

MINERAL REPORT



Date: 20th August, 2012

My Ref: PJ/M2321/6

CONFIDENTIAL

LAND AT HIGHSTONE ROAD/KENWORTHY ROAD, WORSBOROUGH COMMON

SITUATION

The land under consideration for housing development is shown edged orange on the attached drawing no M2321/6A.

GEOLOGICAL INFORMATION

Geological records indicate that the sites are underlain by middle coal measures mudstones, siltstones and sandstones. The strata generally dips to the east at a rate of around 1 in 12.

The Meltonfield Coal Seam (thickness 900 mm to 1400 mm) outcrops to the west. The coal seam will therefore be present at a shallow depth beneath the land.

There are no known geological faults affecting the sites.

MINING

Shallow Workings

Several mine entries are present in the surrounding area as shown on the attached drawing. A number of these shafts accessed the Meltonfield Coal Seam. Shallow mineworkings are recorded in the area of the shafts. Further shallow mine workings may be present beneath the land.

It is therefore recommended that a borehole site investigation be undertaken on the development plots to prove the position, condition and thickness of the Meltonfield coal seam. Where workings are proved within a critical depth of the surface, stabilisation works will be necessary.

Suitable gas monitoring should also be undertaken to check for the presence of fugitive mine gases.

Deep Mineworkings

The land has been affected by mineworkings several coal seams in the past. Any movement at the surface should be complete and as the site now lies remote from the presently active coalfield no future mining should occur.

FORMER LAND USES

The relevant Ordnance Survey Sheets have been checked and there are no indications of any previous land use which may give rise to contamination issues.

LANDFILL

The site does not lie within 250 m of a known landfill site, as indicated on the current Borough Landfill Site Map.

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CONCLUSIONS

1. The site is stable from the deep mining subsidence aspect and should remain so in future years.
2. Shallow mine workings in the Meltonfield Seam have been proved in the general area and it is possible that further workings could be present at a critical depth beneath the plots. It is therefore recommended that a borehole site investigation is undertaken in each of the plots to determine the depth, condition and thickness of the Meltonfield Seam and the existence, or otherwise, of any shallow mine workings. Boreholes to a depth of 15 m would be recommended; the results of this exercise would determine whether further remedial measures may be required to ensure the future stability of any new development.

If any unrecorded shafts etc. are encountered during development works, these should be reported to the Coal Authority and will require appropriate treatment.

Consultation with the Coal Authority is required prior to any investigation or operations that involves entry into any coal or mines of coal, including coal mine shafts, adits and workings. The Documentation which supports the Coal Authority's Permissions procedures can be viewed at:
www.coal.gov.uk/services/permissions/index.cfm.

3. The presence of fugitive gases should be adequately investigated and it is recommended that monitoring in respect of fugitive gases should be undertaken during all site investigation and excavation works. Precautions against fugitive gases may need to be incorporated into future development.

THIS REPORT IS BASED ON AND LIMITED TO THE RECORDS IN THE POSSESSION OF SYMAS AT THE TIME THE ENQUIRY IS ANSWERED.

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Report prepared by P. James 20th August, 2012.

A handwritten signature in black ink, appearing to be "P. James", is located below the text "Report prepared by P. James 20th August, 2012.".

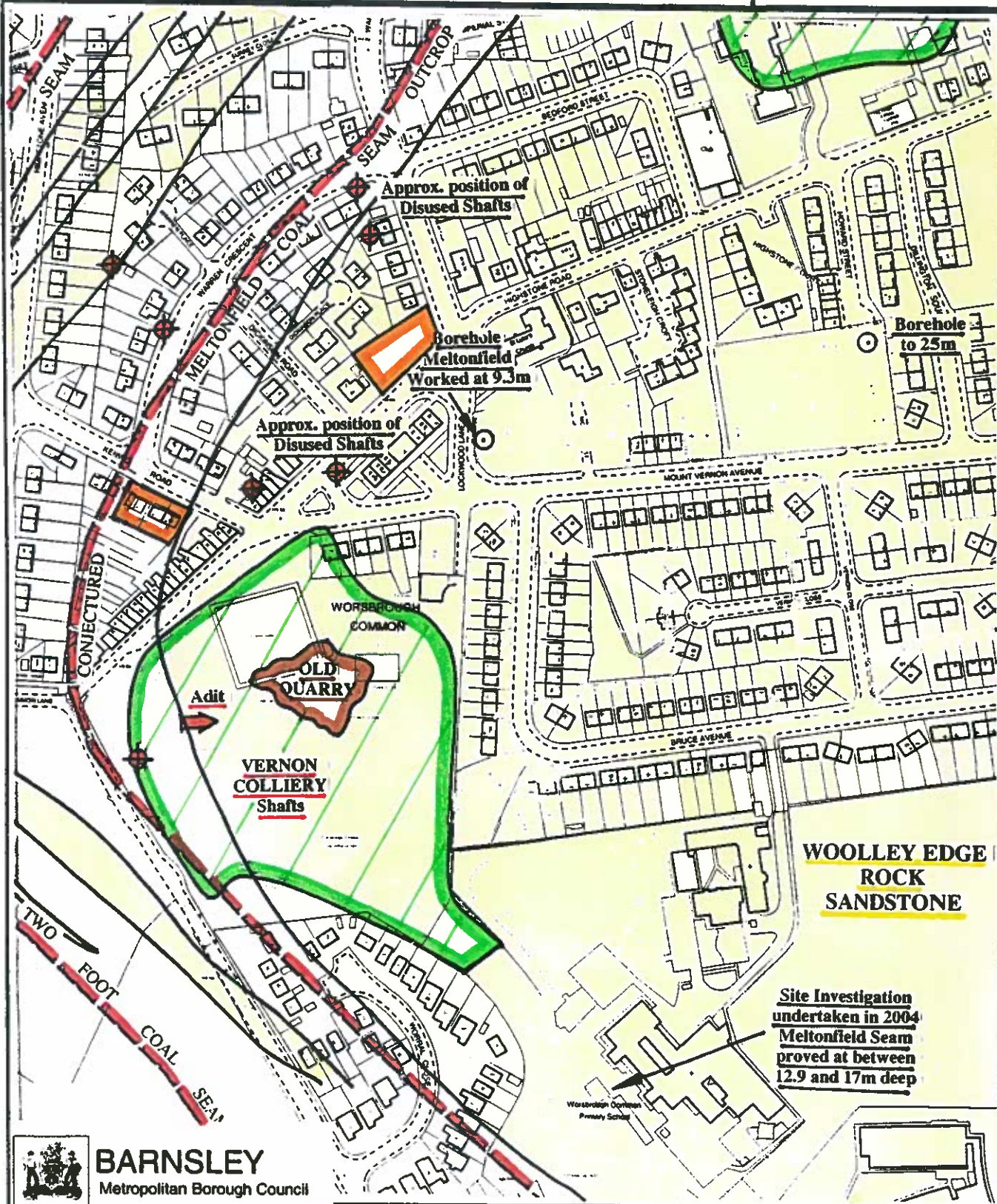
P. James,
Principal Mining Engineer.

DRAWING TITLE

DRAWING NO.

**LAND AT HIGHSTONE ROAD/KENWORTHY ROAD
WORSBOROUGH COMMON**

M2321/6A



BARNSLEY
Metropolitan Borough Council

SCALE
1:2500

DATE
20.8.12

**SOUTH YORKSHIRE MINING
ADVISORY SERVICE**

O.S REFERENCE
SE 3405

DRAWN BY
AS

CHECKED BY
RT

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PRINCIPAL MINING ENGINEER