

Coal Mining Risk Assessment

Client: Lidl Great Britain
Ltd

Commercial Street, Risca

Report No: 1137.04.03

January 2025





Executive Summary

Remada Ltd was commissioned by Lidl ('the client') to undertake a Coal Mining Risk Assessment for the proposed site at Commercial Street, Risca NP11 6EE. The objectives of this assessment have been to obtain information relating to the potential legacy of historical coal mining beneath the site and to produce an assessment of those risks in relation to the proposed site development.

It is understood that the proposed site use for the site will be a Lidl retail store with associated car park and soft landscaping.

Site Setting

The site occupies an irregular plot to the south of Commercial Street B4591, north of Ebbw River and 'Dawn to Dusk Autos' beyond the sloping masonry. The site boundary is predominantly marked by the fence at the rear of the commercial properties perpendicular to Commercial Street to the north. With the B4591 running north-east to south-west on the eastern boundary. While the Ebbw River forms the southern boundary of the proposed development, the proposed layout indicates that River bisects the overall property boundary. To the west of the site is an empty plot of land.

Site History

The earliest available historical mapping of 1883 records a railway line in north of the site area that crosses the River Ebbw to access works to the south, but the remainder of the site is undeveloped. By 1901, an embankment had been formed to support railway sidings which increased and reduced in extent and by 1965 the site appears to have been levelled and a building constructed adjacent to the river. In 1977, a second building is recorded in the east of the site which was either extended or replaced by a larger works building by 1982. Tanks are recorded adjacent to each building. By 1982, a warehouse has been constructed running parallel to the Ebbw River; the larger works not being recorded in 1986 but present on the 1993 mapping.

A review of historical maps records no mining activity within an influencing distance to the site.

General

Published Geology

Published BGS mapping indicates the site to be underlain by superficial Alluvium deposits. The BGS describe these as typically comprising 'soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. A stronger, desiccated surface zone may be present.'

The bedrock underlying the superficial deposits is formed of the St Maughans Formation. The BGS describes the stratum as typically comprising 'interbedded purple, brown and green sandstones and red mudstones with intraformational conglomerates containing calcrete clasts'. No coal outcrops are recorded on the BGS mapping within 1km of the study site.

Consultants Mining Report

According to the Coal Authority, there are no recorded mine workings beneath the site and probable unrecorded shallow mining is recorded as 'none'. There are no recorded mine entries within 100m of the site's boundary.

Recommendations

Coal Seams

As the Coal Authority does not record any worked seams at this location, and that probable unrecorded shallow mining is recorded as 'none', no further action is considered necessary.

Mine Entries

There are no mine entries located within the site boundary or within the vicinity of the site.



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Issue No	Date	Prepared By	Technical Review	Authorised
01	17.09.2024	L Hillman <i>L Hillman</i>	P Dickinson <i>P Dickinson</i>	G Jones <i>G Jones</i>



1 INTRODUCTION

Remada Ltd was commissioned by Lidl Great Britain Ltd (hereafter 'the client') to undertake a Coal Mining Risk Assessment for a proposed site at Commercial Street, Risca NP11 6EE, at the location indicated in **Figure 1**.

1.1 Objectives

The objectives of this assessment have been to obtain information relating to the potential legacy of historical coal mining beneath the site and to produce an assessment of those risks in relation to the proposed site development.

1.2 Previous Reports

The following reports have been made available for review

- Commercial Street, Risca Site Investigation Report on Behalf of The Bird Group. July 2011, RPS Ref: JER5130
- Geotechnical & Geoenvironmental Report Proposed Residential Development Land Adjacent to Commercial Street Risca, Caerphilly. Prepared for: Bird Group Limited August 2018, Terrafirma Job No: 14113/1.
- Coal Authority CON29M

Remada reviewed the above historical reports in letter reference 1137.01.01 and prepared the following Phase 1 report:

- Phase 1 Site Investigation & Preliminary Risk Assessment. Remada Ltd report ref: 1137.02.01, issued in July 2024.

1.3 Limitations

The comments given in this report and the opinions expressed are based on the information reviewed, which Remada believes are reliable. Nevertheless, Remada cannot and does not guarantee the authenticity or reliability of the information it has obtained from these sources, and used in the production of this assessment. There may be conditions pertaining to the site that have not been disclosed by this assessment and therefore could not be taken into account.



2 DESK STUDY

2.1 Description of Site

Site Description The site occupies an irregular plot to the south of Commercial Street B4591, north of Ebbw River and 'Dawn to Dusk Autos' beyond the sloping masonry, as indicated in **Figure 2**. The site boundary is predominantly marked by the fence at the rear of the commercial properties perpendicular to Commercial Street to the north. With the B4591 running north-east to south-west on the eastern boundary. While the Ebbw River forms the southern boundary of the proposed development, the proposed layout at **Figure 3** indicates that River bisects the overall property boundary. To the west of the site is an empty plot of land.

The site is a former railway yard converted to steelworks where ground levels have been raised adjacent to the River Ebbw by filling with made ground.

Area of Site 1.07 hectares (approximately).

Site Elevation The topographic elevation of the site is approximately 43-44m aOD (metres above ordnance datum).

National Grid Co-ordinates 324400 (E), 189870 (N)

2.2 Site Setting

The site is situated in a mixed commercial and residential area.

North: A row of commercially used buildings parallel to Commercial Street and associated rear parking forms most of the northern boundary, with green space and trees adjacent to the roundabout in the northeast.

East: The B4591 is adjacent to the site, with a large warehouse on the opposite side of the road owned by William Hare-Steel fabricator.

South: The River Ebbw defines the southern boundary.

West: An unoccupied area, with sporadic vegetation and an Indian restaurant in the north-west corner of the plot. Freshly laid road surface in the plot.

2.3 Proposed Site Use

It is understood that the proposed site use for the site will be a Lidl retail store with associated car park and soft landscaping. A proposed indicative site layout plan is presented as **Figure 3**, with the site being accessed from Commercial Street in the north-western corner and B4591 in the south-eastern corner. The proposed store footprint is indicated to be in the north-western and northern areas of the site, with the remaining areas being a combination of car parking, HGV access and soft landscaping.

3 INFORMATION REVIEW

3.1 Historical Maps

The historical maps within Remada's Phase 1 Site Investigation & Preliminary Risk Assessment, reference 1137.01.01 have been reviewed from 1883 for evidence of coal mining activities at surface and at depth.

3.1.1 On-site History

Historical mapping dating back to 1879 shows no evidence of coal mining on-site.

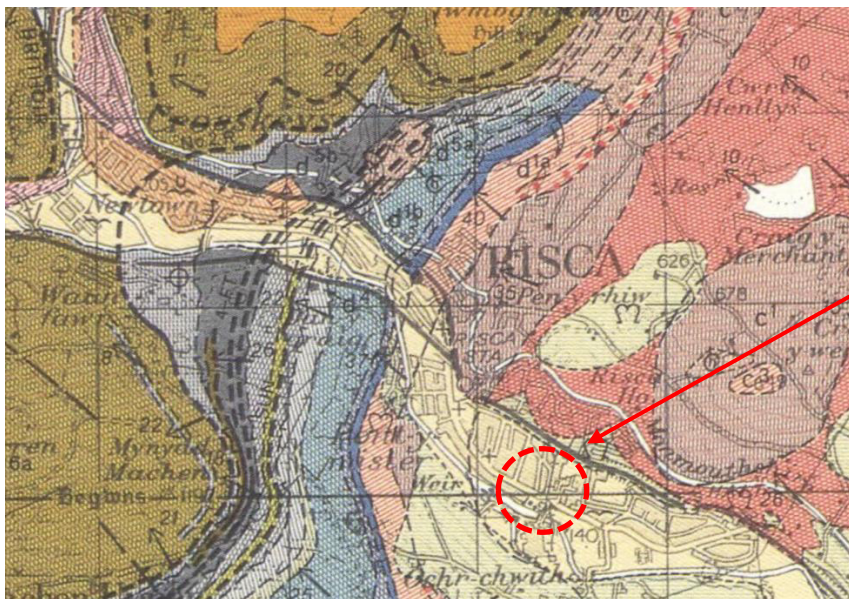
3.1.2 Off-site History

The earliest available historical mapping dated 1883 shows no evidence of coal mining activity within the search area.

3.2 Published Geological Information

The following publications of the British Geological Survey (BGS) have been examined in respect of strata underlying the site:

- BGS GeoIndex Onshore (on-line mapping).
- BGS 1:50,000 scale Map Sheet 249 (Newport) – Solid & Drift Edition, dated 1997.



Extract of BGS Sheet 249 – Newport, 1997 (Solid & Drift)

3.2.1 Made Ground and Superficial Geology

The BGS records indicate that there are no Made Ground deposits beneath the site. The on-site superficial deposits are indicated to comprise Alluvium, which the BGS describes as typically comprising 'soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. A stronger, desiccated surface zone may be present.'

3.2.2 Bedrock Geology

The bedrock underlying the superficial deposits is formed of the St Maughans Formation. The BGS describes the stratum as typically comprising 'interbedded purple, brown and green sandstones and red mudstones with intraformational conglomerates containing calcrete clasts'.



The BGS Sheet Memoir 249 (Newport) records that the St Maughans Formation consists of *'interbedded marls, silty marls, sandstones, conglomeratic concretionary limestones and conglomerates.'* In the vicinity of Machen (circa 2.6km to the south-west of the study site) the Memoir records the thickness of the St Maughans Formation to be approximately 1750 feet (circa. 530 metres).

There are no faults, fissures or breaklines recorded within proximity to the site.

3.2.3 Historical BGS Borehole Records

There are three historical BGS borehole logs within proximity to site as summarised below.

- Within Risca Bypass borehole 586, located 30m south of the site in 1976 (BGS ID: 383084, BGS Ref: ST28NW35), made ground was encountered to a basal depth of 2.76m bgl and comprised *'black ash'* and *'black clayey silty SAND and GRAVEL with a little ash'*. The underlying natural stratum comprised *'medium dense and dense brown SAND and GRAVEL with occasional cobbles'* to the base of the borehole at 10m bgl.
- Within Risca Bypass trial pit TP15, located 150m south of the site in 1976 (BGS ID: 383136, BGS Ref: ST28NW87), made ground was encountered to a basal depth of 2.0m bgl and comprised *'black silty sand and fine to coarse gravels, with debris (some broken bricks, pieces of woods, ash, large pieces of metal, brown slay, pieces of pipe, railway sleepers, concrete and vehicle parts'*. The underlying natural strata comprised *'light brown clayey silty SAND with some gravel'* to 2.8m bgl and *'rounded COBBLES and fine to coarse GRAVEL with some black clayey silty sand'* to the base of the trial pit at 3.3m bgl.
- Within Risca Bypass borehole R86, located 160m south of the site in 1976 (BGS ID: 383080, BGS Ref: ST28NW31), made ground was encountered to a basal depth of 1.2m bgl and comprised *'black clayey silty sandy ash and fine to coarse gravel with a few cobbles.'* The underlying natural stratum comprised *'very dense fine to coarse SAND, GRAVEL and COBBLES with a little brown and grey organic silt at base'* to the base of the borehole at 5.0m bgl.

3.3 Mining

The site is located within an area which may be affected by coal mining activity. A review of the Coal Authority website indicated that the site is not located within a Development High Risk Area and there are no mine entries within 100m of the site.

3.4 Coal Authority Consultants Mining Report

A Coal Authority Consultants Coal Mining Report was obtained for the site (ref: 51003443352001), which is presented in **Appendix A** and records the following:

Past Underground Mining

No past mining recorded

Probable Unrecorded Shallow Mining

None

Spine Roadways at Shallow Depth

No spine roadway recorded at shallow depth.



Mine Entries (refer to plan within Coal Authority Report)

None recorded within 100 metres of the enquiry boundary

Abandoned mine plan catalogue numbers

None available.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast Mines

None recorded within 500m of the enquiry boundary.

Coal Authority Managed Tips

None recorded within 500m of the enquiry boundary.

Mine Gas

None recorded within 500m of the enquiry boundary.



4 ASSESSMENT OF SITE-SPECIFIC COAL MINING RISKS

From a review of information sources above, the range of coal mining related hazards relevant to the proposed surface development of the site can be summarized as follows:

Coal Mining Hazard	Potential for Coal Mining Hazard to impact proposed development of the site
Deep underground coal mining >30m depth (past, present and currently proposed)	Negligible risk identified The Coal Authority has not identified any known mine workings beneath the site at depths of >30m bgl.
Recorded shallow underground coal mining <30m depth	Negligible risk identified. The Coal Authority has not identified any known mine workings beneath the site at depths of <30m bgl.
Unrecorded shallow underground coal mining <30m depth	Negligible risk identified The Coal Authority records the risk from probable unrecorded shallow mining as 'none'.
Recorded mine entries (shafts and adits)	Negligible risk identified. There are no recorded mine entries on or within 100m of the site boundary.
Coal mining induced or reactivated fault/lines of weaknesses (fissures etc.)	Negligible risk identified. There are no known fissures or reactivated faults within the site or proximity to site.
Mines gas emissions	Negligible risk identified. With respect to mine gas, the Coal Authority states "none recorded within 500m of the enquiry boundary".
Recorded surface mining (opencast workings)	Negligible risk identified. With respect to opencast workings, the Coal Authority states 'none recorded within 500 metres of the enquiry boundary'.



5 GEOTECHNICAL ASSESSMENT & RECOMMENDATIONS

5.1 Conclusions

5.1.1 Site History

The earliest available historical mapping of 1883 records a railway line in north of the site area that crosses the River Ebbw to access works to the south, but the remainder of the site is undeveloped. By 1901, an embankment had been formed to support railway sidings which increased and reduced in extent and by 1965 the site appears to have been levelled and a building constructed adjacent to the river. In 1977, a second building is recorded in the east of the site which was either extended or replaced by a larger works building by 1982. Tanks are recorded adjacent to each building. By 1982, a warehouse has been constructed running parallel to the Ebbw River; the larger works not being recorded in 1986 but present on the 1993 mapping.

5.1.2 Summary of Published Geology

Published BGS mapping indicates the site to be underlain by superficial Alluvium deposits. The BGS describe these as typically comprising *'soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. A stronger, desiccated surface zone may be present.'*

The bedrock underlying the superficial deposits is formed of the St Maughans Formation. The BGS describes the stratum as typically comprising *'interbedded purple, brown and green sandstones and red mudstones with intraformational conglomerates containing calcrete clasts'*.

The BGS Sheet Memoir 249 (Newport) for the area records the thickness of the St Maughans Formation to be approximately 1750 feet (circa. 530 metres) nearby (circa. 2.6km south-west). No coal outcrops are recorded on the BGS mapping within 1km of the study site.

5.1.3 Consultants Mining Report

According to the Coal Authority, there are no recorded mine workings beneath the site and probable unrecorded shallow mining is recorded as 'none'. There are no recorded mine entries within 100m of the site's boundary.

5.2 Recommendations

5.2.1 Coal Seams

As the Coal Authority does not record any worked seams at this location, and that probable unrecorded shallow mining is recorded as 'none', no further action is considered necessary.

5.2.2 Shafts

There are no mine entries located within the site boundary or within the vicinity of the site.



REFERENCES & GUIDANCE

BS 5930:2015+A1:2020, Code of practice for ground investigations.

CIRIA C758D Abandoned Mine Workings Manual, 2019

Manual of Contract Documents for Highways Works Volume 1 Specification for Highways Works Series 1000



STUDY LIMITATIONS

IMPORTANT. This section should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

1. This report has been prepared by Remada, Ltd with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with (the 'Client'). Remada does not accept responsibility for any matters outside the agreed scope.

2. This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing.

3. Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Remada is unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have published, more stringent objectives. Further work may be required by these parties.

4. All work carried out in preparing this report has used, and is based on, Remada' professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice pending changes in legislation, of which Remada is aware, have been considered. Following delivery of the report Remada has no obligation to advise the Client or any other party of such changes or their repercussions.

5. This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.

6. Whilst this report and the opinions made are to the best of Remada' belief, Remada cannot guarantee the accuracy or completeness of any information provided by third parties.

7. This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have received.

8. This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of changes in the condition of the site since the time of the investigation.

9. The content of this report represents the professional opinion of experienced environmental consultants. Remada does not provide specialist legal or other professional advice. The advice of other professionals may be required.

10. Where intrusive investigation techniques have been employed they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases the investigation is further limited by site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the site have not been investigated.

11. If below ground intrusive investigations have been conducted as part of the scope, service tracing for safe location of exploratory holes has been carried out. The location of underground services shown on any drawing in this report has been determined by visual observations and electromagnetic techniques. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on site.

12. Unless otherwise stated the report provides no comment on the nature of building materials, operational integrity of the facility or on any regulatory compliance issues.

13. Unless otherwise stated, samples from the site (soil, groundwater, building fabric or other samples) have NOT been analysed or assessed for waste classification purposes.

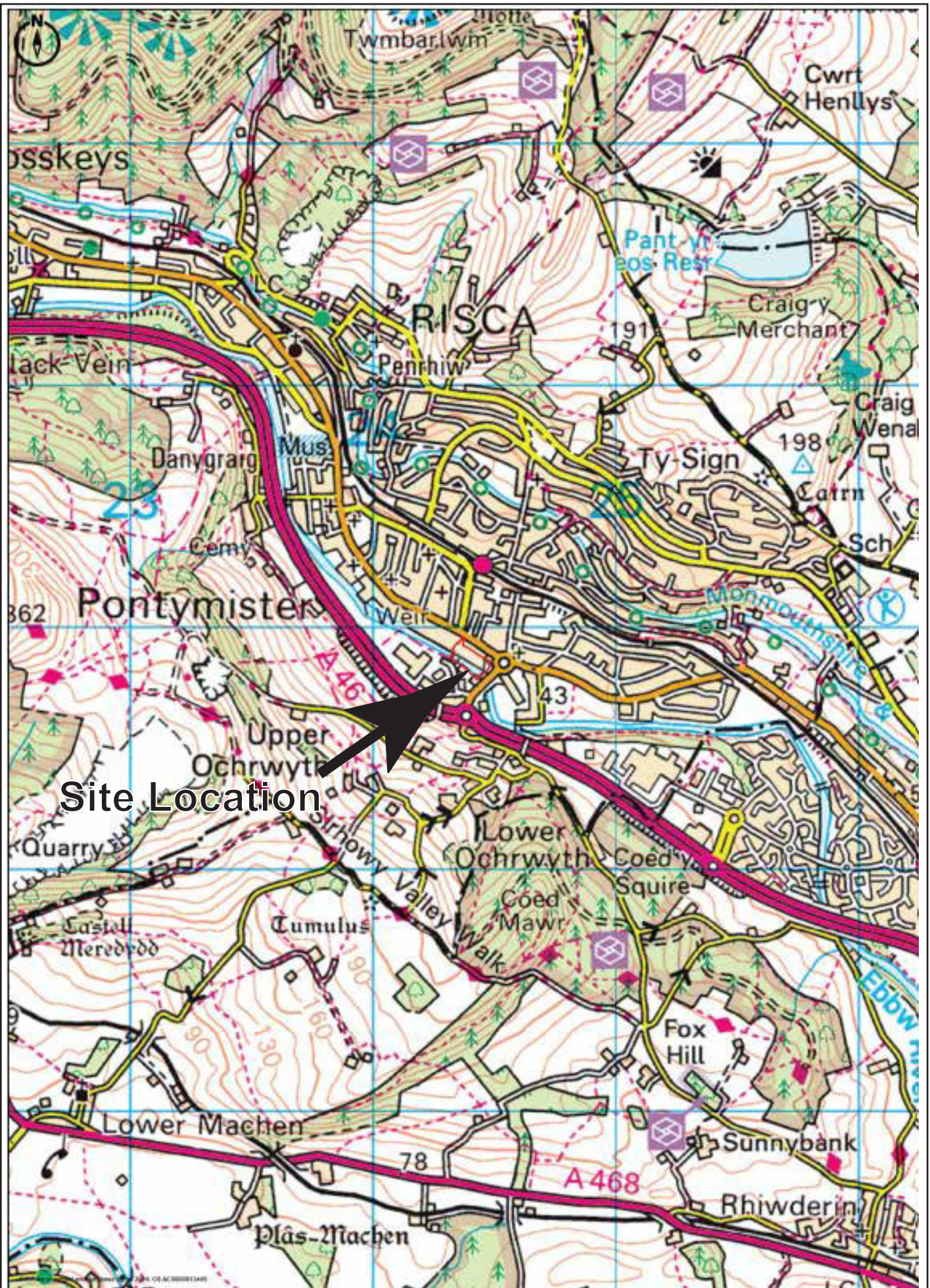


FIGURES



Figure 1 Site Location Plan

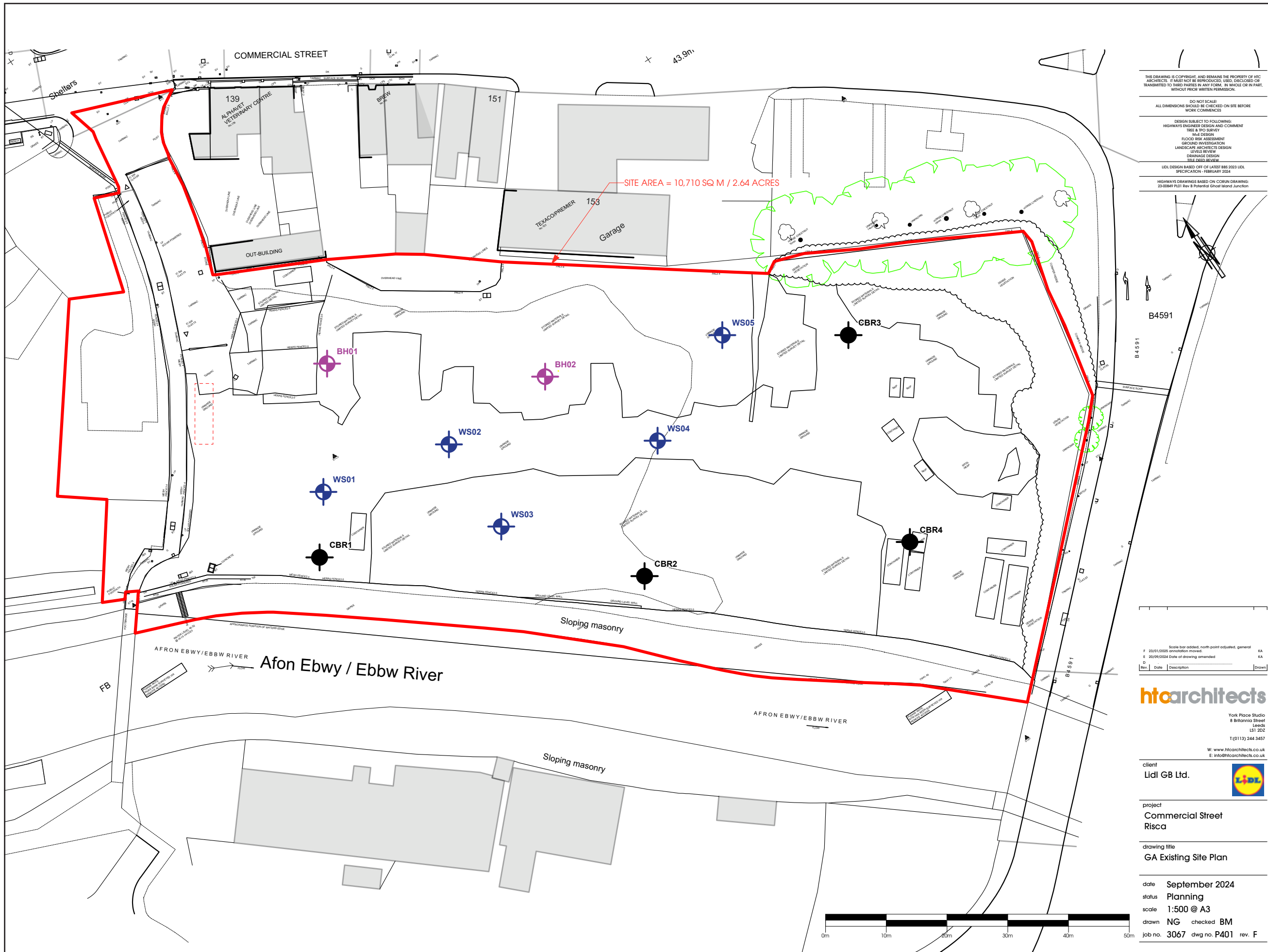
Figure 2 Existing Site Layout

Figure 3 Indicative Proposed Site Layout



Site Location

Notes Promap LANDMARK INFORMATION © Crown copyright and database rights 2024. OS AC000813445 Plotted Scale - 1:25000. Paper Size - A4	Revision	Approved	Date	Project Title	Scale	Drawn	Size
				Risca, Commercial Street	as shown	LH	A4
				Drawing Title	Date	Job No.	Figure No.
				Site Location Plan	18.07.24	1137.02	01
			Client	Lidl Great Britain Ltd  			



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DO NOT SCALE! ALL DIMENSIONS SHOULD BE CHECKED ON SITE BEFORE WORK COMMENCES.

DESIGN SUBJECT TO FOLLOWING:
 HIGHWAYS ENGINEER DESIGN AND COMMENT
 TREE & SPD SURVEY
 MAE DESIGN
 FLOOD RISK ASSESSMENT
 GEOTECHNICAL INVESTIGATION
 LANDSCAPE ARCHITECT'S DESIGN
 UTILITY REVIEW
 DRAINAGE DESIGN
 UTILITY ASSESSMENT

LIDL DESIGN BASED OFF OF LATEST BBS 2023 LIDL SPECIFICATION - FEBRUARY 2024

HIGHWAYS DRAWINGS BASED ON CORIN DRAWING: 2300849 P01 Rev B Potential Ground Level Junction

- Legend
- WS01 Window Sample & Installation
 - BH01 Cable tool hole
 - CBR1 CBR Test

Scale bar added, north point adjusted, general
 F 23/01/2025 annotation moved. KA
 E 20/09/2024 Date of drawing amended KA
 D Rev. Date Description Drawn

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client
Lidl GB Ltd.

project
**Commercial Street
 Risca**

drawing title
GA Existing Site Plan

date **September 2024**
 status **Planning**
 scale **1:500 @ A3**
 drawn **NG** checked **BM**
 job no. **3067** dwg no. **P401** rev. **F**

Notes

Revision	Approved	Date

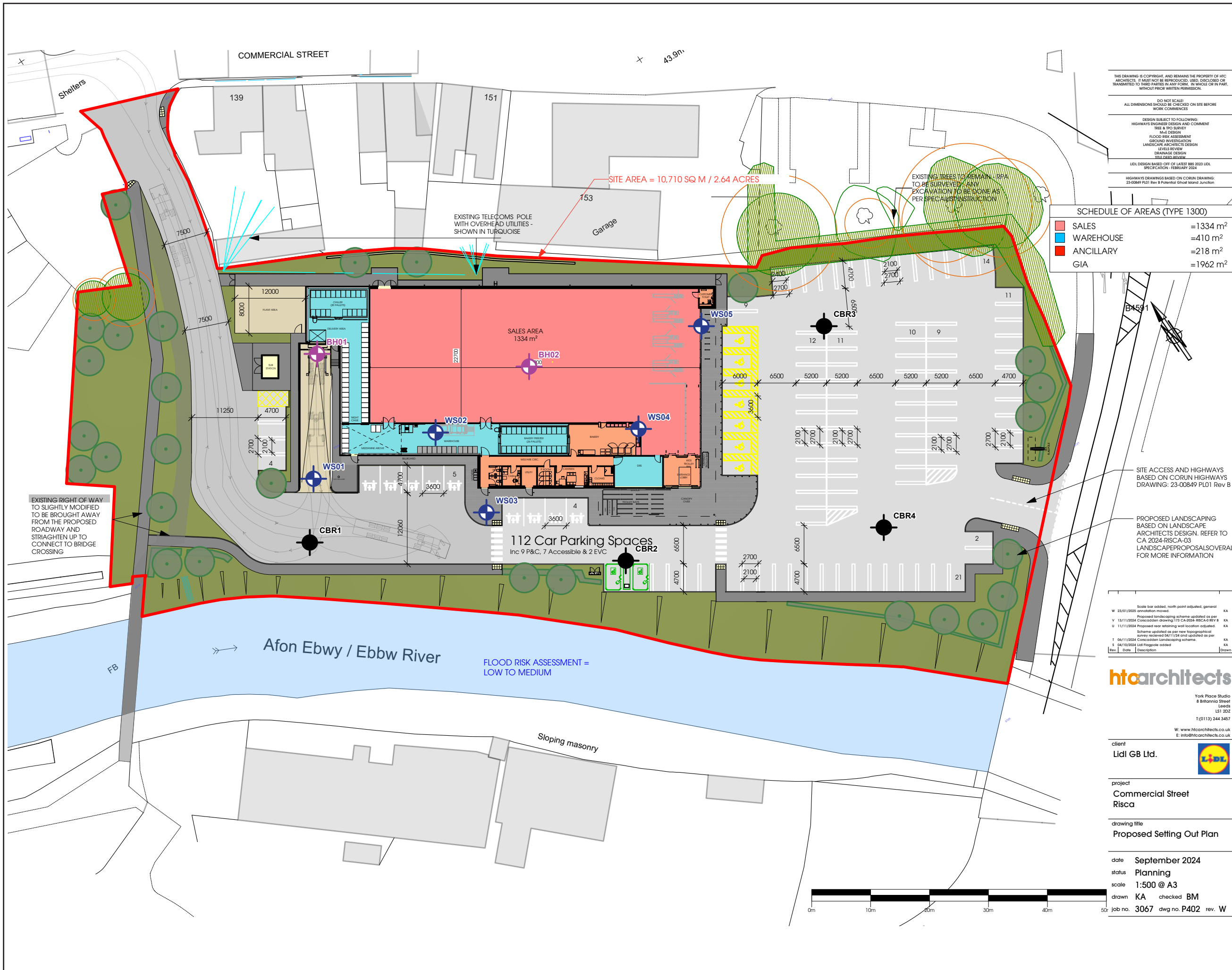
Project Title
Lidl Risca

Drawing Title
Existing Site Layout

Client
Lidl Great Britain Ltd

Scale	Drawn	Size
as shown	LH	A4
Date	Job No.	Figure No.
27.01.25	1137.02	02





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DO NOT SCALE!
ALL DIMENSIONS SHOULD BE CHECKED ON SITE BEFORE WORK COMMENCES

DESIGN SUBJECT TO FOLLOWING:
HIGHWAYS ENGINEER DESIGN AND COMMENT
BEE & PC SURVEY
BLUE DESIGN
FLOOD RISK ASSESSMENT
GIS/GRID INVESTIGATION
LANDSCAPE ARCHITECTS DESIGN
LEVELS REVIEW
DRAINAGE DESIGN
SITE LAYOUT REVIEW

LIDL DESIGN BASED OFF OF LATEST BBS 2023 LIDL SPECIFICATION - FEBRUARY 2024

HIGHWAYS DRAWINGS BASED ON CORUN DRAWING: 23-00849 PL01 Rev 8 Potential Ghod Island Junction

SCHEDULE OF AREAS (TYPE 1300)

SALES	=1334 m ²
WAREHOUSE	=410 m ²
ANCILLARY	=218 m ²
GIA	=1962 m ²

- Legend**
- WS01 Window Sample & Installation
 - BH01 Cable tool hole
 - CBR1 CBR Test

Notes

- SITE ACCESS AND HIGHWAYS BASED ON CORUN HIGHWAYS DRAWING: 23-00849 PL01 Rev B
- PROPOSED LANDSCAPING BASED ON LANDSCAPE ARCHITECTS DESIGN. REFER TO CA 2024-RISCA-03 LANDSCAPE PROPOSAL OVERALL FOR MORE INFORMATION

Scale bar added, north point adjusted, general
W 23/01/2025 annotation moved. KA
Proposed landscaping scheme updated as per
Y 13/11/2024 Consolidation drawing: 173 CA-2024-RISCA-REV B KA
U 11/11/2024 Proposed rear retaining wall location adjusted. KA
S 04/11/2024 Proposed rear retaining wall location adjusted. KA
T 04/11/2024 Proposed rear retaining wall location adjusted. KA
S 04/10/2024 Consolidation landscaping scheme. KA
Rev. Date Description Drawn

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client
Lidl GB Ltd.

project
**Commercial Street
Risca**

drawing title
Proposed Setting Out Plan

date **September 2024**
status **Planning**
scale **1:500 @ A3**
drawn **KA** checked **BM**
job no. **3067** dwg no. **P402** rev. **W**

Revision	Approved	Date

Project Title
Lidl Risca

Drawing Title
**Proposed Indicative
Layout**

Client
Lidl Great Britain Ltd

Scale	Drawn	Size
as shown	LH	A4
Date	Job No.	Figure No.
27.01.25	1137.02	03





APPENDIX A

Coal Authority Consultants Coal Mining Report



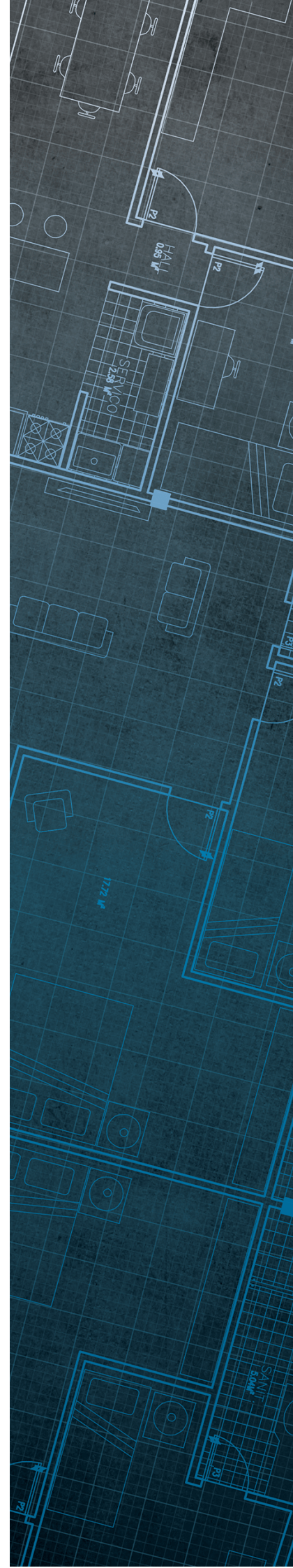
The Coal
Authority

Consultants Coal Mining Report

Commercial Street
Pontymister
Risca
Caerphilly County Borough
NP11 6EE

Date of enquiry: 12 August 2024
Date enquiry received: 12 August 2024
Issue date: 12 August 2024

Our reference: 51003443352001
Your reference: 1137.04



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

Remada Ltd

Enquiry address

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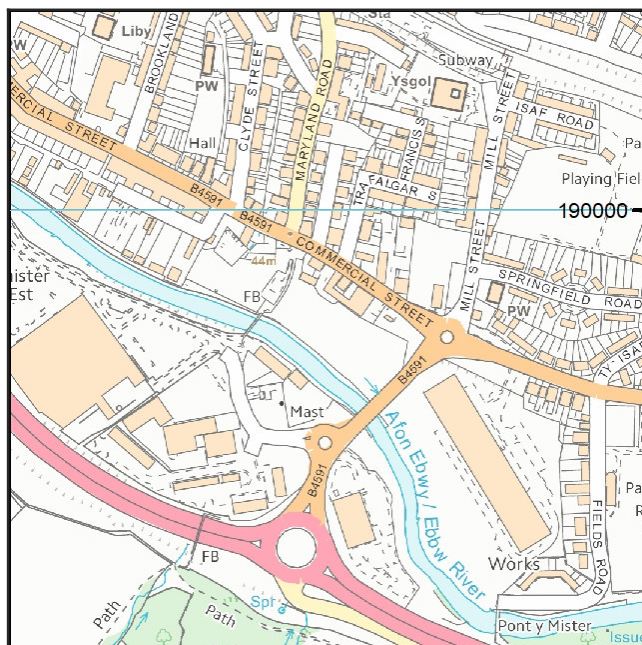
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

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

None available.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded 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

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.

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.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

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.

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.

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 

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