

COAL MINING RISK ASSESSMENT

806-810 Manchester Road

Castleton

Rochdale

OL11 3AW

Author: Daniel Slattery
Client: Mr Jamil Akhtar
Reference: rep-tjba-akhtar-806-810 *manchester rd-CMRA-210922.docx*

Revision	Date	Reason
0	Sept 2022	Original

T J Booth Associates.
20A Eastgate St,
Rochdale,
Lancs,
OL16 1DH.
Tel: 01706 868288.
Email: office@tjba.co.uk

COAL MINING RISK ASSESSMENT

806-810 Manchester Road

Castleton

Rochdale

OL11 3AW

CONTENTS:

1.	Introduction.	3
2.	Historic Maps.....	3
3.	BGS Geology.	3
4.	BGS Borehole Records.....	3
5.	Coal Authority.....	3
6.	Site Stratigraphy.	4
7.	Identification of Site Specific Risks.....	4
8.	Mitigation Strategy.....	4
9.	Conclusions & Recommendations.	4
10.	References.....	6
11.	Appendix.....	7

1. INTRODUCTION.

T. J. Booth Associates have been appointed by Mr Jamil Akhtar to undertake a Coal Mining Risk Assessment (CMRA) to Land at 806-810 Manchester Road, Castleton.

The Application Site was formerly a commercial terraced building that was demolished c2010. The Site is now the space between the remaining terraces.

A planning application for development has been submitted to Rochdale MBC for the erection of a building to be used for 10No. residential flats. Prior to the Application being validated, the LPA have requested a Coal Mining risk Assessment.

The purpose of the report is to assess for the potential coal mining legacy local to a proposed residential development and put forward recommendations based on current best practice for approval by the LPA/Coal Authority.

2. HISTORIC MAPS.

DATE	ON-SITE	OFF-SITE/SURROUNDING AREA
c1850	The Site is part of agricultural land. No coal mining features on Site.	What is now Manchester Road exists to the front of the Site as in the present day. No coal mining feature in the local or wider area.
c1910-1950	Site is now developed with terraced buildings. No coal features on Site.	Wider area is now predominantly urban with commercial and residential development. No coal mining features in the local or wider area.

3. BGS GEOLOGY.

Superficial Geology:	The area local to the Site is underlain by glaciofluvial sand & gravel for much of the local and wider area.
Bedrock Geology:	The Site and local area is underlain by Westphalian Pennine Lower Coal Measures. Local geology dips nominally 5-10 degrees southwest.
Coal Seams/Faults.	The Arley coal seam subcrops beneath the west corner of the Site, dipping southwest.

4. BGS BOREHOLE RECORDS.

The closest boreholes in the area are approximately 180-300m distant.

However, all BHs are approximately 10-20m and record superficial deposits only, apart from one BH 300m southeast, which is approximately 150m deep and recorded superficial geology to approximately 81m.

Other BHs to the south suggest similar depth of superficial deposits.

5. COAL AUTHORITY.

Mine Shafts, Pits, Adits/Entries:	None recorded within 100m of the Site boundary.
Coal Seams:	The report indicated the Arley coal seam underlies the Site.
Past Recorded Underground Mining.	No past mining recorded beneath the Site.
Unrecorded Probable/Potential Shallow Underground Workings:	No probable unrecorded shallow mining beneath the Site.
Spine Roadways.	No spine roadways recorded at shallow depth.

Past/Present Mining/Opencast:	Surface	None recorded within 500m of the Site.
Mining Geology and Subsidence:		No issues noted locally.
Hazards and Mine Gas:		None recorded within 500m of the Site.
Future Underground Mining:		None recorded.

6. SITE STRATIGRAPHY.

Given the dataset encountered in the local area, the geology beneath the Site is estimated as follows:

0-81m Superficial deposits

81-82m Arley coal seam

82-??m Coal Measures

7. IDENTIFICATION OF SITE SPECIFIC RISKS.

Recorded Workings:		There are no recorded workings noted beneath the Site, and therefore the risk from recorded workings is low.
Probable/Potential Workings:	Shallow	The Consultants Coal Mining Report suggests there is no risk from potential shallow workings beneath the Site. This is corroborated by the BGS boreholes data which identified deep superficial deposits up to c80m in the local area. Due to these factors, and that there are no shallow seams beneath the Site, there is not considered to be a risk.
Opencast Workings:		There are no opencast workings in the local area and therefore there is no risk.
Coal Pits/Shfts/Adits:		No pits/shfts/adits noted in the local area, and therefore there is no risk.
Mine Gas or subsidence:		No evidence of local events, and therefore the risk is low.

8. MITIGATION STRATEGY

Given all risks to the Site are considered to be low or absent, no mitigation is required.

9. CONCLUSIONS & RECOMMENDATIONS.

Records indicate that the risk from coal mining legacy in the local area and to the Site are minimal.

Due to the limited amount of risk, no investigations are proposed or required.

This report should be submitted to the Coal Authority as part of planning consultations.

Signed.....  .

D.S. Slattery BSc (Hons).

T J Booth Associates.

Authorised...  .

T J Booth BSc (Hons), C. Eng. C. Env.

T J Booth Associates.

10. REFERENCES.

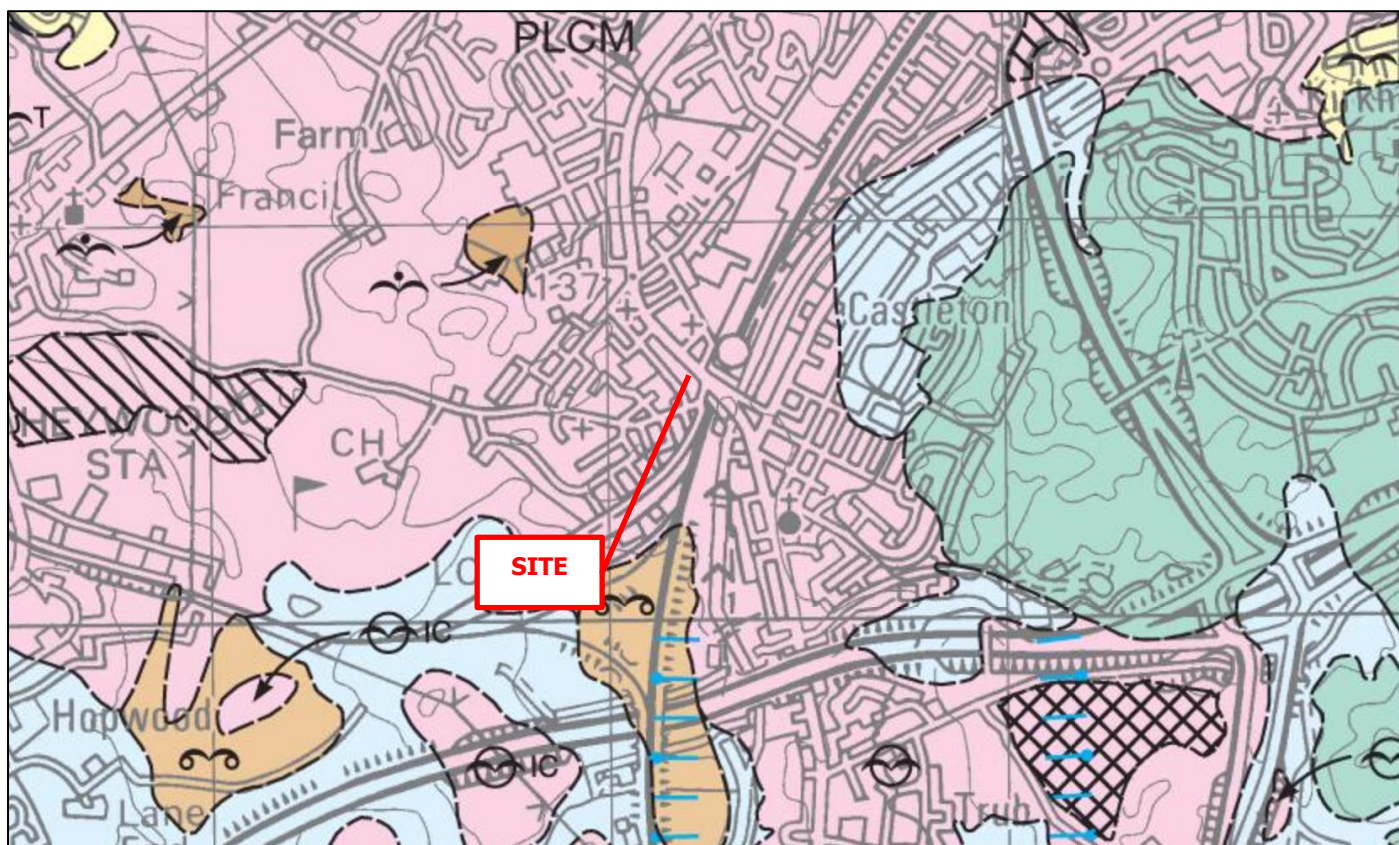
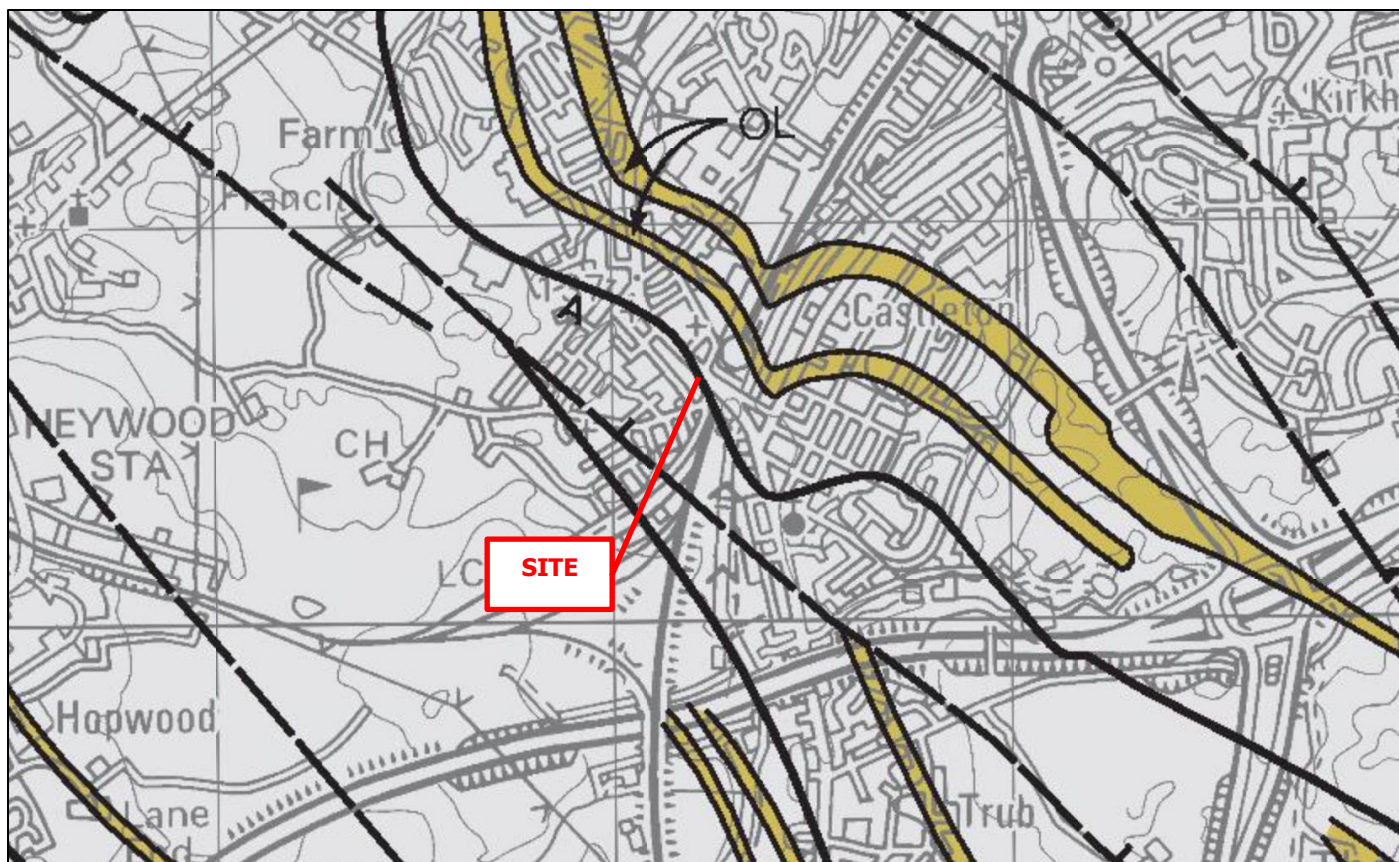
- CIRIA. Report C758.
- CIRIA. Report SP32.

11. APPENDIX.

11.1. Location Plan/Proposed Site Plan.



11.2. Solid & Drift Geology.



11.3. Coal Authority Consultants Report.

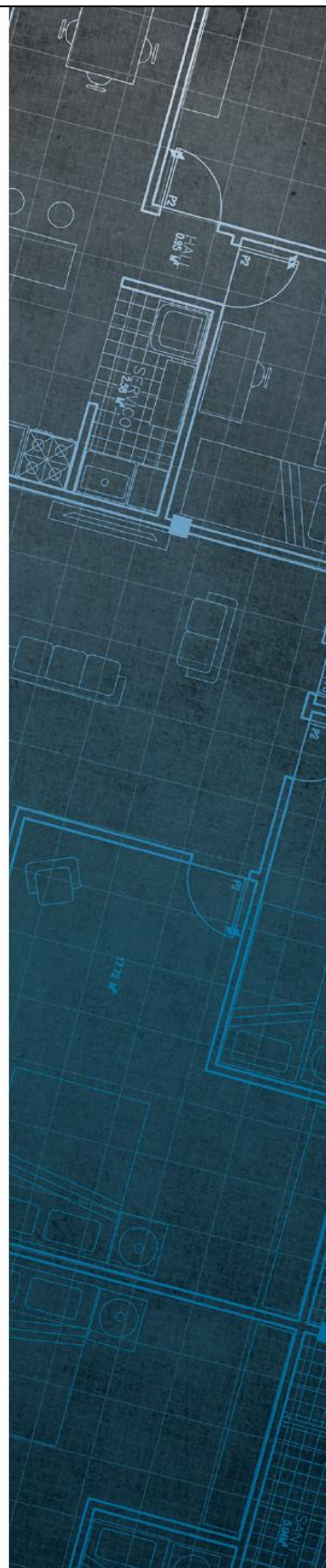


The Coal
Authority

Consultants Coal Mining Report

Manchester Road
Castleton
Rochdale
Greater Manchester
OL11 3AW

Date of enquiry: 21 September 2022
Date enquiry received: 21 September 2022



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

T J Booth Associates

Enquiry address

Manchester Road
Castleton
Rochdale
Greater Manchester
OL11 3AW

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

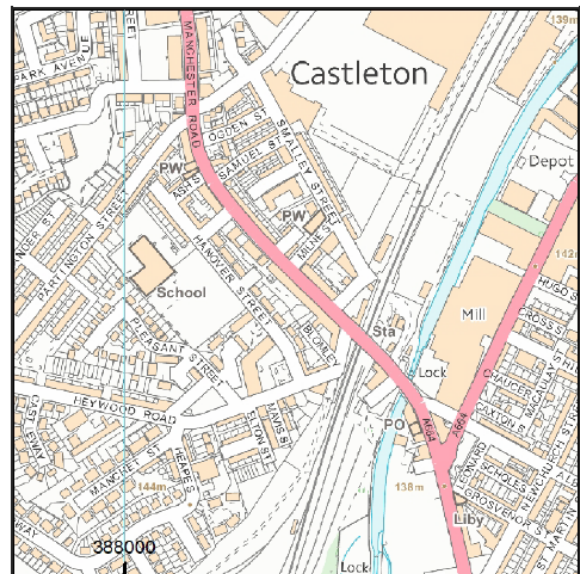
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



Reproduced by permission of
Ordnance Survey on behalf of
HMSO. © Crown copyright and
database right 2018. All rights
reserved.

Ordnance Survey Licence number: 100020315

Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

16820		
-------	--	--

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
ARLEY	Coal	Yes	Within	N/A	335

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded 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 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.

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

Based on the responses in this report, no further information has been highlighted.

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.

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.

11.4. Coal Authority Consultants Report Plan.

