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# New Extension at Park Springs Industrial Estate

## Coal Mining Risk Assessment

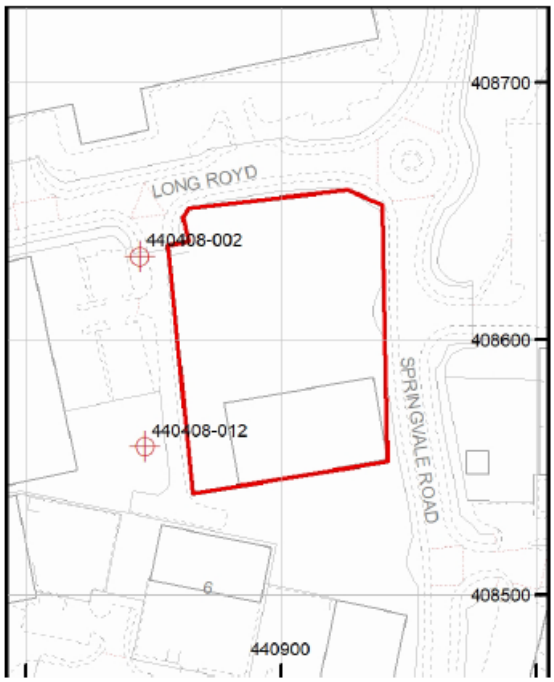
## January 2022

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|---|---|---|---|
| **Report Title** | New Extension at Park Springs Industrial Estate, Coal Mining Risk Assessment | **Site Address** | Park Springs, Long Royd, Grimethorpe, Barnsley, S72 7GH |
| **Author** | RB Geotechnical | **Contamination / Geotechnical** | Geotechnical |
| **Work Stage** | Coal Mining Risk Assessment | **Report Date** | January 2022 |
| **Brief Description of the Report Contents** | A desk-based assessment on the risks posed by coal mining to the site and the proposed new development | | |

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**Document Control**

| | |
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| **Project:** | Proposed Extension at Park Springs Industrial Estate Coal Mining Risk Assessment |
| **Client:** | Ultima Furniture Systems Limited |
| **Job Number:** | RBG262 |

Prepared and Issued by Ross Blake BSc MSc FGS, Engineer. Signed:



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| 002 | January 2022 | Final |

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Disclaimer

This report was produced by RB Geotechnical for Ultima Furniture Solutions Limited (The Client), for the specific purpose of a Coal Mining Risk Assessment for the planning application related to the proposed factory/warehouse building extension at Park Springs Industrial Estate in Grimethorpe, South Yorkshire. This report may not be used by anyone else other than the client without their express permission. In any event, RB Geotechnical accepts no liability for any costs, liabilities or losses arising from the use of reliance upon the contents of this report by anyone other than the client.

## 1.0 INTRODUCTION

The client is preparing a planning application for a proposed new extension onto an existing warehouse building at Park Springs Industrial Estate in Grimethorpe, South Yorkshire.

RB Geotechnical was commissioned by the client to carry out a Coal Mining Risk Assessment of the proposed site, in order to assess the risk of possible unrecorded mining activities.

### Terms and Conditions

Although every effort has been made to ensure the accuracy of the information contained herein, no checks have been carried out to ensure the accuracy of information obtained from third parties and no liability can be accepted for any errors or misinterpretation of the third-party information where it has been incorporated into this report.

This assessment is compliant with the 2017 Coal Authority Guidance *'Risk Based Approach to Development Management. Guidance for Developers. Version 4',* with this report structured as advised by this guidance. This report is concerned only with precautions related to potential mining issues.

### Site Location and Description

The development site is situated at Park Springs Industrial Estate in Grimethorpe, South Yorkshire. It is accessed through large gates off Long Road. The area of the site for the proposed extension is a large area

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of overgrown land. The existing steel framed warehouse building of which the extension is to be built upon, is located in the South of the site.

### Proposed Development

The proposed development is to comprise a large extension to the existing warehouse building. Proposed development plans are shown in Appendix C.

### Scope of the Coal Mining Risk Assessment

The purpose of this Coal Mining Risk Assessment is to:

- Present a desk-based review of all available information on the coal mining issues which are relevant to the application site;
- Use that information to identify and assess the risks to the proposed development, from coal mining legacy;
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development;
- Demonstrate to the Coal Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

## 2.0 SOURCES OF INFORMATION USED

The following information has been reviewed in this Risk Assessment, extracts from which are appended:

- A Coal Authority Coal Mining Report Dated 11th November 2021 – Appendix A;
- Coal Authority Mine Entry Data Sheets Dated 11th November 2021 – Appendix A;

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- Site Geological information obtained from the British Geological Survey Website (www.bgs.ac.uk). Map extract in Appendix B;
- Other online sources.

## 3.0 IDENTIFICATION AND ASSESSMENT OF SITE-SPECIFIC COAL MINING RISKS

The table below summarises the potential risks associated with coal mining legacy for the proposed development site, identified from the listed sources above.

| Coal Mining Issue | YES | NO | Risk Assessment Mitigation Strategy |
|---|---|---|---|
| Underground Coal Mining (Recorded at shallow depths) | | X | |
| Underground Coal Mining (probable at shallow depths) | | X | |
| Mine entries (shafts and adits) | X | | **Do not affect proposed development site** |
| Coal mining geology (fissures) | | X | |
| Record of past mine gas emissions | | X | |

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| | | | |
|---|---|---|---|
| Recorded coal mining surface hazard | | X | |
| Surface mining (opencast workings) | | X | |
| Coal at or Close to Surface which could have been mined in past | | X | |
| Coal Seam Directly Beneath Site | | X | |

- The Coal Authority Interactive Viewer indicates that only sections of the site located around the mine entry points are noted as being a 'Development High Risk Area'.

- The Coal Authority (CA) report (included as Appendix A) indicates that the site is in an area that could be affected by underground mining in seven seams of coal at depths from 70m. Two mine entry points have been mapped close to the site, with one situated in the North East corner of the site. This particular mine entry is noted to have been filled with hardcore and capped with reinforced concrete at rockhead, to British Coal specifications.

- The BGS GeoIndex and geological maps shows the site to be underlain by bedrock of the Pennine Middle Coal Measures. A fault is mapped running across the Northern section of the site in an East to West direction. A number of historical BGS boreholes have been carried out within the close surrounding area, the nearest of which do show evidence of coal, including broken coal and lost cores indicating possible evidence of workings.

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## 4.0 CONCLUSIONS AND MITIGATION STRATEGY PROPOSED

Two mine entries are mapped close to the site (but not directly on the site), with one known to have been backfilled and capped, with the other unknown. As these mine entry points are not situated in the proposed development site area, they are not deemed to pose any risk.

The remainder of the site is not deemed to be at risk from unrecorded mine workings.

RB Geotechnical therefore believes that no further works are necessary as the risks posed by potential unrecorded mine workings are deemed minimal.

### The Coal Authority Permission

Prior written permission from The Coal Authority is required for intrusive activities which will disturb or enter any coal seams, coal mine workings, or coal mine entries (shafts and adits). Further information on The Coal Authority's permissions process can be found at:
www.coal.gov.uk/services/permissions/index.cfm