

**Coal Mining Risk Assessment
at
Fosters Bakery
Towngate, Mapplewell S75 6AS
For
Fosters Bakery (Staincross) Limited**

Client:-

Fosters Bakery (Staincross) Limited

Towngate

Mapplewell

Barnsley

S75 6AS

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Contents

Executive summary	3
1. Introduction	5
2. Site location and description	7
<i>Proposed development</i>	
<i>Site history</i>	
3. Geological setting and historical mining context	9
4. Risk assessment	12
5. Discussion	14
<i>Probable shallow mine workings</i>	
<i>Mine entries</i>	
<i>Mine gas</i>	
6. Proposed mitigation strategy	16
7. Conclusions	18

Appendices

Appendix A Site location plan and development layout

Appendix B Mining Remediation Authority consultants mining report

Executive Summary

Proposal	A dry goods warehouse with mezzanine canteen.
Current land use	Undeveloped land within an existing bakery site. Within the proposal area, existing levels are between approximately 100.0m and 98.0m AOD with a defined break of slope present.
Mining related site history	No historic mining features recorded on the site. Several former collieries and numerous recorded mine entries are present locally. Former opencast mining is recorded 100m southeast. The site lies within an area significantly affected by historic mining activities.
Geology	Directly underlain by the undifferentiated strata of the Middle Coal Measures. The Kents Thin coal seam outcrops on the wider site and the Kents Thick coal seam underlies the proposal area at shallow depth.
Mining history and context	There are 5no. seams of worked coal recorded beneath the site at between 73m and 323m, last worked in 1968. The Kents Thick coal seam has been historically worked locally. No former mine entries are recorded on or within the vicinity of the site. Historic subsidence claims are recorded within 130m of the site. The site lies within an area of probable past shallow coal mining and is within a Development High Risk Area as defined by the Mining Remediation Authority.
Mining related risks	There is a potential risk from shallow mining beneath the site leading to surface instability – High. Unrecorded former mine entries may be present on the site – Low to Moderate. Mine gases may be present on the site – Low to Moderate.
Mitigation of risks	Proof drilling is recommended to confirm the status and depth of the underlying Kents Thick coal seam. If shallow mining is confirmed, drill

	and grout or appropriate foundation design may be required. Vigilance during site enabling works to check for unrecorded mine entries. Incorporation of protection measures for mine gases may be required within new development, subject to specialist advice and confirmation by regulators.
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1. Introduction

1.1 Concept Architecture and Structural Design Ltd (CDL) were appointed by Fosters Bakery (Staincross) Limited, to undertake a Coal Mining Risk Assessment (CMRA) for their site at Towngate, Mapplewell S75 6AS which is proposed for redevelopment. A planning application is to be submitted to Barnsley Metropolitan Borough Council (BMBC) and the site is identified as lying within a Mining Remediation Authority (MRA) Development High Risk Area, thus there is a requirement for a CMRA in order to provide BMBC with information on historic coal mining and an assessment of its potential impact on land stability.

1.2 The purpose of this CMRA 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, including the cumulative impact of issues
- 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, and
- Demonstrate to the Local Planning 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

1.3 To this end the study has included an inspection of published historical mapping, published geological data, publicly available planning information and a review of a MRA Consultants Coal Mining Report, together with other sources as indicated within the report.

1.4 This report presents the factual information available during this appraisal, interpretation of the data obtained and recommendations relevant to the scope of works outlined above.

1.5 The comments and opinions presented in this report are based on the findings of the available desk study assessment carried out by CDL. Responsibility cannot be accepted for any

conditions not revealed by this desk study and which have not been taken into account by this assessment.

1.6 This report has been prepared for the sole use of Fosters Bakery (Staincross) Limited. No other third party may rely upon or reproduce the contents of this report without written approval of CDL. If any unauthorised third party comes into possession of this report, they rely on it entirely at their own risk and we do not owe them any Duty of Care or Skill.

2. Site location and description

2.1 The site is centred on National Grid Reference 432810mE 409990mN, to the southwest of Towngate in Mapplewell town centre. A site location plan is included as **Appendix A**.

2.2 The wider site comprises an operational food production site with industrial buildings, warehousing, offices and areas of hardstanding and soft landscaping. Specifically, the area of the site proposed for redevelopment comprises both areas of soft landscaping and hardstanding within the southwestern part. Across the whole site, levels fall gently to the south and east by approximately 4.0m. Within the southwest existing levels are between approximately 100.0m and 98.0m AOD with a defined break of slope present. Existing residential properties bound the site to the southwest and southeast, commercial and residential properties to the northwest and Towngate to the northeast.

Proposed development

2.3 It is understood that it is proposed to develop the site with a dry goods warehouse incorporating a mezzanine canteen (40m by 20m). The warehouse FFL is approximately 98.0m AOD. Details of the proposed development layout are included as **Appendix A**.

Site history

2.4 Historical maps for the site and its surroundings, available from internet-based sources, have been reviewed and a summary of this information, specifically relating to mining related features, is provided below.

Date	On site features	Off site features (coal mining related)
1854 – 1894	Open fields and orchards.	Coal pits c.300m and 430m to northeast and northwest respectively. Speedwell colliery c.450m west, Belle Vue colliery and New Speedwell colliery c.450m and c.500m southwest, respectively.

1894 – 1932	Open fields.	North Gawber colliery c.360m to southeast.
1932 – 1971	Allotments.	No change.
1971 – present	Existing bakery site.	North Gawber colliery closure 1985.

3. Geological setting and historical mining context

3.1 Information obtained from various sources pertaining to the site's geology and historical mining perspective is summarised in the table below with information sources identified as appropriate.

Information sources	British Geological Survey (BGS) 1:50,000 scale, sheet 87, Barnsley, bedrock and superficial. BGS 1:10,560 scale County Series 2nd Edition 1936, sheet 262SE, bedrock and superficial. BGS 1:10,000 scale, sheets SE30NW Barnsley and SE31SW Woolley, bedrock and superficial. BGS online Geoindex onshore. Geological Survey memoir 'Geology of the Country around Barnsley', 1948. 'Sections of Strata of the Coal Measures of Yorkshire', Wilcockson, 1950. BMBC online Planning Applications Search. Coal Authority (CA) Coal Mining Risk Assessment for Fosters Bakery proposed 2 storey office extensions, dated 28/02/19. MRA online Map Viewer. MRA Consultants coal mining report, Ref. 51003561506001, 30 March 2026 (included as Appendix B). Historic Ordnance Survey (OS) online mapping.
Made ground	None recorded.
Drift	None present.
Solid	Undifferentiated strata (mudstone, siltstone, sandstone and coal) of the Middle Coal Measures.
Dip of strata	6° northeast.
Faults	No faults recorded on or adjacent to the site.
Coal seams	The Kents Thin coal seam is conjectured as outcropping within the wider site immediately northeast of the area of the proposal, it does not underlie the area of proposed development. The next coal seam recorded beneath the Kents Thin coal seam within the stratigraphic column is the Kents Thick coal seam, which is conjectured to outcrop southwest of the site and is considered to underlie the site at shallow depth. Beneath this the Barnsley Rider coal seam is present which outcrops further to the southwest and may underlie the site at shallow

	depth. No deeper major coal seams are present that are considered to be within influencing distance of the surface. Locally, BGS stratigraphic section thickness for the Kents Thick coal seam is between 0.91m and 1.22m while the underlying Barnsley Rider coal seam is between 0.16m and 0.61m.
Shafts and collieries	The MRA online map viewer indicates numerous former mine entries (shafts and adits) to the west, east and southwest of the site. Published geological information identifies historic adits and opencasting associated with the Kents Thick coal seam locally. However, none are shown as within influencing distance of the site. Reference to the former 2019 CA CMRA at the site (prepared for an area within the northeastern corner of the overall site) identifies abandonment plan NE1037 relating to past underground working of the Kents Thick coal seam locally. The seam is recorded as comprising 0.15m coal, 0.46m seatearth, coal 1.07m and underlying seatearth of unknown thickness (total of 1.68m excluding the basal seatearth). A tentative seam separation between the Kents Thin and Thick is some 23.3m. Shaft records for the former North Gawber colliery some 360m southeast indicate thickness of between 0.61m and 0.76m for the Kents Thin, 0.99m and 2.38m (presumably including seatearths at the upper limit) for the Kents Thick and 0.46m for the Barnsley Rider. Separation thicknesses for the Kents Thin and Kents Thick are approximately 21.3m and Kents Thick and Barnsley Rider are approximately 40.3m. Rationalised former abandonment plans NY190K and NY180K indicate the Kents Thick coal seam to have a local extraction thickness of 0.89m.
Nearby intrusive information	Historic intrusive investigations at the Mapplewell Business Park (site of former North Gawber colliery) have been reviewed from BMBC planning records. Evidence of mine workings (voids) were recorded at between 26.7m and 27.8m (1.1m thick) within the Kents Thick coal seam. Separation of the Kents Thick and Thin coal seams is some 20.6m. Geologically, this site lies marginally further to the northeast or down dip compared to the site of interest and, hence, the presence of the Kents Thin at shallow depth. BGS Geoindex information indicates locally that depth to rockhead is between 1.0m and 2.0m, overlain by residual clays.
Mining Remediation Authority Consultants coal mining report	The pertinent points presented in the MRA Consultants coal mining report are: 5no. seams of worked coal are recorded beneath the wider site at between 73m and 323m, last worked in 1968. Any associated ground movement should have ceased by now. Additionally, the site is in an area where there are coal seams at or close to the surface that may have been mined in the past and for which no

	records are held. No future underground mining is recorded beneath the site. There are no known mine entries on or within 100m of the site. The site is unaffected by any past opencast coal mining. There is a record of a mining related subsidence claim approximately 130m north relating to Deangate Nursing Home. None are recorded for the site/wider site itself. (An additional claim relates to property 385, Darton Lane some 115m northwest, as identified from BMBC planning records). There are no records of any mine gas emissions requiring action within 500m of the site. The wider site is in an area for which notices to withdraw support were given in 1947 and 1979.
Shallow mining	The MRA online Map Viewer indicates the site to lie within a Development High Risk Area. Additionally, the site lies within an area of probable past shallow mining.
Surface mining and Quarrying	The MRA online Map Viewer records a nearby area of past unlicensed surface coal mining approximately 100m southeast of the site. None impact the site itself.

4. Risk assessment

4.1 The potential risks to the redevelopment of the site associated with the coal mining legacy of the locality are summarised in the following table.

Coal mining issue	Risk		Risk assessment (Risk rating)
	Yes	No	
Underground coal mining (recorded at shallow depths)	-	No	No historic shallow mine workings are recorded beneath the site – Low
Underground coal mining (probable at shallow depths)	Yes	-	Intrusive investigations locally have confirmed past shallow mine workings within the Kents Thick coal seam. Abandonment plans also confirm working of the Kents Thick coal seam locally. Such mine workings could extend beneath the site itself. The site lies within a DHRA and area of past probable shallow mining – High
Mine entries (shafts and adits)	Yes	-	No mine entries recorded on site or within close proximity. Adits are identified associated with the outcropping Kents Thick coal seam locally. Consequently, unrecorded mine entries may be present on site – Low to Moderate
Coal mining geology (fissures)	-	No	MRA information and published geology do not indicate any faults or geological weaknesses recorded at the site as a consequence of mining related activities – Low
Record of past mine gas emissions	Yes	-	MRA information states no mine gas related issues in the locality. However, given the presence of recorded deep mining beneath the site together with nearby recorded shallow mine workings and on site probable shallow workings, generation of mine gases is possible – Low to Moderate
Recorded coal mining surface hazard	Yes	-	MRA information records 2no. subsidence claims within 130m of the site. No mining surface hazards are recorded on the site itself – Moderate

Surface mining (opencast workings including clay pits)	-	No	MRA information indicates past opencast workings some 100m southeast. However, none impact the site itself – Low
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5. Discussion

5.1 The risk assessment above highlights several potential risks posed to the site during redevelopment, namely probable former shallow coal mine workings, past mine entries, associated mine gas emissions and surface mining hazards, cumulatively assessed as **low to high**. These risks are discussed in turn more fully below.

Probable shallow mine workings

5.2 The Kents Thick coal seam is conjectured as outcropping approximately 90m southwest underlying the site at shallow depth and is recorded as having been historically worked locally to the site. The Barnsley Rider coal seam is conjectured as outcropping approximately 350m southwest and may underlie the site at shallow depth, itself historically worked locally. Using an angle of dip of 6° and taking into account the elevation difference, it is estimated that the Kents Thick coal seam is likely to be present beneath the site at between 15m and 20m and the Barnsley Rider coal seam at between 55m and 60m below the surface. Supporting information indicates a thickness of between 0.89m and 2.38m for the Kents Thick coal seam, the latter including associated fireclays. Given the variance in possible total extraction thicknesses and depth, there is considered to be *insufficient* competent rock cover above the Kents Thick seam to maintain surface stability in the event of this seam having been worked beneath the site. This assumption is based upon having a minimum of 10 times (10t) intact coal (and fireclay) seam thickness of competent rock strata as present above the coal seam. With regard to the Barnsley Rider coal seam, taking a maximum seam thickness of 0.61m there is considered sufficient thickness of competent rock cover above this to maintain surface stability even if the overlying Kents Thick coal seam has been worked. The surface stability at the site cannot be guaranteed in the absence of intrusive works. Such intrusive investigations will determine whether mine workings are present within the Kents Thick coal seam and to what extent and confirm the depth of the coal seam, its thickness and the nature and competence of the overlying strata. The risk of any associated surface movement is therefore assessed as **high**.

Mine entries

5.3 Due to the presence of the Kents Thick coal seam at shallow depth beneath the site together with numerous former mine entries (adits and shafts) attributed to this seam and recorded within the vicinity of the site, the presence of on site unrecorded former mine entries associated with the exploitation of this coal seam cannot be discounted. Pre 1872, it was not a statutory requirement to record mine entries and mining plans. Such features are considered as presenting a potential risk to development by way of instability and potential collapse. The risk of any associated surface movement is therefore assessed as **low to moderate**.

Mine gas

5.4 The potential for upward migration of mine gases beneath the site cannot be discounted. Such gases are particularly prevalent in former pillar and stall workings that remain open and allow them to build up over time. Multiple deep mined coal seams are recorded beneath the site and probable shallow mine workings may exist beneath the site. The presence of an outcropping coal seam (Kents Thin) on the wider site could act as a preferential pathway for mine gas migration. Mine gases pose a potential significant human health risk to the future end users of new development and existing users of adjacent buildings. The risk is assessed as **low to moderate**.

Coal mining surface hazards

5.5 The aforementioned hazards associated with probable shallow mine workings beneath the site and potential unrecorded mine entries on the site are collectively mining surface hazards. Their consideration as a plausible risk at the site is given more significance by the 2no. subsidence claims recorded for neighbouring properties located with 130m of the site. Also, one of these properties lies in a similar geological setting as the area of proposed development in that it is underlain by the Kents Thick coal seam at shallow depth. In order to better assess such risks, intrusive investigations are considered necessary. In the context of there being no mining surface hazards recorded on the site itself and several records recorded locally, the risk of any associated surface movement is therefore assessed as **moderate**.

6. Proposed mitigation strategy

6.1 A review of geological and historical mining information at the site has shown that there remains a **high** risk to surface stability from probable shallow mine workings beneath the site. Additionally, there is a **low to moderate** risk for the site to be affected by unrecorded mine entries and potential mine gas emissions.

Probable shallow mine workings

6.2 Geological, historical mining records and nearby intrusive information demonstrate there to be a definite risk presented by unrecorded shallow mine workings within the Kents Thick coal seam present beneath the site. It would be prudent, therefore, to undertake proof drilling across the site to confirm the depth to rockhead and depth to/nature of the underlying coal seams (and associated fireclays). Boreholes should be put down to a maximum depth of 30m below existing ground levels with appropriate permission and licences obtained from the Mining Remediation Authority prior to commencing any such works. If shallow mining is proved as presenting a risk to the surface stability of the site, then drilling and grouting works may be required to consolidate the workings. Alternatively, modified foundation design may be appropriate in lieu of treatment of mine workings, subject to findings of an intrusive investigation and regulatory approval.

Mine entries

6.3 The presence of unrecorded mine entries should be confirmed. During site enabling works and a site strip the exposed sub soils should be checked for the presence of disturbed and potentially unstable ground associated with backfilling of such features. If mine entries are identified on the site, then these may require treatment by grouting and capping at the surface and the siting of new development over these features should be avoided.

Mine gas

6.4 The incorporation of robust gas protection measures during construction are considered likely within the new development. However, such measures are inherently incorporated within the

construction of new buildings by way of use of a well-constructed floor slab offering a passively vented underfloor void (if suspended), incorporation of a radon protection membrane (as appropriate) and a damp proof membrane together with the sealing of service entries. The nature of the proposed warehouse structure would provide a larger internal open space to facilitate circulation of air. A gas monitoring programme may be warranted, subject to specialist advice. It is recommended that advice and approval is sought from regulators at an early stage with regard to the scope and specification of appropriate gas protection measures within the new development.

7. Conclusions

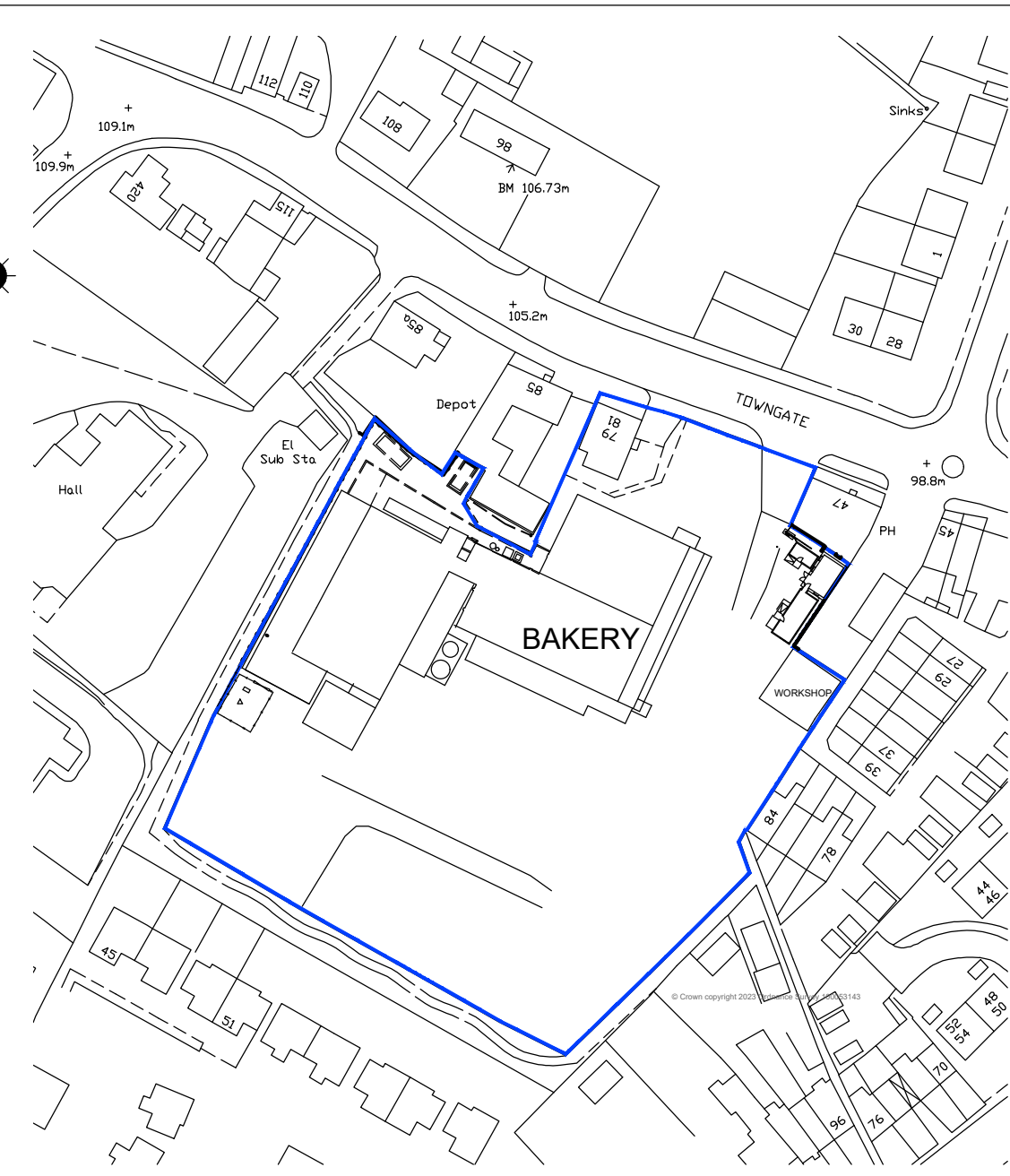
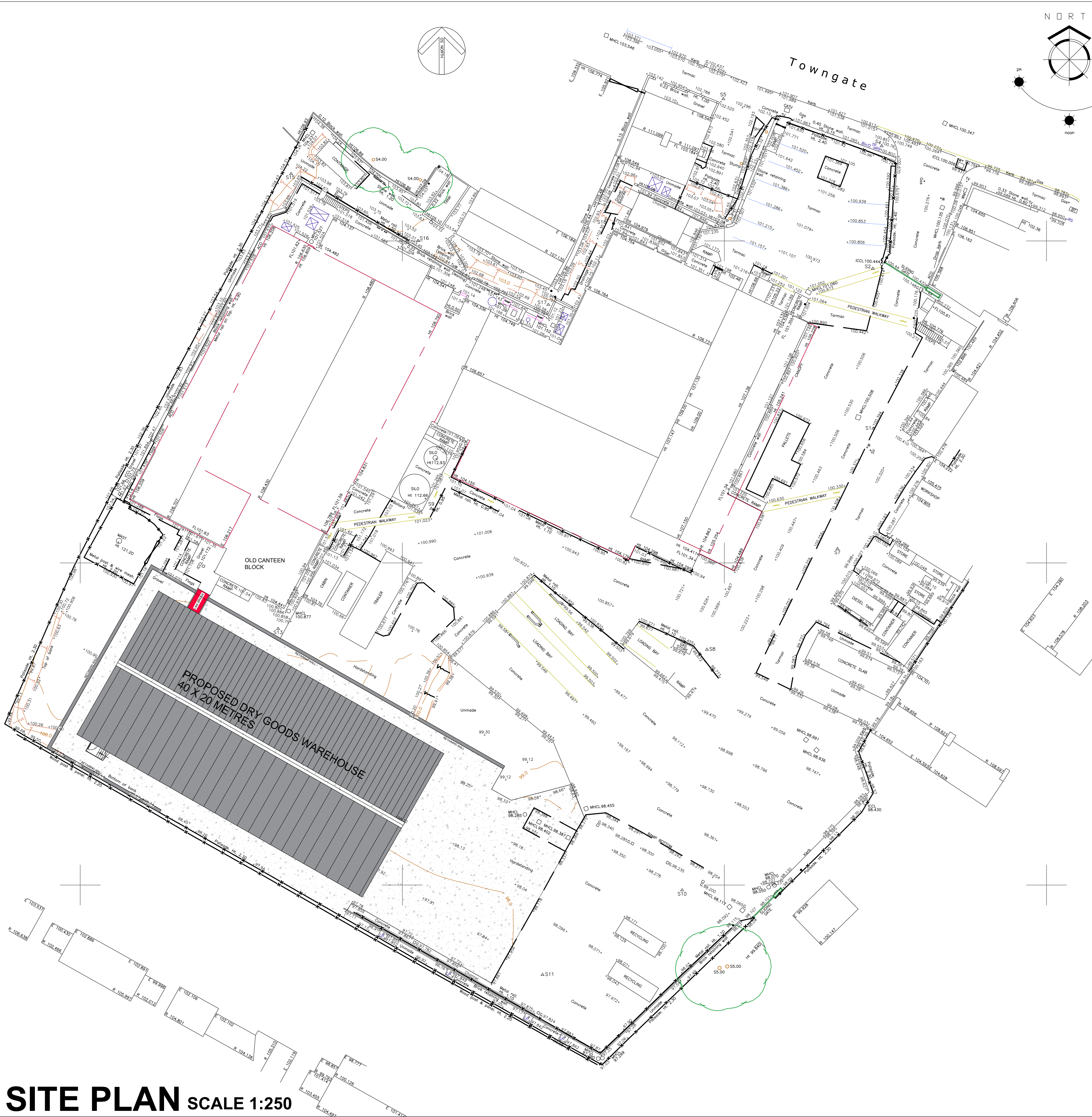
7.1 There is a potential risk posed to the redevelopment of the site from shallow mine workings that may be present in the underlying Kents Thick coal seam. Such risks comprise surface instability from collapse of past mine workings. Proof drilling is recommended to better understand these risks.

7.2 In addition, as there can never be total certainty with regard to unrecorded mine entries, the developer should be made aware of this possibility during site stripping and excavation for foundations. Any evidence of the suspected presence of former mine entries should be investigated further.

7.3 Specialist advice should be sought with regard to potential risks from mine gas. Early communication with regulators is recommended as to the requirement for protective measures against ground (mine) gases within the new development.

Appendix A

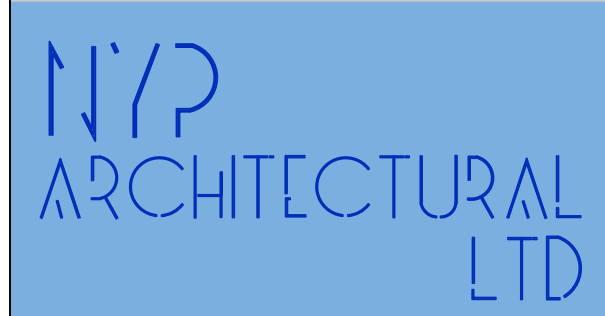
Site location plan and development layout



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Revisions.		
Date	Suffix	Description

Notes.



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Project.
**FOSTER BAKERY
TOWNGATE
MAPPLEWELL
BARNSELEY
S75-6AS**

Drawing Title.
**SITE PLAN
AS PROPOSED**

Client.
MR J. FOSTER

Date.
FEB 2026

Scale.
AS INDICATED

Ref.	Dwg. No.	Rev.
2026/21	02	.

Appendix B

Mining Remediation Authority consultants coal mining report



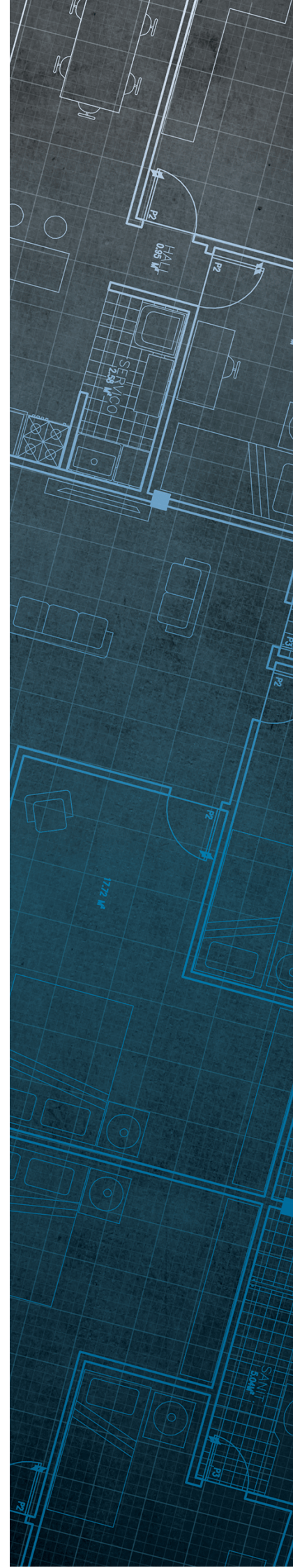
The Coal
Authority

Consultants Coal Mining Report

Fosters Bakery
Towngate
Mapplewell
Barnsley
Barnsley
S75 6AS

Date of enquiry:	30 March 2026
Date enquiry received:	30 March 2026
Issue date:	30 March 2026

Our reference:	51003561506001
Your reference:	25-CS-159



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	BARNLEY	Coal	6Y52	73	Beneath Property	5.3	North-East	332	1861
NORTH GAWBER	BARNLEY	Coal	64P3	81	Beneath Property	7.9	North-East	277	1850
NORTH GANBER	TOP HAIGH MOOR	Coal	640X	134	Beneath Property	3.6	East	94	1949
WOOLLEY	LOW HAIGH MOOR	Coal	164P	136	West	3.6	East	60	1937
unnamed	TOP HAIGH MOOR	Coal	6Y82	137	Beneath Property	5.6	North-East	99	1950
unnamed	LOW HAIGH MOOR	Coal	6Y04	142	West	5.1	North-East	69	1937
DARTON	LIDGETT	Coal	64P9	177	Beneath Property	3.7	East	72	1931
unnamed	LIDGETT	Coal	6Y43	182	Beneath Property	5.5	North-East	76	1928
unnamed	FENTON	Coal	6Y83	275	Beneath Property	5.9	North-East	210	1968
WOOLLEY	FENTON	Coal	64PS	277	Beneath Property	4.9	East	175	1965
WOOLLEY	MIDDLETON MAIN	Coal	64OB	316	West	5.9	North-East	61	1953
unnamed	MIDDLETON MAIN	Coal	6Y05	322	Beneath Property	5.0	North-East	126	1956
WOOLLEY	MIDDLETON MAIN	Coal	64PC	323	Beneath Property	4.9	North-East	112	1957
unnamed	WHEATLEY LIME	Coal	6Y34	329	West	6.8	North-East	69	1961
WOOLLEY	WHEATLEY LIME	Coal	64PE	331	South-West	4.3	North-East	69	1961
WOOLLEY/REDBROOK	SILKSTONE	Coal	X05	348	South-West	4.0	North-East	115	1980
WOOLLEY	SILKSTONE	Coal	X06	369	North-West	5.4	North-East	118	1981

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

BE29	7083	SCC12
NE1033	BE26	NE868
NE863	NE816	NE158

Our records show we have more plans than those shown above which could affect the enquiry boundary.

For assistance in identifying the specific abandoned mine plans relevant to your requirements, **please contact us at InformationManagers@MiningRemediation.gov.uk**.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
KENTS THIN	Coal	Yes	Within	N/A	125
KENTS THIN	Coal	Yes	Within	N/A	315

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

There is a claim within 50 metres of the property boundary that does not match the property address. This is shown on the enquiry boundary plot.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.miningremediation.co.uk.

See Section 4 for further information.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1947 and 1979.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please email us at reports@miningremediation.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **email us at reports@miningremediation.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown 
- Outcrop (Conjectured) 
- Unlicensed opencast site 
- Coal claim 

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