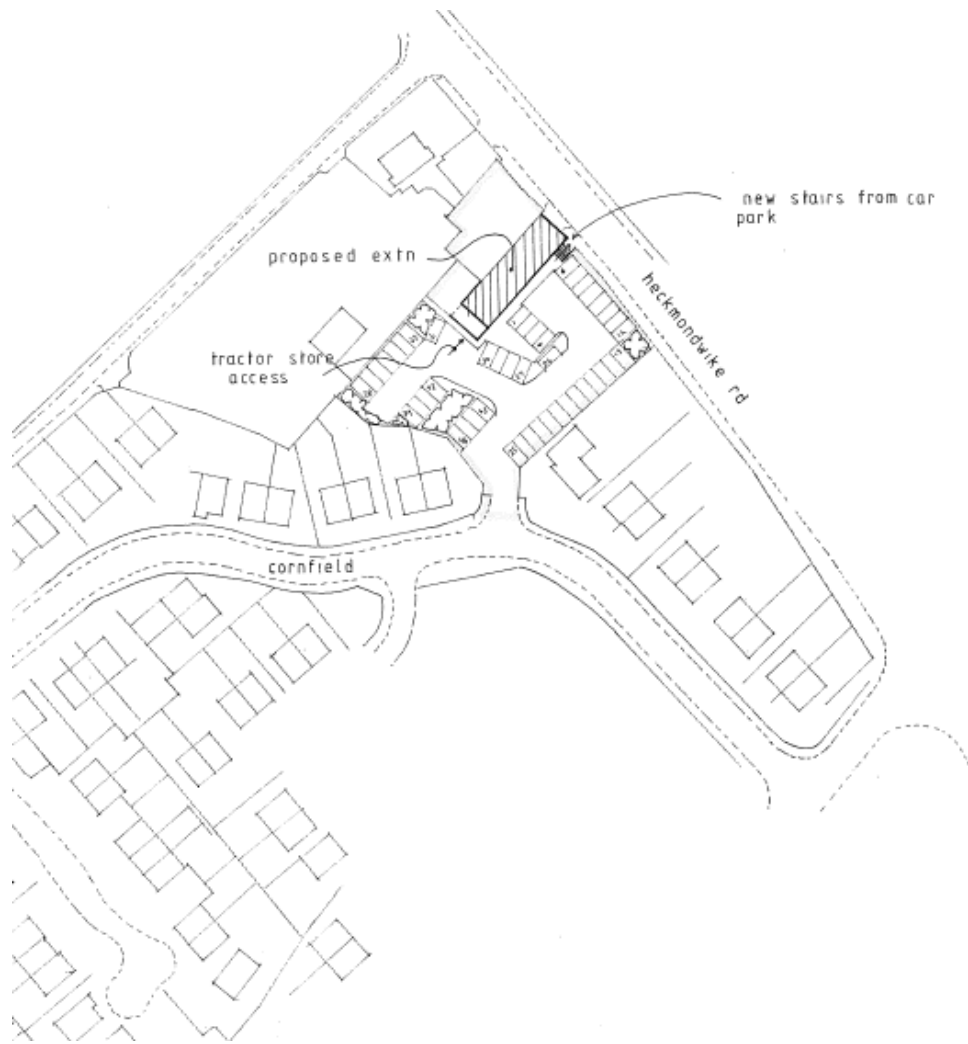
Procedure Notes

The risk assessment has been carried out in accordance with the principles of BS EN 1997-1: 2004 “Eurocode 7 - Geotechnical Design - Part 1: General Rules”, BS EN 1997-2: 2007 “Eurocode 7 - Geotechnical Design - Part 2: Ground Investigation and Testing”, BS5930: 1999 and BS10175: 2001, and the terms of the client’s brief.

Further investigation can be carried out to further reduce uncertainty and risk but ultimately these risks cannot be eliminated. Similarly a desk study normally only considers readily available information and further information could be held by other sources. In commissioning further research or investigation the cost/benefit of doing so must be considered.

Where buildings are present on a site, structural and asbestos surveys have not been carried out, unless specifically stated. An unexploded ordnance survey has not been carried out. In relevant situations it would be prudent to commission such surveys.

Where information has been obtained from Third Parties, no liability can be accepted for the accuracy or completeness of this information, where anecdotal evidence or speculation are presented, they must be treated as such and cannot be relied upon.



Dewsbury Moor ARLFC, Heckmondwike Road, Dewsbury
 Site Plan and Development Proposals

Michael D Joyce Associates LLP
 Geotechnical and Geoenvironmental Consultants

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Scale: NTS

Figure: 1

Appendix 1

Coal Authority Mining Report



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

422600, 422230
WEST YORKSHIRE

Date of enquiry: 15 June 2016
Date enquiry received: 15 June 2016
Issue date: 15 June 2016

Our reference: 51001192993001
Your reference: HMD-354-3066448



CON29M Non-Residential Mining Report

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

Client name

GROUNDSURE LIMITED

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+44 (0)1623 637 000 (International)

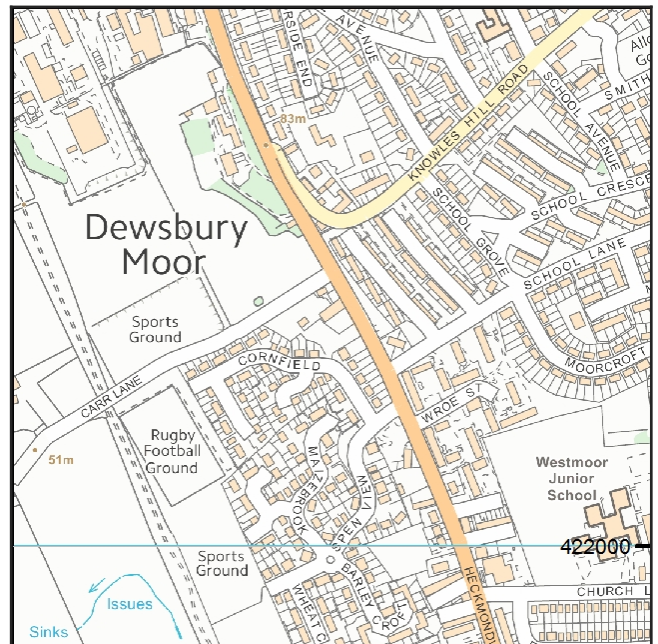
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Approximate position of property



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Summary

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

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 3 seams of coal at shallow to 220m depth, and last worked in 1905.

2. Present underground coal mining

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

3. Future underground coal mining

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

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

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

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

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

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

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

5. Coal mining geology

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

6. Past opencast coal mining

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

7. Present opencast coal mining

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

8. Future opencast coal mining

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

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

9. Coal mining subsidence

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

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

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

10. Mine gas

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

11. Hazards related to coal mining

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

12. Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

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

13. Working facilities order

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

14. Payments to owners of former copyhold land

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

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

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

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

Additional remarks

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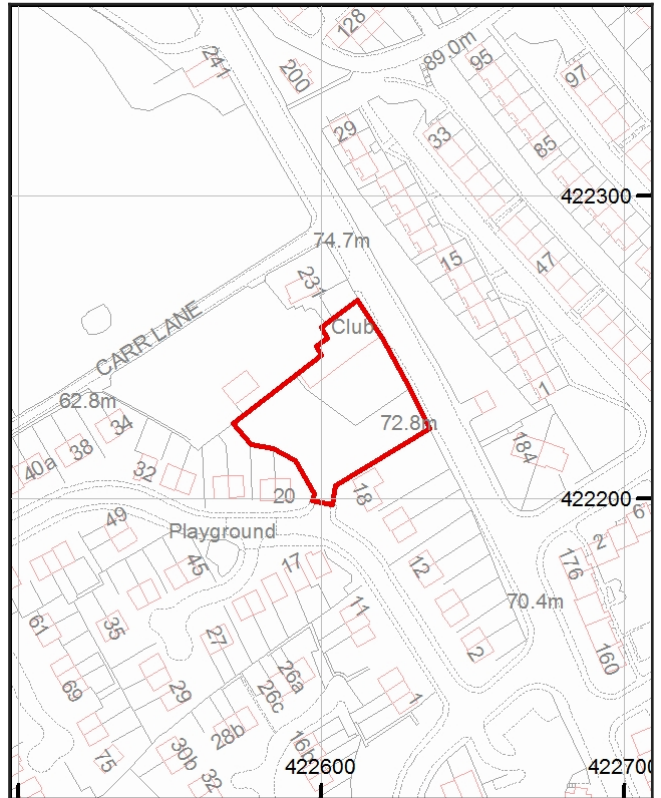
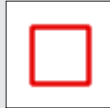
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Enquiry boundary

Key

Approximate position of enquiry boundary shown



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