

PLACE DIRECTORATE  
South Yorkshire Mining Advisory Service



To: Asset Management

FAO: Paul Allison

My Ref: M4391/2

Your Ref: E01792

Date: 26<sup>th</sup> October 2016

Enquiries to: Mr. M. Lyons

Ext: 2690

Subject: E01792 – LAND ADJ. 16 SURREY CLOSE, WORSBROUGH COMMON S70 4NB.

Further to your consultation request of the 14<sup>th</sup> October 2016, I can confirm the following.

SITUATION

A mining report has been requested for the above named site, as shown edged orange on the attached plan no. M4391/2A. This report provides a review of the mining and geological history of the site and an assessment for the potential for mining legacy risks. The report makes recommendations regarding the need for any investigative and/or remediation requirements.

GEOLOGICAL  
INFORMATION

Geological records indicate that the land is underlain by sandstones, shales and mudstones of the Middle Coal Measures, as indicated on the attached plan. A geological fault is indicated some 80m away clear of the site to the north-west. Natural fissures may be present in the sandstone bedrock that may have been opened out by the past deep mining activities as detailed below.

The Two Foot coal seam is conjectured to outcrop just to the west as indicated. According to geological and past mining information, this coal is anticipated as being around 600mm in thickness, and with strata dipping to the east in this vicinity it will be expected at shallow depth beneath the site.

MINING

Shallow Mining

Although no shallow coal workings are known in the Two Foot coal seam beneath the site itself, the seam is known to have been worked underground in close proximity (*the former Albion Colliery approx. 130m to the east, abandoned in 1905*). Considering this, the risk of any uncharted shallow workings beneath the site is considered as **MODERATE** in this instance.

Deep Mining

Deep mining operations have taken place beneath this area in various coal seams, the latest being in the Thorncliffe Seam at around 390m deep in 1971. All subsidence movement from these workings will be long complete, and as no deep coalfields now remain it should not be affected for the foreseeable future.

Mine Entries

Closest known mine shaft is located some 70m away to the south as shown on plan. Considering the mining and geological information the risk of encountering other mine entries of which there are no records is considered as **MODERATE** in this instance.

**FORMER  
LAND USES**

According to historical records the site itself appears free from any past industrial uses to have caused any contamination issues.

**LANDFILL**

According to the Borough Landfill Register the site does not lie within 250m of any past landfill operation.

**CONCLUSIONS**

1. The site will be stable from the deep coal mining aspect for the foreseeable future.
2. Shallow coal mining risks are considered as MODERATE for this site, considering the potential for workings being encountered in the Two Foot Coal Seam that is expected near the surface in this vicinity. An intrusive site investigation is likely to be required for any proposed development to mitigate against surface instability due to void migration. A permit would be required from the Coal Authority to facilitate this.
4. Considering the MODERATE risk for discovering an uncharted mine entry, a watching brief should be implemented during any future ground works for any signs of such a feature. The Coal Authority (as custodians) should be consulted if a mine entry is encountered or suspected.
3. A slight risk will be present for fissures being encountered in sandstone bedrock. Future development may require suitably strengthened foundations where any weak ground conditions are encountered, and prior treatment works to stabilise the features may also be required.
4. Any coal exposed should be blinded off to help prevent spontaneous combustion from occurring.
5. Considering the possible shallow coal and/or coal workings, along with sandstone bedrock, all usual safety precautions should be taken regarding possible fugitive gases in any future excavation work taking place.

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Report prepared by M. Lyons 26<sup>th</sup> October, 2016.



Principal Mining Engineer.

DRAWING TITLE

**E01792 - LAND ADJ 16 SURREY CLOSE  
WORSBROUGH COMMON**

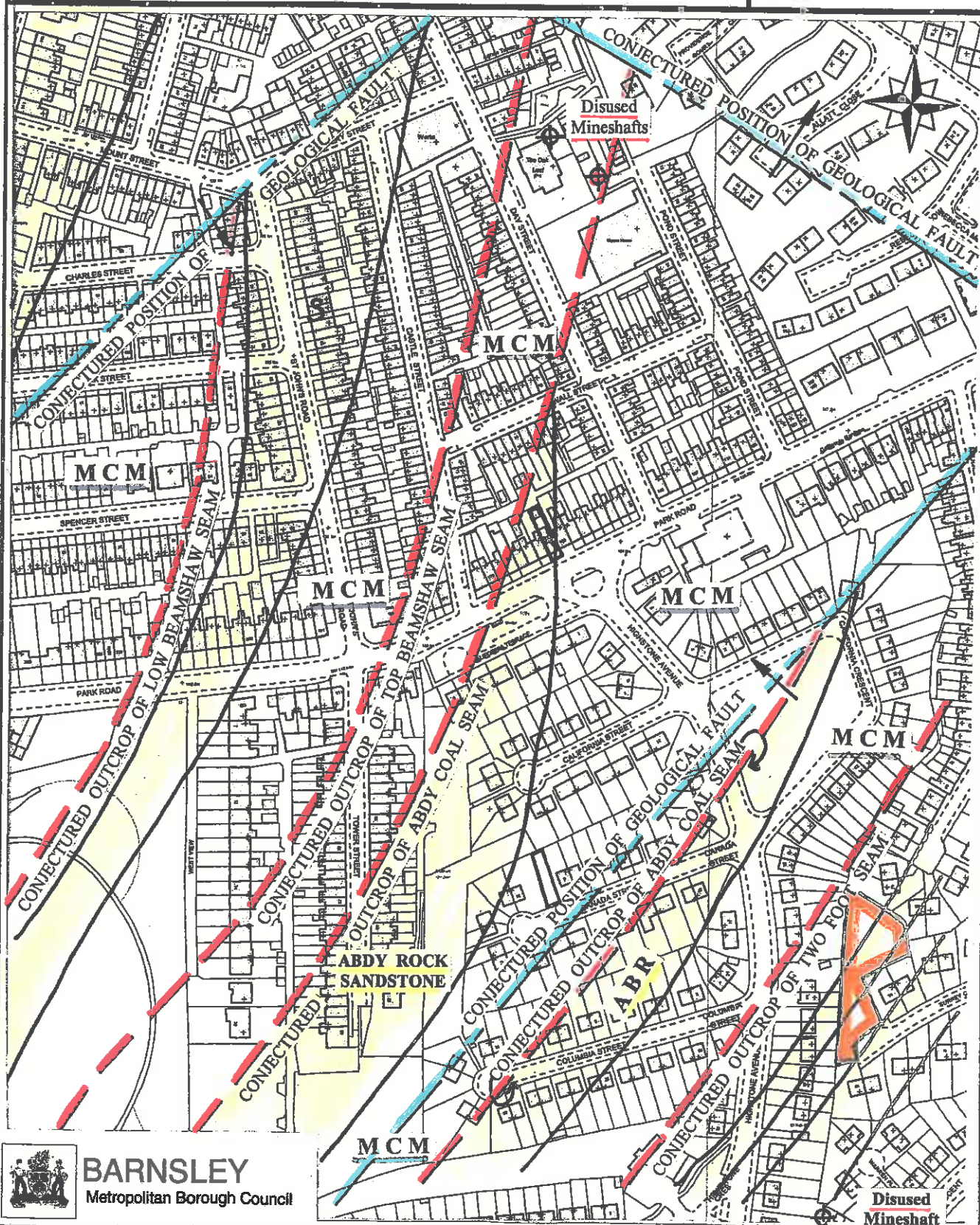
DRAWING NO.

**M4391/2A**

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**BARNSELY**  
Metropolitan Borough Council

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DRAWN BY AS	CHECKED BY MAR

**SOUTH YORKSHIRE MINING  
ADVISORY SERVICE**

O.S. REFERENCE SE 3405
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