

MINERAL REPORT



Date: 25th January, 2018

My Ref: M4364/12

CONFIDENTIAL

COAL MINING RISK ASSESSMENT- FORMATION OF PEDESTRIAN BRIDGE, MARKET GATE BRIDGE, BARNSELEY

INTRODUCTION

The site under consideration is shown edged orange on the attached drawing no M4364/12A.

This report provides a review of the mining and geological history of the site and an assessment of potential mining legacy risks.

GEOLOGICAL INFORMATION

Geological records indicate the site to be underlain by Middle Coal measures mudstones, siltstones, sandstones and coal which dip gently in an easterly direction in this vicinity.

According to the British Geological survey 1-10,000 scale quarter sheet, the Winter (upto 1100mm), Top Beamshaw (1000mm) and Low Beamshaw (650mm) coal seams are conjectured to outcrop to the west of the site as shown on the attached drawing ref M4364/12A.

The coal seams dip gently to the east and are likely to be present beneath the proposed bridge at a relatively shallow depth.

There are no recorded geological faults.

MINING INFORMATION

Deep Mining

Mine workings are recorded in the Barnsley seam beneath the site. The mining was undertaken in the mid 1800's. All normal subsidence will have ceased.

Shallow Coal Mining

There are no records of any mine entries or shallow mine workings beneath the land.

NEARBY SITE INVESTIGATION

As part of the regeneration project for Barnsley town centre a geo-environmental desk top study and site investigation work was undertaken in 2007/8. Some 14 boreholes and 8 window samples were undertaken across the adjacent car park site. The boreholes proved the coal seams intact, no shallow mine workings were encountered.

HISTORICAL LAND USE

Historical ordnance survey maps indicate previous built development and industrial land use prior in the vicinity of the site as indicated on the attached drawing M4364/12B.

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FUGITIVE GAS

SYMAS has no record of any fugitive mine gas emissions at this site. However given the probable presence of made ground and shallow coal, the presence of fugitive gases cannot be ruled out. It would be prudent to employ gas monitoring procedures if construction personnel are required to work in deep or confined excavations.

CONCLUSIONS

1. The site is stable from the deep mining aspect and should remain so for the foreseeable future.
2. Site investigation work undertaken in 2007/8 on adjacent land proved the Winter and Beamshaw coal seams intact i.e. there are no shallow mine workings present.
The the risk of the bridge site being affected by mining legacy issues is considered as LOW.
However intrusive site investigation works should be undertaken to ensure foundations for the bridge piers are suitably designed and located on competent bedrock.

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Report prepared by P James 25th January, 2018.

A handwritten signature in black ink, appearing to be "P. James", written in a cursive style.

P. James,
Principal Mining Engineer.

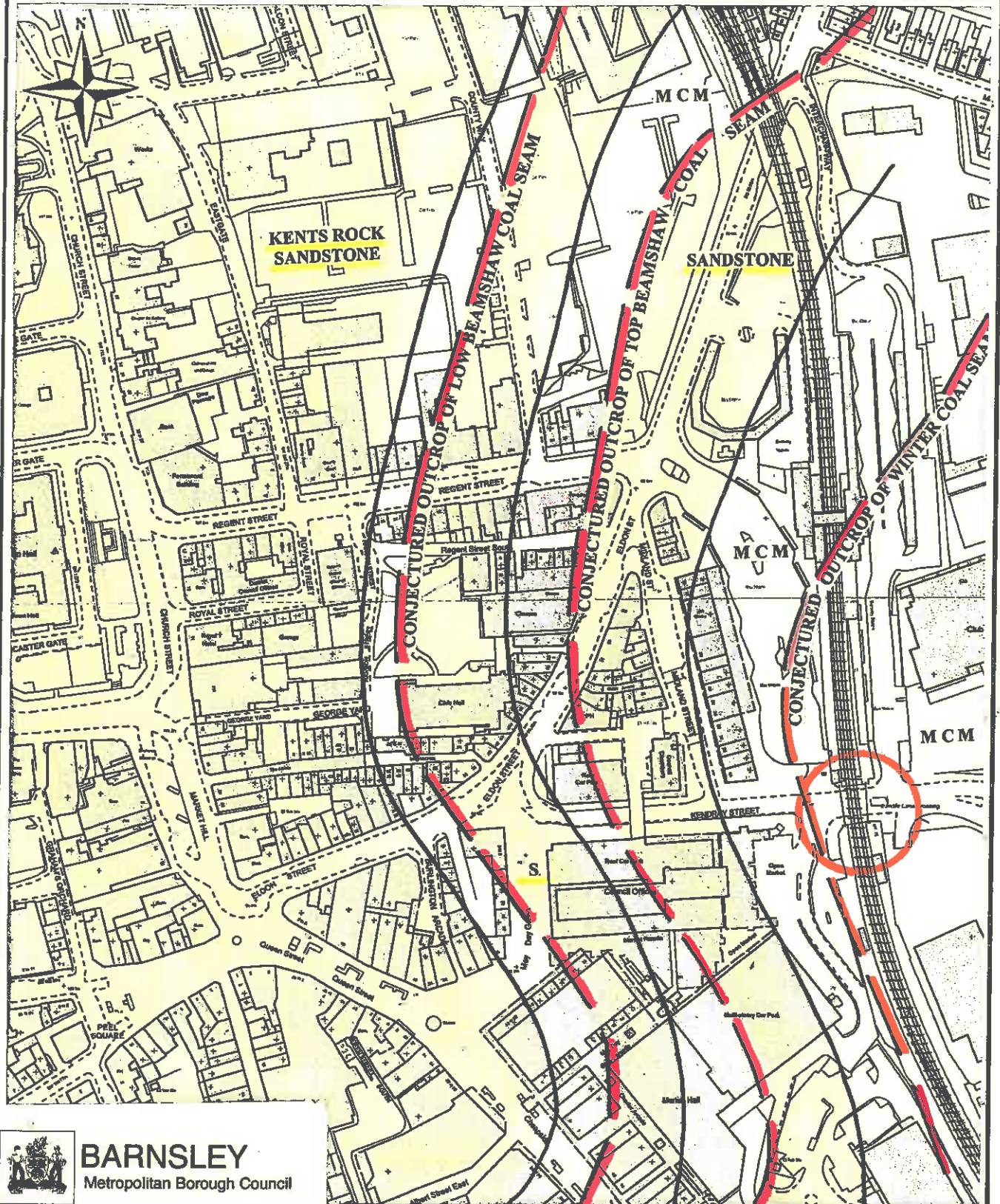
DRAWING TITLE

Market Gate Bridge.

DRAWING NO.

M4864/12A

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PRINCIPAL MINING ENGINEER

DRAWING TITLE

Market Gate Bridge

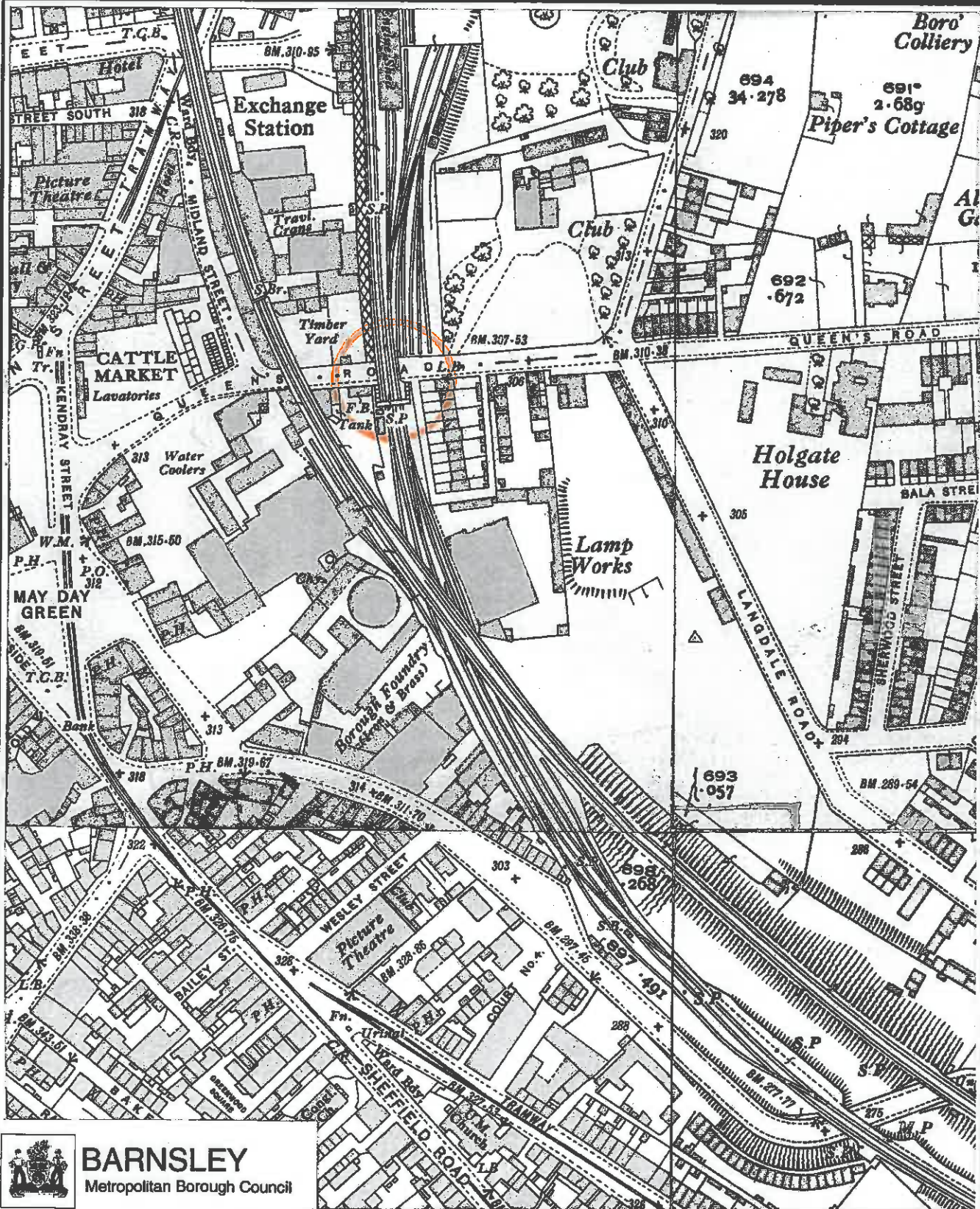
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