

PLACE DIRECTORATE
South Yorkshire Mining Advisory Service



To: Asset Management

FAO: [REDACTED]

My Ref: M734/1

Your Ref: (S75 4JS)

Date: 21st December 2017

Enquiries to: [REDACTED]

Ext: [REDACTED]

Subject: MARTIN CROFT GARAGE SITE, SILKSTONE, BARNSELY S74 4JS.

Further to your consultation request of the 7th December 2017, 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 future works or development is shown edged orange on the attached plan no. M734/1A.

Geology

The site is shown to be located on the Silkstone Rock Sandstone of the Lower Coal Measures as indicated on the above plan. The sandstone may contain fissures that could have been opened out by the past deep coal mining as detailed below.

The Silkstone Coal Seam (of around 1500mm thickness) is conjectured to outcrop some 250m away to the south-west as indicated on plan. Given the dip of the strata (around 1 in 10 to the north-east) and lay of the land, this coal is expected to be at depths of 25m or more beneath the site itself.

No alluvium or made ground is indicated on geological records, however an old small quarry (as detailed below) suggests that some fill material may be experienced.

Shallow Mining

No shallow coal mining is known in this vicinity and considering the geological and mining information the likelihood of historic shallow workings affecting surface stability is considered as LOW in this instance. Given the anticipated depth of the Silkstone seam, it is not expected to affect surface stability at the surface be it worked or otherwise.

Deep Mining

No deep mining has taken place beneath this area and as no coalfields now exist it should remain stable from the deep mining subsidence aspect for the foreseeable future.

Opencast Mining

The past 'Sunnybank' Opencast coal operations during the 1950's are recorded some 190m away clear to the south-west, as shown on the attached plan.

Mine Entries

None known within or in close proximity to the site. The closest (according to Coal Authority details) is shown around 27m away to the south, as indicated on plan. As such, a slight risk will exist for further unrecorded historic mine entries being present, particularly considering that a small quarrying operation occurred on part of the land (as detailed below).

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.

Past Land Use

According to historical records, the site was formerly open farmland with a small old quarry indicated in the western part of the site, as indicated on 1893 Edition O.S. County Series Sheet. Associated made ground or fill material may therefore be experienced.

Landfill

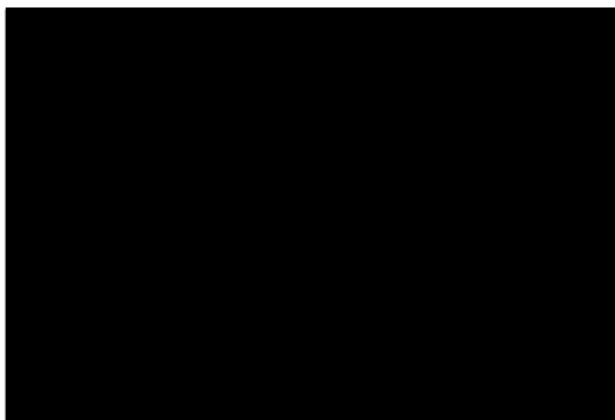
According to the current Borough Landfill Site Map, the site lies within 250m of past landfill operation No. 10 – which is detailed as a Category 4 site and was licenced to accept 'Foundry Sand and Demolition' waste. The site closed in 1978.

Conclusions

1. The site is stable from the deep mining subsidence aspect and should remain so for the foreseeable future.
2. The risk of shallow coal workings causing a stability concern to future development is considered as **LOW** in this instance. It should be noted however that for future planning applications, as the site falls within a Coal Authority 'High Risk' referral area a Coal Mining Risk Assessment will be required to support the application.
3. A slight risk will be present for unrecorded mine entries. A watching brief during future ground works or development for any associated signs of such a feature, and the Coal Authority consulted if suspected.
4. The depth and nature of any fill material associated with the historic small quarry to the west may require investigation to ensure suitability for the intended usage.

5. Sandstone bedrock may contain fissures that could have been opened out by the past coal mining activities beneath the land. Suitable ground works/foundation designs for future development may be required.
6. All usual safety precautions should be employed regarding potential fugitive mine gases in any deep excavations or confined spaces during any future works. Any proposed development may require mine gas mitigation measures to be incorporated into foundation design.
7. The site lies within 250m of Category 4 Landfill Site No. 10, where such a category is detailed in the Borough Register as a *"site which the Waste Disposal Site Licence indicates has been licensed to accept material that would not be expected to give rise to landfill gas in substantial quantities OR a site which has been granted an exemption from Waste Management Licencing pursuant to the provisions of the Waste Management Licencing Regulations 1994."*

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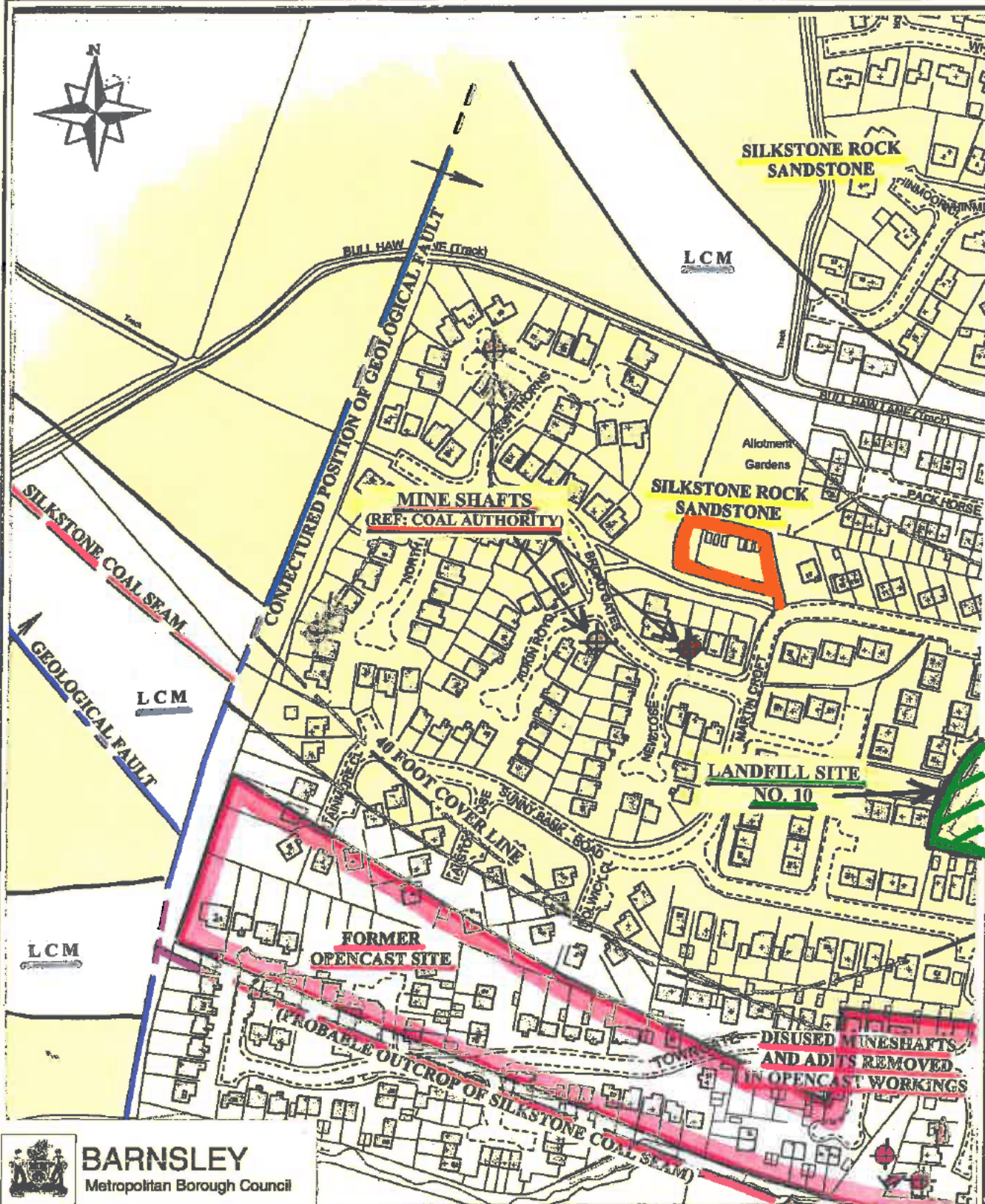


DRAWING TITLE

DRAWING NO.

MARTIN CROFT GARAGE SITE
SILKSTONE, S75 4JS

M734/1A



BARNSELY
 Metropolitan Borough Council

SCALE

1:2500

DATE

13.12.17

SOUTH YORKSHIRE MINING**ADVISORY SERVICE**

O.S. REFERENCE

SE 2805/2806

DRAWN BY

AS

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