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Geotechnical  
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# COAL MINING RISK ASSESSMENT REPORT

< ENVIRONMENTAL > < GEOTECHNICAL >

job number	date
site address	
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# Report on a Coal Mining Risk Assessment

Location: **133 Wakefield Road**  
Fenay Bridge, Huddersfield, West Yorkshire, HD8 0BJ

For: Richard Thompson

Report No. C5934/26/E/9195

Report date: March 2026

For and on behalf of **Rogers Geotechnical Services Ltd**

**Steven Hale** BSc FGS  
Geo-environmental Engineer

**Rob Palmer** MSc FGS ACIEH  
Engineering Director

## 1. Introduction

It is understood that as part of seeking planning approval for the site, a Coal Mining Risk Assessment has been requested by the client. Whilst the proposed plans are yet to be finalised, it is understood any development is likely to be central and close to the existing property, rather than in the northern area of the site. The site is known to be present within an area where mining has been prevalent, therefore the available mining and geological records have been reviewed. This report presents the findings of the study.

## 2. Geological Desk Study

The geological desk study has been undertaken using the following sources of information.

- British Geological Survey (BGS) map sheet<sup>1</sup>.
- British Geological Survey *GeoIndex Onshore Viewer*<sup>2</sup>.
- Coal Authority Consultants Coal Mining Report<sup>3</sup>.
- British Geological Survey *Borehole Records*<sup>4</sup>.

<sup>1</sup> Sources: British Geological Survey (NERC) Map Sheet 77; Huddersfield Solid and Drift Editions

<sup>2</sup> Sources: British Geological Survey (NERC) GeoIndex Onshore Viewer [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

<sup>3</sup> Coal Authority Reference: 51003560025001 dated 20<sup>th</sup> March 2026.

<sup>4</sup> Sources: British Geological Survey (NERC) Borehole Records [online resource from <http://www.bgs.ac.uk/>]

## 2.1 British Geological Survey Maps and Viewer

The appropriate map sheet for the site and the geology viewer has been examined and the following table presents the indicated geology:

Table 1: Geological Data for the Site			
Strata Type	Strata Name <sup>5</sup>	Parent Unit <sup>6</sup>	Description
Superficial Geology	None recorded.	-	-
Solid Geology	Pennine Lower Coal Measures Formation	Pennine Coal Measures Group	Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.

On the geological map, there are no dip indicators relevant to the site (i.e. within the same fault block). It should be appreciated that dip indicators located further away from the site generally suggest that the dip in the local area is around 4° to the east.

There are two local coal seam that are shown to outcrop within the local area. The seams are summarised as follows:

Table 2: Summary of Coal Seams Within the Vicinity of the Site			
Seam Name	Seam Thickness <sup>5*</sup>	Outcrop Distance from Site <sup>5*</sup>	Anticipated Depth below Site
Black Bed Coal (BL)	0.70m	Northeast boundary of the site	At or near to the surface in the northeast corner. For the most part the seam is not anticipated to be present beneath the rest of the site.
Better Bed Coal (BB)	0.50m	120m W	Between ~25m to 30m

\*All distances are given as approximations only. It should be noted that coal seam thicknesses vary over relatively short distances

In light of the above and taking into account the regional structural geology and the topography of the area, the Better Bed Coal seam is anticipated to be present at depths of less than 30m below the surface of the site.

## 2.2 Coal Authority Mines Report

As part of this study a Coal Authority Consultants Coal Mining Report has been obtained. The report is presented as Appendix 2 and for the purposes of discussion has been summarised below:

Table 3: Summary of the Consultant's Coal Mining Report		
Has the report highlighted evidence or potential of:		
Mining Feature	Yes/No	Comments
Underground Coal Mining	No	None recorded.

<sup>5</sup> Sources: British Geological Survey (NERC) Map Sheets 77; Huddersfield; Solid and Drift Edition, and GeoIndex Onshore Viewer [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

<sup>6</sup> Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

Probable Unrecorded Shallow Workings	Yes	-
Spine Roadways at Shallow Depth	No	No spine roadway recorded at shallow depth.
Mine Entries	Yes	One mine shaft is recorded to have been present approximately 60m NW as reference number 418416-018. No treatment details given.
Abandoned mine plans	Yes	Plans of abandoned mine workings below the site are suggested to be available by the Coal Authority.
Outcrops	Yes	Black Bed (BL) coal present at the northeast corner of the site.
Geological Faults	No	No faults, fissures or breaklines recorded.
Opencast Mines	Yes	A large unlicensed opencast site is recorded approximately 495m NE.
Coal Authority Managed Tips	No	None recorded within 500 metres of the enquiry boundary.
Site Investigations	No	None recorded within 50 metres of the enquiry boundary
Remediated Sites	No	None recorded within 50 metres of the enquiry boundary.
Coal Mining Subsidence	No	<p>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 31st October 1994.</p> <p>There is no current Stop Notice delaying the start of remedial works or repairs to the property.</p> <p>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.</p>
Mine Gas	No	None recorded within 500 metres of the enquiry boundary.
Mine Water Treatment Schemes	No	None recorded within 500 metres of the enquiry boundary.
Future underground mining	No	For further information please see section 3 of the Consultant's Coal Mining Report.
Coal mining licensing	No	
Court orders	No	
Section 46 notices	No	
Withdrawal of support notices	No	
Payments to owners of former copyhold land	No	

### 2.3 Geological Survey Borehole Records

The British Geological Survey (NERC) keeps borehole records from across Britain which are available for public viewing through their website<sup>7</sup>. As part of this study, the records in the area around the site have been reviewed in order to assist in establishing the geological conditions.

Unfortunately, in this instance, there are no borehole scans available within the vicinity of the site that will assist with this assessment. Whilst there are borehole scans present within 500m to the west and south of the site, these boreholes are not progressed to depths relevant to the investigation. Additionally, while a deep borehole is present 145m south of the site, this borehole is located topographically approximately 18m beneath the site. As such, it is unlikely that this borehole will have encountered the potential coal seams. Furthermore, other borehole scans are available at a greater distance to the site within other faulted blocks. However, these are not anticipated to represent comparable ground conditions to those anticipated to be present below the site.

## 3. Risk Assessment

The risk to the stability of the proposed residential development has been evaluated from the data obtained and with reference to the following ratings and definitions:

- Low - The possibility of instability is unlikely therefore no further action is necessary.
- Moderate - The possibility of instability is likely and further investigation or remedial action may be required.
- High - The possibility of instability is highly likely and further investigation or remedial action will be necessary.

**Table 4: Development Specific Risk Assessment**

Item	Risk attributed to	Feature(s) Considered	Risk Rating
3.1	Shallow coal workings	Black Bed Coal (BL)	Low
		Better Bed Coal (BB)	Low
3.2	Coal workings at depth	The Coal Authority report indicates that the property is not within a surface area that could be affected by past underground mining.	Low
3.3	Mine gas	Shallow coal workings	Low
3.4	Mine shafts	Shaft Number: 418416-018	Low

### 3.1 Risks Posed by Shallow Coal Workings

On the basis of all of the information provided above, one coal seam is anticipated to be present within 30m of the surface at the site; the Better Bed Coal. The Black Bed Coal seam is indicated to outcrop nearby, however this is topographically and stratigraphically above the site, therefore is unlikely to be present at shallow depths beneath the site.

The possibility of the Better Bed Coal being worked below the site cannot be ruled out. Historic coal mining activity is evident in the nearby area, and therefore it is considered that if coal was known to be close to ground level it could have been removed illicitly via shallow mining methods with relative ease.

It may be noted that guidance available from both the NHBC and the CIRIA publication, SP32 - *construction over abandoned mine workings*, suggests that competent overburden thickness above a coal seam should be greater than 10 times the thickness of a seam plus seam thickness in order that the collapse of workings would pose a low risk to surface structures.

On this basis, assuming a maximum thickness of the coal seam, the table below suggests the thickness of competent overburden required the seam to mitigate instability at the surface:

<b>Table 5: Required Thickness of Competent Overburden</b>			
<b>Seam Name</b>	<b>Seam Thickness</b>	<b>Anticipated Depth Below Site</b>	<b>Required Thickness of Competent Overburden</b>
Better Bed Coal (BB)	0.50m	Between ~25m to 30m	5.50m

Based on the above information, it is considered that there will be a sufficient thickness of competent overburden above the seam in order to prevent the risk of instability posed by the presence of any illicit workings.

### 3.2 Risks Posed by Coal Workings at Depth

In regard to deeper mining which could affect the site, the property is not within a surface area that could be affected by past underground mining.

### 3.3 Risks Posed by Mine Gas

This assessment has concluded that it unlikely that shallow mine workings will be present beneath the site or within the wider site area. In addition, the Consultants Coal Mining Report has not reported any incidents of mine gas within the vicinity of the development. As such, the risks posed by the migration of mine gas can be considered low, such that no further action is required at this time.

### 3.4 Risks Posed by Mine Shafts

The Consultants Mining Report refers to one shaft within close proximity to the site (ref: 418416-018); assumed to be located ~60m northwest of the development.

In the context of the guidance given by CIRIA SP32 – *Construction over abandoned mine workings* it should be appreciated that the minimum distance for siting structures from open or poorly filled shafts depends primarily on the nature and thickness of the surface deposits. This would presumably be on the basis that a significant ground collapse within intact rock would be improbable, therefore the crater associated with a collapse shaft would be located within the soils above the rock.

It is reasoned that there is sufficient standoff distance between the development and the shaft, such that the risks posed by shaft collapse can be considered low.

## 4. Conclusions

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In light of the above, it is not considered likely that there is any risk of instability from shallow worked seams. Additionally, it is not expected that there are risks of instability from deep coal workings as none have been recorded.

Should coal or evidence of mining become prevalent during any groundworks, then all works should cease and RGS and the relevant authorities should be contacted immediately to assess and, if necessary, design suitable remedial measures.



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## Appendix 1

### Site Plan

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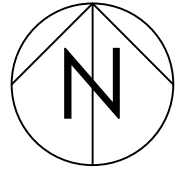


# SITE LOCATION PLAN

PROPOSED HOUSE EXTENSION  
133 WAKEFIELD ROAD, FENAY BRIDGE,  
HUDDERSFIELD, HD8 0BJ  
DWG No. 704-A10 rev--  
SCALE 1:1000@A4 FEBRUARY 2026

REV DATE    ITEM

AUTH



## NOTE:

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## Appendix 2

# Consultants Coal Mining Report

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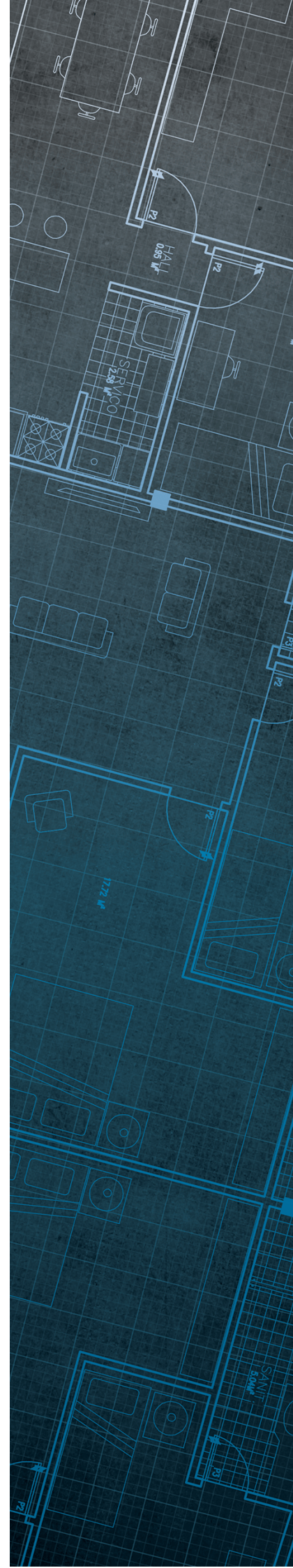
The Coal  
Authority

# Consultants Coal Mining Report

133 Wakefield Road  
Fenay Bridge  
Huddersfield  
Kirklees  
HD8 0BJ

Date of enquiry: 20 March 2026  
Date enquiry received: 20 March 2026  
Issue date: 20 March 2026

Our reference: 51003560025001  
Your reference: C/5934/26/E/9195 - PO-  
3761



# 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

ROGERS GEOTECHNICAL SERVICES LTD

## Enquiry address

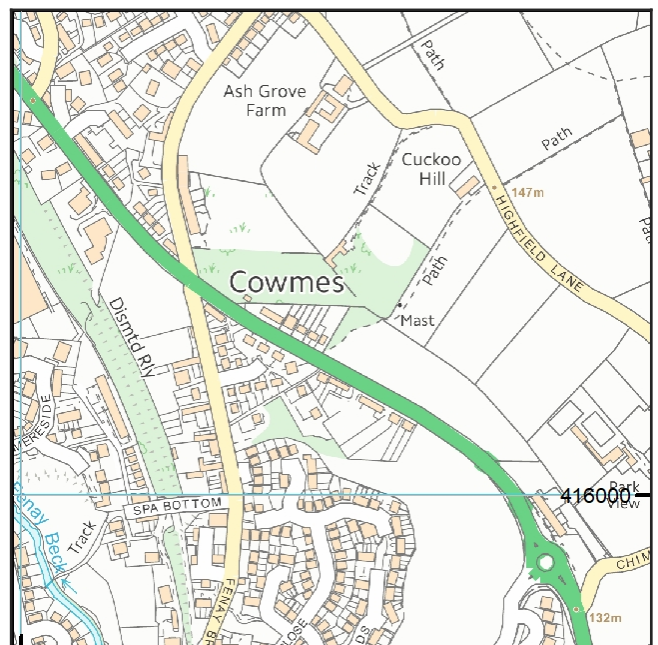
133 Wakefield Road  
Fenay Bridge  
Huddersfield  
Kirklees  
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Approximate position of property



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# Section 1 – Mining activity and geology

## Past underground mining

No past mining recorded.

## Probable unrecorded shallow workings

Yes.

## Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

## Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	418416-018	418272 416211	Treatment details unknown.*	Coal	

\*For your information, before the coal industry was nationalised in 1947, there was no requirement for a mine operator to record mine entry treatment details when a mine was abandoned. Therefore, it is not unusual for us to have no treatment details for many of the 176,000 recorded mine entries on our database. Despite this lack of information, please be assured that the fact we have no treatment recorded does not necessarily mean that the mine entry was left untreated when abandoned.

## Abandoned mine plan catalogue numbers

None available.

## Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BLACK BED	Coal	Yes	Within	N/A	312

## 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

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 **email us at [reports@miningremediation.gov.uk](mailto: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.

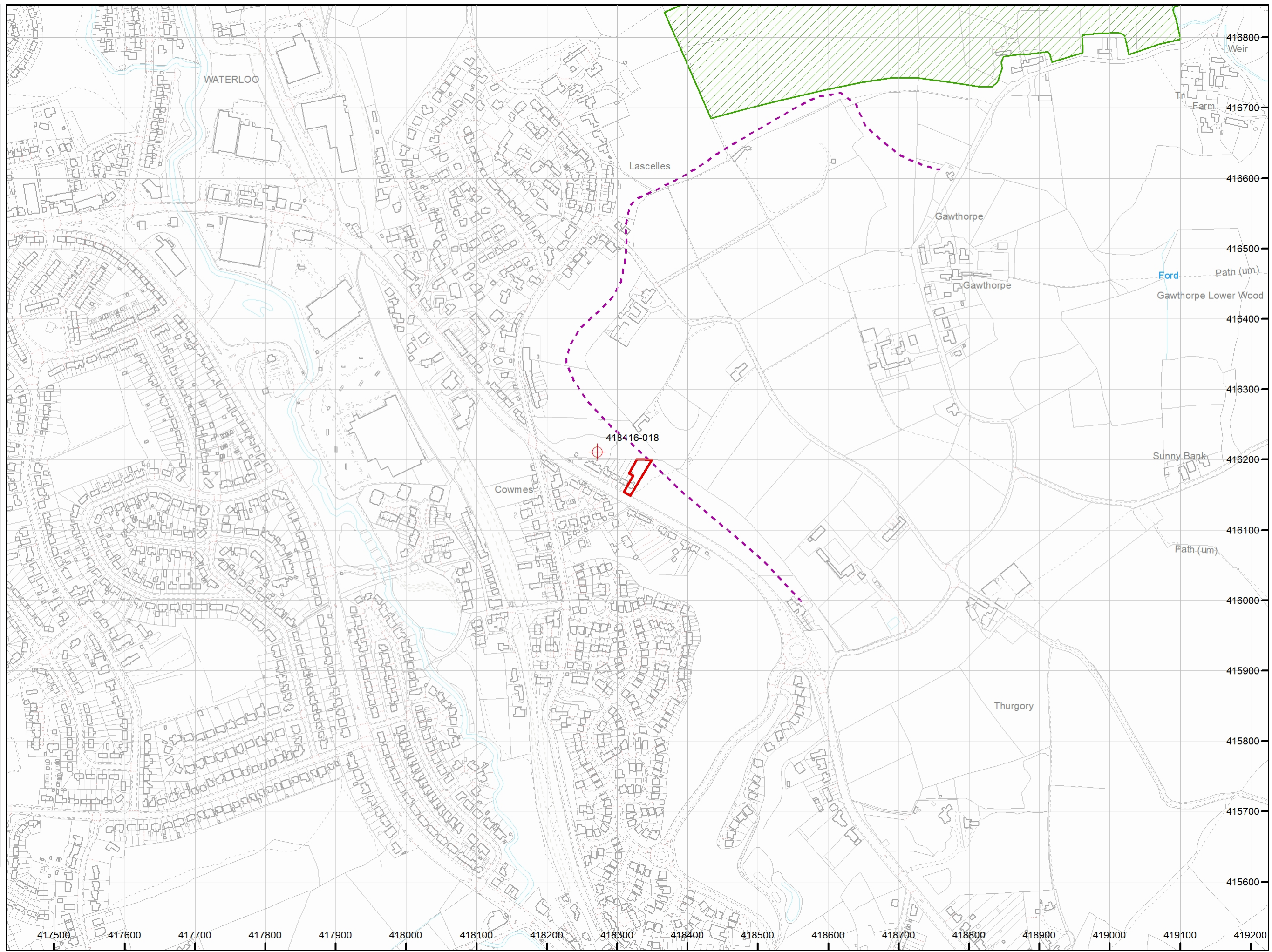
### **Payment to owners of former copyhold land**

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 
- Disused mine shaft 
- Outcrop (Conjectured) 
- Unlicensed opencast site 



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