

**Planning Permission: 2023/0009**

**3, Moor End Cottage, Moor End Lane, Silkstone Common, Barnsley S75 4RW**

**Change of Use of Land to inc Non Motorised Cycle Track for Private Use.**

**Statement Relating to Potential Historic Shallow Mining beneath the Outlined Area and Proposed Mitigation Measures**

- The proposal is to form a cycle track for mountain bikes, for private use, comprising tracks and nominal jumps. Refer to outline area on applicable Architects site plan.
- Reference to the Coal Authority (CA) online Interactive Map Viewer indicates this part of the site to lie within the extreme northern edge of a Development High Risk Area (DHRA) and within an area of past probable shallow coal mining. An area of historic opencast coal mining lies immediately southeast.
- British Geological Survey (BGS) mapping shows the Silkstone Four Foot coal seam (up to 1.6m thick) as outcropping just southwest of the site and likely present beneath the site at shallow depth. The deeper Claywood Ironstone seam potentially lies at shallow depth beneath the site.
- The Silkstone Four Foot coal seam has been mined by opencast methods immediately southeast of the site.
- Interpolation of strata dip, assumed to be gentle and eastwards, and the distance of the proposed pod site from the outcrop of the Silkstone Four Foot coal seam suggests this seam is at approximately 12 to 16m depth below this part of the site. The Claywood Ironstone seam is assessed to be at approximately 25 to 30m depth beneath the site.
- Using a 10:1 ratio of competent rock cover to seam thickness for maintaining surface stability and assuming shallow rock head, there is marginally inadequate cover above the Silkstone Four Foot coal seam and sufficient thickness of competent rock cover above the Claywood Ironstone seam, in the event of historic mine workings. However, the presence of the more competent sandstone strata overlying the Silkstone Four Foot coal seam would further mitigate the potential for surface instability through collapse of any potential mine workings by allowing for a lower ratio of competent cover to afford protection.
- Considering the nature of the proposed development ie. Top surface re modelling and landscaping and usage limited to cycles, it is considered that there is a low risk of surface instability from collapse of past shallow coal mine workings in the area, or mine gases affecting structures. The requirement for intrusive investigation is not considered warranted.
- If any coal is encountered this is to be removed or sealed appropriately.