

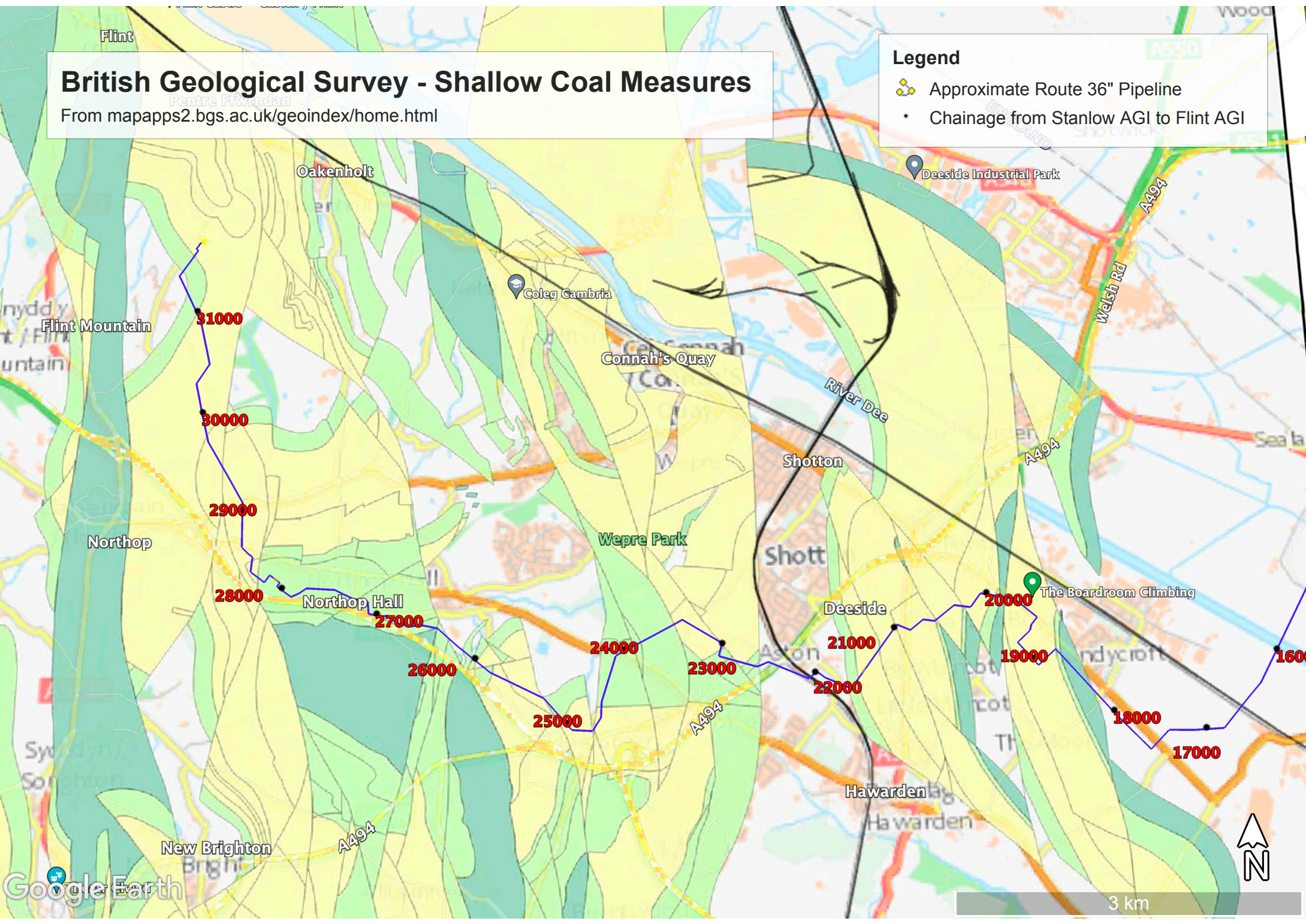


# British Geological Survey - Shallow Coal Measures

From [mapapps2.bgs.ac.uk/geoindex/home.html](http://mapapps2.bgs.ac.uk/geoindex/home.html)





## Legend



-  Approximate Route 36" Pipeline
-  Chainage from Stanlow AGI to Flint AGI



## Map Key

### Shallow Coal

-  Buried coal resource overlain by up to 50m overburden
-  Primary opencast coal resource area
-  Secondary opencast coal resource area
-  Tertiary opencast coal resource area

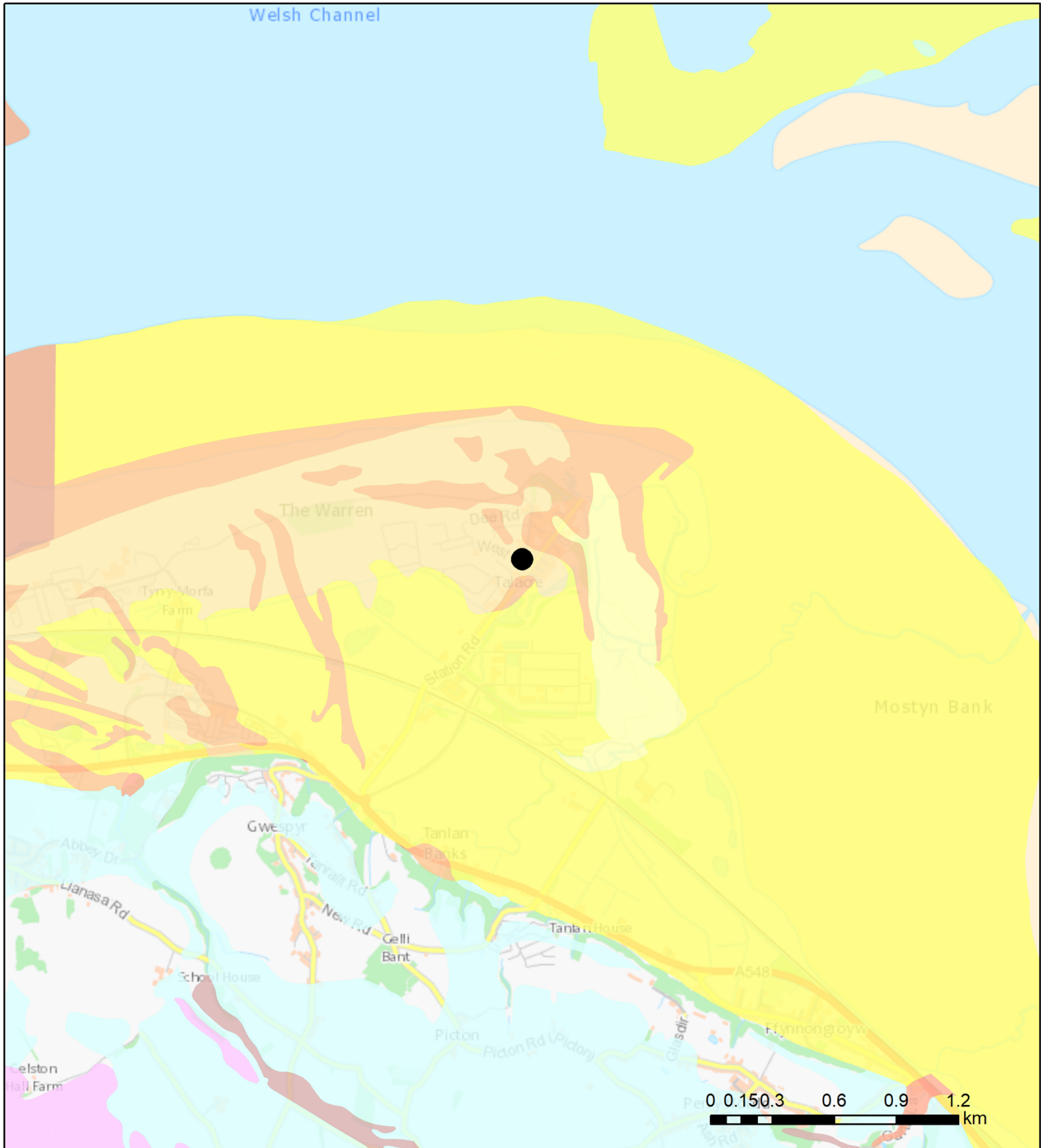
 	Company Document ID	
	<b>1025H0BGRV09410</b>	
	Sheet of Sheets 26 / 282	Validity Status
	CD-FE	02

**Geology – Point of Ayr**

# PoA Superficial Deposit



British Geological Survey



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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

# Map Key

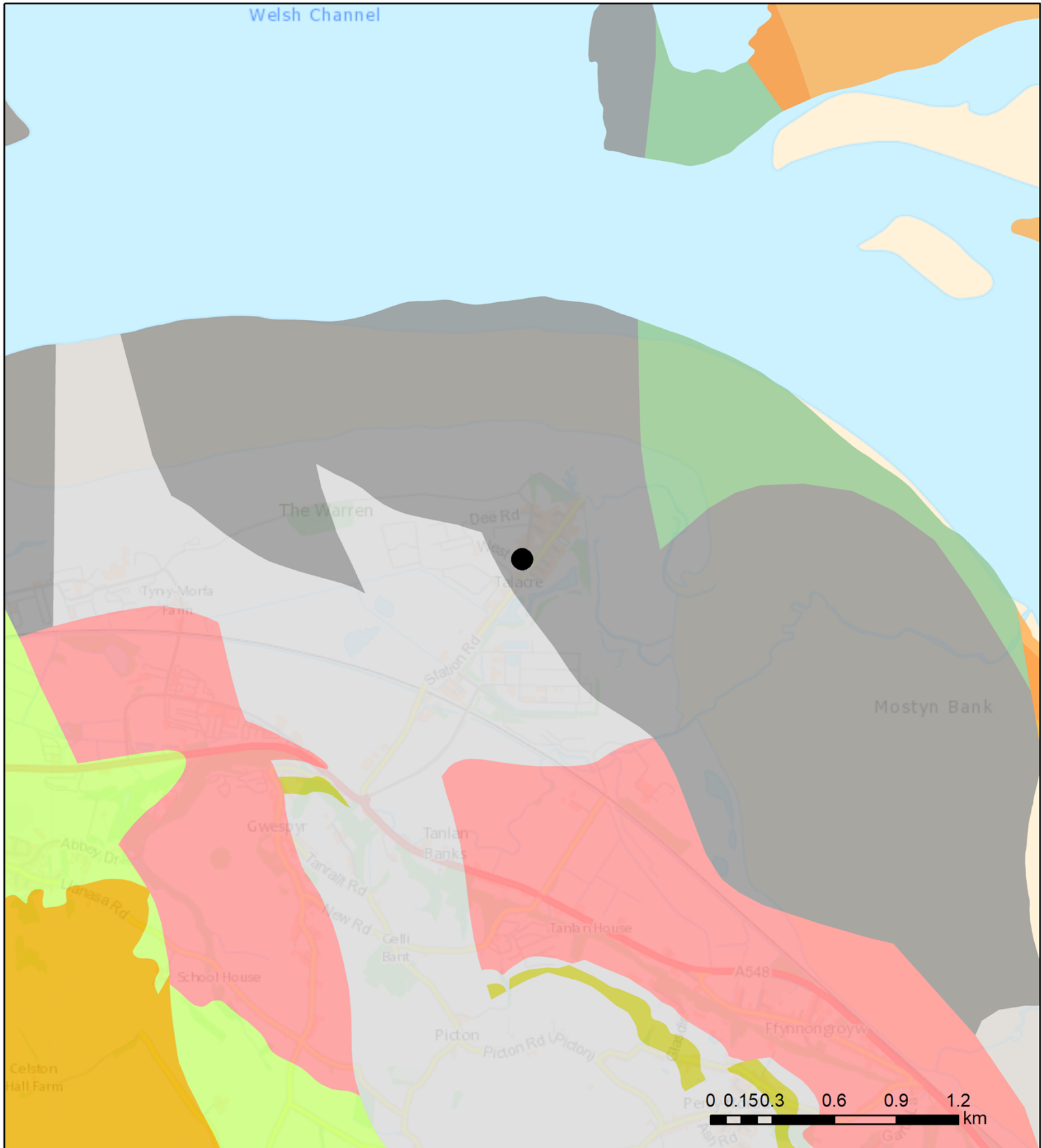
Superficial deposits 1:50,000 scale

	<u>GLACIOFLUVIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL</u>
	<u>TILL, DEVENSIAN - CLAY, SANDY, GRAVELLY, COBBLY</u>
	<u>SALTMARSH DEPOSITS - CLAY, SILT AND SAND</u>
	<u>BLOWN SAND - SAND</u>
	<u>HEAD - CLAY, SILT, SAND AND GRAVEL</u>
	<u>STORM BEACH DEPOSITS - GRAVEL</u>
	<u>ALLUVIAL FAN DEPOSITS - CLAY, SILT, SAND AND GRAVEL</u>
	<u>MARINE BEACH DEPOSITS - SAND</u>
	<u>TIDAL FLAT DEPOSITS - SAND</u>
	<u>PEAT - PEAT</u>

# PoA Bedrock Geology



British Geological Survey














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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

# Map Key

Bedrock geology 1:50,000 scale

	<u>PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE</u>
	<u>LLANARMON LIMESTONE FORMATION - LIMESTONE</u>
	<u>TEILIA FORMATION - MUDSTONE AND LIMESTONE, INTERBEDDED</u>
	<u>GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED</u>
	<u>WARWICKSHIRE GROUP - MUDSTONE, SILTSTONE AND SANDSTONE</u>
	<u>PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE</u>
	<u>BOWLAND SHALE FORMATION - MUDSTONE</u>
	<u>CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)</u>
	<u>COLLYHURST SANDSTONE FORMATION - SANDSTONE</u>
	<u>CUMBRIAN COAST GROUP - MUDSTONE</u>
	<u>PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE</u>
	<u>PENTRE CHERT FORMATION - CHERT</u>

# PoA Coal Measures



British Geological Survey







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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey





## Map Key

### Shallow Coal

-  Buried coal resource overlain by up to 50m overburden
-  Primary opencast coal resource area
-  Secondary opencast coal resource area
-  Tertiary opencast coal resource area

 	Company Document ID		Sheet of Sheets 27 / 282	
	<b>1025H0BGRV09410</b>		Validity Status	Revision Number
			CD-FE	02

## 8.0 APPENDIX B – COAL MINING REPORTS AND DATA FROM THE COAL MINING WEBSITE

 	Company Document ID	Sheet of Sheets 28 / 282	
	<b>1025H0BGRV09410</b>	Validity Status	Revision Number
		CD-FE	02

**Coal Mining Report (Mancot Lane to Gladstone Way) – 51002513967001**

**Includes Hazard Assessment Report as highlighted in the Coal Mining Report.**



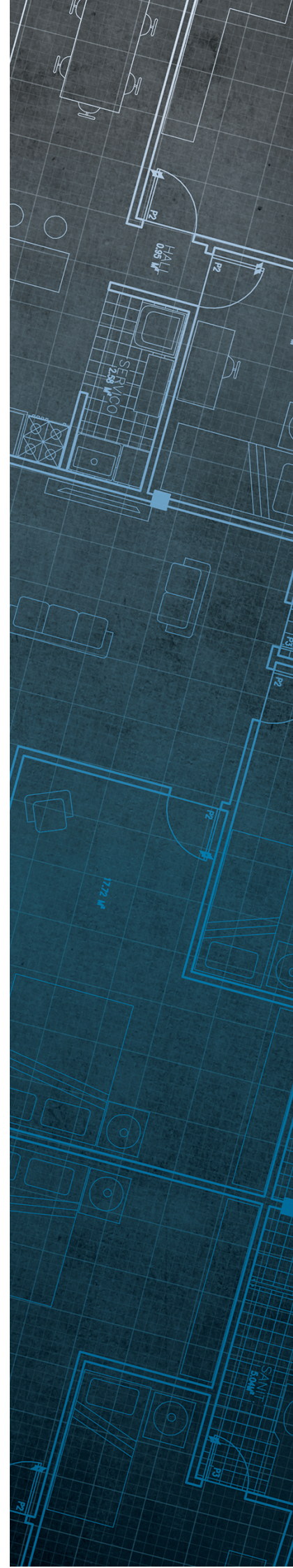
The Coal  
Authority

# Consultants Coal Mining Report

Liverpool Bay Ccs  
Cheshire

Date of enquiry: 5 May 2021  
Date enquiry received: 5 May 2021  
Issue date: 6 May 2021

Our reference: 51002513967001  
Your reference: Liverpool Bay G&G Desk  
Study 1



# 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

ENI ENGINEERING

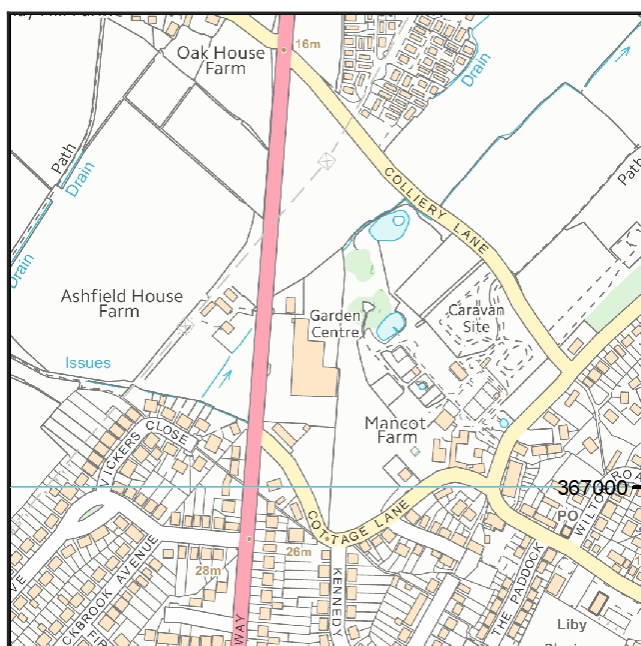
## Enquiry address

Liverpool Bay Ccs  
Cheshire

## How to contact us

0345 762 6848 (UK)  
+44 (0)1623 637 000 (International)

200 Lichfield Lane  
Mansfield  
Nottinghamshire  
NG18 4RG



Approximate position of property



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# Section 1 – Mining activity and geology

## Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	BRASSEY	Coal	37SR	41	Beneath Property	11.3	East	200	1870
unnamed	MAIN	Coal	37WQ	53	Beneath Property	15.0	East	200	1876
unnamed	MAIN	Coal	7H1K	70	Beneath Property	15.0	East	200	1876
unnamed	MAIN	Coal	7NX5	73	South	15.0	East	200	1895
unnamed	PREMIER (LOWER FOOT)	Coal	3CQW	138	North-West	15.0	North-East	120	1913

## 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	331366-009	331287 366990	The shaft was filled to an unknown specification by the NCB in 1951. The fill was drilled and grouted with 182 tons in May 1975 followed by inserting a 9m x 9m x 1.5m thick reinforced concrete plug at Rockhead some 6m below ground level.	Coal	
Shaft	331367-005	331649 367405		Coal	
Shaft	331367-006	331646 367399		Coal	
Shaft	331367-036	331675 367392	This entry was filled to an unknown specification in July 1951.	Coal	
Shaft	331367-046	331824 367263		Coal	
Shaft	331367-047	331843 367272		Coal	
Shaft	331367-057	331353 367392	This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed.	Coal	
Shaft	331367-058	331372 367327	This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed.	Coal	
Shaft	331367-059	331391 367315	This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed.	Coal	
Shaft	331367-060	331391 367426	This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed.	Coal	

## Abandoned mine plan catalogue numbers

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

16138	NW1531	0
PO0	543	

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

## Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BRASSEY	Coal	Yes	Within	N/A	161
MAIN	Coal	Yes	Within	N/A	150

### Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property 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

Distance to site investigation (m)	Direction
Within	N/A

See Section 4 for further information.

### Remediated sites

Distance to site remediation (m)	Direction
Within	N/A

See Section 4 for further information.

### 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

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.

### Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

### Remediated sites

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and where necessary remediated mine entries and/or shallow coal mine workings following specific reported hazards.

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

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

## Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at [groundstability@coal.gov.uk](mailto: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.

### **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 (Proven) 
- Outcrop (Conjectured) 
- Geological faults 
- Unlicensed opencast site 
- Site investigations 
- Remediated sites 



**How to contact us**  
0345 762 6848 (UK)  
+44 (0)1623 637 000 (International)  
[www.groundstability.com](http://www.groundstability.com)

C.A. Hazard Number

H 3790



# Surface Hazard Notification Form

## Nature of Incident

Brief description including approximate dimensions of any surface collapse, or other problem such as gas or water

### Nature of Incident

Hole in land - 6ft x 4ft dia x 20ft deep

## Location of Incident

National Grid Co-ordinates

Easting (m)       Northing (m)

Location

Ashfield House Farm

Street

Town

Hawarden

County/Unitary Authority

Flintshire

Postcode

Other Location Details

CA Officer - P Dawson

## Details of Caller

Title

First Name

Telephone Code

Telephone Number

Mobile Telephone Number

Company

William Hall & Co

Street

Town

County/Unitary Authority

Post Code

## Person to Contact if Different From Above

Title 2

First Name 2

Mr

J A

Surname 2

Hardern

Number 2

Company 2

Tenant

Please complete the above form and forward to :-  
Helen Day  
The Coal Authority  
200 Lichfield Lane, Berry Hill, Mansfield,  
Nottinghamshire, NG18 4RG  
and Fax on 01623 620363.  
If you have any questions please phone on  
01623 638339

p:\database\Historic\SHNF1.apr

## Person Receiving Call

Person Rec. (First Name)

Angela

Person Rec (Surname)

Clarke

## Time of Call

Time of Call

11:00 am

Date of Call

06/05/03

please tick appropriate box

<input type="checkbox"/>	England	<input type="checkbox"/>	JMC or IMC
<input type="checkbox"/>	Scotland	<input type="checkbox"/>	IMC
<input type="checkbox"/>	/ Wales	<input type="checkbox"/>	JMC

## Consultant Notification Details

Engineer Contacted (Name)

Ian McCormick

Time Engineer Contacted

11:07 am

Date Engineer Contacted

06/05/03

JMC Mining Services  
Tel. Office Hrs 01773 830130  
Fax 01773 830230  
Tel Outside Office Hours  
07939 648164

IMC  
Tel. Office Hrs 01623 441444  
Fax 01623 440021  
Tel Outside Office Hours  
07831 126615





This matter is being dealt with by Keith Banton

Our Ref: 187659-03

Your Ref: H3790 6-5-03

Incident Date:

## SURFACE HAZARD REPORT

### Description and Location of Incident



**For Internal Use  
Only**

**Location:** 331517E 367283N

### Disused Mine Entries

None

### Recorded Past Mining

None

Recorded Past Opencast Mining?

Y

### Licence Details

None

### Possible Unrecorded Shallow Mining

Inside Area of Possible Unrecorded Shallow Mining?

Y

Outcrops in Locality?

Y

*faxed to  
1 August*

**Site Investigation Areas**

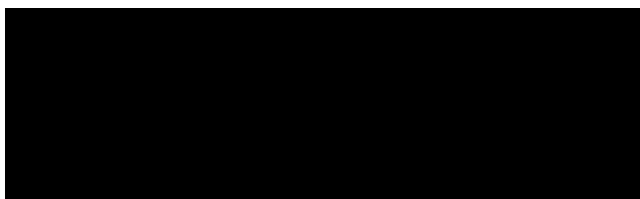
Within Site Investigation Area? N

**Indemnification Issued**

Coal Authority Indemnified? N

**Surface Hazard History**

Previous Surface Hazards at this Locality? N

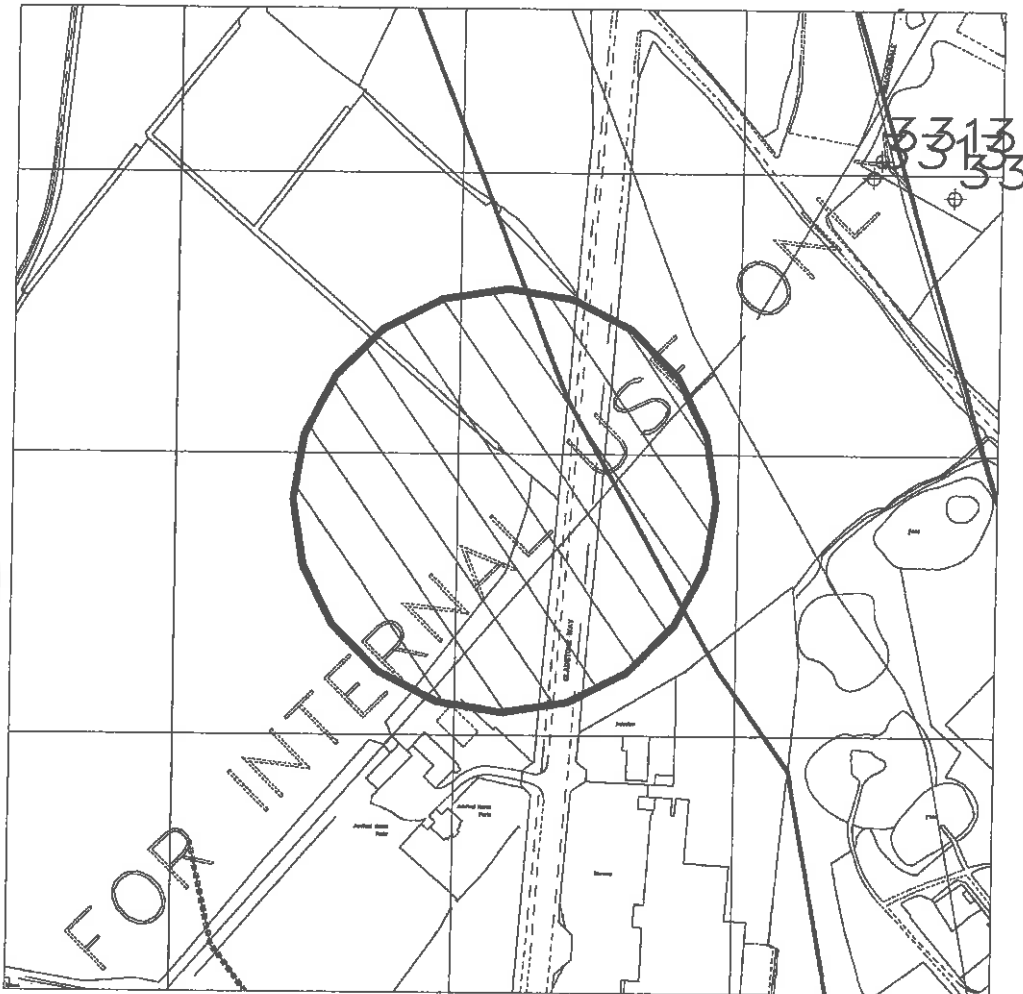


**Albert Schofield**  
**Director of Mining Records and Services**

Date: 6 May 2003

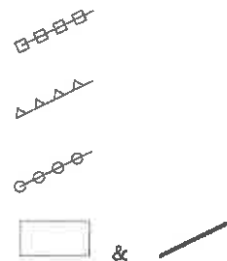
PLAN TO BE USED IN CONJUNCTION WITH COAL MINING REPORT

REFERENCE: 187659-03



Crown Copyright. Quoted scale is approximate.  
SCALE: 1:2500

- APPROXIMATE POSITION OF FAULTS SHOWN
- APPROXIMATE POSITION OF FISSURES SHOWN
- APPROXIMATE POSITION OF BREAKLINES SHOWN
- APPROXIMATE POSITION OF OUTCROPS SHOWN



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**MANAGEMENT OF 'SURFACE HAZARDS'  
VISIT REPORT**

Name of site ; Ashfield House Farm, HAWARDEN, Flintshire.				Ref N° ;            H 3790				
Visited by ; <span style="background-color: black; color: black;">                    </span>				Date visited ;    10/07/03				
<p>Details ;</p> <p>I attended site with the Contractor, LCC, to carry out the investigation to a collapse in the field at the above farm.</p> <p>The field had recently been cut but a second crop was currently been grown. The ground was dry and very firm.</p> <p>Plant used was a JCB and 10 tonne of topsoil was delivered directly into the field adjacent to the collapse.</p> <p>The hole was excavated in order to establish the cause. The excavation was to 3.2m depth to good clay. The excavation was 2m x 3.5m at the surface.</p> <p>At 2.5m weak ground was found which possibly indicated a filled roadway from shallow workings. However the collapse is adjacent to previous open cast workings but this area is not known to have been worked. The excavation yielded a small amount of possible support timber and what may have been shotwire.</p> <p>The excavation was filled and compacted to just below surface level and the area levelled with topsoil.</p> <p>The collapse is likely to be mining related.</p>								
Environmental check (if √ comment above or provide details on a separate sheet and bring to the attention of the contractor)								
Potential Impact √ or X	Noise/Vibration	Gas/Dust	Smell	Water Discharge	Traffic Imp	Waste man	Ecology	Complaints
X	X	X	X	X	X	X	X	X
Signature ;        Ian Hughes				Date ;    13/07/03				



JMC Mining Services Ltd  
P.O. Box 36, Alfreton  
Derbyshire DE55 1NG, ENGLAND  
Tel: 01773 830130 Fax: 01773 830230  
E-Mail: [REDACTED]

1 August 2003

Reference ; H3970 3790

[REDACTED]  
Hawarden Estate  
Estate Office  
11 Glynne Way  
Hawarden  
Flintshire  
CH5 3NX

Dear [REDACTED]

**Re: Reported Surface Hazard at Ashfield House Farm, Hawarden, Flintshire**

We wish to confirm that the treatment works and the subsequent reinstatement to the above, which were carried out on behalf of the Coal Authority at your property, are now complete.

The collapse was excavated to a depth of 3.2m and opened up to an area of 2m x 3.5m. At 2.5m deep, weak ground was found which indicated possible shallow mine workings. The excavation was filled with stone and levelled with top soil.

This finalises the Coal Authority's obligations in this instance. Should you wish to discuss the matter further, please contact Mr I Hughes, JMC Mining Services Ltd, on 01773 830130.

To aid us in dealing with Surface Hazards we would be grateful if you would please complete the enclosed Customer Satisfaction form and return it to us in the stamped addressed envelope provided.

Yours faithfully

[REDACTED]  
K J Divers  
Senior Co-ordinator – Surface Hazards, Southern Region

Enc

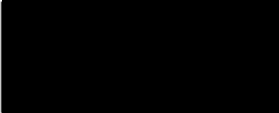
cc: Mr W Denton – The Coal Authority

**JMC MINING SERVICES LTD  
FOR THE COAL AUTHORITY  
MANAGEMENT OF "SURFACE HAZARDS"  
RECORD OF INVESTIGATION/TREATMENT**

REF NO: H3790

DATE REPORTED: 06.05.03

ADDRESS/LOCATION



GPS ;

331517 mE

367283mN

DESCRIPTION

Hole in land 2mx 1.3m x 7m deep

Shaft

Adit

Mine Working

Gas

Mine water

Heating

Other

✓

COAL AUTHORITY MINING RECORDS REF NO. (Shaft/Adit) if applicable:

N/A

INVESTIGATION

.The mining report indicated that the feature is in the area of possible unrecorded shallow workings .with outcrops in the vicinity.

The hole was excavated to a depth of 3.2m at which clay was encountered. The excavation on the surface was 2m x 3.5m. At a depth of 2.5m weak ground was found indicating the possibility of a filled roadway from shallow workings. The collapse is adjacent to previous opencast workings but in an area not known to have been worked before.

Site Works:

Yes

Started:

13/06/03

Completed:

13/06/03

TREATMENT

The excavation was filled and compacted with 10 tonne of topsoil.

Site Works:

Yes

Started:

13/06/03

Completed:

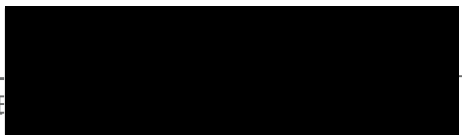
13/06/03

COAL AUTHORITY " SURFACE HAZARD"

Yes

Other Comments:

None



SIGNE

Copy to The Coal Authority:

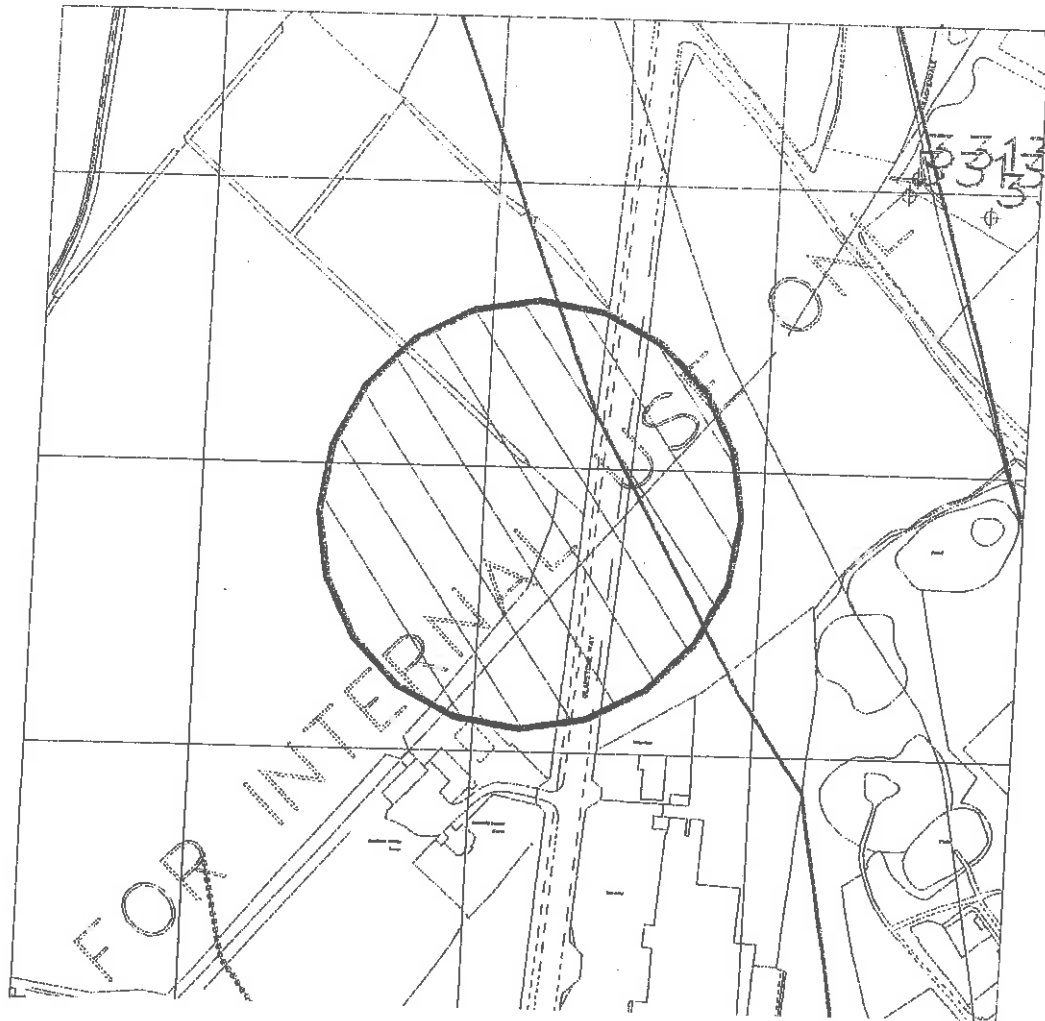
✓

DATE:

5 August 2003

Copy to Mining Reports:

✓



Historic Liabilities

JMC Mining Services  
PO Box 36  
Alfreton  
Derbyshire  
DE55 1NG

LOCATION PLAN

SCALE 1: 2500

REF NO. H3790



JMC Mining Services Ltd  
P.O. Box 36, Alfreton  
Derbyshire DE55 1NG, ENGLAND  
Tel: 01773 830130 Fax: 01773 830230

This matter is being dealt with by Mr I McCormick, JMC Mining Services Ltd

22 October 2003

Reference ; H3790

27 OCT 2003

Dear [REDACTED]

**Re: Reported mining hazard at Ashfield House Farm, Hawarden**

Further to your site meeting with our engineer, Mr I Hughes, regarding crop loss and weed control, the Coal Authority have instructed JMC to offer you £200 in full and final settlement.

Could you please acknowledge agreement that you accept this amount in full and final settlement by signing, dating and returning both copies of this letter to these offices in the envelope provided. We will then return to you a letter signed by both parties followed shortly by a cheque for the above amount.

signed [REDACTED]

date *Oct 23 2003* ..... V.A.T. reg No (if applicable) *160 1235 15* .....

**Senior Co-ordinator – Surface Hazards, Southern Region**

cc: Mr W Denton – The Coal Authority





JMC Mining Services Ltd  
P.O. Box 36, Alfreton  
Derbyshire DE55 1NG, ENGLAND  
Tel: 01773 830130 Fax: 01773 830230



Thursday, 20 November 2003

Reference H3790



Dear Sir

**Re: Reported Mining Hazard at Ashfield House Farm, Hawarden.**

I refer to your signed letter to JMC dated 22<sup>nd</sup> October 2003, regarding your acceptance of £200 in full and final settlement for crop loss and weed control.

Please find enclosed a cheque to the value of £200 in respect of the above.

Please sign and return the enclosed acceptance slip to the above offices in the envelope provided.



Yours faithfully



**R J Divers**  
**Senior Co-ordinator – Surface Hazards**

cc: Mr W Denton – The Coal Authority  
cc: File

Enc

 	Company Document ID	
	<b>1025H0BGRV09410</b>	
	Sheet of Sheets 29 / 282	
	Validity Status	Revision Number
	CD-FE	02

**Coal Mining Report (Northop Hall to Old Aston Hill) – 510025234473001**



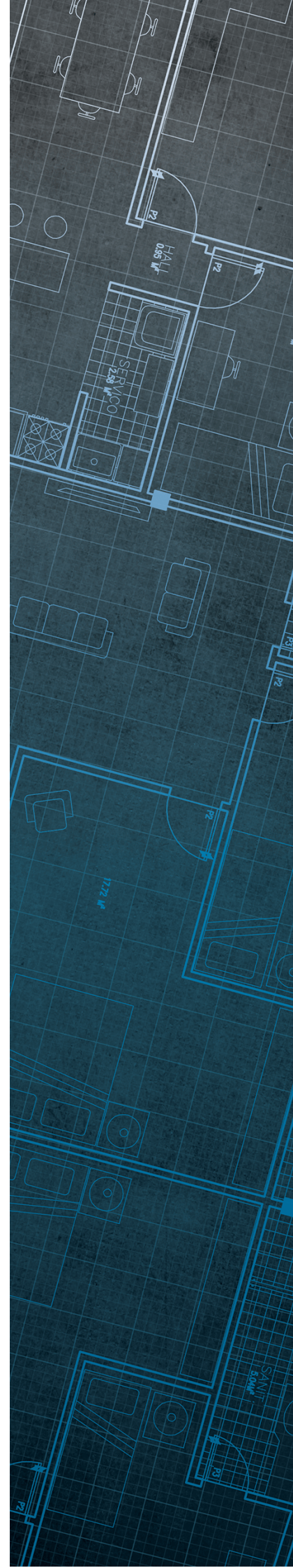
The Coal  
Authority

# Consultants Coal Mining Report

Liverpool Bay Ccs  
Flintshire

Date of enquiry: 7 May 2021  
Date enquiry received: 7 May 2021  
Issue date: 7 May 2021

Our reference: 51002524473001  
Your reference: Liverpool Bay G&G Desk  
Study 1



# 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

ENI ENGINEERING

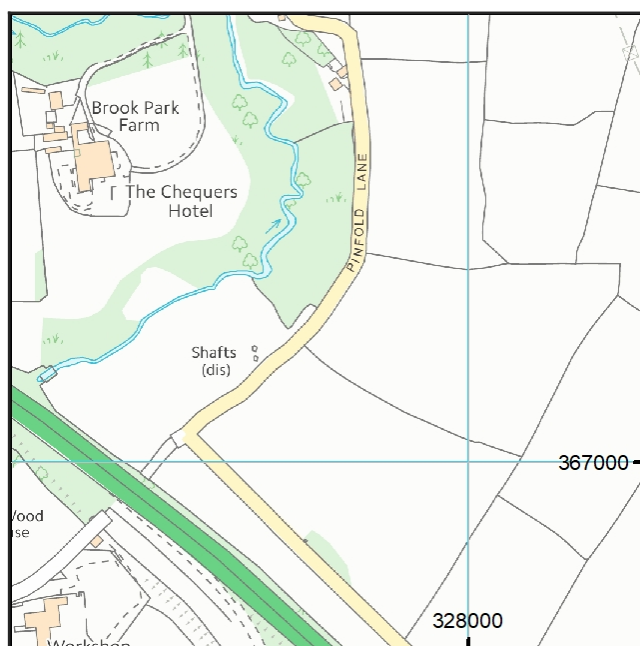
### Enquiry address

Liverpool Bay Ccs  
Flintshire

### How to contact us

0345 762 6848 (UK)  
+44 (0)1623 637 000 (International)

200 Lichfield Lane  
Mansfield  
Nottinghamshire  
NG18 4RG



Approximate position of property



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# Section 1 – Mining activity and geology

## Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	PREMIER (LOWER FOOT)	Coal	3CQN	6	Beneath Property	11.0	South-East	120	1937
unnamed	HALF YARD / QUEEN	Coal	3CRW	12	Beneath Property	11.0	South-East	50	1939
unnamed	QUEEN (BYCHTON 2 YD)	Coal	3CRW	12	Beneath Property	11.0	South-East	50	1939
unnamed	HALF YARD / QUEEN	Coal	3CRX	12	Beneath Property	11.0	South-East	50	1927
unnamed	QUEEN (BYCHTON 2 YD)	Coal	3CRX	12	Beneath Property	11.0	South-East	50	1927
unnamed	PREMIER (LOWER FOOT)	Coal	3CQM	14	Beneath Property	14.0	East	140	1949
unnamed	PREMIER (LOWER FOOT)	Coal	3CR7	26	South-West	14.0	East	140	1949
unnamed	HOLLIN	Coal	37YM	58	Beneath Property	4.0	South	180	1914
unnamed	PREMIER (LOWER FOOT)	Coal	3CRB	68	South-East	8.1	East	130	1906
unnamed	MAIN	Coal	7H1P	91	Beneath Property	10.3	South	250	1845
unnamed	HOLLIN	Coal	37YO	99	Beneath Property	8.0	South	180	1914
unnamed	MAIN	Coal	37WS	106	South-West	10.3	South	250	1845
unnamed	MAIN	Coal	37W7	107	Beneath Property	8.0	South	200	1800
unnamed	MAIN	Coal	37WX	111	Beneath Property	8.1	South-East	250	1886
unnamed	HOLLIN	Coal	37YP	114	Beneath Property	8.0	South	180	1800
unnamed	HOLLIN	Coal	7906	121	Beneath Property	8.1	South-East	180	1886
unnamed	MAIN	Coal	37WT	124	Beneath Property	4.0	South	250	1914
unnamed	MAIN	Coal	7H1O	128	Beneath Property	10.3	South	250	1845
unnamed	YARD	Coal	37T9	153	South	8.1	East	90	1906
unnamed	HOLLIN	Coal	37YK	170	South	5.7	East	180	1920

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	PREMIER (LOWER FOOT)	Coal	3CRA	182	South	8.1	East	130	1906
unnamed	MAIN	Coal	7H1S	198	South	11.3	East	200	1909
unnamed	MAIN	Coal	7H1T	213	South-West	11.3	East	200	1914
unnamed	HOLLIN	Coal	37YL	214	South	8.0	East	180	1903
unnamed	PREMIER (LOWER FOOT)	Coal	3CQP	302	South-West	12.5	East	140	1897

### Probable unrecorded shallow workings

None.

### 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	326367-040	326685 367701		Coal	
Shaft	326367-041	326721 367641		Coal	
Shaft	326367-042	326969 367637		Coal	
Adit	327366-235	327856 366901		Coal	
Shaft	327366-236	327869 366871		Coal	
Shaft	327367-043	327023 367627	Mine entry treated under Permit 8903, by Drillquest Limited under the supervision of Robert E Fry & Associates Limited acting on behalf of Anwyl Construction Company Limited. The shaft was located following the removal of surface waste material. The location works confirmed that the mine entry was filled to ground level with no visible surface voiding with the site investigations also demonstrating that rock material lay at shallow depth (approx. 2.5m) which could be used for the support of a reinforced concrete cap and therefore the drilling and grouting of the shaft was not undertaken. A 6.2m x 6.2m concrete cap was the constructed comprising a minimum 450mm thick reinforced concrete slab containing 2 layers of 40mm diameter bars at 100mm centres in both directions at the top and bottom of the slab	Coal	
Shaft	327367-044	327048 367642	Mine entry treated under Permit 8903, by Drillquest Limited under the supervision of Robert E Fry & Associates Limited acting on behalf of Anwyl Construction Company Limited. The shaft was located following the removal of surface waste material. The location works confirmed that the mine entry was filled to ground level with no visible surface voiding with the site investigations also demonstrating that rock material lay at shallow depth (approx. 2.5m) which could be used for the support of a reinforced concrete cap and therefore the drilling and grouting of the shaft was not undertaken. A 6.2m x 6.2m concrete cap was the constructed comprising a minimum 450mm thick reinforced concrete slab containing 2 layers of 40mm diameter bars at 100mm centres in both directions at the top and bottom of the slab.	Coal	
Adit	327367-048	327737 367118	The adit was filled to an unknown specification pre 1968 with a surface settlement crater filled in February 1969.	Coal	

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	327367-049	327751 367133	The adit was filled to an unknown specification pre 1968 with a surface settlement crater filled in February 1969.	Coal	
Adit	327367-050	327803 367168		Coal	
Shaft	327367-051	327868 367175		Coal	
Adit	327367-052	327809 367098		Coal	
Adit	327367-053	327801 367079		Coal	
Adit	327367-234	327797 367156		Coal	
Shaft	327367-358	327012 367636	Mine entry treated under Permit 8903, by Drillquest Limited under the supervision of Robert E Fry & Associates Limited acting on behalf of Anwyl Construction Company Limited. The shaft was located following the removal of surface waste material. The location works confirmed that the mine entry was filled to ground level with no visible surface voiding with the site investigations also demonstrating that rock material lay at shallow depth (approx. 2.5m) which could be used for the support of a reinforced concrete cap and therefore the drilling and grouting of the shaft was not undertaken. A 6.2m x 6.2m concrete cap was the constructed comprising a minimum 450mm thick reinforced concrete slab containing 2 layers of 40mm diameter bars at 100mm centres in both directions at the top and bottom of the slab.	Coal	
Shaft	328366-179	328576 366489		Coal	
Shaft	328366-223	328487 366599		Coal	
Shaft	328366-224	328689 366626		Coal	
Shaft	329367-062	329363 367202		Coal	
Shaft	329367-063	329444 367019		Coal	
Shaft	329367-268	329246 367039		Coal	
Shaft	329367-269	329286 367029		Coal	



### Abandoned mine plan catalogue numbers

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

12970	3384	13434
NW741	10867	6281
13433	R328	11222

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.

### Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
MAIN	Coal	Yes	Within	N/A	257

### Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property 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

Distance to site investigation (m)	Direction
48.4	East

See Section 4 for further information.

### 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 in an area where a notice to withdraw support was given in 1944.

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

### Payments to owners of former copyhold land

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

## Section 4 – Further information

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

### 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.

### Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

**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](mailto:groundstability@coal.gov.uk).**

## Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at [groundstability@coal.gov.uk](mailto: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.

### **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.

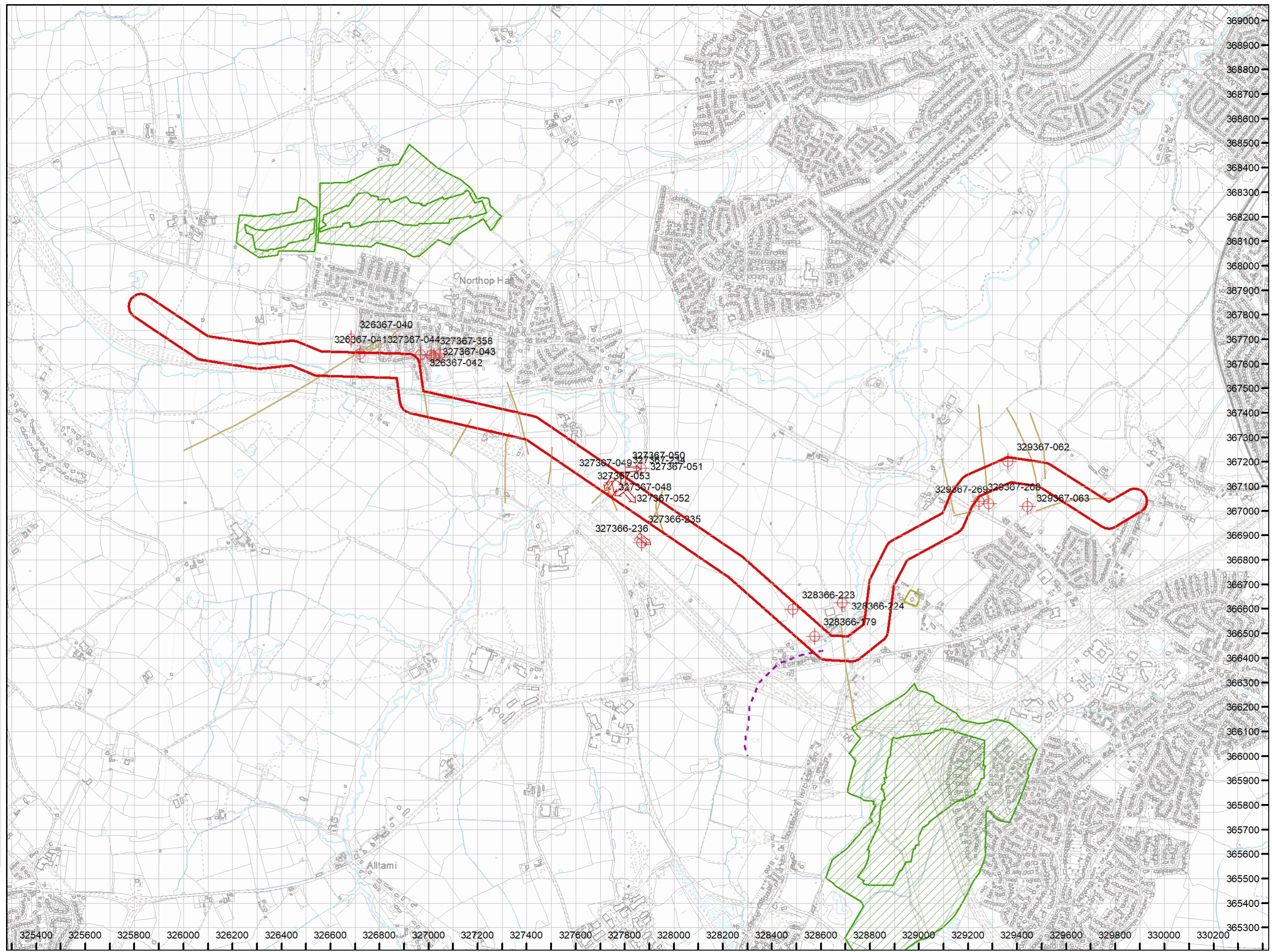
### **Payment to owners of former copyhold land**

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 
- Disused adit 
- Outcrop (Conjectured) 
- Geological faults 
- Unlicensed opencast site 
- Site investigations 





 	Company Document ID	Sheet of Sheets 30 / 282	
	<b>1025H0BGRV09410</b>	Validity Status	Revision Number
		CD-FE	02

**Coal Mining Report (Northop Hall off B5125) – 51002987213001**



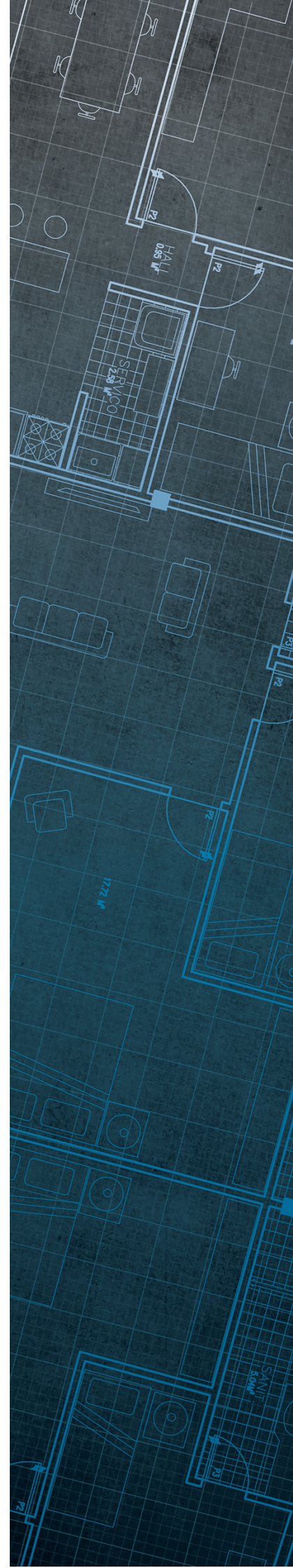
The Coal  
Authority

# Consultants Coal Mining Report

Liverpool Bay Ccs - Northop Hall  
Off B5125 Village Road  
Northop Hall  
Flintshire  
CH7 6HS

Date of enquiry: 5 April 2022  
Date enquiry received: 5 April 2022  
Issue date: 5 April 2022

Our reference: 51002987213001  
Your reference:



# 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

ENIPROGETTI

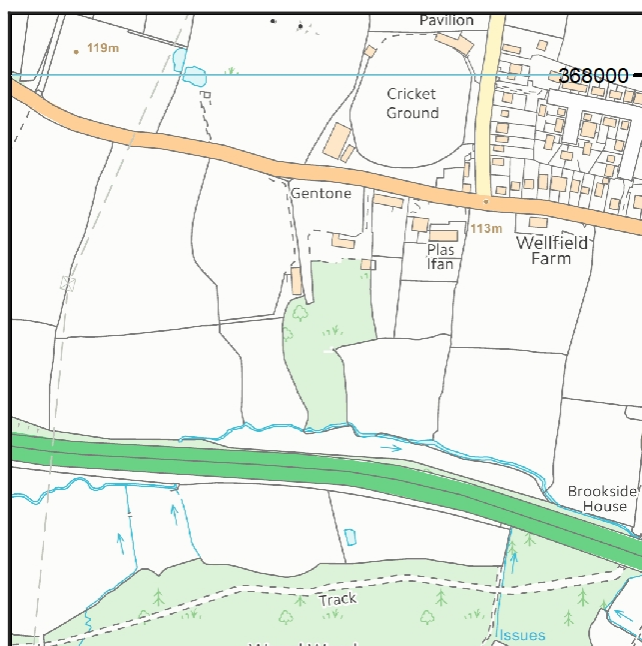
### Enquiry address

Liverpool Bay Ccs - Northop Hall  
Off B5125 Village Road  
Northop Hall  
Flintshire  
CH7 6HS

### How to contact us

0345 762 6848 (UK)  
+44 (0)1623 637 000 (International)

200 Lichfield Lane  
Mansfield  
Nottinghamshire  
NG18 4RG



Approximate position of property



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# Section 1 – Mining activity and geology

## Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	HOLLIN	Coal	37YM	57	West	4.0	South	180	1914
unnamed	HOLLIN	Coal	37YO	80	Beneath Property	8.0	South	180	1914
unnamed	MAIN	Coal	37WT	109	Beneath Property	4.0	South	250	1914
unnamed	HOLLIN	Coal	37YP	110	East	8.0	South	180	1800

## Probable unrecorded shallow workings

None.

## 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	326367-034	326376 367798	The shaft was originally filled to an unknown specification pre May 1968 It was subsequently topped up and covered with a reinforced concrete cap in December 1979. The cap consists of 17m3 of concrete with two R.S.J's and steel mesh set at ground level with marker set on cap.	Coal	
Shaft	326367-035	326406 367813	The shaft was filled to an unknown specification with colliery spoil. It was subsequently covered with a reinforced concrete cap in December 1979. The cap consists of 17m3 of concrete with two R.S.J's and steel mesh set at ground level with a marker set on the cap.	Coal	

### Abandoned mine plan catalogue numbers

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

6281	11222	NW1453
NW335	1054	

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

### Outcrops

No outcrops recorded.

### 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

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](mailto:groundstability@coal.gov.uk).**



## Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at [groundstability@coal.gov.uk](mailto: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.

### **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.

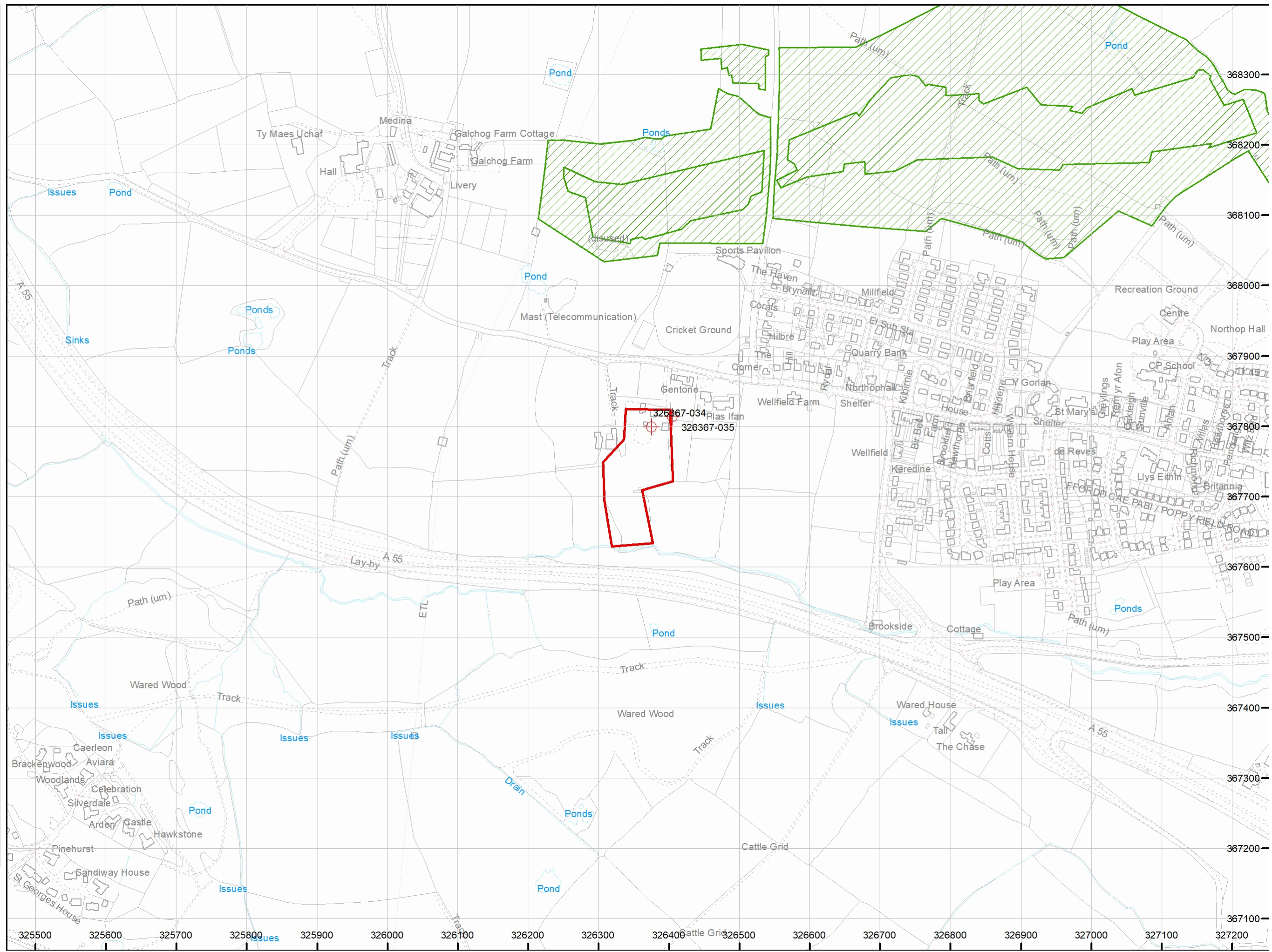
The map highlights any specific surface or subsurface features within or near to the boundary of the site.



**Key**

- Approximate position of the enquiry boundary shown 
- Disused mine shaft 
- Unlicensed opencast site 

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**Maps from the Interactive Viewer on the Coal Authority Website (Accessed on 11<sup>th</sup> April 2022)**