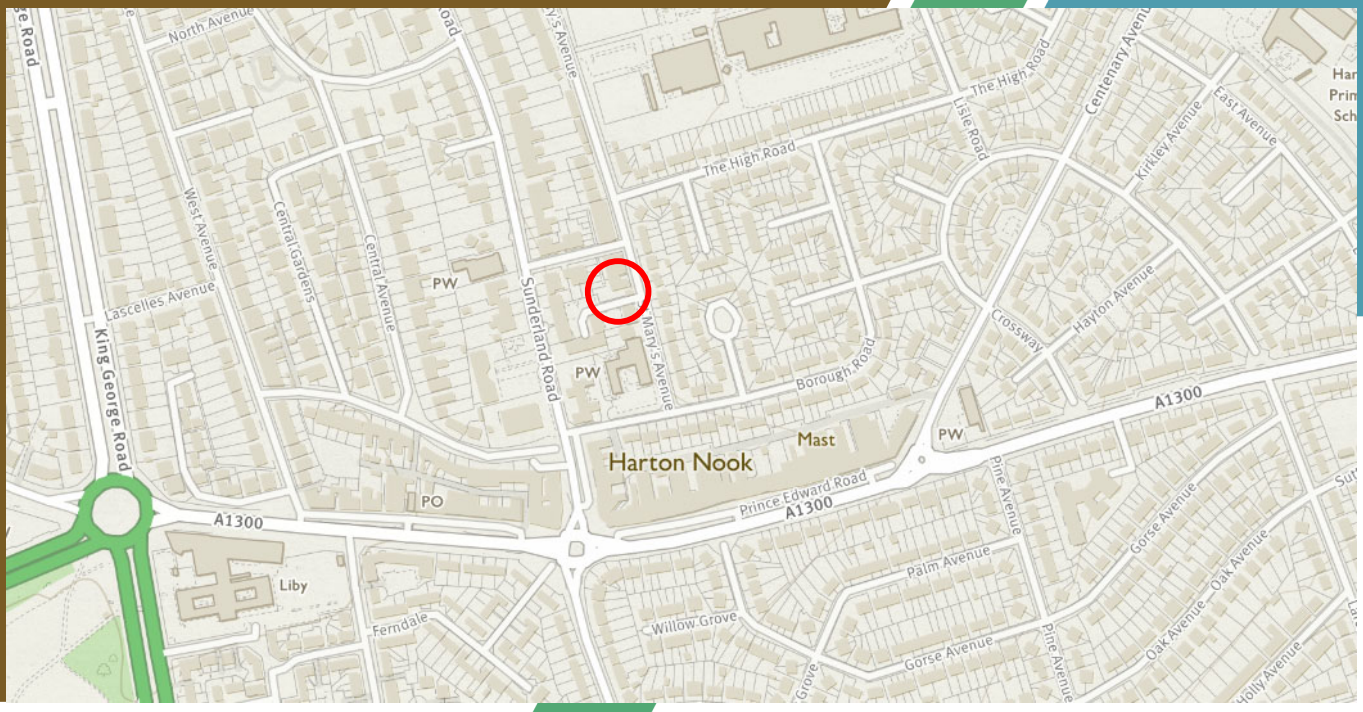
COAL MINING INVESTIGATION



13 BELGRAVE GARDENS, SOUTH SHIELDS, TYNE & WEAR, NE34 6AW

PREPARED FOR MR JOHN MCALLISTER

GEOL CONSULTANTS LTD

QUALITY CONTROL

Project No.	**GEOL20-9710**	**Client**	**Mr John McAllister**
Planning Ref.	**ST/0873/19/FUL**		
Report Type	**Coal Mining Investigation**		
Architect	**Gary Craig Architectural Services Limited**		
Project Type	**Proposed Residential Dwelling**		
Site Address	**13 Belgrave Gardens, South Shields, Tyne & Wear, NE34 6AW**		
NGR	**437865, 564501**		
Date	**13/06/2020**		

Prepared by **Qualifications** **Position**	**Terry McMenam** **BSc (Hons) CSci CEnv FGS MIEnvSc FCMI MIoD** **Director**	[redacted]
Checked by **Qualifications** **Position**	**Richard Stripp** **BSc (Hons) MSc FGS MIEnvSc** **Director**	[redacted]

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The findings and opinions provided in this document are given in good faith and are subject to the limitations and constraints imposed by the methods and information sources described in this report. Factual information, including, where stated, a visual inspection of the site, has been obtained from a variety of sources. GEOL assumes the third-party information to be reliable, but has not independently confirmed this, therefore, GEOL cannot and does not guarantee the authenticity or reliability of third-party information it has relied upon. The findings and opinions presented in this report are also relevant to the dates when the assessment was undertaken but should not necessarily be relied upon to represent conditions at a substantially later date. Further information, ground investigation, construction activities, change of site use, or the passage of time may reveal conditions that were not indicated in the data presented and therefore could not have been considered in the preparation of the report. Where such information might impact upon stated opinions, GEOL reserves the right to modify the opinions expressed in this report. Where opinions expressed in this report are based on current available guidelines and legislations, no liability can be accepted by GEOL for the effects of any future changes to such guidelines and legislation.

REPORT REVISION HISTORY				
Issue	**Description**	**Date**	**Author**	**Approval**
1	**Final Issue**	**13/06/2020**	**TMc**	**RS**

3 Gladstone Terrace,
Gateshead, NE8 4DY
Tel. 0191 477 2020
Email: enquiries@geolconsultants.co.uk

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APPENDIX II	COAL AUTHORITY CONSULTANTS COAL MINING REPORT, REFERENCE; 51002286331001
APPENDIX III	PERMIT TO ENTER OR DISTURB COAL AUTHORITY INTERESTS, REFERENCE; 19927, DATED 31ST MARCH 2020

3 Gladstone Terrace,
Gateshead, NE8 4DY
Tel. 0191 477 2020
Email: enquiries@geolconsultants.co.uk

1.0 Introduction

Geol Consultants Limited (GEOL) were commissioned by Gary Craig Architectural Services Limited on behalf of their client Mr. John McAllister to undertake a Coal Mining Investigation to facilitate the construction of a new three storey, three bedroomed terraced dwelling on land located within the boundaries of no. 13 Belgrave Gardens in South Shields, Tyne & Wear. The site is centred on National Grid Reference 437865, 564501. The following documents have been reviewed as part of this technical report.

- British Geological Survey (BGS), Sheet NS36SE, 1:10,560 scale. See Figure 1, on page 4
- Mining Risk Assessment produced by Dunelm Geotechnical & Environmental, reference; D9899, dated 16th December 2019
- Site-specific Coal Authority Consultants Coal Mining Report, reference; 51002286331001. Copy attached in Appendix II
- Permit to Enter or Disturb Coal Authority Interests, reference; 19927, dated 31st March 2020. Copy attached in Appendix III
- The Coal Authority Online Interactive Map Viewer

The borehole investigation works undertaken by GEOL comprised the sinking of 2 no. rotary (open hole) boreholes, labelled RBH01 & RBH02, and were sunk primarily to determine the depth and condition of the Usworth coal seam which, based on available BGS and Coal Mining data may be present below the site at shallow depth. The borehole positions can be seen on the Borehole Location Plan attached in Appendix I. An official permit was obtained by GEOL directly from the Coal Authority prior to undertaking the required borehole investigation works. The investigation works were undertaken on Monday 4th and Tuesday 5th May 2020.

2.0 Geological & Coal Mining Setting

Based on geological maps produced by the BGS, the site area is shown to be overlain by Glacial Till Deposits and theses are expected to comprise firm and stiff, sandy gravelly clay deposits containing cobbles and boulders. Based on nearby BGS boreholes, these deposits are expected to be <5m in thickness before bedrock deposits are expected. The bedrock deposits below the site are shown to initially comprise the Raisby Formation (Dolostone) of Permian age.

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2.0 Geological & Coal Mining Setting (Cont'd)

The Raisby Formation is underlain by the Basal (Permian) Yellow Sands, which in turn is underlain by the Pennine Upper Coal Measures of Carboniferous age. The Basal Yellow Sands lie unconformably over the Pennine Upper Coal Measures. The Usworth coal seam is shown to subcrop below the site area, generally trending from north-west to south-east and dipping to the south-west. The Usworth coal seam locally ranges in thickness between 0.27m to 0.79m. See Figure 1 below for further information relating to the sites geological setting.

The Coal Authority has divided the coalfield in to two areas, referred to as development high risk areas (DHRA's), and development low risk areas (DLRA's). The DHRA's forms 15% of the coalfield area, where coal mining risks are present at shallow depth which are likely to affect new development. The DLRA's forms 85% of the coalfield where past coal mining activity has taken place at such depth that it poses a low risk to new development. In accordance with the Coal Authority Interactive Map Viewer, the site lies within a DHRA, and in an area where the Coal Authority anticipate probable shallow mine workings.

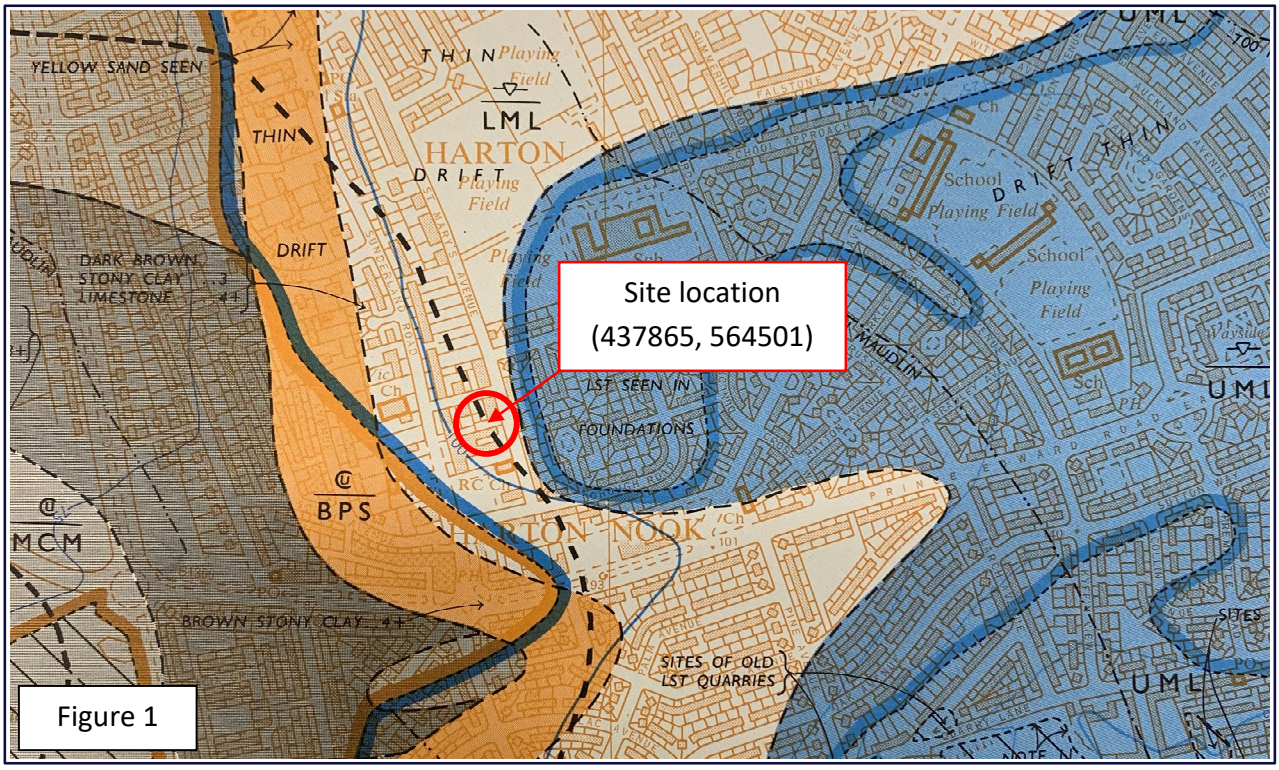


Figure 1

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2.0 Geological & Coal Mining Setting (Cont'd)

For completeness a Consultants Coal Mining Report, reference; 51002286331001 was procured from The Coal Authority, the findings of which can be seen attached in Appendix II.

The report concludes the shallowest recorded coal workings beneath the site is within the Yard coal seam and positioned at a depth of 272m below existing site levels, and last worked in 1945. The Yard coal seam is 0.90m in thickness and is positioned at a depth which will not pose a risk to the surface stability of the site, should settlement of these old workings occur. However, the report identifies the site to lie in an area where probable unrecorded shallow workings may be present. The report also identifies the relevant information shown in the Table below.

Data Type	Details
Probable unrecorded shallow workings	Yes
Spine roadways at shallow depth	No spine roadways recorded at shallow depth
Mine entries	None recorded within 100m from the site boundaries
Outcrops	No outcrops recorded
Geological faults, fissures and breaklines	No faults, fissures or breaklines recorded
Mine gas	None recorded within 500m from the site boundary
Opencast mines	None recorded within 500m from the site boundary
Coal mining licensing	None recorded within 200m from the site boundary
Coal mining subsidence	The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50m of the enquiry boundary, since 31st October 1994

Should the Usworth coal seam have been exploited in the past below the site at shallow depths, the overlying rock cover ratio to extraction thickness may exceed the conventionally accepted minimum rock cover ratio of 1:10, which is commonly taken as "safe" conditions in accordance with current guidance. In this instance, given the data available for the site, site-specific borehole data would be required to confirm the depth and condition of the Usworth coal seam.

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3.0 Site-Specific Coal Mining Investigation Works

Given the nature of the bedrock geology, GEOL completed a series of rotary (open hole) boreholes using a water flush medium to determine the risks posed to the site from potential unrecorded workings within the Usworth coal seam. Copies of the borehole record sheets can be seen attached in Appendix I. A permit (reference; 19927) was obtained directly from the Coal Authority to enter or disturb their coal mining related interests prior to undertaking the borehole investigation works.

The boreholes were sunk during May 2020 to a maximum depth of 30.50m below existing site levels and purposely targeted the Usworth coal seam. Rotary open hole drilling / probing is a crude method of drilling and the primary purpose of using this technique is to determine the presence or evidence of coal workings by 'feeling' the ground. During drilling operations water flush and small cuttings are brought to the surface for identification purposes and drilling rates are observed to determine changes in the strength of the ground.

At the borehole locations, natural limestone bedrock deposits were recorded at depths of between 2.14m (RBH01) and 1.80m (RBH02) and were proven to depths ranging between 18.50m (RBH01) and 18.20m (RBH02) before sandstone deposits were recorded. The sandstone deposits were recorded to depths of 30.50m at the borehole locations.

No coal seams, or any evidence of coal workings (broken ground or voiding) or water ingress, were recorded at the borehole locations. Full (100%) water flush and steady drilling rates were maintained during the investigation period and there were no significant gas readings detected during and upon completion of the boreholes. The boreholes were backfilled with bentonite and made safe upon completion.

4.0 Conclusions & Recommendations

The rotary borehole investigation works were designed based on determining the risks posed to the site from unrecorded shallow coal workings only. In terms of coal mining risk assessments, the basic principle which underpins the process is that within the defined Coal Authority DHRA's there are existing recorded risks to the ground stability from coal mining legacy hazards and that new development proposals need to assess and mitigate these risks in the interests of public safety.

3 Gladstone Terrace,
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4.0 Conclusions & Recommendations (Cont'd)

In accordance with CIRIA (C758D) Abandoned mine workings manual, 2019 the actual geological, site location and development circumstances will influence the selection of a site-specific cover ratio, as will the proposed end use. The 10 times (10t) criterion has been used as a 'rule of thumb' throughout the UK despite wide stratigraphic variance and other evidence to contrary. The degree of protection it affords varies according to location. Nevertheless, this empirical approach, which has been proven to provide conservatism, has served the industry well to date, often irrespective of detailed knowledge of bedrock condition. Although, conceptually, the greater the depth of workings the less the risk of surface impact, it is important to recognise that it is not actual depth that isolates the workings but, primarily, the thickness of dependable bedrocks occurring below engineering rockhead.

Based on the borehole investigation works completed, the site of the proposed residential building can be considered safe, stable and suitable for development and thus no further assessment or intrusive investigation works are required with regards to historical shallow coal mining activities.

End of Report

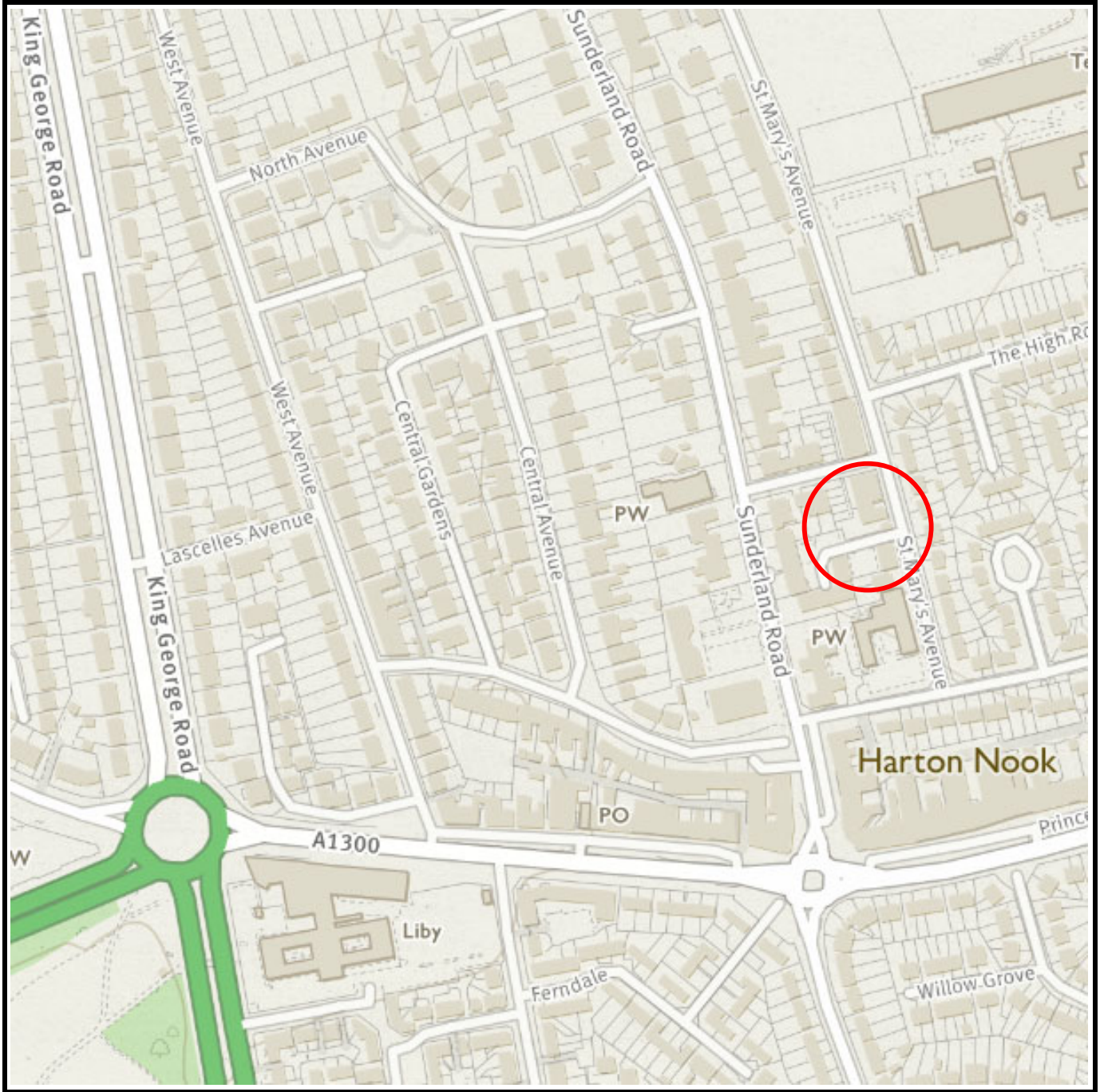
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APPENDIX I

SITE LOCATION PLAN
PROPOSED DEVELOPMENT LAYOUT PLAN
BOREHOLE LOCATION PLAN &
BOREHOLE RECORD SHEETS

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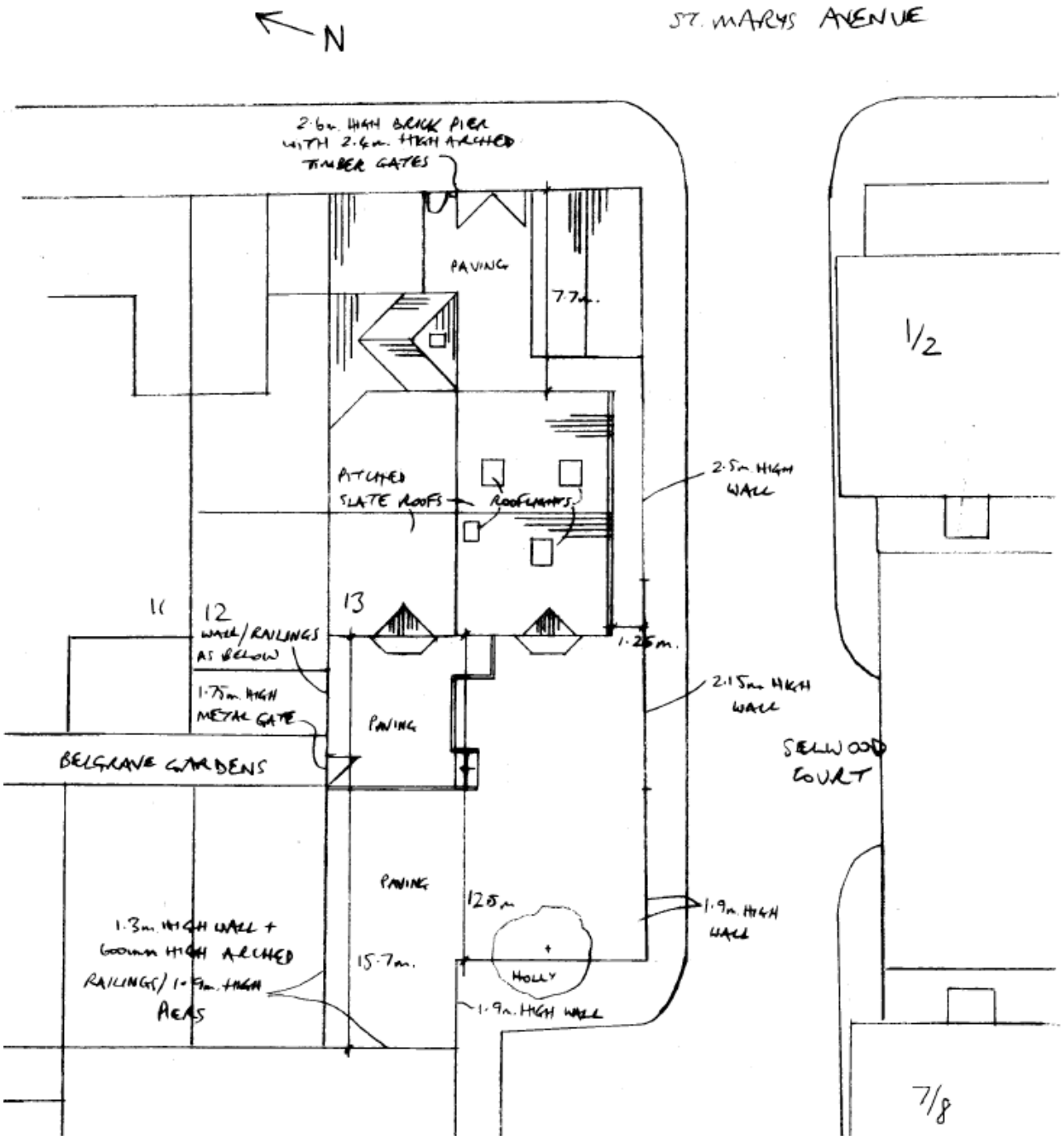
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Tyne & Wear
NE8 4DY
Tel: 0191 477 2020
Email: enquiries@geolconsultants.co.uk



SITE LOCATION PLAN

Report Type: Coal Mining Investigation
Site Address: 13 Belgrave Gardens, South Shields, Tyne & Wear, NE34 6AW
Project No.: GEOL20-9710

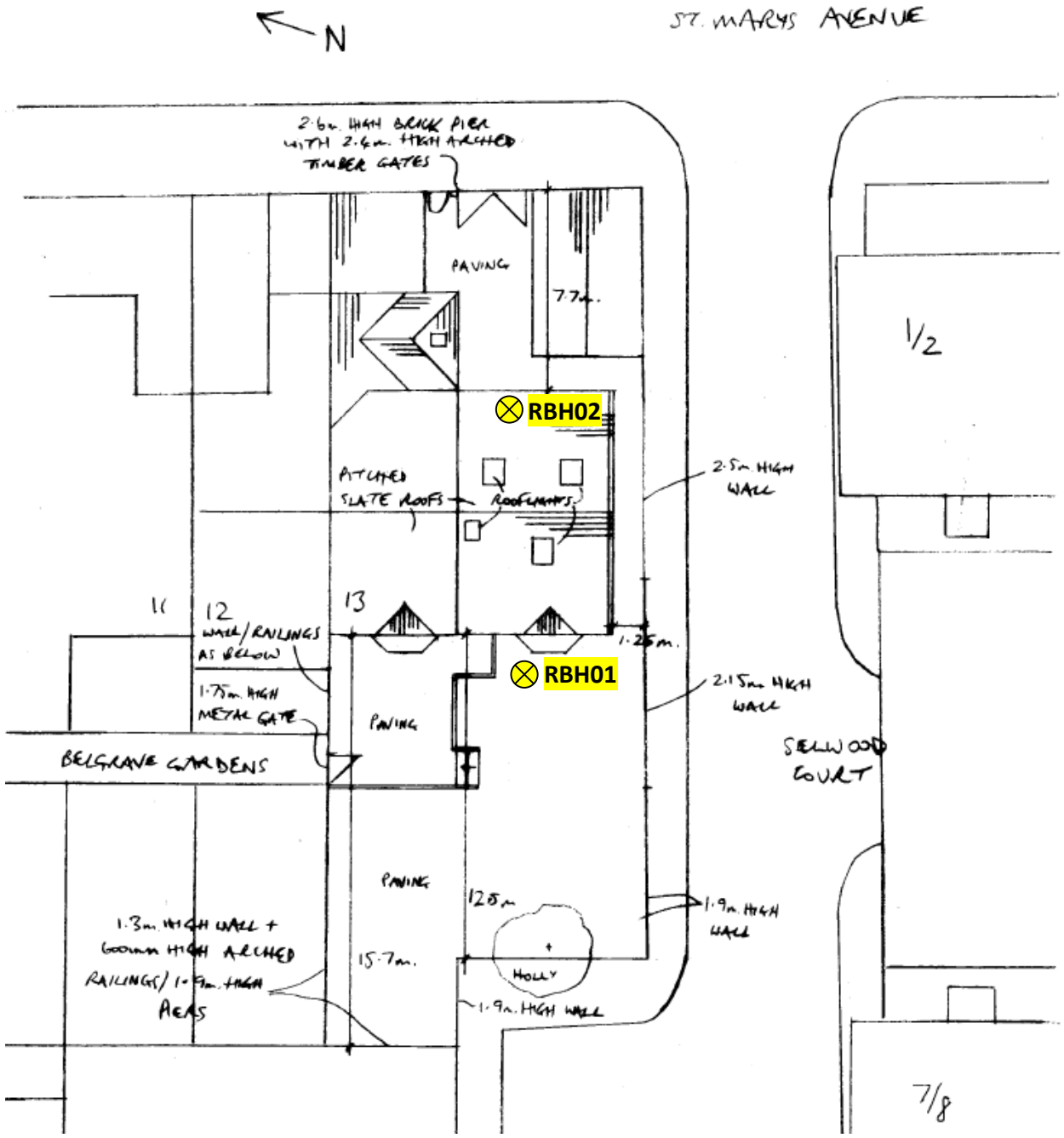
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Tyne & Wear
NE8 4DY
Tel: 0191 477 2020
Email: enquiries@geolconsultants.co.uk



PROPOSED DEVELOPMENT LAYOUT PLAN

Report Type: Coal Mining Investigation
Site Address: 13 Belgrave Gardens, South Shields, Tyne & Wear, NE34 6AW
Project No.: GEOL20-9710

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Gateshead
Tyne & Wear
NE8 4DY
Tel: 0191 477 2020
Email: enquiries@geolconsultants.co.uk



BOREHOLE LOCATION PLAN

Report Type: Coal Mining Investigation
Site Address: 13 Belgrave Gardens, South Shields, Tyne & Wear, NE34 6AW
Project No.: GEOL20-9710

Rotary Borehole

Project Name: 13 Belgrave Gardens	Client: Mr. John McAllister	Date: 04/05/2020
Location: South Shields, Tyne & Wear, NE34 6AW	Contractor: Geol Consultants Limited	
Project No. : GEOL20-9710	Crew Name: Carl Anderson / Liam Parker	Drilling Equipment: Tracked Rotary Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
RBH01	ROH		CA	1:100	Sheet 1 of 2

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
								0.27			Dark brown soil with brick fragments (drillers description).
											Medium brown sandy gravelly CLAY (drillers description).
								2.14			Light brown sandy weathered LIMESTONE (drillers description).
								7.30			Buff sandy LIMESTONE (drillers description).
								18.50			Light brown SANDSTONE (drillers description).
			Type/FI	TCR	SCR	RQD	D/R/(SPT)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

The descriptions are based purely on the drillers interpretation of cuttings brought to the surface and the drilling rates maintained during the drilling process. No soft spots or voids were recorded. No gas levels were detected. 100% water flush was maintained during the drilling process.

Rotary Borehole

Project Name: 13 Belgrave Gardens	Client: Mr. John McAllister	Date: 04/05/2020
Location: South Shields, Tyne & Wear, NE34 6AW	Contractor: Geol Consultants Limited	
Project No. : GEOL20-9710	Crew Name: Carl Anderson / Liam Parker	Drilling Equipment: Tracked Drilling Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
RBH01	ROH		CA	1:100	Sheet 2 of 2

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
											Light brown SANDSTONE (drillers description).
								30.50			End of Borehole at 30.50m
			Type/FI	TCR	SCR	RQD	D/R/(SPT)				

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

The descriptions are based purely on the drillers interpretation of cuttings brought to the surface and the drilling rates maintained during the drilling process. No soft spots or voids were recorded. No gas levels were detected. 100% water flush was maintained during the drilling process.

Rotary Borehole

Project Name: 13 Belgrave Gardens	Client: Mr. John McAllister	Date: 05/05/2020
Location: South Shields, Tyne & Wear, NE34 6AW	Contractor: Geol Consultants Limited	
Project No. : GEOL20-9710	Crew Name: Carl Anderson / Liam Parker	Drilling Equipment: Rotary Drilling Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
RBH02	ROH		CA	1:100	Sheet 1 of 2

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
								0.30			Dark brown soil with brick fragments (drillers description).
											Medium brown sandy gravelly CLAY (drillers description).
								1.80			Light brown sandy weathered LIMESTONE (drillers description).
								7.55			Buff sandy LIMESTONE (drillers description).
								18.20			Light brown SANDSTONE (drillers description).
			Type/FI	TCR	SCR	RQD	D/R/(SPT)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

The descriptions are based purely on the drillers interpretation of cuttings brought to the surface and the drilling rates maintained during the drilling process. No soft spots or voids were recorded. No gas levels were detected. 100% water flush was maintained during the drilling process.

Rotary Borehole

Project Name: 13 Belgrave Gardens	Client: Mr. John McAllister	Date: 05/05/2020
Location: South Shields, Tyne & Wear, NE34 6AW	Contractor: Geol Consultants Limited	
Project No. : GEOL20-9710	Crew Name: Carl Anderson / Liam Parker	Drilling Equipment: Tracked Drilling Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
RBH02	ROH		CA	1:100	Sheet 2 of 2

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
											Light brown SANDSTONE (drillers description).
								30.50			End of Borehole at 30.50m
			Type/FI	TCR	SCR	RQD	D/R/(SPT)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

The descriptions are based purely on the drillers interpretation of cuttings brought to the surface and the drilling rates maintained during the drilling process. No soft spots or voids were recorded. No gas levels were detected. 100% water flush was maintained during the drilling process.

APPENDIX II

COAL AUTHORITY CONSULTANTS COAL MINING REPORT, REFERENCE; 51002286331001

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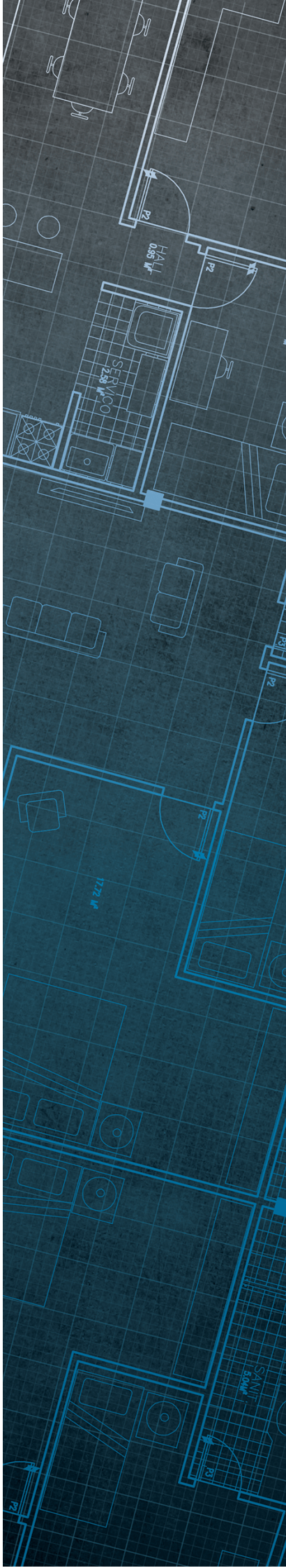
The Coal Authority

Consultants

Coal Mining Report

13 Belgrave Gardens
South Shields
South Tyneside
NE34 6AW

Date of enquiry:	**13 June 2020**
Date enquiry received:	**13 June 2020**
Issue date:	**13 June 2020**
Our reference:	**51002286331001**
Your reference:	**GEOL20-9710**



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

Paul Evans

Enquiry address

13 Belgrave Gardens
South Shields
South Tyneside
NE34 6AW



Approximate position of property

Map data

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How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

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
WESTON	YARD	Coal	513M	267	East	3.9	West	100	1957
unnamed	YARD	Coal	513C	272	Beneath Property	1.8	West	90	1945
unnamed	YARD	Coal	513D	272	West	3.6	South-West	100	1942
HARTON	YARD	Coal	5139	273	West	4.3	South-West	120	1942
WESTON	MAUDLIN	Coal	3LV0	286	East	2.5	South-West	160	1893
unnamed	MAUDLIN	Coal	512K	287	Beneath Property	4.3	South-West	170	1914
HARTON	MAUDLIN	Coal	512H	289	North	5.1	South-West	180	1914
unnamed	MAUDLIN	Coal	3LV7	291	East	5.8	South-West	160	1813
HARTON	BRASS THILL	Coal	3LU6	312	Beneath Property	3.3	South-West	130	1966
unnamed	BRASS THILL	Coal	3LU5	315	South	3.6	South-West	130	1969
HARTON	HUTTON	Coal	4NNX	321	East	2.7	South-West	130	1909
HARTON	HUTTON	Coal	4NNZ	322	East	2.7	South-West	130	1909
unnamed	HUTTON	Coal	3QAR	325	North-East	1.9	South-West	190	1921
unnamed	HUTTON	Coal	3QAP	328	Beneath Property	2.4	South-West	190	1892
HARTON	HUTTON	Coal	3QAQ	328	South-East	3.6	South-West	190	1910
HARTON	HARVEY	Coal	3LW7	368	Beneath Property	5.1	South-West	112	1952

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

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Abandoned mine plan catalogue numbers

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

11871	D724	D1237
D1238	D841	D1060
D862		

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

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

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

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

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

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

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

Development advice

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

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

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Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

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

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

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

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

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

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

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

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

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

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

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

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

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

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

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

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

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

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The Coal Authority

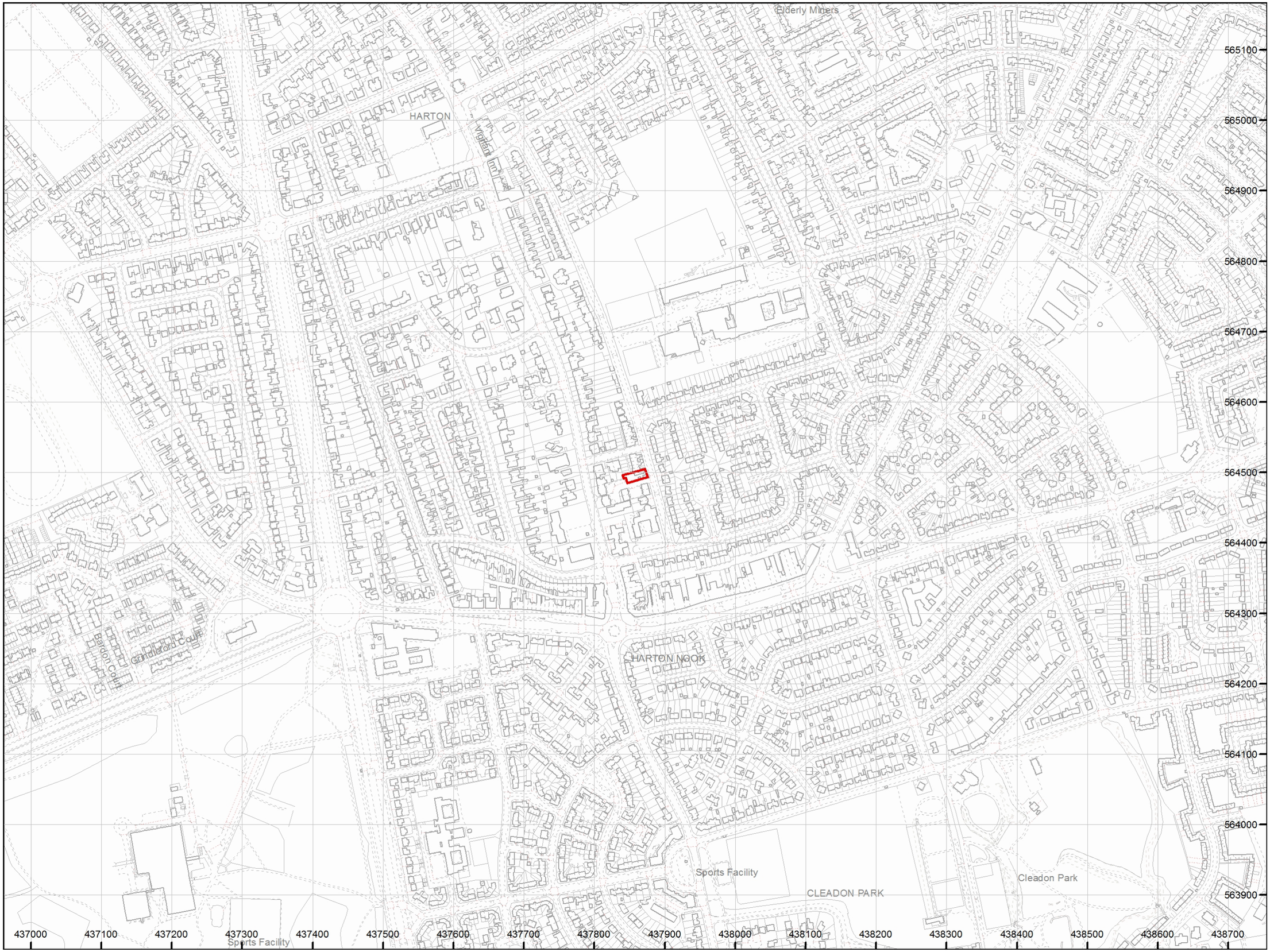
Summary of findings

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Map data

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

Key

Approximate position of the enquiry boundary shown



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

APPENDIX III

PERMIT TO ENTER OR DISTURB COAL AUTHORITY INTERESTS, REFERENCE; 19927, DATED 31ST MARCH 2020

The Coal Authority

Permit to Enter or Disturb Coal Authority Interests

Permit 19927

Name and Address of Permit Holder:

John McAllister
13 Belgrave Gardens
South Shields
Tyne & Wear
NE346AW

Site Location:

13 Belgrave Gardens
South Shields
Tyne & Wear
NE346AW

This certificate hereby grants the above named Permit Holder a Permit to carry out:-

Ground investigation comprising two rotary boreholes to 30m or as required to determine ground conditions including the potential for shallow unrecorded coal mine workings all within the Authority's interests at the identified site location above as shown on the Grant Permit Boundary (overleaf) for the period of 12 months from the granted date shown below. *The granting of this Permit does not constitute advice given by the Authority in relation to the proposed operations. It is the Permit Holder's responsibility to obtain appropriate health, safety, environmental, technical and legal advice.*

Conditions:

- *Water flush drilling only*
- *Gas Monitoring CO, CH_4, CO_2, O_2, H_2S at borehole and rig*
- *Operators undertaking the work must be in possession of this certificate and the Permit boundary plan at the time of works*

Signed: Leigh Sharpe Granted Date: ***31/03/2020***

For and on behalf of The Coal Authority

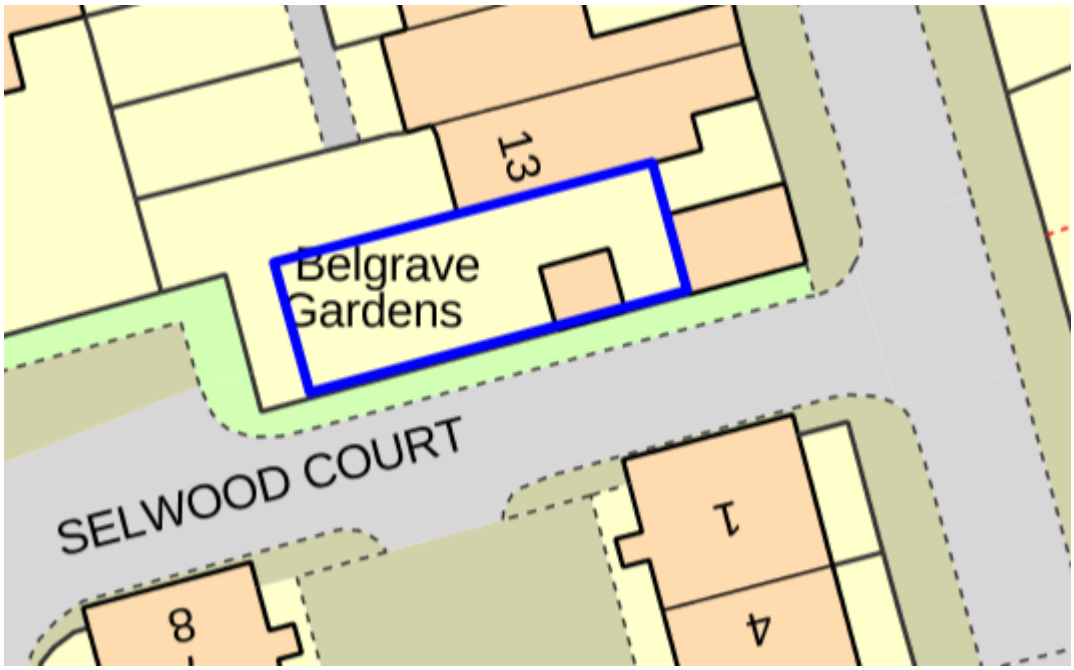
Nominated Representative: Leigh Sharpe, Permitting Manager;
The Coal Authority, Permitting Office, 200 Lichfield Lane, Mansfield, Notts, NG18 4RG
Tel: 01623 637450; E-Mail: permissions@coal.gov.uk

The Coal Authority

Granted Permit Boundary

Permit Ref: 19927

Permit Boundary:



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