

Permitting Office  
Coal Authority  
200, Lichfield Lane, Mansfield  
Nottinghamshire  
NG18 4RG

17 January 2024

Your Ref: 27136  
Our Ref: OE/1702/1057/LR01/LS/17-01-2024

FAO Mr Jake Morris

**RE: 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ –  
Phase II Geoenvironmental Assessment – Shallow Mining Investigation – Permit 27136**

On 19 December 2023 a preliminary Phase II intrusive site investigation, by the use of a window sampler rig, was used to assess the Superficial deposits at the site and to establish rock head levels if shallow. Following this, over the 11/12 January 2024 a rotary rig was mobilised at the site to allow a shallow mining investigation to be completed. See Figure OE/1702/1057/R1/F01 – Site Location Plan. In compliance with the Planning Consent P23/00067/F.

Three boreholes were drilled, under Permit No. 27136 (copy attached in Appendix A) issued by the Coal Authority on 07 August 2023. Three holes were required to be drilled to circa 30 to 35m bgl to investigate if the site was underlain with any shallow voids/worked seams.

Detailed below in Table A is a summary of the findings of the rotary drilling works, completed in accordance with the agreed Coal Mining Risk Assessment and Methodology, Ref OE/1702/1057/R1, dated June 2023. Following the submission of this document and an on-line application for a drilling permit - Permit 27136 was granted - as detailed above. The positions of the completed window sample and rotary boreholes are detailed on Figure OE/1702/1057/R3/F01.

A copy of the rotary borehole logs for RBH1, RBH2 and RBH3 are collated within Appendix B.



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Directors: C Wainwright, L. Stanger

**Table A – Summary of open hole rotary drilling works**

Location	Depth of Stratum encountered (m bgl)	Description of Stratum
RBH1	0.0 to 1.7 1.7 to 16.0 16.0 to 16.6 16.6 to 17.1 17.1 to 22.0	Fill – Made Ground MUDSTONE/SANDSTONE Bands Void Backfill – Made Ground MUDSTONE/SANDSTONE Bands – end of borehole
RBH2	0.0 to 0.7 0.7 to 2.6 2.6 to 19.8 19.8 to 20.2 20.2 to 32.0	Fill – Made Ground Natural CLAY MUDSTONE/SANDSTONE Bands Coal seam - unworked MUDSTONE/SANDSTONE Bands – end of borehole
RBH	1.0 to 1.7 1.7 to 2.4 2.4 to 2.7 2.7 to 20.0 20.0 to 20.5 20.5 to 32.0	Fill – Made Ground Natural CLAY Coal seam - unworked MUDSTONE/SANDSTONE Bands Coal seam - unworked MUDSTONE/SANDSTONE Bands – end of borehole

### Comments

**Location RBH1** – The Made Ground and Superficial deposits were circa 1.7m deep. There was then 14.3m of intact MUDSTONE/SANDSTONE interbedded bands. There was then a void – presumed worked coal of 0.6m and thence a further 0.5 m of backfilled void assumed also to be the same worked coal seam. The drillers considered that some or all of the void could have occurred during the drill passing through the worked seam – within backfilled material. At 22.0m bgl the drill bit became intermittently stuck (30.0 minutes), preventing further progress and it was agreed to abandon drilling at that location.

**Location RBH2** – The Made Ground and Superficial deposits were circa 2.6m bgl. Below this was 17.2m of intact MUDSTONE with SANDSTONE interbedded bands before an unworked coal seam was intercepted at 19.8m bgl – 0.4m thick. As the borehole was progressed, it went back into intact MUDSTONE with SANDSTONE interbedded bands to 32.0 – end of borehole. It should be noted that the drill bit, during retrieval, at circa 12.0m bgl, became stuck in the borehole. It took four hours to retrieve it.

**Location RBH3** - The Made Ground and Superficial deposits were circa 2.4m bgl. Below this was a discrete unworked coal seam (2.4 to 2.7m bgl). Below this, was 17.3m of intact MUDSTONE with SANDSTONE interbedded bands At 20.0 to 20.5m was a second unworked coal seam. It then went back into intact MUDSTONE with SANDSTONE interbedded bands - 20.5 and 32.0m bgl – end of borehole.

In accordance with *Ciria Report C758D (London 2019) – Abandoned Mine Workings Manual*, calculations have been completed to assess the depth of intact rock with respect to the ratio t – see Table B below:

**Table B – Calculated Ratios of intact rock below the Superficial deposits**

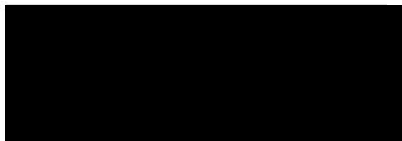
Location	Rock levels (x)	t - Calculated Ratios x/10
RBH1	1.7 to 16.0m bgl	t = 14.3/10 = 1.43
RBH2	2.6 to 32.0	t = 29.4/10 = 2.94
RBH3	2.7 to 32.0m bgl	t = 29.3/10 = 2.93

Note: x = depth of intact bedrock

Hence, at all locations the ratio t was greater than the minimum requirement of 1.0, (between 1.43 and 2.93). It is therefore, considered based on the results of the rotary drilling works and the above assessment of values for t, that further intrusive site investigation and/or grouting of voids is not required at the site. The development is for traditional ground/first floor houses.

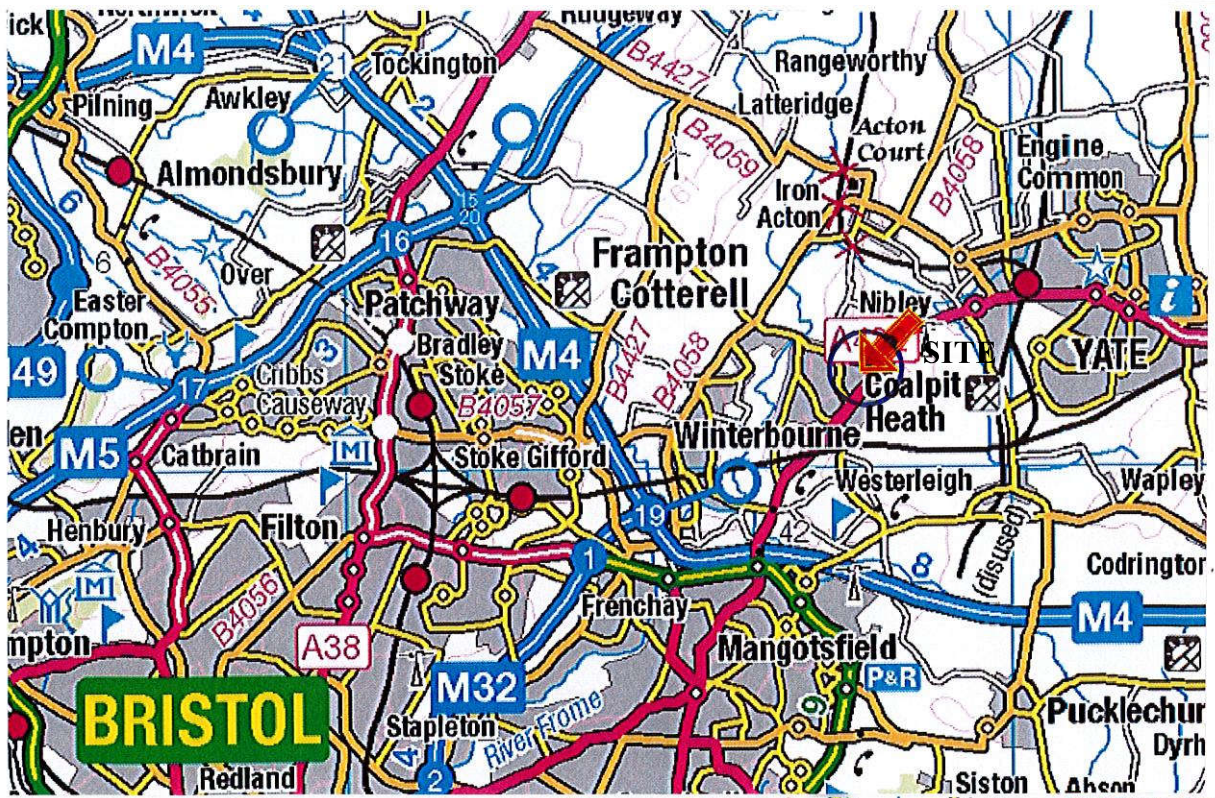
We trust you are in agreement with the above assessment and conclusions, and that they satisfy your immediate requirements. Consequently, the Permit Closure Surrender Form as been completed and a copy collated within Appendix C.


Yours faithfully,

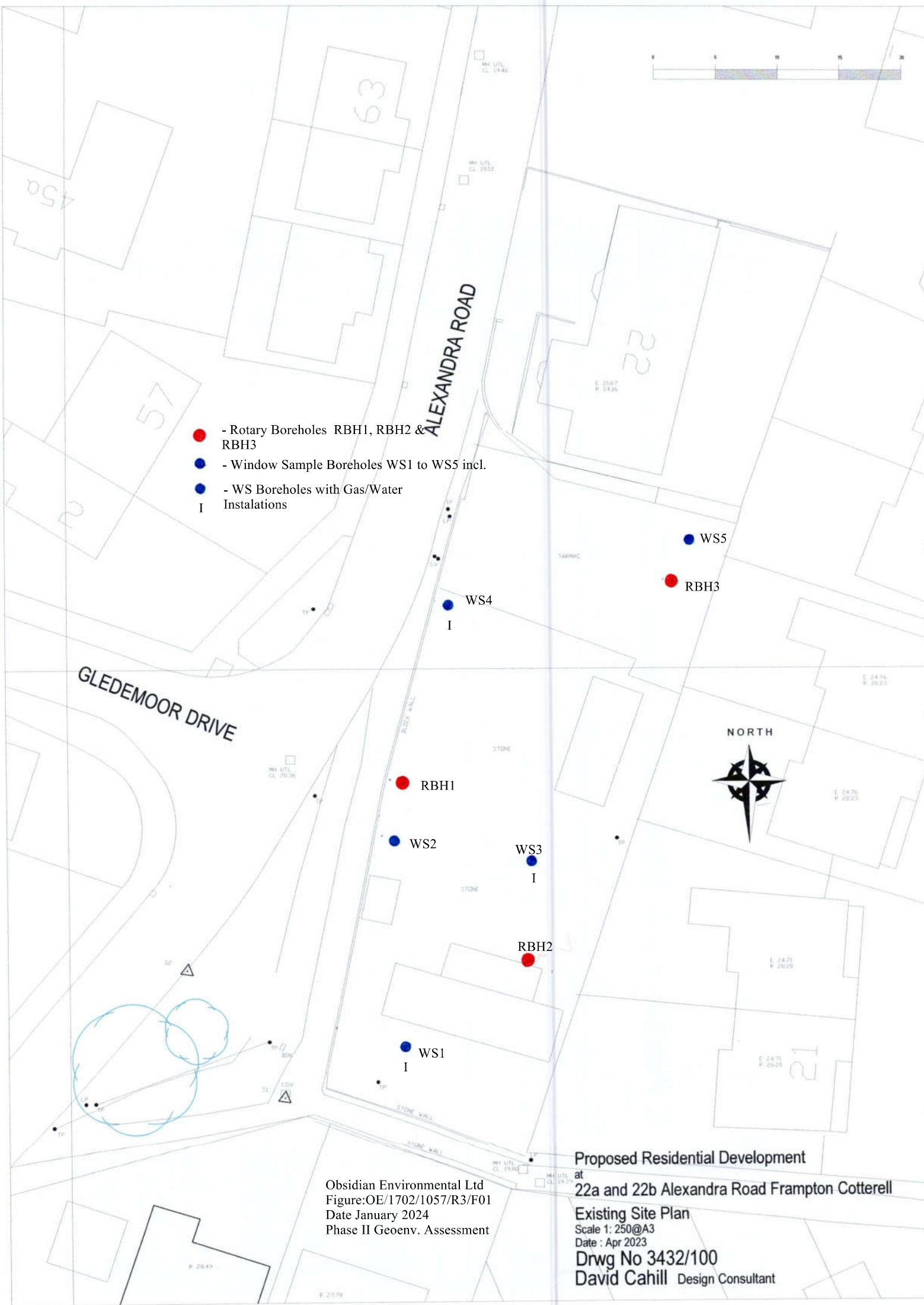


Leon Stanger BSc. CEng MICE. MIEEnvSc FGS  
Managing Director  
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## Appendix A – Figures



 <p><b>OBSIDIAN</b> ENVIRONMENTAL</p> <p>www.obsidianenvironmental.co.uk</p>	<p>Obsidian Environmental Ltd The Foundry Business Centre Marcus Street Birkenhead Wirral CH41 1EU Te: 01516457571</p>	<p>Project: Land at 22 Alexander Road, Frampton, BS36 2PZ</p>	<p>Drawn: LS</p>	<p>Scale Not to Scale</p>
		<p>Title: Site Location Plan</p>	<p>Checked: LS</p>	<p>Date 28/06/2023</p>
			<p>Client: White Horse Homes</p>	
			<p>Drawing No. OE/1792/1057/R1/F01</p>	



- - Rotary Boreholes RBH1, RBH2 & RBH3
- - Window Sample Boreholes WS1 to WS5 incl.
- - WS Boreholes with Gas/Water Instalations

**Proposed Residential Development**  
at  
**22a and 22b Alexandra Road Frampton Cotterell**

**Existing Site Plan**  
Scale 1: 250@A3  
Date : Apr 2023  
**Drwg No 3432/100**  
**David Cahill Design Consultant**

Obsidian Environmental Ltd  
Figure:OE/1702/1057/R3/F01  
Date January 2024  
Phase II Geoenv. Assessment

## **APPENDICES**

- Appendix A      Copy of Coal Authority Permit 27136**
- Appendix B      Rotary Borehole Logs – RBH1, RBH2 & RBH3**
- Appendix C      Permit Closure Surrender Form – Rotary Drilling**

## **Appendix A – Copy of Coal Authority Permit 27136**





The Coal  
Authority

# Permit to Enter or Disturb Coal Authority Interests

**Permit 27136**

**Name and Address of Permit Holder:**

*White Horse Homes Ltd, Bristol  
8 Bath Street  
Redcliffe  
Bristol  
BS1 6HL*

**Site Location:**

*Depot  
Bungalow 22a & 22b  
Alexander Road  
Frampton  
South Gloucestershire  
BS36 2PZ*

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

**Ground investigation by three boreholes to 35m to determine 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, CH<sub>4</sub>, CO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>S 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*
- *Appropriate borehole sealing without delay and to withstand site level changes*

Signed: \_\_\_\_\_



Granted Date: \_\_\_\_\_

**07/08/2023**

For and on behalf of The Coal Authority

*Nominated Representative: Jake Morris, Permitting Manager;*

*The Coal Authority, Permitting Office, 200 Lichfield Lane, Mansfield, Notts, NG18 4RG*

*Tel: 01623 637450; E-Mail: [permissions@coal.gov.uk](mailto:permissions@coal.gov.uk)*



The Coal  
Authority

# Granted Permit Boundary

Permit Ref: 27136

Permit Boundary:



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## Appendix B

## Rotary Borehole Logs – RBH1, RBH2 & RBH3



**BORE HOLE LOG**

[info@obsidianenvironmental.co.uk](mailto:info@obsidianenvironmental.co.uk)

Project		22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ			Borehole No
Job No	OE/1702/1057	Date	11/01/2024	Ground Level m	19.5m AOD
				Coordinates E	N
Contractor					Sheet
Apex Drilling Services					1 of 3

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
1.0			19.50		1.70	Made Ground (MG) - Rock fill and dark brown clay	Last 1.0m bentonite & cement Arisings	
2.0						MUDSTONE with SANDSTONE bands		
3.0								
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0			9.50			Rotary Borehole RBH1 continues to 22.0m bgl - Page 13 of 3		

GENERAL REMARKS	
No water strikes.	

All dimensions in metres Scale 1:10	Client	Method/ Plant used	Logged by
	White Horse Homes Limited	Rotary Rig	LS

**BORE HOLE LOG**

[info@obsidianenvironmental.co.uk](mailto:info@obsidianenvironmental.co.uk)



Project <b>22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ</b>			Borehole No
Job No <b>OE/1702/1057</b>	Date <b>11/01/2024</b>	Ground Level m <b>19.5m AOD</b>	Coordinates E N <b>RBH1</b>
Contractor <b>Apex Drilling Services</b>			Sheet <b>2 of 3</b>

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
10.0			10.50			MUDSTONE with SANDSTONE bands		Arisings
11.0								
12.0								
13.0								
14.0					14.30			
15.0								
16.0			3.50		0.60	Void		
17.0			2.90		0.50	Backfill material - rockfill - mudstone		
18.0			2.40		4.90	MUDSTONE with SANDSTONE bands Intact rock		
19.0								
20.0			-0.50			Rotary Borehole RBH1 continues to 22.0m bgl - Page 3 of 3		

		<b>GENERAL REMARKS</b>	
		No water strikes.	

All dimensions in metres Scale 1:10	Client <b>White Horse Homes Limited</b>	Method/ Plant used <b>Rotary Rig</b>	Logged by <b>LS</b>
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**BORE HOLE LOG**

[info@obsidianenvironmental.co.uk](mailto:info@obsidianenvironmental.co.uk)



Project		22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ			Borehole No
Job No	OE/1702/1057	Date	11/01/2024	Ground Level m	19.5m AOD
Contractor				Coordinates E	N
Apex Drilling Services				Sheet	3 of 3
				<b>RBH1</b>	

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		
1.0				-0.50		4.90	MUDSTONE with SANDSTONE bands	Arisings
2.0							MUDSTONE with SANDSTONE bands	
3.0				-2.50			End of Rotary Borehole RBH1 at 22.0m bgl	
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

		GENERAL REMARKS	
		No water strikes.	

All dimensions in metres Scale 1:10	Client	White Horse Homes Limited	Method/ Plant used	Rotary Rig	Logged by	LS
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**BORE HOLE LOG**

[info@obsidianenvironmental.co.uk](mailto:info@obsidianenvironmental.co.uk)



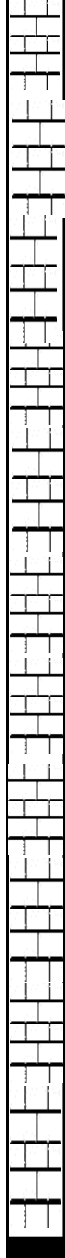
Project 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ				Bore Hole No <b>RBH2</b>	
Job No OE/1702/1057	Date 11/01/2024	Ground Level m Site Datum 19.4m	Coordinates E N		
Contractor Apex Drilling Services					Sheet 1 of 4

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
1.0			19.40		0.70	Made Ground (MG) - Rock fill		Last 1.0m bentonite cement mix
2.0					1.90	Natural soil - soft orange CLAY		
3.0						MUDSTONE with SANDSTONE bands		
6.0					17.20			
9.0			9.40			Rotary Borehole RBH2 continues to 32.0m bgl		

		GENERAL REMARKS	
		No water strikes.	

All dimensions in metres Scale 1:10	Client White Horse Homes Limited	Method/ Plant used Rotary Rig	Logged by LS
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Project <b>22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ</b>				Bore Hole No <b>RBH2</b>	
Job No <b>OE/1702/1057</b>	Date <b>11/01/2024</b>	Ground Level m <b>Site Datum 19.4m</b>	Coordinates E <b>N</b>		
Contractor <b>Apex Drilling Services</b>					Sheet <b>2 of 4</b>

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		
10.0				9.40			MUDSTONE with SANDSTONE bands	
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0						17.20		
18.0								
19.0								
20.0				-0.40		0.40	MUDSTONE with SANDSTONE bands	
				-0.60			Coal	

GENERAL REMARKS	
No water strikes.	

All dimensions in metres Scale 1:10	Client <b>White Horse Homes Limited</b>	Method/ Plant used <b>Rotary Rig</b>	Logged by <b>LS</b>
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**BORE HOLE LOG**

Project <b>22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ</b>				Bore Hole No <b>RBH2</b>	
Job No <b>OE/1702/1057</b>	Date <b>11/01/2024</b>	Ground Level m <b>Site Datum 19.4m</b>	Coordinates E <b>N</b>		
Contractor <b>Apex Drilling Services</b>					Sheet <b>3 of 4</b>

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
20.0			-0.60		0.40	Coal contd.	Arisings	
			-0.80			MUDSTONE with SANDSTONE bands		
21.0								
22.0								
23.0					11.80			
24.0								
25.0								
26.0								
27.0								
28.0								
29.0								
30.0			-10.60			MUDSTONE with SANDSTONE bands Rotary Borehole RBH2 continues to 32.0m bgl		

		GENERAL REMARKS No water strikes.	
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All dimensions in metres Scale 1:10	Client <b>White Horse Homes Limited</b>	Method/ Plant used <b>Rotary Rig</b>	Logged by <b>LS</b>
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**BORE HOLE LOG**

[info@obsidianenvironmental.co.uk](mailto:info@obsidianenvironmental.co.uk)



Project 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ				Bore Hole No <b>RBH2</b>	
Job No OE/1702/1057	Date 11/01/2024	Ground Level m Site Datum 19.4m	Coordinates E N		
Contractor Apex Drilling Services					Sheet 4 of 4

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
30.00			-10.60		11.80	MUDSTONE with SANDSTONE bands		Arisings
31.0								
32.0			-12.60			MUDSTONE with SANDSTONE bands End of Rotary Borehole RBH2 at 32.0m bgl		
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								
39.0								
40.0								

GENERAL REMARKS	
No water strikes.	

All dimensions in metres Scale 1:10	Client White Horse Homes Limited	Method/ Plant used Rotary Rig	Logged by LS
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### BORE HOLE LOG

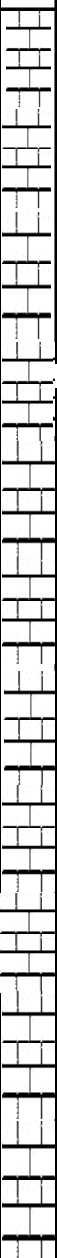
Project 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ				Bore Hole No <b>RBH3</b>	
Job No OE/1702/1057	Date 12/01/2024	Ground Level m Site Datum 19.25m	Coordinates E N		
Contractor Apex Drilling Services					Sheet 1 of 4

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
1.0			19.25		0.70	Made Ground (MG) - Tarmac over rock fill and clay	Last 1.0m bentonite & cement	
1.70			18.55			Natural soil - soft orange CLAY		
2.0			16.85		0.30	Coal	Arisings	
3.0			16.55			MUDSTONE with SANDSTONE bands		
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0			9.25		17.30	MUDSTONE with SANDSTONE bands		
Rotary Borehole RBH3 continues to 32.0m bgl - sheet 4 of 4								

GENERAL REMARKS	
No water strikes.	

All dimensions in metres Scale 1:10	Client White Horse Homes Limited	Method/ Plant used Rotary Rig	Logged by LS
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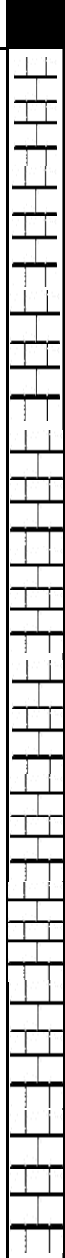
Project 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ				Bore Hole No <b>RBH3</b>	
Job No OE/1702/1057	Date 12/01/2024	Ground Level m Site Datum 19.25m	Coordinates E N		
Contractor Apex Drilling Services					Sheet 2 of 4

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill		
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION				
10.0			9.25			MUDSTONE with SANDSTONE bands		Arisings		
11.0										
12.0										
13.0										
14.0										
15.0					17.30					
16.0										
17.0										
18.0										
19.0										
20.0			-0.75			MUDSTONE with SANDSTONE bands				
Rotary Borehole RBH3 continues to 32.0m bgl - sheet 4 of 4										

				GENERAL REMARKS	
				No water strikes.	

All dimensions in metres Scale 1:10	Client White Horse Homes Limited	Method/ Plant used Rotary Rig	Logged by LS
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Project 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ				Bore Hole No <b>RBH3</b>	
Job No OE/1702/1057	Date 12/01/2024	Ground Level m Site Datum 19.25m	Coordinates E N		
Contractor Apex Drilling Services					Sheet 3 of 4


SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
20.0			-0.75		0.50	Coal - unworked		Arisings
21.0						MUDSTONE with SANDSTONE bands		
22.0								
23.0								
24.0								
25.0					11.50			
26.0								
27.0								
28.0								
29.0								
30.0			-10.25			MUDSTONE with SANDSTONE bands Rotary Borehole RBH3 continues to 32.0m bgl - sheet 4 of 4		

		GENERAL REMARKS No water strikes.	
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All dimensions in metres Scale 1:10	Client White Horse Homes Limited	Method/ Plant used Rotary Rig	Logged by LS
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Project 22, Alexander Road, Frampton Cotteril, South Gloucestershire, BS36 2PZ			Bore Hole No <b>RBH3</b>		
Job No OE/1702/1057	Date 12/01/2024	Ground Level m Site Datum 19.25m	Coordinates E N		

Contractor Apex Drilling Services	Sheet 4 of 4
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SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
30.0			-10.50		11.50	MUDSTONE with SANDSTONE bands		Arisings
31.0								
32.0			-12.50		17.30	MUDSTONE with SANDSTONE bands End of Rotary Borehole RBH3 at 32.0m bgl		
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								
39.0								
40.0			9.25					

GENERAL REMARKS No water strikes.	
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All dimensions in metres Scale 1:10	Client White Horse Homes Limited	Method/ Plant used Rotary Rig	Logged by LS
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## **Appendix C      Permit Closure Surrender Form – Rotary Drilling**



Permit Ref.	<b>27136</b>	Project / Site Location	Depot, Bungalow 22a & 22b, Alexander Road, Frampton, South Gloucestershire, BS36 2PZ
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Please supply all relevant documents, including this completed form within 3 months of the permitted works being completed.

Where relevant the report should include; borehole logs and details of mine or mine entry treatment works carried out (incl. engineering drawings, grout takes etc.) and a scaled site layout plan (correlated to O.S N' Grid) showing all relevant mine entry positions, coal seams, voids and broken ground proved by the works.

Summary of works      Start date 11 Jan 2024      Finish date 12 Jan 2024

Have any variations occurred?  No  Yes      If so was the Authority notified?  No  Yes

Please describe;

*Apart from rotary drill becoming stuck in two out of three holes - no issues.*

Did if any of the following incidents occur?

- Spontaneous combustion     Water emission     Gas emission (elevated or above action levels)
- Geotechnical instability     Legal issues incl. damage or potential claims     None

If yes, please detail each item;

Were any of the following encountered? Please give a brief summary of the works undertaken.

- Intact coal only     Broken ground     Backfilled ground     Voids

Description;

*Discrete coal seams unworked and worked encountered - see borehole logs and letter report dated 17 January 2024. Intact coal seams noted in rotary boreholes RBH 2 and RBH 3. Void was intercepted in RBH 1 - 16.0 to 16.6m bgl - possibly created during drilling. Backfill void RBH 1, below void above 16.6 - 17.1m bgl.*

Will further works be necessary that require a Permit?  No  Yes

If yes, please describe, including any recommendations;

*Ratio t values between 1.43 to 2.94.*

Name:	[Redacted]	Email:	[Redacted]
Company:	<i>Obsidian Environmental Ltd.</i>	Tel:	[Redacted]