

PLACE DIRECTORATE
South Yorkshire Mining Advisory Service



To: Asset Management

FAO: Adam Carratt

My Ref: M1401/12

Your Ref: Ravenfield Garage Site

Date: 24th April 2019

Enquiries to: Mr. M. Lyons

Ext: 2690

Subject: RAVENFIELD DRIVE GARAGE SITE, SMITHIES, BARNSELEY

Further to your consultation request of the 11th April 2019, regarding the above named site, I can confirm the following report for the geological, mining and past land use for the area.

Situation

The site under consideration for disposal is shown edged orange on the attached plan no. M1401/12A.

Geology

Geological records show that the site is located on the Wooley Edge Rock Sandstone of the Middle Coal Measures which dip generally in a north-easterly direction in this vicinity.

Geological faulting is conjectured through the site which trends in a north-east to south-west direction.

Shallow Mining

The Meltonfield Coal Seam (approx.. 1400mm) is conjectured to outcrop approximately 100m to the south-west and as it dips to the north-east it is likely to be at a relatively shallow depth beneath the site – estimated at 15m to 20m.

To the south-east of the conjectured geological fault, the Newhill coal seam (approx. 500mm) is conjectured to outcrop within the site and therefore could also be present at shallow depth.

Although there are no records of any underground workings in these seams, the likelihood of old historic workings should not be ruled out.

Deep Mining

Deep coal mining operations have taken place beneath this area in various seams in the past, all settlement from which will be long complete and as no coalfields now remain the site will be stable from the deep coal mining subsidence aspect for the foreseeable future.

Opencast Mining

No opencast coal sites are shown within 50m of the site.

Mine Entries

No mine entries are known within or in close proximity to the site.

Fugitive Gas

There are no records of any mine gas issues in the vicinity of the site. However, some risk will exist for such an occurrence considering the relatively shallow coal/coal workings and porous sandstone bedrock, particularly if faulted ground exists.

Past Land Use

Historical plan information does not indicate any past mining, quarrying or other industrial activities on the land prior to the use as a garage site.

Landfill

According to the current Borough Landfill Site Map, the site does not lie within 250m of a past or current landfill operation.

Conclusions

1. The site is stable from the deep mining subsidence aspect and should remain so for the foreseeable future.
2. For planning application purposes a coal mining risk assessment will be required. Further information on the coal authority planning procedure can be found at:
<https://www.gov.uk/guidance/planning-applications-coal-mining-risk-assessments>

Depending on the nature of future development it would be advisable to undertake a limited borehole site investigation to determine the depth and nature of the Meltonfield and Newhill coal seams which are likely to be beneath the site at a relatively shallow depth. Unchartered workings in these seams could pose a stability problem to the surface if shallow enough. Prior consultations with the Coal Authority would be required for a permit to investigate the coal.
3. Some risk will exist for fugitive mine gases at this location. Subject to the type of development a prudent developer would undertake a ground gas monitoring exercise to determine any mitigation requirements.

4. Historical information indicates no evidence of any former mining, quarrying or industrial activities prior to the use as a garage site.
5. Sandstone bedrock may contain fissures that could have been opened out by the past coal mining activities beneath the land and geological faulting is also conjectured to affect the site. Suitable ground works/foundation designs for future development may be required.

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Report prepared by M. Lyons 24th April, 2019.



Principal Mining Engineer.

DRAWING TITLE

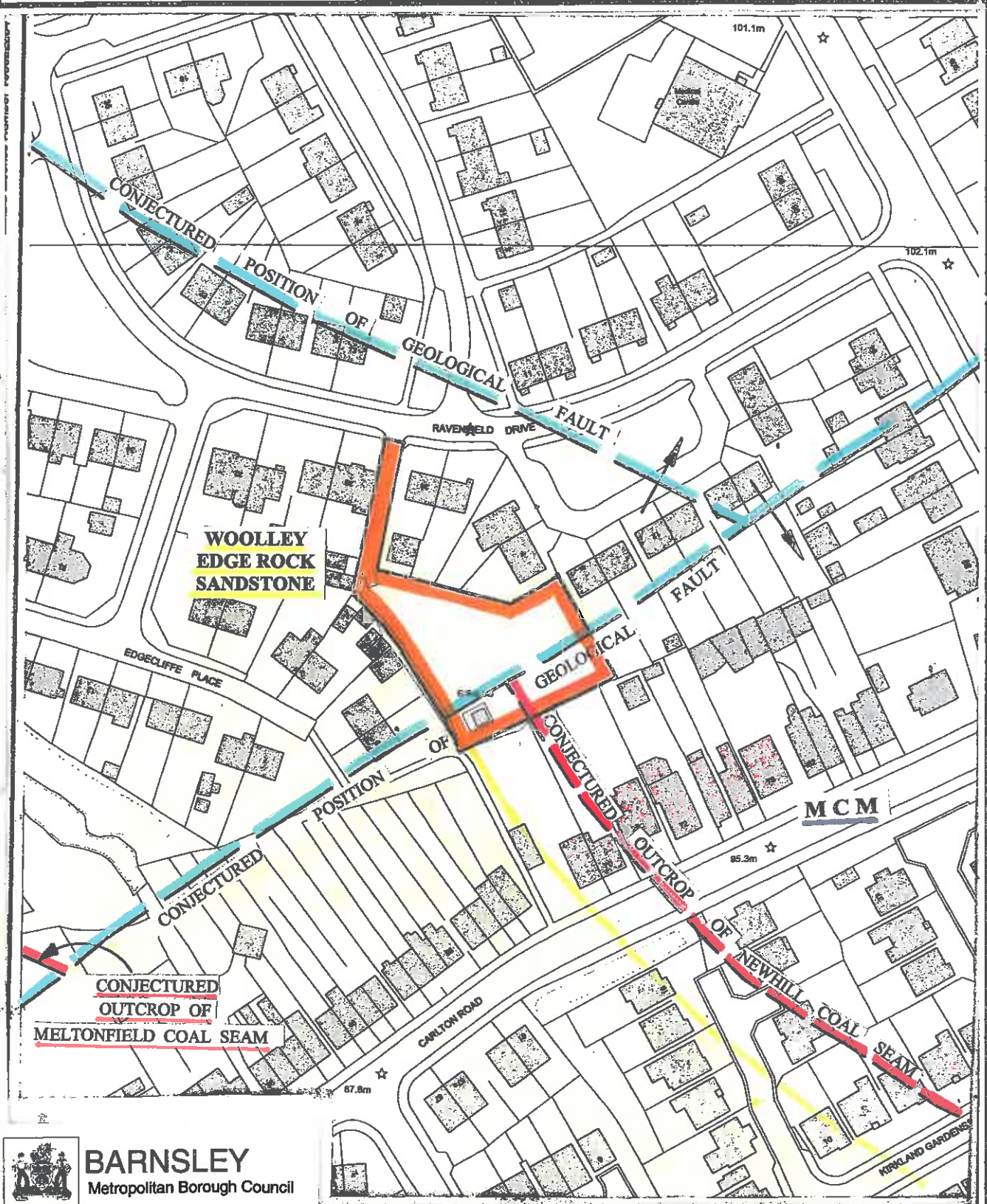
DRAWING NO.

RAVENFIELD DRIVE GARAGE SITE
SMITHIES, BARNSELY

M1401/12A

2018

BMBC Licence Number 100022264



BARNSELY
 Metropolitan Borough Council

SCALE

1:1250

DATE

24.4.19

SOUTH YORKSHIRE MINING

ADVISORY SERVICE

O.S REFERENCE

SE 3508

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