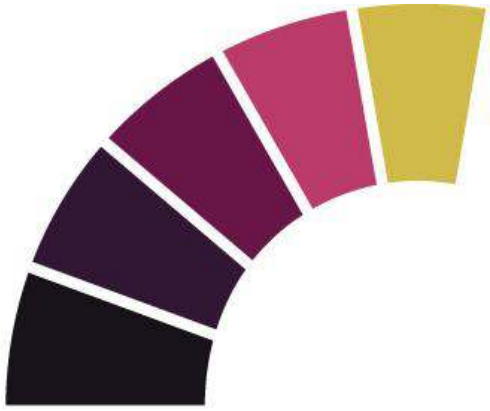
COAL MINING RISK ASSESSMENT AND COAL RECOVERY REPORT

Higham Common Road Roundabout Barnsley West

Reference	**4848-JPG-XX-XX-RP-G-0607-S2-P01**
Date	**December 2019**
Author	**JAM**

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APPENDICES

Appendix A Figures & Drawings

Figure 1 Site Location Plan
Figure 2 Aerial Photograph

JPG. Higham Common Road Roundabout, Conceptual Ground Model. Barnsley West. Dwg no. 4848-JPG-XX-00-DR-G-1150-S2-P01. Dated December 2019.

Fore Consulting. General Arrangement – Link Road. Barnsley West. Job/Dwg No: 9014 – 100-SK-1000. Dated 02 October 2019 for Strata Sterling Barnsley West Ltd.

Appendix B Coal Authority Mining Reports

CONFIDENTIALITY STATEMENT

This report is addressed to and may be relied upon by the following:

Strata Sterling Barnsley West Limited
Quay Point
Lakeside
DONCASTER
DN4 5PL

This report has been prepared for the sole use and reliance of the above-named party. This report shall not be relied upon or transferred to any other parties without the express written authorisation of JPG (Leeds) Limited. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party.

DOCUMENT HISTORY

Rev	Date	Revision Details	Status	Author(s)	Approved
P01	05.12.2019	First Issue	Information	JAM	JBW

1.0 APPLICATION

Strata Sterling Barnsley West Limited is to submit a planning application for the proposed roundabout on Higham Common Road (the 'site'), which forms an access to the overall Barnsley West development area.

JPG (Leeds) Ltd has been commissioned to prepare a Coal Mining Risk Assessment Report for the proposed roundabout, in order to provide the Local Planning Authority with information on coal mining and an assessment of its impact on land stability.

1.1 Site Location and Description

The site is located approximately 3km to the west of Barnsley town centre. The approximate centre of the site is located at NGR 431413, 406749. It is to the north east of the M1 motorway, along Higham Common Road. A site location plan is presented as Figure 1 in Appendix A.

The site is irregular in shape and occupies an area of approximately 0.48 hectares. Ground levels are approximately 145m AOD in the south generally falling to approximately 143m AOD in the north. Higham Common Road falls gently from the south to the north.

The site generally consists of arable and grazing land in the east and Higham Common Road in the west. The road and the farmland are separated by a barbed wire fence and a row of mature trees.

Arable and grazing farmland, residential housing and a restaurant is located to the north of the site. The eastern boundary is formed by more arable and grazing farmland. The M1 motorway is located to the south. Residential properties are located to the west.

1.2 Description and Layout of Proposed Development

It is proposed to develop the site with a new roundabout. The roundabout will provide access into the larger proposed Barnsley West development site.

A drawing of the proposed development has been provided, which is referenced below and a copy is contained in Appendix A.

- Fore Consulting. General Arrangement – Link Road. Barnsley West. Job/Dwg No: 9014 – 100-SK-1000. Dated 02 October2019 for Strata Sterling Barnsley West Ltd.

1.3 Scope of the Coal Mining Risk Assessment

The purpose of the Coal Mining Risk Assessment Report 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 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.
- 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.

2.0 SOURCES OF INFORMATION USED TO INFORM THIS REPORT

Sources of information upon which this risk assessment of coal mining is based are detailed below.

- The Coal Authority. Consultants Coal Mining Report. Higham Common Road, Higham, Barnsley, S75 1PW. Ref 51002193991002. Date of issue 8 November 2019.
- The Coal Authority. CON29M Non-Residential Mining Report. Higham Common Road, Higham, Barnsley, S75 1PW. Ref 51002193991001. Date of issue 8 November 2019.
- The Coal Authority. Abandonment Plan (Ref NE375 Hunters Cottage and Extension).
- British Geological Survey, Sheet SE30NW (Barnsley), at 1:10,000 Scale, dated 2005.
- JPG. Geoenvironmental Desk Study Report. Barnsley West. Ref JBW/DS/4848.v2. Date of issue July 2019.
- JPG. Preliminary Geoenvironmental Ground Investigation. Barnsley West. Ref 4848-JPG-SW-XX-RP-G-0603-S2-P01. Date of issue July 2019.
- Sections of Strata of the Coal Measures of Yorkshire (3rd edition, 1950).
- CIRIA Special Publication 32. *Construction Over Abandoned Mine Workings*. Dated 1984.
- CIRIA C758D *Abandoned mine workings manual*. London, 2019.

The above referenced Preliminary Geoenvironmental Ground Investigation report by JPG includes details of intrusive ground investigation works comprising 28 rotary boreholes and 14 trial pits carried out on the wider proposed development land.

As part of the above JPG 2019 investigation BH121 and TP108 were carried out in the vicinity of the roundabout. The strata encountered in these exploratory holes is summarised below.

BH121
NGR 431417.07, 406718.02
Ground level 144.67m AOD

Depth (m bgl)	Proven Ground Conditions
0.00 – 0.20	Topsoil.
0.20 – 0.50	Brown clay fill.
0.50 – 3.40	Grey mudstone.
3.40 – 6.30	Brown grey mudstone.
6.30 – 8.00	COAL with interbedded mudstone (Top Haigh Moor).
8.00 -14.60	Grey mudstone.
14.60 – 15.00	COAL (Low Haigh Moor - top leaf).
15.00 – 16.00	Grey mudstone.
16.00 – 16.50	COAL (Low Haigh Moor - bottom leaf).
16.50 – 17.40	Mudstone.
17.40 – 21.00	Grey sandstone.
21.00 – 24.40	Grey mudstone.
24.40 – 26.40	Grey sandstone.
26.40 – 29.20	Grey mudstone.
29.20 – 29.50	Coal.
29.50 – 30.30	Grey mudstone.
30.30 – 33.50	Grey brown sandstone.
33.50 – 37.50	Grey mudstone.
37.50 – 40.00	Grey sandstone.

TP108
NGR 431410.64, 406707.87
Ground level 144.79m AOD

Depth (m bgl)	Proven Ground Conditions
0.00 – 0.10	Reworked topsoil.
0.10 – 0.40	Reworked natural.
0.40 – 0.55	Reworked natural.
0.55 – 2.80	Reworked natural.
2.80 – 3.40	Firm slightly sandy slightly gravelly clay.

A conceptual ground model (JPG drawing no. 4848-JPG-XX-00-DR-G-1150-S2-P01) has been prepared for the site and is presented in Appendix A.

3.0 IDENTIFICATION AND ASSESSMENT OF SITE SPECIFIC COAL MINING

Coal Mining Issue	Yes	No	Remarks
Surface mining (opencast workings)		No	The site is not located within the boundary of an opencast site from which coal has been removed by opencast methods, according to the Coal Authority Mining Report. A large opencast coal site (OCCS), known as Hunters Cottage & Extensions, is located 276m east and 259 north east of the site, respectively. The proposed roundabout will not be affected by this opencast.
Underground coal mining.	Yes		The Consultants Coal Mining Report and CON29M Non-Residential Mining Report, included in Appendix B, states that the site is affected by past recorded underground coal mining in five coal seams from 90m to 280m depth, last worked in 1966. Based on their depth, respective seam thicknesses and the reported vertical seam separation, any workings in these seams are not considered to pose a risk to the surface stability of the site. The Top Haigh Moor coal seam is shown to outcrop approximately 10m to the west of Higham Common Road. Based on strata dip and topography, the Top Haigh Moor coal seam will be present at shallow depth below the site. The Top Haigh Moor coal seam has a recorded thickness of between 0.69m and 1.19m (based on the generalised vertical section included on the 1:10,000 scale map). The Top Haigh Moor coal seam is underlain by the Low Haigh Moor coal seam with a recorded seam separation of approximately 8m. The Low Haigh Moor coal seam has a recorded thickness of between 0.69m and 1.19m. The Coal Authority believes there is coal at or close to the surface which may have been worked at some time in the past. During the 2019 JPG site investigation a borehole (BH121) was carried out adjacent to the proposed footprint of the roundabout. Four coal seams were encountered in this borehole, between 6.30m and 8.00m bgl (1.70m thick), 14.60m and 15.00m bgl (0.40m thick), 16.00m and 16.50m bgl (0.50m thick) and 29.20m and 29.50m bgl (0.30m thick). It is considered that the shallow coal seams encountered are representative of the Top Haigh Moor, the Low Haigh Moor (two leaves) and a thin coal seam. The next named seam beneath the Low Haigh Moor is the Lidget Seam. Based on the depth and the recorded coal seam separation, the Lidget seam (and any coal seam below) is not considered to pose a risk to the surface stability of the site. If any underground coal workings are proven, mitigation measures will be required; these are outlined in Section 4.
Mine entries (shafts and adits)		No	There are no known mine entries on the site or within 20m of the site boundary, according to the CA mining reports. However, the presence of unrecorded mine entries (shafts, adits or bell pits) cannot be discounted.
Coal mining geology (fissures/faults)		No	There are no faults recorded on the site. No fissures or breaklines are indicated on the site. The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.
Record of past mine gas emissions		No	No records of past mine gas emissions have been recorded within 500m of the site. As part of the 2019 JPG site investigation ground gas monitoring wells were installed in the opencast. Preliminary ground gas monitoring of the wells installed in the opencast confirms elevated concentrations of carbon dioxide.
Recorded coal mining surface hazard		No	The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50m of the enquiry boundary, since 31 October 1994. 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.

4.0 MITIGATION STRATEGY PROPOSED

4.1 Underground Coal Workings

There is a risk from potentially unrecorded underground shallow coal workings in the Top Haigh Moor seam and Low Haigh Moor seam where insufficient rock cover is present, possibly leading to progressive failure.

A site-specific coal mining investigation, including further rotary boreholes, is required to confirm the absence or otherwise of unrecorded underground coal workings below the footprint of the proposed roundabout.

If shallow coal workings are proven, mitigation measures are likely to comprise the drilling and grouting on a 3m grid below the footprint of the proposed highway. A Permit to Treat the coal workings will be required from the Coal Authority.

Pavement (road construction) design will need to take into consideration the presence of the treated underground workings (if proven below the site).

4.2 Mine Entries

There are no recorded mine entries below the site which could affect the surface stability of the future development.

However, there is a residual risk of unrecorded mine entries, including bell pits. Vigilance will need to be maintained during any groundworks and if a suspected mine entry is encountered, advice should be sought from a suitably qualified person.

4.3 Coal Mining Geology (Coal Seams/Fissures/Faults)

Any coal seams and/or coal-rich soils shall be removed from near the finished surface of the site. Where coal is encountered during excavations, it should be treated as 'Incidental coal' and will need to be removed at least 1m below the finished ground level and from service corridors.

There are no faults recorded on the site. No fissures or breaklines are indicated on the site.

4.4 Ground Gas

Potential sources of ground gas include: deep made ground associated with the backfilled opencast to the east and coal/mines gas associated with the deep underground coal workings and possible unrecorded shallow coal workings and coal seams.

Although there are no recorded mine gas emission incidents within 500m of the site, ground gas hazards in relation to construction workers on the site will need to be taken into consideration by the principal contractor as part of their Health and Safety requirements.

4.5 Other

During the 2019 JPG site investigation calorific value (CV) tests were carried out on nine samples of colliery spoil, one of made ground and one of residual soil. One of the 11 samples (TP108 - 7.1MJ/kg, positioned within the area of the proposed roundabout footprint) recorded a CV of >2MJ/kg and is therefore deemed to be potentially combustible.

Although the made ground and shallow natural soils below the site are still not expected to contain any significant quantities of coal debris, it will be necessary to obtain further samples and test for calorific value as part of future ground investigation works.

Any potentially combustible soils will need to be removed at least 1m below the finished ground level and from service corridors.

5.0 COAL RECOVERY

The site is located within a Surface Coal Resource Area, in accordance with the Coal Authority Interactive Map.

The Top Haigh Moor coal seam is recorded to outcrop to the west of the site and has a recorded thickness of between 0.69m to 1.19m. The upper and lower leaves of the Low Haigh Moor coal seam are recorded to outcrop 14m and 20m south west of the site respectively. The Low Haigh Moor has a recorded thickness of between 0.43m to 1.02m.

As part of the 2019 JPG site investigation, the proven thickness of the Top Haigh Moor and the upper and lower leaves of Low Haigh Moor in that area is 1.70m, 0.40m and 0.50m respectively.

There is the potential for the extraction of the coal seam(s) where present at very shallow depth during future earthworks operations. Where this 'incidental' coal is present in areas of development, it will be limited in volume and the economic value will need to be assessed.

Should it be viable to extract the coal and remove it from site for its economic value, a 'Incidental Coal Agreement' between the Coal Authority and the Site Operator is required. This is an 'Agreement to Dig and Carry Away Coal in the Course of Non-Mining Activities'. A report detailing the extraction of coal and any historical mine workings encountered will need to be submitted to the Coal Authority on completion of any extraction.

6.0 CONCLUSION

Following implementation of the above mitigation methods, as outlined in Section 4 above, with regard to the site's coal mining legacy, the site can be considered suitable for redevelopment.

Coal may be encountered during the earthworks operations. Any coal encountered shall be treated as 'incidental' and an agreement to remove the coal from the Coal Authority will be required.

J Morley
B.Sc. (Hons.), M.Sc., F.G.S
For and on behalf of JPG (Leeds) Limited

December 2019

Appendix A Figures & Drawings



Figure 1 – Site Location Plan	
Site	**Higham Common Road Roundabout, Barnsley West**
Client	**Strata Sterling Barnsley West Limited**
Job Number	**4848**
Scale	**NTS**

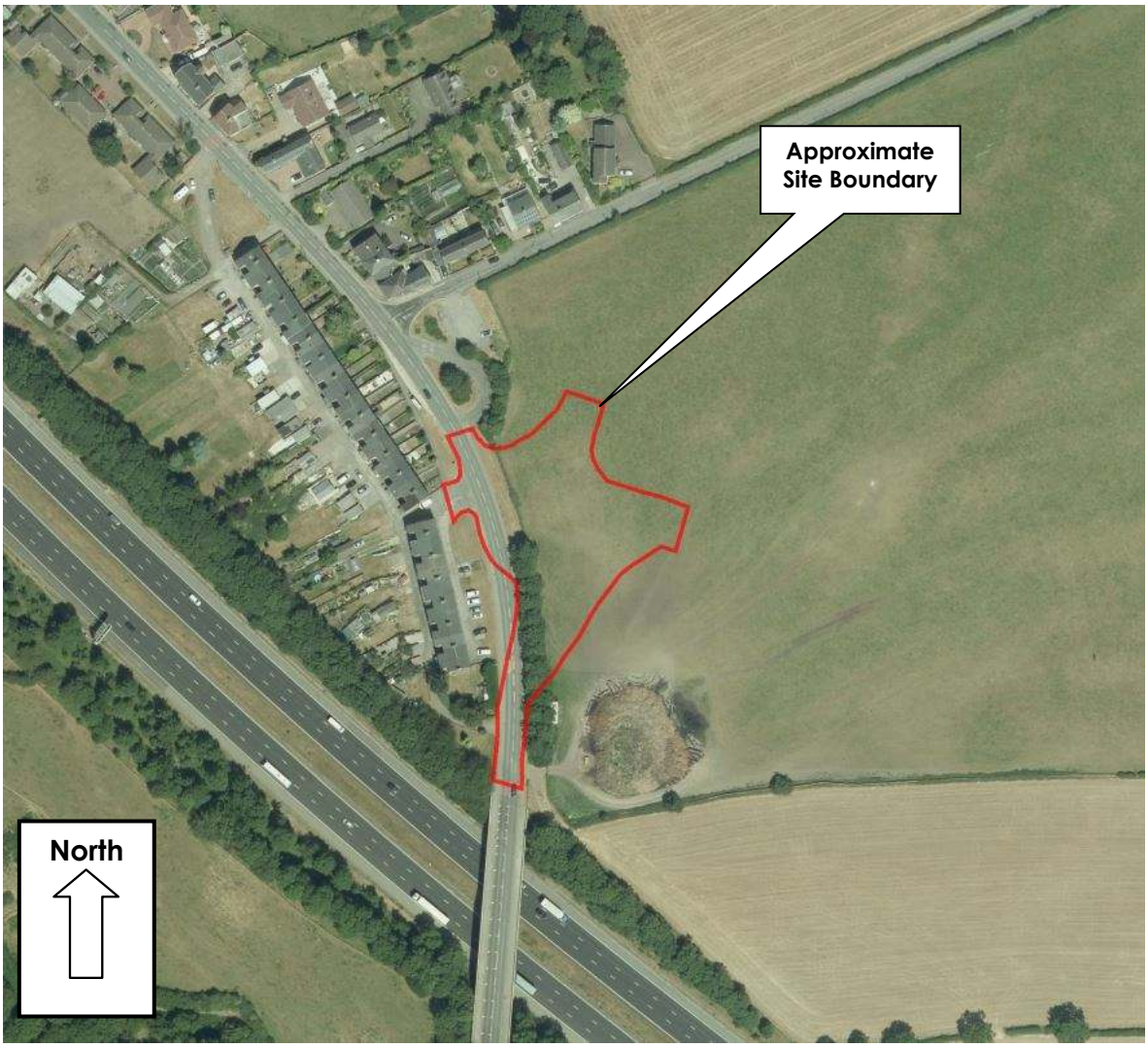


Figure 2 – Aerial Photograph	
Site	**Higham Common Road Roundabout, Barnsley West**
Client	**Strata Sterling Barnsley West Limited**
Job Number	**4848**
Scale	**NTS**

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DO NOT SCALE

NOTES

JPG 2019 Site Investigation

BH121 — Rotary Borehole Location

TP10B — Trial Pit Location

Site Investigation Locations Surveyed Using Leica Geosystems, GNSS Rover

BGS Information

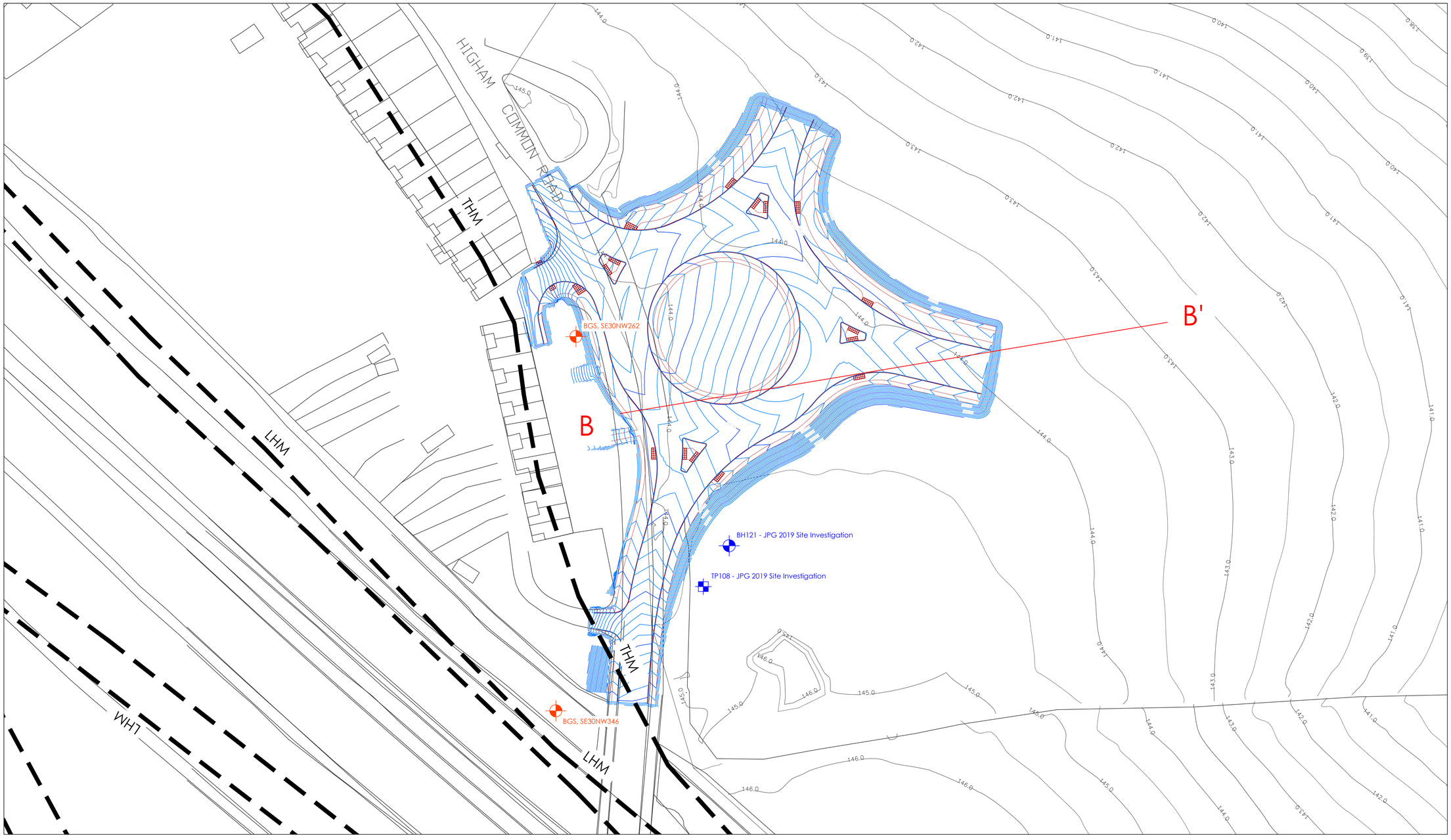
SE30NW262 — Borehole/ Trial Pit Location

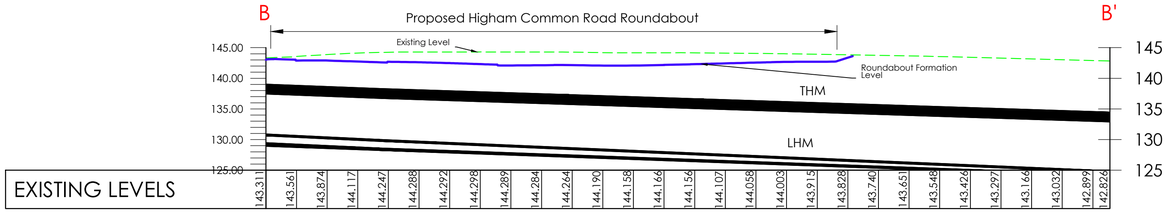
Locations Are Approximate

Projected Fault

Projected Coal Seam Outcrop

Formation Levels.





EXISTING LEVELS

SECTION B-B'
SCALE 1:500

Projected Coal Seams And Opencast Profile Have Been Established Using Historic Opencast Abandonment Plan 'OE/COMP/O3/311, Craven I & II', BGS Information & JPG 2019 Site Investigation Findings. True Thickness And Level Of Projected Coal Seams In This Area To Be Confirmed With Further Site Investigation.

REV	DESCRIPTION	DATE	BY
P01	FIRST ISSUE.	04.12.19	OLT

Project
BARNSLEY WEST

Drawing Title
HIGHAM COMMON ROAD
ROUNDABOUT
CONCEPTUAL GROUND MODEL

INFORMATION ISSUE

Architect
BOND BRYAN

JPG
www.jpg.group
Leeds London Birmingham 0113 263 1155

JPG Project Ref	Scale at A1	Date	Checked	Drawn
4848	1:500	DEC'19	JBW	OLT

4848 - JPG - XX - 00 - DR - G - 1150 | S2 | P01

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N O T E S

GENERAL NOTES

a. THE TOPOGRAPHICAL SURVEY IS BASED ON INFORMATION PRODUCED BY HAYCOCK & TODD, JOB NO. S7970, FILE NAME S7970-3D-BARNSLEY WEST.DWG. THE INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER FORE INFRASTRUCTURE DESIGNS AND DRAWINGS IS NOT WARRANTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURVEY INFORMATION PROVIDED AND REPORT ANY ANOMALIES TO FORE INFRASTRUCTURE.

DESIGN NOTES

1. ALL DESIGN AND WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
   - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB);
   - SPECIFICATION FOR HIGHWAY WORKS (SHW);
   - MANUAL FOR STREETS (MFS); AND
   - BARNSLEY METROPOLITAN BOROUGH COUNCIL (BMBC) DESIGN GUIDE AND SPECIFICATION.

north

BARUGH GREEN ROAD ROUNDABOUT GEOMETRICAL LAYOUT SUBJECT TO BARNSLEY COUNCIL APPROVAL

ROUNDABOUT GEOMETRICAL LAYOUT SUBJECT TO TRAFFIC ANALYSIS AND ARCHITECT LAYOUT REQUIREMENTS

ROUNDABOUT GEOMETRICAL LAYOUT SUBJECT TO TRAFFIC ANALYSIS AND ARCHITECT LAYOUT REQUIREMENTS

HIGHAM COMMON ROAD ROUNDABOUT GEOMETRICAL LAYOUT SUBJECT TO BARNSLEY COUNCIL APPROVAL

REV	DESCRIPTION	DATE	BY

Client:
STRATA STERLING BARNSLEY WEST LTD

Project
BARNSLEY WEST

Drawing Title
GENERAL ARRANGEMENT - LINK ROAD

FOR COMMENT

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Drawn by	Checked by	Issue Date	Scale	Format
ML	PI	02.10.2019	1:2000	A1

Job Number	Drawing Number	Revision
9014	100-SK-1000	-

Appendix B Coal Authority Mining Reports

The Coal Authority

CON29M
coal mining report

HIGHAM COMMON ROAD, HIGHAM, BARNSLEY, S75 1PW

Known or potential coal mining risks

Past underground coal mining	Page 4
Future underground coal mining	Page 4
Mine entries	Page 5

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

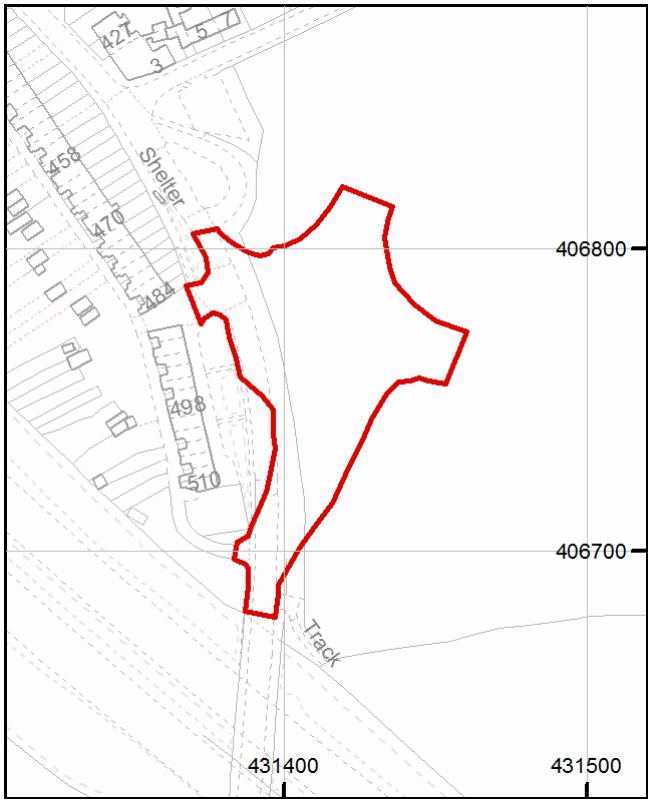
Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. In view of the coal mining circumstances we would recommend that any planned or future development should follow detailed technical advice before beginning work on site. Please see page 3 for further details on Future development.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

Map data

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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion

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. 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.

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on 0345 762 6848 or email cmra@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

The Coal Authority owns the copyright in this report and the information used to produce this report is protected by our database rights. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 5 seams of coal at 90m to 280m depth, and last worked in 1966.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

In addition the property is in an area where the Coal Authority believes there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered, particularly prior to any site works or future development activity, as ground movement could still be a risk. Your attention is drawn to the Professional opinion sections of the report.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

This information is based on the information that the Coal Authority has at the time of this enquiry.

Based on the Coal Authority's knowledge of the mining circumstances at the time of this enquiry, there may be unrecorded mine entries in the local area that do not appear on Coal Authority records.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

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.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

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.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 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.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 01623 646 333. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

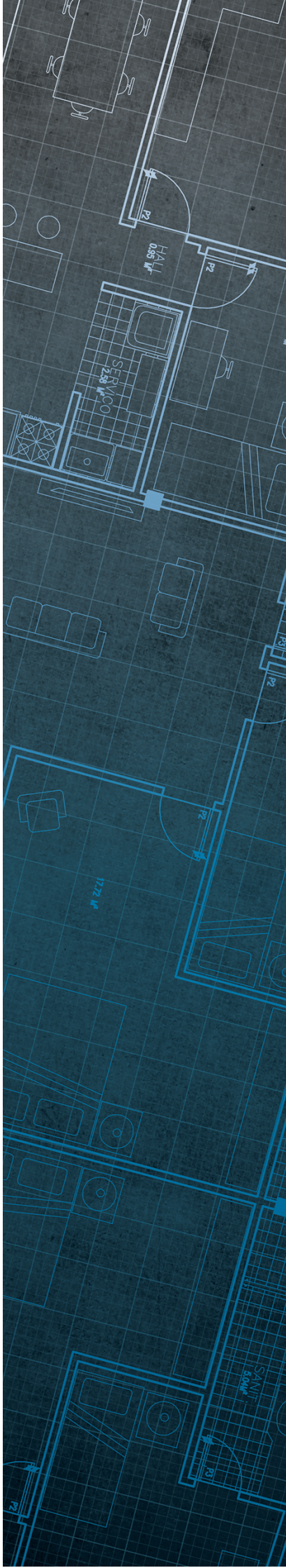
The Coal Authority

Consultants

Coal Mining Report

Higham Common Road
Higham
Barnsley
S75 1PW

Date of enquiry:	**8 November 2019**
Date enquiry received:	**8 November 2019**
Issue date:	**8 November 2019**
Our reference:	**51002193991002**
Your reference:	**4848_Higham Common Rd**



Consultants
Coal Mining Report

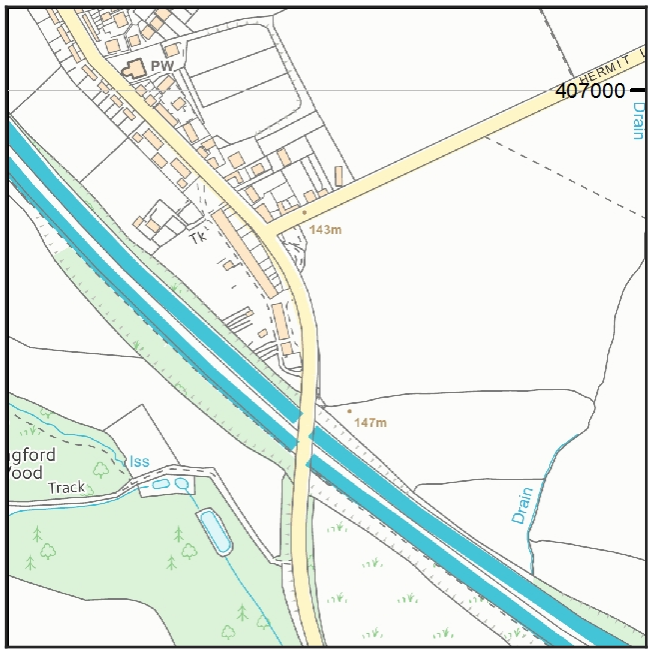
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

JPG (LEEDS) LIMITED

Enquiry address

Higham Common Road
Higham
Barnsley
S75 1PW



Approximate position of property

Map data

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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
DODWORTH	FLOCKTON THICK	Coal	64CW	93	Beneath Property	3.9	North-East	61	1910
DODWORTH	TOP FENTON	Coal	64CR	134	South-East	3.9	North-East	74	1916
unnamed	TOP FENTON	Coal	64CQ	159	North-East	3.4	North-East	74	1930
DODWORTH	PARKGATE	Coal	64CV	161	Beneath Property	2.2	North-East	137	1913
DODWORTH HIGHAM	SILKSTONE	Coal	64D3	244	Beneath Property	4.1	North-East	147	1891
unnamed	SILKSTONE	Coal	64D2	260	North-East	3.4	North-East	147	1927
WOOLLEY/REDBROOK	WHINMOOR	Coal	64D9	281	Beneath Property	4.1	North-East	107	1966

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:

NE565	NE1050	NE584
NE1034	SCC9	NE498
NEST39	M711	9170

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

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

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Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
TOP HAIGH MOOR	Coal	Yes	Within	N/A	320

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.

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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

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

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.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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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 not in an area where a notice to withdraw support has been given.

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.

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Section 4 – Further information

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

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.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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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 **call us on 0345 762 6848** or **email us at groundstability@coal.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.

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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.

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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.

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Summary of findings

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Map data

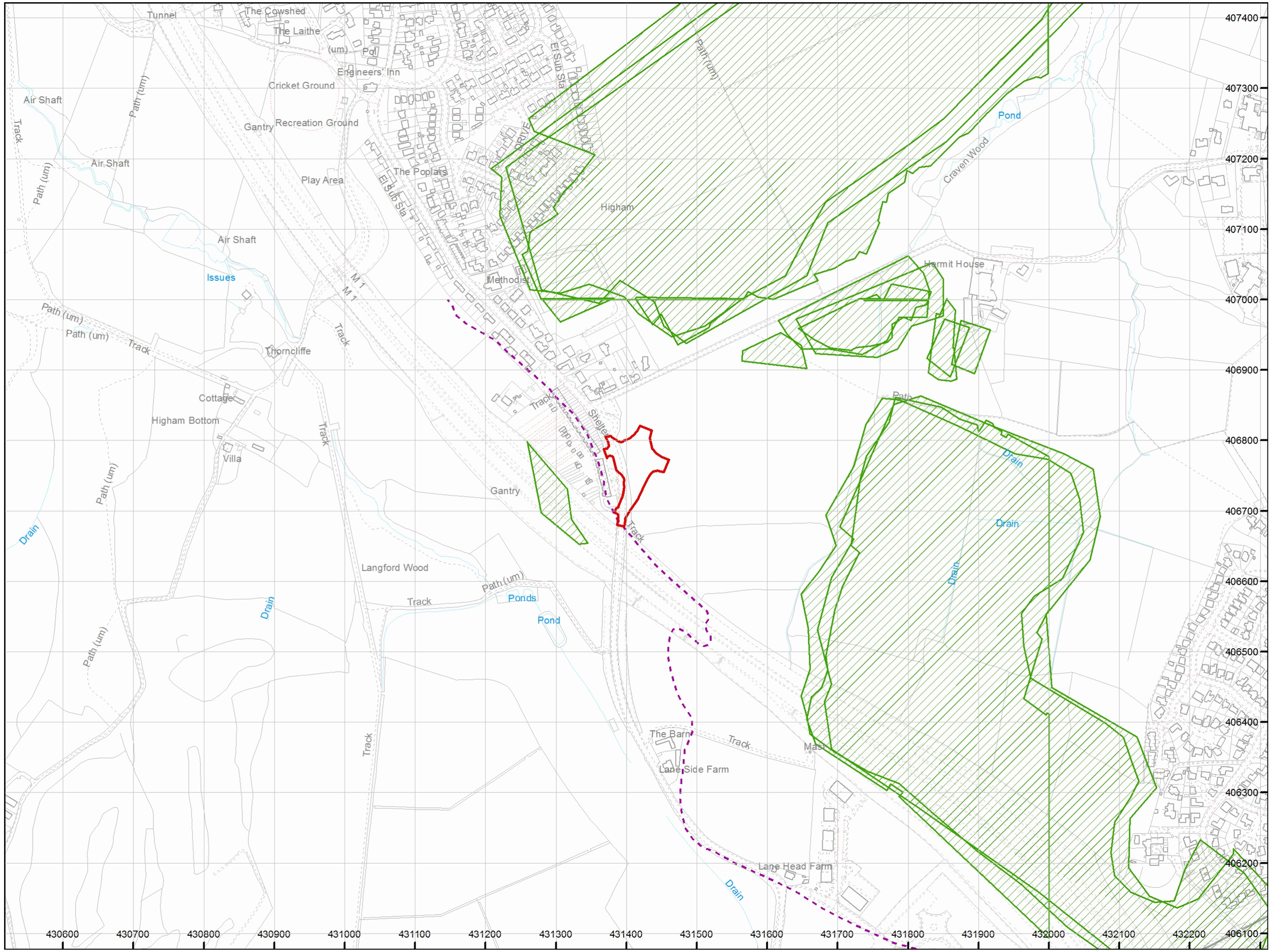
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Outcrop (Conjectured)

Unlicensed opencast site



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