Environmental
Geotechnical
Specialists

GEOTECHNICAL ENVIRONMENTAL

COAL RISK ASSESSMENT

job number	date
C2205/21/E/3386	18.11.21

site address
Land adjacent to 41 Ashbrow Road
Fartown,
Huddersfield
HD2 1DX

written by	checked by
C. Mason	R. A. Palmer

issued by
C. Mason

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Environmental Geotechnical Specialists

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Environmental Geotechnical Specialists

Report on a Coal Mining Risk Assessment

Location:	Land adjacent to 41 Ashbrow Road Fartown, Huddersfield HD2 1DX
For:	Northlight Architecture Ltd
Report No.	C2205/21/E/3386 Report date: November 2021

For and on behalf of **Rogers Geotechnical Services Ltd**

Charlotte Mason BSc FGS
Geo-environmental Engineer

Rob Palmer MSc FGS ACIEH
Senior Geo-environmental Engineer

1. Introduction

It is understood that as part of the planning application at the site, a Coal Mining Risk Assessment has been requested by the planning authority. Consequently, a desktop study was commissioned in order to assess the risk to the development from coal mining. This report presents the findings of the study.

2. Geological Desk Study

The geological desk study has been undertaken using the following sources of information.

- British Geological Survey map sheet[1].
- British Geological Survey *Geology of Britain Viewer*[2].
- Coal Authority Consultants Coal Mining Report[3].
- British Geological Survey *Borehole Records*[4].

2.1 British Geological Survey Maps and Viewer

The appropriate map sheet for the site and the geology viewer has been examined and has identified the site is located upon a north-east trending fault, which is downthrown to the south-east. As a result, the geology beneath the northern and southern sections of the site may vary. It should be appreciated that there is also an east to west trending fault present immediately south of the site.

[1] Sources: British Geological Survey (NERC) Map Sheet 77; Huddersfield Solid and Drift Editions
[2] Sources: British Geological Survey (NERC) Geology of Britain Viewer [*online resource from www.bgs.ac.uk*]
[3] Coal Authority Reference: 51002715055001 dated 10th November 2021
[4] Sources: British Geological Survey (NERC) Borehole Records [*online resource from* http://www.bgs.ac.uk//]

However, this fault is not anticipated to affect the proposed development. The following table presents the indicated geology:

Table 1: Geological Data for the Site

Strata Type	Strata Name[5]	Location	Description[6]
Superficial Geology	None recorded	-	-
Solid Geology	Undifferentiated Pennine Lower Coal Measures Formation	South east of the fault	Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.
	Elland Flags	North west of the fault	The Elland Flags consist of fine- to medium-grained flaggy to thickly bedded micaceous sandstone. The unit occurs as a number of sandstone leaves that are interbedded with dark micaceous and carbonaceous mudstone, locally containing thin dirty coals.

It should be appreciated that due to the complex nature of the faulting within the area surrounding the site, it is unclear of the exact stratigraphical position of the undifferentiated Coal Measures within the south-eastern section of the site. However, based on the outcrop patterns located to the north east (within the fault block), it is plausible that these units are younger than the Elland Flags.

There are no dip indicators relevant to the site (i.e. within 500m of the site or within the same fault block) on the geological map. However, taking into account the structure of the regional geology and outcrop patterns, it can be anticipated that the solid geology within the local area dips at shallow angles towards the east.

Due to the nature of the complex faulting within the local area there are no outcrops of coal recorded within the vicinity of the site. As such, consideration has been directed to the generalised vertical section presented on the geological map. A summary of this data is presented below:

Table 2: Summary of Coal Seams Present in the Stratum Profile Beneath the Site

Seam Name	Seam thickness[5]*	Depth within profile*	Comments
80 Yard Coal (80Y)	0 – 0.8m	At depths as shallow as 12m beneath the site	Seam discontinuous in nature.
48 Yard Coal	0 – 0.3m	In excess of 40m below ground level	Seam discontinuous in nature.
36 Yard Coal	0 – 0.5m	In excess of 60m below ground level	Seam continuous in nature, however, present at significant depths beneath the site.

*All distances are given as approximations only. It should be noted that coal seam thicknesses vary over relatively short distances

In light of the above, and taking into account the regional structural geology and the topography of the area, it is possible that the 80 Yard Coal could be present at shallow depths beneath the site. However, the above calculations are made assuming 'worst case' conditions (i.e. the Elland Flags is of 0m thickness beneath the site). In reality, it is likely that this seam would be deeper than calculated, especially within the south-east of the site. In addition, as this seam is known to be

[5] Sources: British Geological Survey (NERC) Map Sheets 77: Huddersfield; Solid and Drift Edition, and Geology of Britain Viewer [*online resource from www.bgs.ac.uk*]
[6] Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [*online resource from www.bgs.ac.uk*]

discontinuous in nature, it is unclear from the available data whether this seam will be present within the stratum profile beneath the site.

2.2 Coal Authority Mines Report

As part of this study a Coal Authority Consultants Coal Mining Report has been obtained. The report is presented as Appendix 2 and for the purposes of discussion has been summarised below:

Table 3: Summary of the Consultant's Coal Mining Report

Has the report highlighted evidence or potential of:			
Ref	**Mining Feature**	**Yes/No**	**Comments**
1	Underground Coal Mining	No	No past mining recorded
2	Probable Unrecorded Shallow Workings	Yes	-
3	Spine Roadways at Shallow Depth	No	No spine roadway recorded at shallow depth.
4	Mine Entries	No	None recorded within 100m of the enquiry boundary.
5	Abandoned mine plans	Yes	Plans of abandoned mine workings below the site are suggested to be available by the Coal Authority.
6	Outcrops	Yes	The Black Bed coal seam is shown to outcrop within the site boundary.
7	Geological Faults	Yes	A geological fault is shown to bisect the site.
8	Opencast Mines	No	None recorded within 500 metres of the enquiry boundary.
9	Coal Authority Managed Tips	No	None recorded within 500 metres of the enquiry boundary.
10	Site Investigations	No	None recorded within 50 metres of the enquiry boundary
11	Remediated Sites	No	None recorded within 50 metres of the enquiry boundary.
12	Coal Mining Subsidence	No	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 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.
13	Mine Gas	No	None recorded within 500 metres of the enquiry boundary.
14	Mine Water Treatment Schemes	No	None recorded within 500 metres of the enquiry boundary.
15	Future underground mining	No	For further information please see section 3 of the Consultant's Coal Mining Report (ref 51002715055001).
16	Coal mining licensing	No	
17	Court orders	No	
18	Section 46 notices	No	
19	Withdrawal of support notices	No	
20	Payments to owners of former copyhold land	No	

It should be noted that there are some significant differences between the map within the Coal Mining Consultants Report, which is believed to be based upon 1978 data, and the contemporary 2003 BGS map sheet (77; Huddersfield). In this regard, the Coal Mining Consultants Report indicates that the Black Bed Seam outcrops on site, and is 'proven'. However, the 2003 BGS shows no coal seam outcrops, possibly due to the presence of a significant amount of faulting. Typically, underground mining within complex zones of faulting is uncommon due to the offsets caused by the faults.

2.3 Geological Survey Borehole Records

The British Geological Survey (NERC) keeps borehole records from across Britain which are available for public viewing through their website[7]. As part of this study, the records in the area around the site have been reviewed in order to assist in establishing the geological conditions.

Unfortunately in this instance, there are no borehole scans available within the vicinity of the site that will assist with this assessment. Whilst there are borehole scans present within 500m to the north, south and east of the site, these boreholes are situated within other faulted blocks. As such, the ground conditions encountered are not anticipated to represent comparable ground conditions to those anticipated to be present below the site.

3. Risk Assessment

The risk to the stability of the proposed residential development has been evaluated from the data obtained and with reference to the following ratings and definitions:

Low - The possibility of instability is unlikely therefore no further action is necessary.

Moderate - The possibility of instability is likely and further investigation or remedial action may be required.

High - The possibility of instability is highly likely and further investigation or remedial action will be necessary.

Table 4: Development Specific Risk Assessment

Item	Risk of Instability	Coal Seam(s) Considered	Risk Rating
1	Shallow coal seams	80 Yard Coal (80Y)	Low
2	Coal workings at depth	The property is not in an area affected by coal workings at depth.	Low

On the basis of all of the information provided above, there is some potential for 80 Yard Coal Seam to be present beneath the site at shallow depths. The following discussion has been prepared with 'worst case' site conditions in mind.

It may be noted that guidance available from both the NHBC and the CIRIA publication, SP32 - *construction over abandoned mine workings,* suggests that competent overburden thickness above a coal seam should be greater than 10 times the thickness of a seam plus seam thickness in order that the collapse of workings would pose a low risk to surface structures.

On this basis, assuming a maximum thickness of the coal seams, the table below suggests the thickness of competent overburden required above each seam to mitigate instability at the surface.

Table 5: Required Thickness of Competent Overburden

Seam Name	Seam thickness	Anticipated depth below site	Required thickness of competent overburden.
80 Yard Coal (80Y)	0 – 0.8m	At depths as shallow as 12m beneath the site	8.80m

Based on the above information, it is considered that there is likely to be a sufficient thickness of competent overburden above the 80 Yard Coal in order to prevent the risk of instability posed by the presence of any illicit workings. Therefore, a low risk rating has been assigned to this seam, and no further action is required.

As mentioned above in section 2.2, there appear to be differences between the Coal Authority data and most recent published geological maps. Given that the Coal Authority records appear to match older geological maps, greater credence is given to the most recent published geological data and, as such, it is not anticipated that the Black Bed Coal seam would be present at the near surface. Typically, underground mining within complex zones of faulting is uncommon due to the offsets caused by the faults. Furthermore, due to the shallow nature of the seam, it is unlikely that this seam would have been removed via underground mining methods. Nonetheless, as with any development, should evidence of mining be discovered during the groundworks phase, then works should stop immediately and a suitably qualified engineer should be contacted to hold discussions with the Coal Authority

In regard to deeper mining which could affect the site, the property is not within a surface area that could be affected by past underground mining.

4. Conclusions

In light of the potential risks of instability at the site from the working of shallow coal, it is recommended that that careful inspections take place during the development. Should any evidence for day-holes, bell pits or open-cast workings become apparent, works should be halted and the advice of geotechnical specialists sought.

It is of note that Rogers Geotechnical Services would be happy to assist in any further intrusive investigation that may be required.

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Appendix 1

Site Plans

NOTES:
1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE M
3. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

LEGEND

SITE BOUNDARY

PDAP Ashbrow - AL01 - Proposed Site Plan_m

Google - Satellite

FOR INFORMATION

Land Adjacent To 41 Ashbrow Road, Fartown Huddersfield, Kirklees, HD2 1DX

GEOLOGICAL PLAN

Environmental Geotechnical Specialists
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JOB NUMBER: C2205/21/E

DATE: 12.11.21

REVISION: 01

NOTES:
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Huddersfield, Kirklees, HD2 1DX

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Email enquiries@rogersgeotech.co.uk
www.rogersgeotech.co.uk

JOB NUMBER: C2205/21/E

DATE: 12.11.21

REVISION: 01

ASHBROW ROAD

BEECH TREE COURT

EXISTING RETREAT

STAFF PARKING

5 No 3 BED HOUSING UNITS + GARAGES

bin collection point

RETREAT/ ADMIN BUILDING
554sqm/ 5963sqft OVER 2 STOREYS

Existing boudary wall rebuilt max height 900mm

Existing boudary wall rebuilt to form site access

G1 G1a G2 G3 G3a G4 G4a G5 G5a G16 G17 G18 T7 T8 T9 T10

1 2 3 4 5

1 SITE PLAN AS PROPOSED
SCALE 1:200

Revisions

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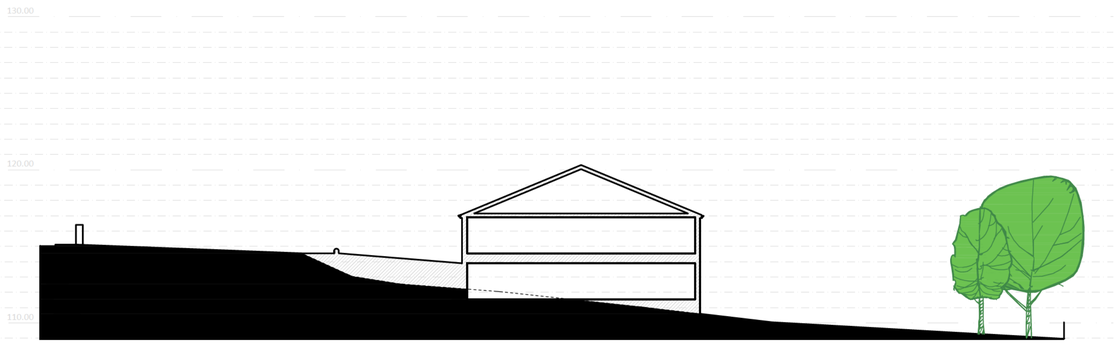
Client
Pennine Domestic Abuse Partnership

Project
Retreat/ Housing at
Ashbrow Road, Huddersfield

Drawing title
Proposed Site Plan

PLANNING APPLICATION

Scale @ A1	Drawn by
1:200	CG
Date	App'd
October '21	-
Drawing no	Rev
21-1151/(SK)01	-



1 SITE SECTION A-A
SCALE 1:200

2 SITE SECTION B-B
SCALE 1:200

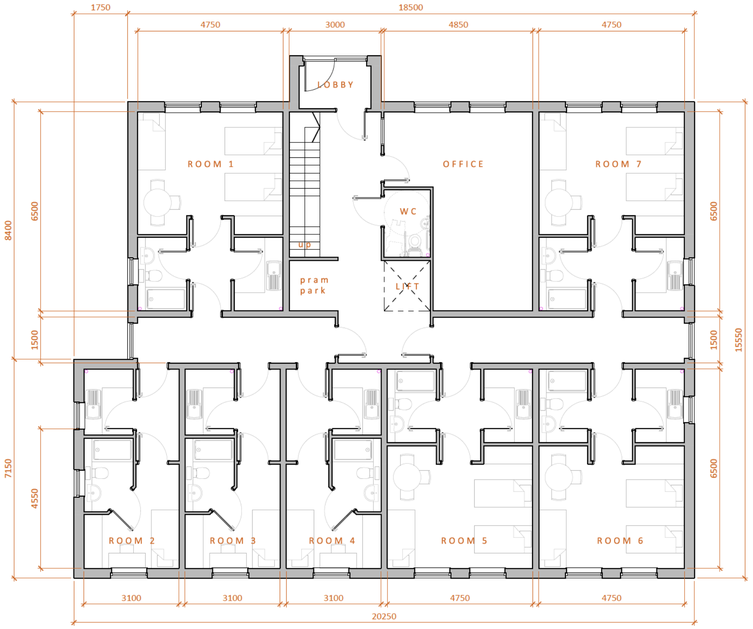
3 SITE SECTION C-C
SCALE 1:200

4 SITE SECTION D-D
SCALE 1:200

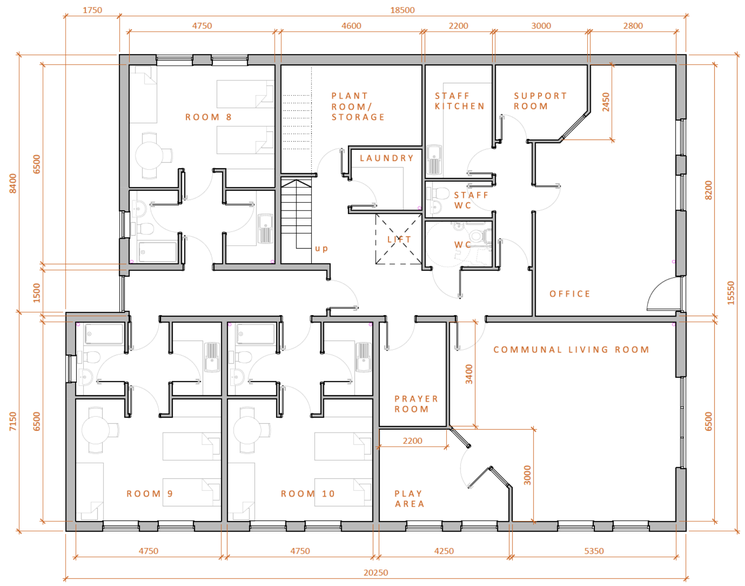
5 SITE SECTION E-E
SCALE 1:200

PROPOSED MATERIAL SCHEDULE

WALLS	STONE FACING/ RENDER WITH ART STONE DETAILING
ROOF	ARTIFICIAL SLATE
DOORS	UPVC DOUBLE GLAZED DOORS
WINDOWS	UPVC DOUBLE GLAZED WINDOWS



6 UPPER GROUND FLOOR PLAN
SCALE 1:100



7 LOWER GROUND FLOOR PLAN
SCALE 1:100

Revisions

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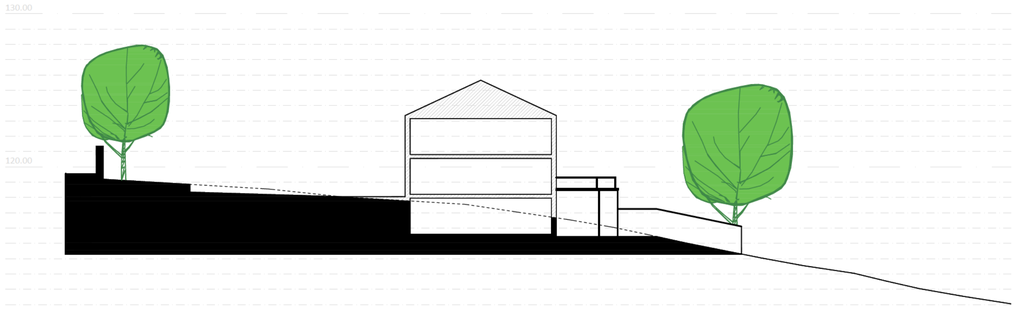
Client
Pennine Domestic Abuse Partnership

Project
Retreat/ Housing at
Ashbrow Road, Huddersfield

Drawing title
Proposed Retreat
Plans, Elevations & Sections

PLANNING APPLICATION

Scale @ A1	Drawn by
Varies	CG
Date	App'd
October '21	-
Drawing no	Rev
21-1151/(AL)02	-



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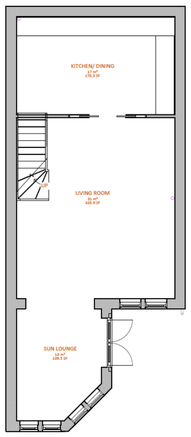
SCALE 1:200

2 **SITE SECTION Y-Y**
SCALE 1:200

3 **SITE SECTION Y-Y**
SCALE 1:200



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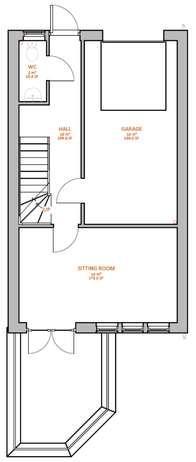
SCALE 1:100



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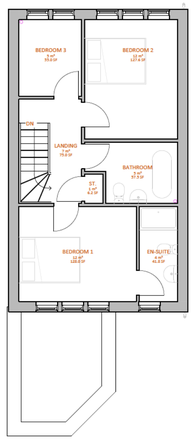
SCALE 1:100



6 **FIRST FLOOR PLAN**
SCALE 1:100

PROPOSED MATERIAL SCHEDULE

WALLS	STONE FACING WITH ART STONE DETAILING
ROOF	ARTIFICIAL SLATE
DOORS	COPOSITE FRONT DOOR UPVC DOUBLE GLAZED PATIO DOOR METAL PROPRIETARY GARAGE DOOR
WINDOWS	UPVC DOUBLE GLAZED WINDOWS

Revisions

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PLANNING APPLICATION

Scale @ A1	Drawn by
Varies	CG
Date	App'd
October '21	-
Drawing no	Rev
21-1151/(AL)03	-

Appendix 2

Coal Authority Report

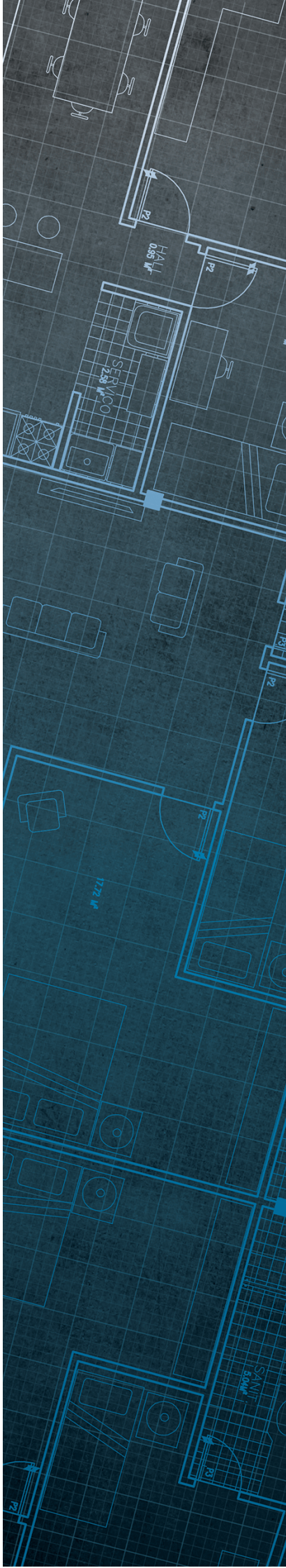
The Coal Authority

Consultants

Coal Mining Report

Land Adjacent To 41 Ashbrow Road
Fartown
Huddersfield
Kirklees
HD2 1DX

Date of enquiry:	**10 November 2021**
Date enquiry received:	**10 November 2021**
Issue date:	**10 November 2021**
Our reference:	**51002715055001**
Your reference:	**C/2205/21/E/3386**



Consultants
Coal Mining Report

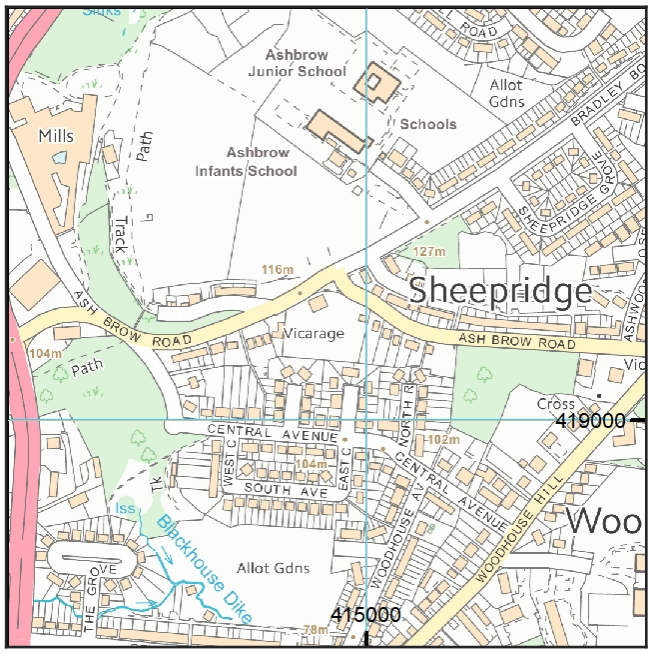
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

ROGERS GEOTECHNICAL SERVICES LTD

Enquiry address

Land Adjacent To 41 Ashbrow Road
Fartown
Huddersfield
Kirklees
HD2 1DX



Approximate position of property

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

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Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
Yes.

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:

7800		

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
BLACK BED	Coal	Yes	Within	N/A	129

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.

Fault under or close to the property 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.

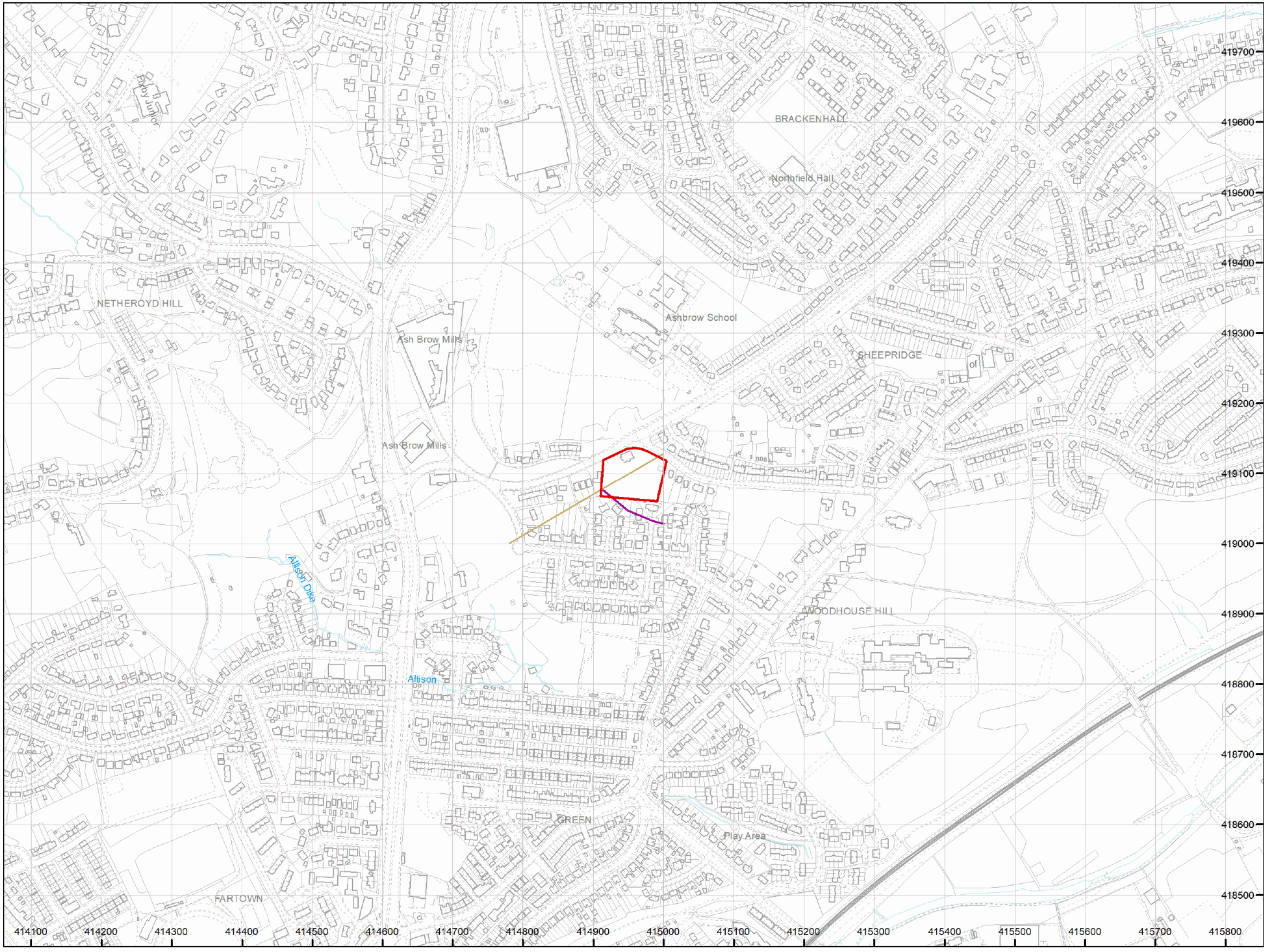
The Coal Authority

Summary of findings

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

Key

- Approximate position of the enquiry boundary shown
- Outcrop (Proven)
- Geological faults



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