

Rotary Drilling Report

LOCATION	1 Oastler Avenue, Huddersfield, HD8 4EU
ISSUE DATE	July 2024
FOR	Mohammed Rafiq
CLIENT REF.	
OUR REF.	G24169

Prepared by

Checked by

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1. Introduction

In accordance with your instruction, Geoinvestigate Limited carried out a coal drilling investigation at 1 Oastler Avenue, Huddersfield, HD8 4EU.

It is proposed to construct a dwelling at the site.

A CMRA has been carried out by Code L6 Architecture (Ref: 16-166-16, March 2017), which concluded that there was a risk of probable unrecorded shallow workings at the site.

The purpose of the drilling investigation was to establish if the new building is at risk from surface ground instability arising from historical mine workings.

2. Scope of Investigation

The following scope of investigation was carried out:

- Sinking of two (2) rotary open hole boreholes (RH1 & RH2) without core sample recovery to depths of 30m bgl to probe for shallow mine workings. The boreholes were driven by Geoinvestigate's proprietary Microdrill® system using small volume water flush. The works were carried out under CA permit 27218 and under the site supervision of a competent person.
- Gas monitoring carried out during drilling.
- Provision of a technical report including site plan, photographs and borehole logs and technical discussion.

A site plan and borehole logs are provided in Appendix 1.

3. Findings

Tarmac/brown drift was encountered to between 1.70m and 1.80m, underlain by shale and siltstone. A coal seam 300mm thick was then encountered at between 20.40m and 20.50m depth bgl. The coal seam was underlain by sandstone and mudstone to 30.00m.

None of the two holes encountered any mine working disturbance - neither broken/weak ground nor voids and full flush was returned.

No hazardous ground gas concentrations were recorded during completion of the boreholes.

4. Conclusions

This drilling investigation has confirmed that no mine workings are present within shallow depth of the property. However, a 300mm coal seam was found at a depth of circa 20m. Based on the 10x seam thickness rule, there is considered to be sufficient competent rock cover above the seam to ensure site stability. Based on the information from the BGS and CMRA this is presumed to be the Middle Band (MB) Coal

Therefore, no further mitigation neither drilling investigation, special foundation design, drilling and grouting or gas protection is required in the design of the new building with respect to coal mining legacy issues.

The findings and contents of this (intrusive) Site Investigation Report pertain solely to the study area(s) outlined herein and are based solely on the findings of the excavations undertaken as part of the current exercise unless otherwise stated. The findings and/or recommendations of this report do not take into account any ground conditions that may be present but have hitherto not been encountered and as such further investigation and/or a reconsideration of the findings of this report should be undertaken if such conditions are subsequently encountered or an alternative development plan or land use is subsequently proposed.

This report considers various environmental and/or geological risks posed to the site and/or proposed development and offers advice accordingly as guidance only. The findings of this report will remain valid provided no change of ground or groundwater conditions, either natural or anthropogenic, take place and no warrantee is offered or implied.

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APPENDIX 1

SITE PLAN & BOREHOLE LOGS

GEOINVESTIGATE Ltd.

OUR REF: G24169	YOUR REF:	SITE PLAN (NOT TO SCALE)
DATE: 18/07/24	LOCATION: 1 Oastler Avenue, Huddersfield, HD8 4EU	



Key

Rotary Borehole
Location

GEOINVESTIGATE Ltd.

Your Ref.

Our Ref. G24169

RH No.1 Sheet No. 1 of 2

Location: 1 Oastler Avenue, Huddersfield, HD1 4EU

DATE: 18/07/24

Depth (m)	Description of Strata	Thickness	Legend	Gas Well	Sample	Test Type Result	Flush	Depth to Water	Depth (m)
1.80	TARMAC/brown DRIFT.	1800							
10.60	Grey SHALE.	8800							2.50 5.00 7.50 10.00
20.40	Dark grey SILTSTONE.	9800							12.50 15.00 17.50 20.00
20.70	Black COAL.	300							
21.40	Brown SANDSTONE.	700							
	Dark grey MUDSTONE.	8600							22.50 25.00

Remarks: Casing to 2.00m

Microdrill rotary open hole borehole to 30.00m

No cores recovered from borehole

No gas detected from borehole on completion

Full flush returned, no voids encountered

Key:

Slotted Pipe
Plain Pipe
Bentonite
Gravel Filter

O Disturbed sample

Cv Shear vane

W Water sample

S Standard Penetration Test

C Cone Penetration Test

RH1

GEOINVESTIGATE Ltd.

Your Ref.

Our Ref. G24169

RH No.1 Sheet No. 2 of 2

Location: 1 Oastler Avenue, Huddersfield, HD1 4EU

DATE: 18/07/24

[illegible]

Remarks: Casing to 2.00m

Microdrill rotary open hole borehole to 30.00m

No cores recovered from borehole

No gas detected from borehole on completion

Full flush returned, no voids encountered

Key:



Slotted Pipe		
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Plain Pipe

Bentonite

Gravel Filter

0	Disturbed sample
---	------------------

Cv Shear vane

W Water sample

S Standard Penetration Test

C Cone Penetration Test

RH1

GEOINVESTIGATE Ltd.

Your Ref.

Our Ref. G24169

RH No.2 Sheet No. 1 of 2

Location: 1 Oastler Avenue, Huddersfield, HD1 4EU

DATE: 18/07/24

Depth (m)	Description of Strata	Thickness	Legend	Gas Well	Sample	Test Type Result	Flush	Depth to Water	Depth (m)
1.70	TARMAC/brown DRIFT.	1700							
10.70	Grey SHALE.	9000							2.50 5.00 7.50 10.00
20.50	Dark grey SILTSTONE.	9800							12.50 15.00 17.50 20.00
20.80	Black COAL.	300							
21.50	Brown SANDSTONE.	700							
	Dark grey MUDSTONE.	8500							22.50 25.00

Remarks: Casing to 2.00m

Microdrill rotary open hole borehole to 30.00m

No cores recovered from borehole

No gas detected from borehole on completion

Full flush returned, no voids encountered

Key:

Slotted Pipe
Plain Pipe
Bentonite
Gravel Filter

O Disturbed sample

Cv Shear vane

W Water sample

S Standard Penetration Test

C Cone Penetration Test

RH2

GEOINVESTIGATE Ltd.

Your Ref.

Our Ref. G24169

RH No.2 Sheet No. 2 of 2

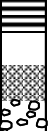
Location: 1 Oastler Avenue, Huddersfield, HD1 4EU

DATE: 18/07/24

Depth (m)	Description of Strata	Thickness	Legend	Gas Well	Sample	Test Type Result	Flush	Depth to Water	Depth (m)
30.00	Dark grey MUDSTONE.	8500							27.50
									30.00

Remarks: Casing to 2.00m
Microdrill rotary open hole borehole to 30.00m
No cores recovered from borehole
No gas detected from borehole on completion
Full flush returned, no voids encountered

Key:

 Slotted Pipe
 Plain Pipe
 Bentonite
 Gravel Filter

O Disturbed sample
Cv Shear vane
W Water sample
S Standard Penetration Test
C Cone Penetration Test

RH2

APPENDIX 2

SI PHOTOS & DRILLING PERMIT





The Coal
Authority

Permit to Enter or Disturb Coal Authority Interests

Permit 28650

Name and Address of Permit Holder:

Mohammed Rafiq
1
Oastler Avenue
Springwood
Huddersfield
HD1 4BH

Site Location:

1 Oastler Avenue
Springwood
Huddersfield
HD1 4BH

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

Ground investigation by two boreholes to 30m to determine the presence of shallow mine workings 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:

- *Manned entry (i.e.) into mine entries/workings) is strictly prohibited.*
- *Water flush*
- *Gas Monitoring CO, CH₄, CO₂, O₂, H₂S at boreholes and rig*
- *Operators undertaking the work must be in possession of this certificate and the Permit boundary plan at the time of works*
- *Appropriate borehole sealing without delay and to withstand site level changes*

Signed: Kevin Waite Granted Date: 10th July 2024

For and on behalf of The Coal Authority

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

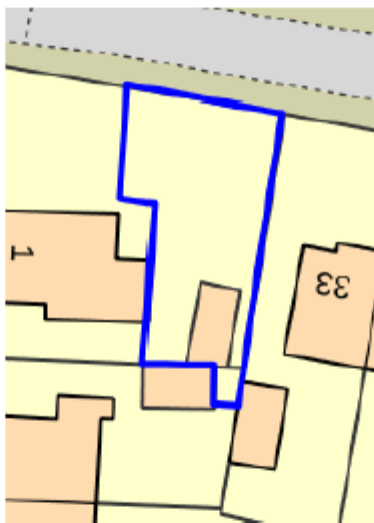


The Coal
Authority

Granted Permit Boundary

Permit Ref: 28650

Permit Boundary:



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