

Your ref:

Our ref: APM/36603



03 December 2015

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Dear Mr Taylor

Land at Wharnccliffe Silkstone WMC, Tankersley, Barnsley. S75 3AH
Coal Mining Risk Assessment

We refer to the above scheme and set out our findings below:

1. The site is located at approximate grid reference E433570 N400575.
2. A Coal Authority Mining Report ref 51001040163001 dated 26 November 2015 states coal has been worked from 5 seams within the likely zone of influence of the site, at depths varying between 100m and 260m. The last date of working occurred in 1963. In addition the mining report speculates on the presence of unrecorded shallow workings associated with outcropping coal seams within the vicinity of the site.
3. The BGS 1:50,000 series map sheet 87 (Barnsley) indicates the site is located on an outcrop of Haigh Moor (Kexbrough) Rock within the Middle Coal Measures. This is a sandstone unit with a recorded thickness varying between 0 and 28m in the general district. A north west – south east striking fault is shown to outcrop along the approximate south western boundary of the site with the down-throw being on the northern or site side of the fault plane. The Haigh Moor coal seam outcrops close to the south western boundary of the site although it is locally interrupted by the fault plane. The Haigh Moor Coal is known to vary between 0.6m and 2m thickness in the general district. Further coal outcrops are shown to the south of the site – Joan Coal (0-1.4m thickness) at an estimated range of 180m and Flockton Thick (0-3.7m thickness) at approximately 250m distance. These coals lie to the south west of the fault plane and may reasonably be predicted to deepen below the site as a consequence of the down-throw. A strata dip of 5 degrees is indicated in the general vicinity.
4. The historic map sequence reveals old ironstone pits at a distance of some 350m to the west of the site. These may be associated with the Tankersley (Musselband) Ironstone that is known to occur in the locality.

Taking all matters into account we construe the Haigh Moor coal seam may be located at shallow depth below the site and in consideration of the thickness range (0.6-2.0m) there is a moderate to high degree of probability that residual mining voids may be present within influencing distance of the ground surface and that these could pose a potential risk to the stability of building foundations

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associated with the proposed development. There is also a possibility of unrecorded mine entries being present associated with the Haig Moor coal.

We consider the down-throw effect of the discussed fault negates the risk of ground surface disruption associated with the Joan and Flockton Thick coal seams.

On the basis of a generally accepted depth to thickness ratio of 10, the ground should be probed to a minimum depth of 20m to determine if coal and/or residual voids are present. If voids are encountered further design consideration will be necessary to support the secure development of the site. The stripped formation should also be inspected to identify any abandoned mine entries present on the site. If such entries are found further design consideration will be necessary to support the secure development of the site.

We recommend the Coal Authority are consulted prior to any probe drilling being commenced into coal seams, since such work would require a licence to be granted.

Please call to discuss any queries.

Yours sincerely

Anthony P Mulligan
Regional Director

For and on behalf of
PETER BRETT ASSOCIATES LLP