



## Drill and Grout Specification

Site: Clydach Vale Pavilions, Tonypanydy

Prepared For: Morgan Sindall Construction  
& Infrastructure Ltd

Issue Date: August 2024

Job No: 17931

**REPORT TITLE** : **Drill and Grout Specification: Proposed School Development at Clydach Vale Pavilions, Cambrian Park, Tonypanydy**




**JOB NUMBER** : **17931**

**DATE** : **August 2024**

**REPORT REFERENCE** : **DGS-19092024-17931-02**

**Document Revision Record**

Issue Number	Date	Revision Details
1	29 <sup>th</sup> August 2024	Initial Draft Publication
2	19 <sup>th</sup> September 2024	Final publications.

	Name	Signature
Prepared	<b>Alan Beattie</b> (Senior Engineering Geologist)  M.Sci, FGS	
Checked	<b>Mathew Lake</b> (Director)  MEng FGS Tech IOSH	
Approved	<b>Gwyn Lake</b> (Managing Director)  BSc (Hons). PhD, CGeol, FGS	



## TABLE OF CONTENTS

<b>SECTION 1 Introduction and Proposed Development</b>	<b>1</b>
1.1 Introduction	1
1.2 Objectives	1
1.3 Previous Investigations and Assessments	1
1.4 Roles and Responsibilities	2
1.5 Limitations and Exceptions of Investigation	2
1.6 Quality Assurance	2
<b>SECTION 2 Site Characteristics</b>	<b>3</b>
2.1 Site Location and Description	3
2.2 Summary of Coal Mining Risk Assessment	4
2.2.1 Coal Mining Legacy Features	4
2.2.2 Proof Drill Investigative Works	5
2.2.3 Recommendations	6
<b>SECTION 3 Drilling and Grouting Specification</b>	<b>8</b>
3.1 Site Access	8
3.2 Drilling	8
3.3 Grouting	9
3.3.1 Casing	9
3.3.2 Grout Specification	9
3.3.3 Secondary Holes	10
3.3.4 Test Holes	10
3.4 Records	10
<b>Tables</b>	
Table 1.1 Roles and Responsibilities	2
Table 2.1 Past Underground Mining	4
<b>Figures</b>	
Figure 1.1 Proposed Site Layout (Red Boundary)	1
Figure 2.1 Site Location	3
Figure 2.2 Mine Entry Locations	4
Figure 2.3 Assumed Route of Adit Roadways	5
Figure 2.4 Exclusion Zone for Adit 298192-032 Roadway	7
<b>Annexes</b>	
Annex A Borehole Logs, Location Drawing and Line Sections	
<b>Drawings</b>	
Drawing 01 Proposed Drilling and Grouting Layout	

## SECTION 1 Introduction and Proposed Development

### 1.1 Introduction

Morgan Sindall Construction and Infrastructure Limited (the Client) on behalf of Rhondda Cynon Taff County Borough Council is proposing a commercial development at the former council offices known as the Clydach Vale Pavilions. The development site locates at Cambrian Park, Tonypanydy. The development comprises a large additional learning needs school building with associated car parking, areas of hard and soft landscaping. The proposed layout is presented below in **Figure 1.1**.



**Figure 1.1 Proposed Site Layout (Red Boundary)**

TFW Group Limited (Terra Firma) have been commissioned by the Client to prepare a specification for drilling and grouting works to stabilise shallow coal mining legacy features below the site.

### 1.2 Objectives

The objective of the Drilling and Grouting specification is to detail procedures or specifications for the proposed drilling and grouting works.

### 1.3 Previous Investigations and Assessments

The study site has been subject to multiple phases of investigation and this report should be read in conjunction with the following documents which are available on request.

- Ove Arup & Partners: Geotechnical Desk Study Report, Proposed W.D.A. Development at Clydach Vale, Rhondda (Reference 86/1175 (Job Number 16049/01) dated 1991).
- TFW Group Limited: Geotechnical and Geoenvironmental Desk Study and CMRA: Proposed Development, Clydach Vale, Rhondda Cynon Taff (Reference 250522-17931-ISSUE01, dated July 2023).



- TFW Group Limited: Soakaway Technical Note (Reference ADB/17931/SoakawayTechnicalNote, dated 21<sup>st</sup> June 2024).
- TFW Group Limited: Geotechnical and Geoenvironmental Report: Proposed School Development at the Clydach Vale Pavilions, Cambrian Park, Tonypany (Reference GGR-310724-17931-01, dated July 2024).
- TFW Group Limited: Ground and Mine Gas Risk Assessment Report: Proposed School Development at the Clydach Vale Pavilions, Cambrian Park, Tonypany (Reference MGRA-09082024-17931-01, dated August 2024).

## 1.4 Roles and Responsibilities

**Table 1.1 Roles and Responsibilities**

Role	Organisation
Client	Morgan Sindall Construction & Infrastructure Ltd on behalf of Rhondda Cynon Taff County Borough Council
Drilling Contractor	To Be Confirmed
Geotechnical & Geoenvironmental Consultant	TFW Group Ltd

## 1.5 Limitations and Exceptions of Investigation

This report has been prepared for the sole internal reliance of the Client and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma. If an unauthorised third party comes into possession of this report, they rely on it at their peril and the authors owe them no duty of care and skill. The report represents the findings and opinions of experienced geoenvironmental and geotechnical consultants. Terra Firma does not provide legal advice and the advice of lawyers may be required.

The specification has been produced based on the available information summarised in the Drilling and Grouting Covering Letter.

It is not within the scope of Terra Firma to:

- Provide Contractor Method Statements and Risk Assessments for drilling works

Drilling and Grouting should not be commenced until these works are agreed with the Coal Authority.

## 1.6 Quality Assurance

The quality and environmental aspects of the assessment and investigation comply with UKAS Accredited ISO 9001:2015 and ISO 14001:2015 standards.

## SECTION 2 Site Characteristics

The following subsection information has been summarised from previous investigations and assessments listed in **Section 1.3**.

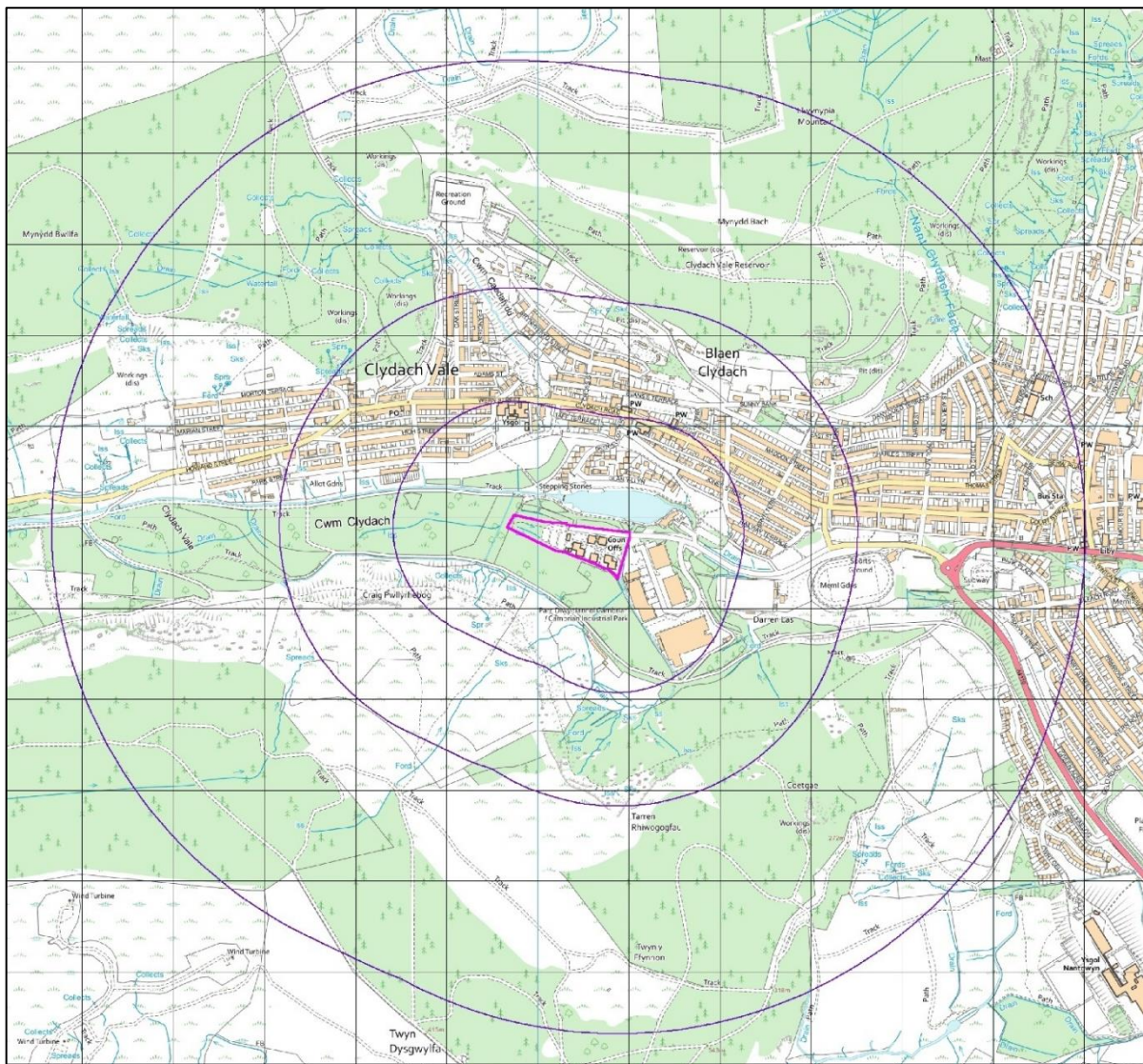
### 2.1 Site Location and Description

The development site is roughly rectangular in shape and locates off Cambrian Park, Clydach Vale. The site centres on an approximate National Grid Reference of 298080, 192750, occupying a plan area of approximately 1.61 Hectares.

The site is currently occupied by Rhondda Cynon Taff County Borough Council offices including associated car parking areas. The western end of the site is covered by rough vegetation. At the time of writing the offices are under demolition.

The northern boundary is formed by the access road to the site. The eastern boundary is marked by a stream identified at Nant Pwllyrhebog. The southern boundary is marked by a smaller unnamed stream/ditch. The western boundary is marked by a small public footpath.

The site elevation is approximately 200m AOD and slopes gently down to the northeast. The site topography has been modified to provide a level development plateau for the existing buildings. The site location can be seen in **Figure 2.1**.



**Figure 2.1 Site Location**



## 2.2 Summary of Coal Mining Risk Assessment

### 2.2.1 Coal Mining Legacy Features

The Coal Authority report confirms that there are 17 occurrences of past underground mining beneath the site between depths of 111m and 431m and worked between 1896 and 1960. The shallowest workings are identified at 111m in the Abergorchi coal seam. This was last mined in 1908, has a dip of 2.2° north east and an extraction thickness of 1.10m. The records from beneath the site and within 150m of the surface are summarised in **Table 2.1**.

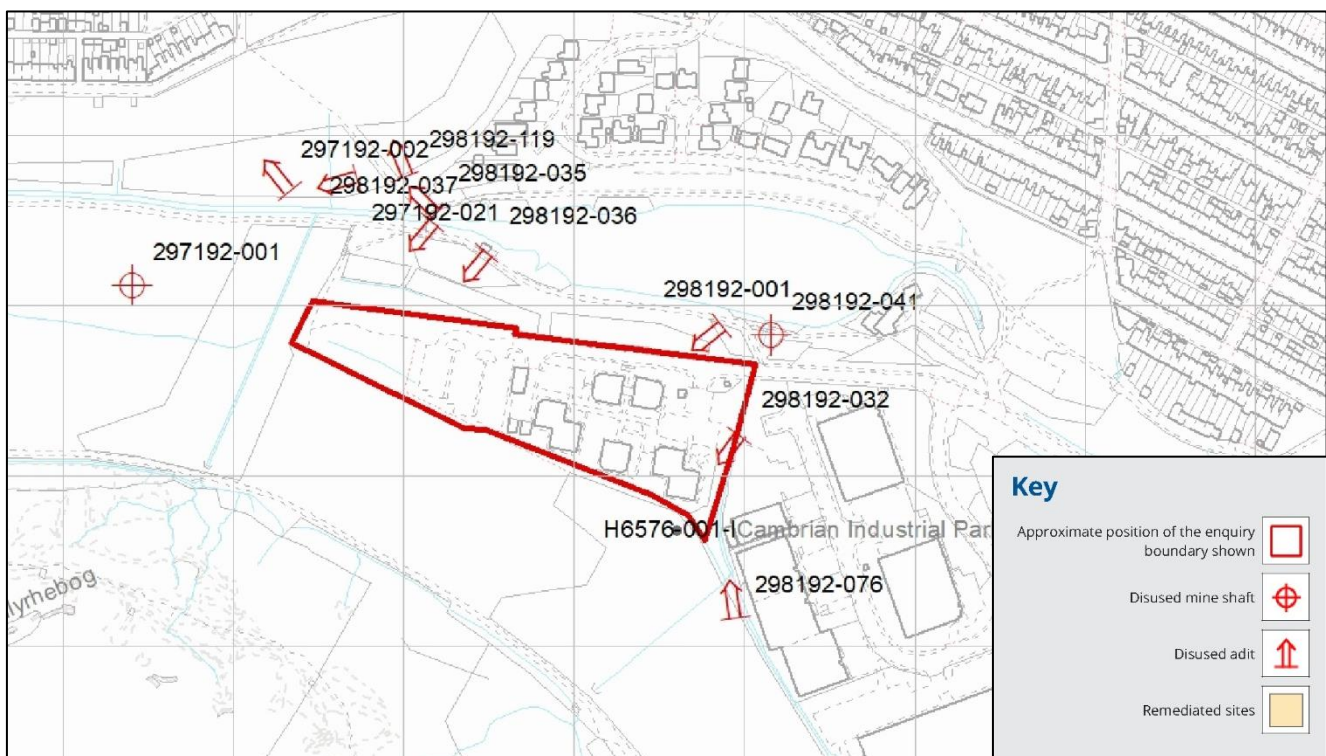
**Table 2.1 Past Underground Mining**

Colliery	Seam	Depth (m)	Dip and Direction	Extraction Thickness (cm)	Year Last Mined
Unnamed	Abergorchi	111	2.2° NE	110	1908
Unnamed	Abergorchi	121	2.6° NE	110	1906

There are no probable unrecorded shallow workings.

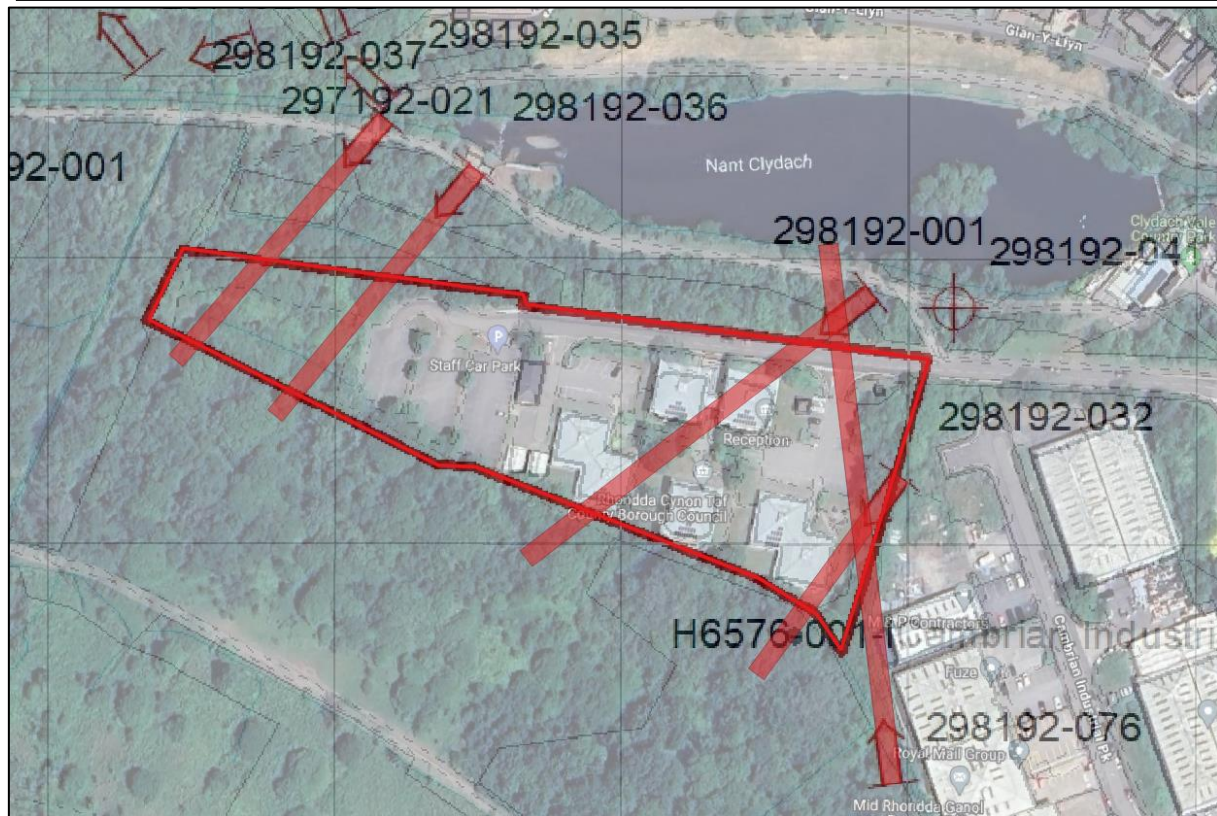
There are no spine roadways at shallow depth however adits are located in the surrounding area and these will have a roadway which extends from the adit mouth. This is considered further in the next section.

The Coal Authority drawing indicates that there are 9 adits and 2 mine shafts within 100m of the site, which can be seen in **Figure 2.2**.



**Figure 2.2 Mine Entry Locations**

Of the nine adits, five are considered to be at a distance and orientation so that they, or the roadways originating from the location, may pose a risk to the study site. The adit locations and assumed routes were plotted using GIS and these can be seen in **Figure 2.3**.



**Figure 2.3 Assumed Route of Adit Roadways**

The report concluded that:

- The risk from shallow mining across the site is generally considered to be low given the Coal Authority data and historical records.
- There is however a risk posed to the site from the adits which may be present at shallow depth (less than 30m) below the site.
- The risk from this feature will need to be quantified by investigation using rotary drilling methods.

## 2.2.2 Proof Drill Investigative Works

A site investigation including rotary boreholes for mining was undertaken and reported in July 2024. The mining investigation was undertaken between the 10<sup>th</sup> and 28<sup>th</sup> June 2024 and comprised 51 rotary boreholes. A total of 7 boreholes were sunk across the site to confirm the geological profile with a further 44 targeted at potential adit roadways crossing the site. It was beyond the remit of the works to investigate the adits crossing the western end of the site.

The location of the boreholes was targeted at the suspected location of the adits beneath the proposed development and was determined by TFW Group who also supervised the works.

The boreholes were logged by the lead driller based on an examination of the returns recovered during the drilling process and the behaviour of the drilling rig.

Cross sections of the boreholes were produced using the Holebase logging software and can be found in **Annex D**. It can be seen in Borehole **Line A** and Borehole **Line D** that there is a feature that deviates from the expected ground conditions and the boreholes undertaken either side of the feature. These were encountered as voids with a small amount of broken ground and there was an immediate corresponding loss in drilling flush when these features were encountered. This is anticipated to be the roadway extending from adit 298192-001 and is between 3m and 4m in diameter with a height of 2.80m to 3.40m.



The drilling shows that the floor of the adit is at an approximate depth of 15.80m in Borehole **Line A** and in Borehole **Line D** it is at 16.40m. This would suggest that roadway is falling in a south westerly direction from the location of the adit mouth.

Borehole **Line B** targeted at the roadway from adit 298192-076 found no features which deviated from the expected ground conditions. This adit roadway runs counter to the majority of the adits in the area and against the topography of the area. It is considered that this adit lies off site or is located at a depth as to not pose a risk to the surface.

Borehole **Line C** identified a feature which deviated from the expected ground conditions in BH-C13. This borehole found an open void with a small amount of broken ground and there was an immediate corresponding loss in drilling flush. Due to the location of this borehole in the corner of the site with underground services and the drop in topography it was not possible to drill additional boreholes beyond BH-C13 to confirm the dimensions of the feature. It is anticipated that this is the roadway extending from adit 298192-032 and was seen to be 2.60m in height.

The borehole logs, location drawing and line sections can be seen in **Annex A**.

### 2.2.3 Recommendations

The rotary boreholes have confirmed that there are shallow roadways within the bedrock and there is insufficient rockhead cover to protect from a collapse of these features.

Ground stabilisation by drilling and grouting must be carried out prior to development commencing. This should be undertaken in accordance with Chapter 6 'Consolidation of Shallow Abandoned Mine Workings' of CIRIA C758D: 2019 'Abandoned Mine Workings Manual'.

A drilling and grouting grid has been established across the roadway. The boreholes have been placed on a 1.50m grid perpendicular to the adit route with a 3.00m line spacing across the proposed building footprint. The boreholes have then been placed on a 6.00m line spacing in the areas external to the proposed building.

A sacrificial plastic tube is inserted in each hole to ensure it remains open throughout the grouting procedure. Alternatively, a reusable steel casing can be used. The grid has been extended beyond the footprint of the proposed building to ensure it is properly stabilised.

Prior to the site being drilled and grouted, a permit should be applied for from the Coal Authority. A completion report should be submitted following the work being completed.

Given the proximity of the roadway from adit 298192-032 to the corner of the site it may not be possible to stabilise this feature. The stabilisation process in this area is complicated by the presence of the surface water features. As stabilisation is unlikely to be possible an exclusion zone may be required in which buildings are excluded and the surface is protected with the use of geogrids. The exclusion zone around the adit in the south eastern corner of the site can be seen in **Figure 2.4**.

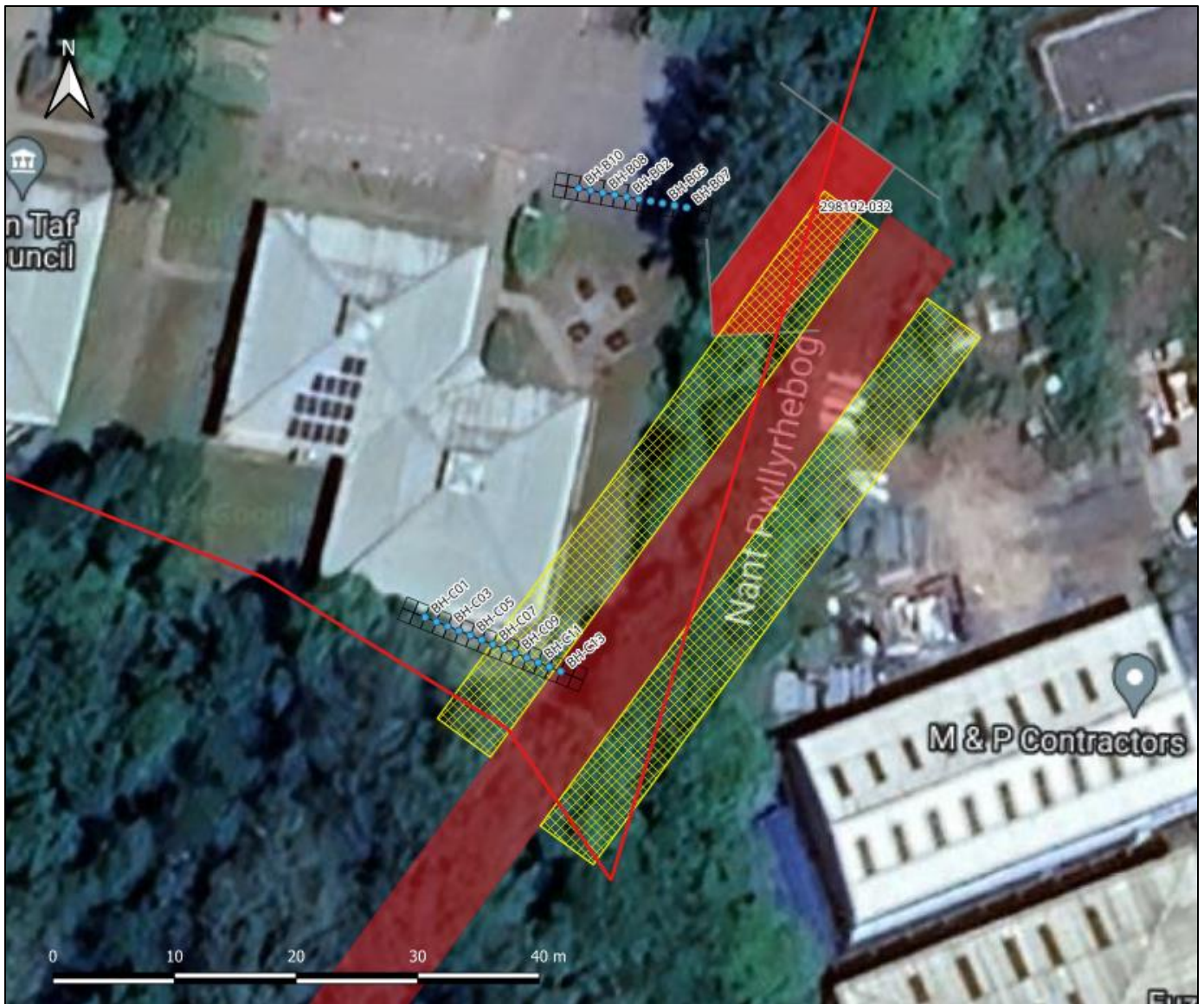


Figure 2.4 Exclusion Zone for Adit 298192-032 Roadway

## SECTION 3 Drilling and Grouting Specification

### 3.1 Site Access

Delivery of the required drilling and grouting equipment will be possible along the existing access road into the north of the site. Access to the site will also be required for deliveries of materials. Ideally for deliveries of Pulverised Fly Ash (PFA) the grout mixing area of the site will be accessible for articulated lorries. A significant portion of the cost of the PFA is due to transport costs, so larger deliveries are preferable where possible. Contractors should satisfy themselves prior to submitting their estimated costs that access is suitable for their needs and if any additional requirements are needed, they should be explained within their bill of quantities.

Measures should be taken to protect site personnel and neighbours/neighbouring properties from dust created by PFA when it's being delivered and stored on site.

A monitoring program should be established to quickly identify any outbreaks of grout should they occur and protect the surrounding water features. Emergency procedures should be in place and reviewed regularly.

### 3.2 Drilling

#### **Borehole Grids**

Drilling for grout treatment will initially be performed with a perimeter of holes established on a 1.50m spacing across feature and at the down dip end of the roadway, which is currently expected to be the southern end. The grid line spacing will be 3.00m across the footprint of the building which is then extended to a 6.00m grid in the areas external to the proposed building.

At present the boreholes are to be sunk to a minimum depth of 20.00m. As more boreholes are drilled and a greater understanding of the roadway depths is obtained, the drilling can be tailored and either terminate 2m below the feature, or continued to 20.00m depth. It is anticipated that boreholes will be shallower in the north and deeper in the south given the dip of roadway.

No occupied building are present within 100m of the proposed drilling and grouting positions and it may therefore be possible to use air as the flushing medium. However best practice dictates that water should be used as the flushing medium where possible and this is the preferred option.

Due to the presence of the streams along the southern and eastern boundary allowances should be made for dealing with water runoff. These streams flow directly into the Nant Clydach lake located north of the site and regular monitoring will be required during the stabilisation works.

Contractors will provide their own risk assessments for drilling and dealing with prevailing ground conditions.

The contractor will provide a borehole log within 24 hrs for every hole completed.

Drillers should provide a gas alarm and a record should be kept of any emissions from the boreholes.

If during the drilling and grouting works mining features are found close to the boundaries of the drilling and grouting layout it may be necessary to extend the grid.

The boreholes will be drilled at 110mm diameter. The drillers will then secure 70mm plastic casing into rockhead and seal the top of casing with push on caps once installed.

A proposed drilling and grouting layout can be found in **Drawing 01**.

### **3.3 Grouting**

#### **3.3.1 Casing**

During drilling, recoverable metal casing will be left in-situ. From the previous drilling we anticipated that approximately 10.00m will be required per hole. All holes, whether containing voids or not will be grouted upon completion. Metal casing will be used to prevent movement in the surrounding deposits and maintain the 70mm conduit for grouting. Further to this, the boreholes will be regularly dipped with a groundwater monitoring dip-meter to ensure the conduit is maintained.

The borehole will be flooded with grout via a 50mm rigid tremie. Grout injection pressures are calculated at 1.5 psi per metre of overburden. In line pressure from the delivery pump is approximately 10 psi. In line packer/pressure heads will be used to pressure test all holes to confirm no further grout can be taken. Perimeter boreholes will not be pressured as they form the perimeter curtain.

To ensure the boreholes do not act as a preferential pathway for mine gas, the metal casing should be removed from the superficial deposits at the point the borehole is filled. The grout will then create an effective seal. If the grout drops overnight or through the day, the casing will be reinserted, and the process undertaken again until the hole has been suitably filled.

Alternatively a sacrificial plastic casing could be used however this will require disposal at appropriate landfill after use.

Grouting should be started from the down dip side of the site (the south) to provide a wall of grout which successive up dip holes can then fill in behind.

#### **3.3.2 Grout Specification**

Grout shall be thoroughly mixed in a pan into a homogenous condition. A water to solids ratio of approximately 0.40 is preferable and bleed capacity should not exceed 5% (on site testing shall be performed using a clear beaker).

A 10:1 Pulverised Fly Ash (PFA) to Ordinary Portland Cement (OPC) grout mix is proposed. Alternatively, a 9:3:1 PFA, Sand and OPC may also be used.

PFA Should comply to BS EN 450-1:2005

In accordance with CIRIA C758, a minimum grout strength of 1 mN/m<sup>2</sup> after 28 days of curing is required. The contractor should provide evidence from previous experience that the proposed mix is likely to achieve this, and selected samples will be collected during the grouting works to and sent to for laboratory concrete cube testing at 28 days of cure in accordance with BS 1881.

One set of grout cubes should be tested per 250m<sup>3</sup>.

A low viscosity grout is proposed to achieve efficient grout distribution by gravity. Gravel may be introduced to the grout to fill voids.

A maximum grout injection of 10 tonnes per hole per day will be permissible. When the 10 tonne limit is reached the hole should be left until the next day so the grout can cure and to try and minimise the amount of grout escaping beyond the development area.

Water supply should be provided by the Client.



### **3.3.3 Secondary Holes**

If a single grout location exceeds a take of 10 tonnes, secondary holes will be performed around the hole as deemed necessary. If grout take exceeds 10 tonnes in any of these holes tertiary holes will be performed.

### **3.3.4 Test Holes**

On completion of the grouting, test holes will be undertaken across the stabilised area to confirm that sufficient filling of voids has been achieved. Any remnants voids encountered should be treated and further test holes may be required.

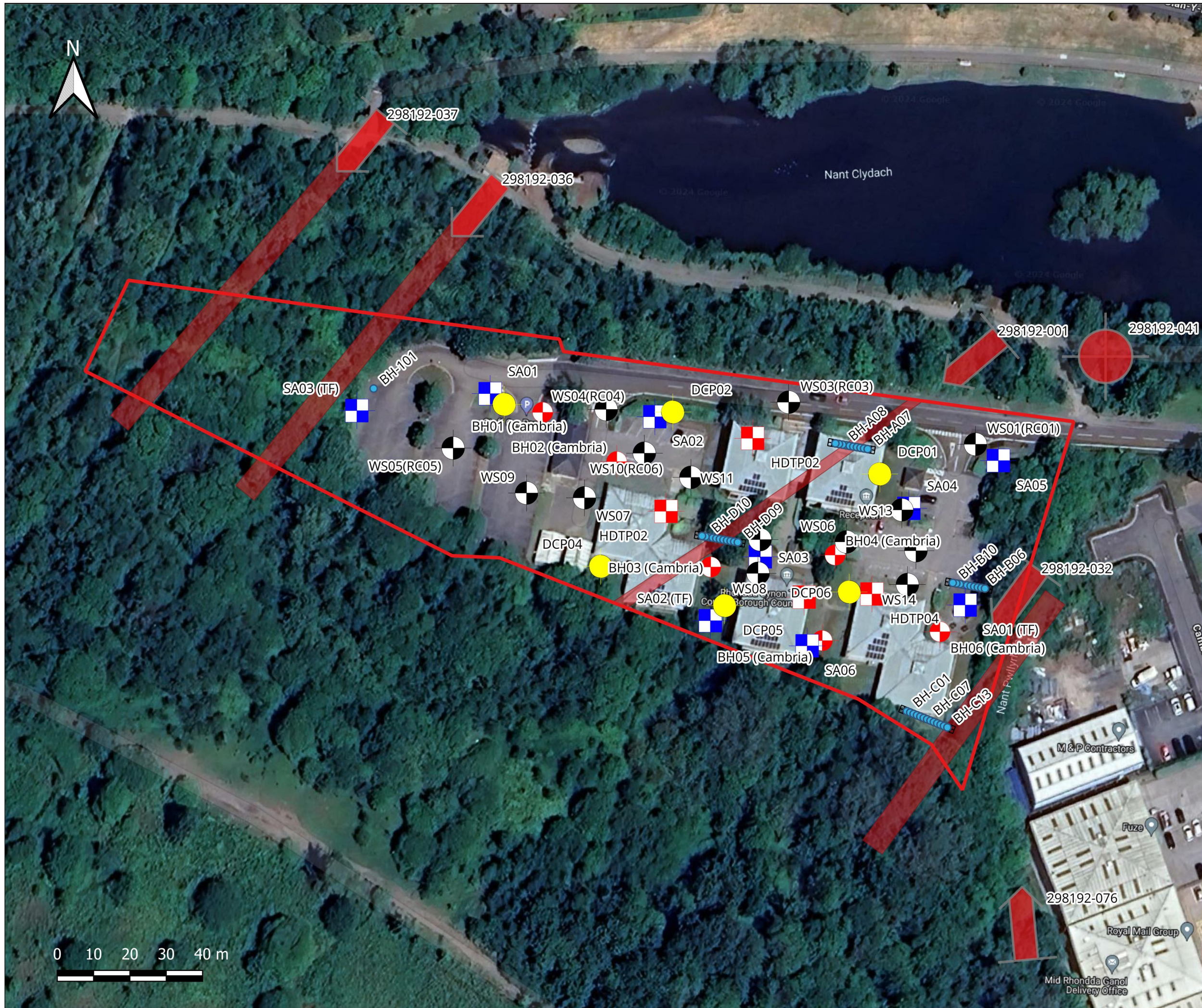
## **3.4 Records**








The following records should be provided by the drilling contractor on a daily basis and kept to inform the drilling and grouting verification report.

1. Daily driller logs.
2. Grout records.
3. Cement, PFA and gravel/sand delivery records.

**ANNEX A**  
**Site Investigation Data**





- Legend
-  Rotary Boreholes
  -  Cambria Rotary Boreholes
  -  Mini Percussive Boreholes
  -  Trial Pit Soakaway
  -  Hand Dug Trial Pit
  -  CBR Location
  -  Adit Roadways

PROJECT:  
17931 - Clydach Vale Pavillions

DRAWING 01:  
Proposed Site Investigation Locations (Whole Site)

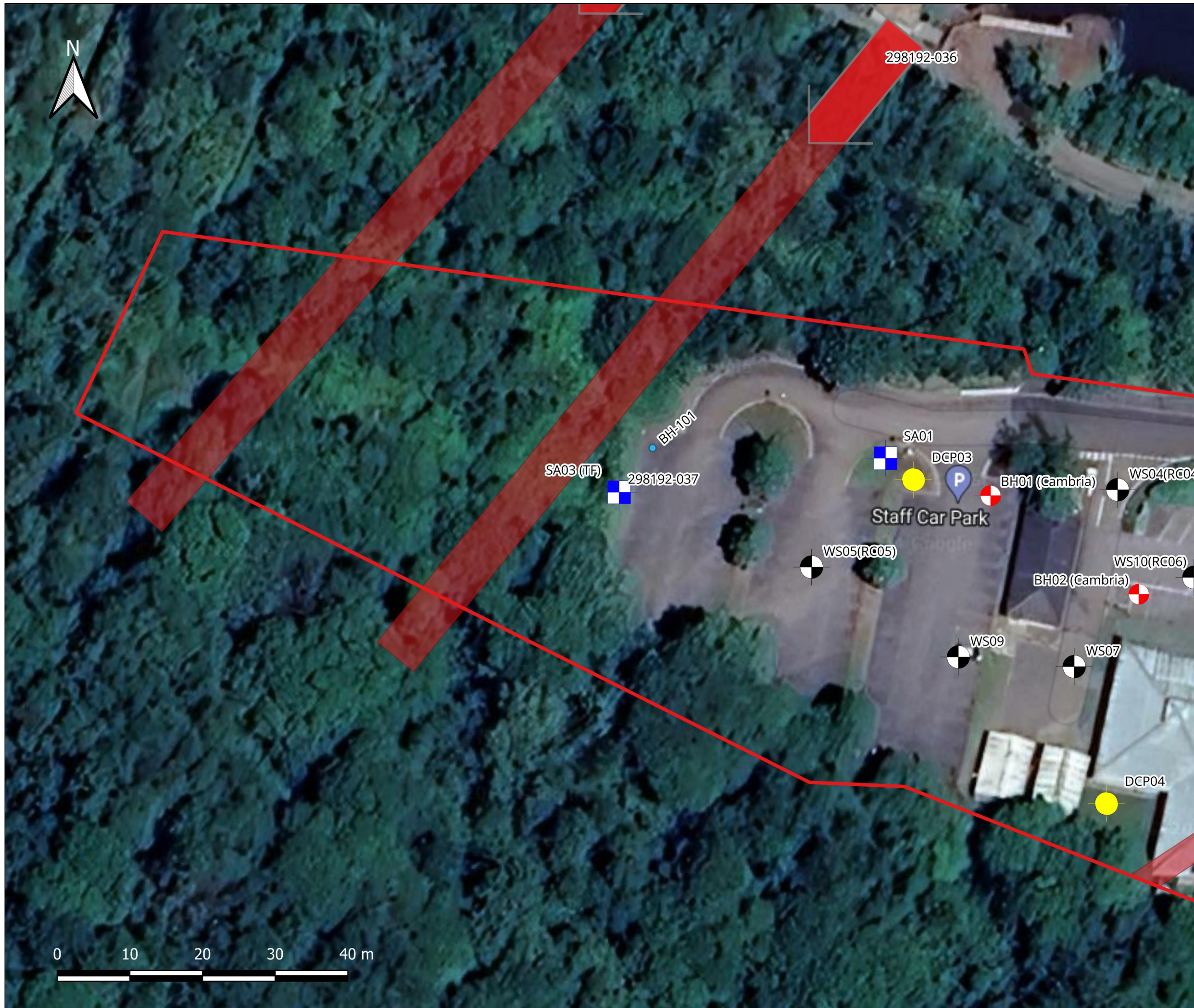
TFW Group Ltd  
5 Deryn Court, Wharfedale Road,  
Cardiff, CF23 7HA  
Tel: 029 2073 5354  
Email: info@terrafirmawales.co.uk





Legend

-  Rotary Boreholes
-  Cambria Rotary Boreholes
-  Mini Percussive Boreholes
-  Trial Pit Soakaway
-  Hand Dug Trial Pit
-  CBR Location
-  Adit Roadways

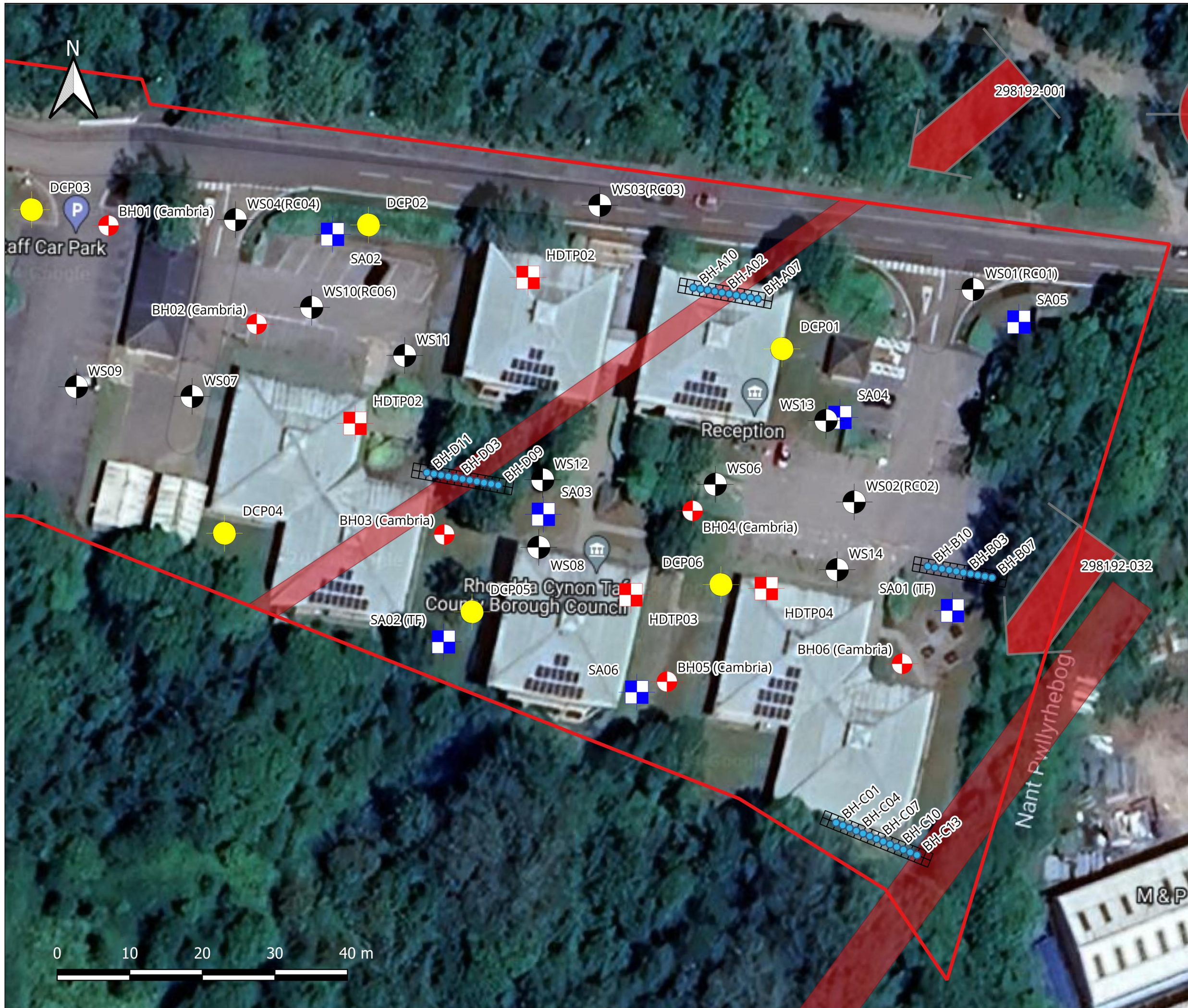









PROJECT:  
17931 - Clydach Vale Pavillions

DRAWING 02:  
Site Investigation Locations  
(Western Site Area)

TFW Group Ltd  
5 Deryn Court, Wharfedale Road,  
Cardiff, CF23 7HA  
Tel: 029 2073 5354  
Email: info@terrafirmawales.co.uk





- Legend**
-  Rotary Boreholes
  -  Cambria Rotary Boreholes
  -  Mini Percussive Boreholes
  -  Trial Pit Soakaway
  -  Hand Dug Trial Pit
  -  CBR Location
  -  Adit Roadways

**PROJECT:**  
17931 - Clydach Vale Pavillions

**DRAWING 03:**  
Site Investigation Locations  
(Eastern Site Area)

TFW Group Ltd  
5 Deryn Court, Wharfedale Road,  
Cardiff, CF23 7HA  
Tel: 029 2073 5354  
Email: info@terrafirmawales.co.uk





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH01**  
**(Cambria)**  
 Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298061E - 192767N	Hole Type RO
Location: Tonypandy		Level: 200.82m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.10	200.72			Tarmac (Drillers Description) Fill (Drillers Description)	1
				6.90	193.92			Mudstone / Sandstone (Drillers Description)	7
				15.10	185.72			Coal (Drillers Description)	15
				16.10	184.72			Fractured Sandstone Poor Returns (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.  
**BH01**  
**(Cambria)**  
 Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298061E - 192767N	Hole Type RO
-----------------------------	-------------------	----------------------------	-----------------

Location: Tonypandy	Level: 200.82m	Scale 1:100
---------------------	----------------	----------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle
---	--------------------------------	-----------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Fractured Sandstone Poor Returns (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	161.82			End of Borehole at 39.000m	39
									40

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH02**  
**(Cambria)**  
 Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298082E - 192753N	Hole Type RO
Location: Tonypandy		Level: 200.25m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.10	200.15			Tarmac (Drillers Description) Fill (Drillers Description)	1
				5.80	194.45			Mudstone (Drillers Description)	2 3 4 5 6 7 8 9 10 11 12 13
				13.70	186.55			Soft Coal (Drillers Description)	14
				14.50	185.75			Sandstone (Drillers Description)	15 16 17 18 19 20

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH02**  
**(Cambria)**  
 Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298082E - 192753N	Hole Type RO
Location: Tonypany		Level: 200.25m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
				31.80	168.45				31
								Broken Ground No Returns (Drillers Description)	32
				33.50	166.75				33
								Solid No Returns (Drillers Description)	34
									35
				36.00	164.25				36
								End of Borehole at 36.000m	37
									38
									39
									40

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH03**  
**(Cambria)**  
 Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298107E - 192724N	Hole Type RO
Location: Tonypandy		Level: 200.65m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	200.15			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
				10.90	189.75			Mudstone / Sandstone	11
									12
									13
									14
									15
				16.40	184.25			Soft Poor Returns (Drillers Description)	16
									17
				17.10	183.55			Solid Poor Returns (Drillers Description)	17
									18
									19
									20

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.  
**BH03**  
**(Cambria)**  
 Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298107E - 192724N	Hole Type RO
-----------------------------	-------------------	----------------------------	-----------------

Location: Tonypandy	Level: 200.65m	Scale 1:100
---------------------	----------------	----------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle
---	--------------------------------	-----------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Solid Poor Returns (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
				31.00	169.65			Soft Poor Returns (Drillers Description)	31
									32
				33.00	167.65			Solid Poor Returns (Drillers Description)	33
									34
									35
									36
									37
									38
				39.00	161.65			End of Borehole at 39.000m	39
									40

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH04**  
**(Cambria)**  
 Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298142E - 192728N	Hole Type RO
Location: Tonypanyd		Level: 200.20m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description		
	Depth (m)	Type	Results							
				0.60	199.60			Topsoil (Drillers Description)		
										Fill (Drillers Description)
				8.00	192.20					Coal (Drillers Description)
				8.60	191.60					Mudstone (Drillers Description)

Remarks: 1. Borehole cased to 8.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.  
**BH04**  
**(Cambria)**  
 Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298142E - 192728N	Hole Type RO
Location: Tonypandy		Level: 200.20m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description			
	Depth (m)	Type	Results								
				24.60	175.60			Mudstone (Drillers Description)	21		
											22
											23
											24
										Fractured Sandstone (Drillers Description)	25
											26
											27
											28
											29
											30
				32.80	167.40			Soft / Broken Ground No Returns (Drillers Description)	33		
											34
											35
				35.60	164.60					Solid No Returns (Drillers Description)	36
											37
									38		
				39.00	161.20			End of Borehole at 39.000m	39		
									40		

Remarks: 1. Borehole cased to 8.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH05**  
**(Cambria)**  
 Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298138E - 192704N	Hole Type RO
Location: Tonypandy		Level: 200.42m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description		
	Depth (m)	Type	Results							
				0.60	199.82			Topsoil (Drillers Description)		
								Fill (Drillers Description)	1	
				6.20	194.22			Mudstone (Drillers Description)	2	
										3
										4
										5
										6
										7
										8
										9
										10
										11
				15.20	185.22			Soft No Returns (Drillers Description)	12	
				15.90	184.52			Solid No Returns (Drillers Description)	13	
									14	
										15
										16
										17
										18
										19
										20

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH05**  
**(Cambria)**  
 Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298138E - 192704N	Hole Type RO
Location: Tonypandy		Level: 200.42m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Solid No Returns (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
				32.50	167.92				32
				33.20	167.22			Soft / Broken Ground No Returns (Drillers Description)	33
								Solid No Returns (Drillers Description)	34
									35
				36.00	164.42			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.  
**BH06**  
**(Cambria)**  
 Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298170E - 192706N	Hole Type RO
Location: Tonypandy		Level: 200.15m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description		
	Depth (m)	Type	Results							
				0.20	199.95			Topsoil (Drillers Description)	1	
								Fill (Drillers Description)	2	
										3
										4
										5
				6.20	193.95					Mudstone (Drillers Description)
										7
										8
										9
										10
										11
										12
										13
				13.00	187.15			Coal (Drillers Description)	13	
				13.90	186.25					14
								Mudstone (Drillers Description)	14	
										15
										16
										17
										18
										19
								20		

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.  
**BH06**  
**(Cambria)**  
 Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298170E - 192706N	Hole Type RO
-----------------------------	-------------------	----------------------------	-----------------

Location: Tonypandy	Level: 200.15m	Scale 1:100
---------------------	----------------	----------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle
---	--------------------------------	-----------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	179.15			Mudstone (Drillers Description)	
				21.70	178.45			Coal (Drillers Description)	21
								Mudstone (Drillers Description)	22
									23
									24
									25
				26.30	173.85			Soft and Fractured Sandstone Poor Returns (Drillers Description)	26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	161.15			End of Borehole at 39.000m	39
									40

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH101**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298014E - 1928N	Hole Type RO
Location: Tonypandy		Level: 202.10m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description			
	Depth (m)	Type	Results								
				0.10	202.00			Tarmac (Drillers Description) Fill (Drillers Description)	1		
										2	
										3	
										4	
										5	
										6	
				6.30	195.80			Sandstone (Drillers Description)	7		
										8	
										9	
										10	
				9.70	192.40			Mudstone / Sandstone (Drillers Description)	11		
										12	
										13	
										14	
				14.00	188.10					Coal (Drillers Description)	14
				14.50	187.60						
				15.10	187.00						
				16.00	186.10					Mudstone / Sandstone (Drillers Description)	16
										17	
										18	
										19	
								20			

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH101**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298014E - 1928N	Hole Type RO
Location: Tonypandy		Level: 202.10m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.50	177.60			Mudstone / Sandstone (Drillers Description)	21 22 23 24
								Fractured Sandstone Poor Returns (Drillers Description)	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH101**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298014E - 1928N	Hole Type RO
-----------------------------	-------------------	--------------------------	--------------

Location: Tonypandy	Level: 202.10m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 11/06/2024 - 11/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				50.00	152.10			Fractured Sandstone Poor Returns (Drillers Description)	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
								End of Borehole at 50.000m	

Remarks: 1. Borehole cased to 6.00m. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-A01**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298015E - 192773N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.82m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.32			Topsoil (Drillers Description)	
								Soft to Firm Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	186.82			Void / Broken Ground No Returns (Drillers Description)	13
									14
									15
				15.80	184.02			Solid No Returns (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-A01**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298015E - 192773N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.82m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	178.82			Solid No Returns (Drillers Description)	
								End of Borehole at 21.000m	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A02**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298146E - 192758N	Hole Type RO
Location: Tonypandy		Level: 199.90m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.40			Topsoil (Drillers Description)	
								Soft to Firm Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	186.90			Void / Broken Ground No Returns (Drillers Description)	13
									14
									15
				15.80	184.10			Solid No Returns (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-A02**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298146E - 192758N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.90m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	178.90			Solid No Returns (Drillers Description)	
								End of Borehole at 21.000m	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A03**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298147E - 192757N	Hole Type RO
Location: Tonypandy		Level: 199.92m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.42			Topsoil (Drillers Description)	
								Soft to Firm Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	186.92			Void / Broken Ground No Returns (Drillers Description)	13
									14
									15
				15.80	184.12			Solid No Returns (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A03**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298147E - 192757N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.92m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 12/06/2024 - 12/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	178.92			Solid No Returns (Drillers Description)	
								End of Borehole at 21.000m	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-A04**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298148E - 192757N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.95m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.45			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	186.95			Void / Broken Ground No Returns (Drillers Description)	13
									14
									15
				15.40	184.55			Solid No Returns (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-A04**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298148E - 192757N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.95m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	178.95			Solid No Returns (Drillers Description)	
								End of Borehole at 21.000m	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A05**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298149E - 192757N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.94m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.44			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				11.80	188.14			Mudstone / Sandstone (Drillers Description)	12
									13
									14
									15
									16
									17
				18.00	181.94			End of Borehole at 18.000m	18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A06**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298150E - 192757N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.90m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.40			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				11.80	188.10			Mudstone / Sandstone (Drillers Description)	12
									13
									14
									15
									16
									17
				18.00	181.90			End of Borehole at 18.000m	18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A07**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298151E - 192757N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.85m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.35			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				11.80	188.05			Mudstone / Sandstone (Drillers Description)	12
									13
									14
									15
									16
									17
				18.00	181.85			End of Borehole at 18.000m	18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A08**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298144E - 192758N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.85m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.35			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.00	187.85			Mudstone / Sandstone (Drillers Description)	12
									13
									14
									15
									16
									17
				18.00	181.85			End of Borehole at 18.000m	18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A09**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298143E - 192758N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.81m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.31			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.00	187.81			Mudstone / Sandstone (Drillers Description)	12
									13
									14
									15
									16
									17
				18.00	181.81			End of Borehole at 18.000m	18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-A10**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298142E - 192758N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.79m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By
---	--------------------------------	-----------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.29			Overburden (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.00	187.79			Mudstone / Sandstone (Drillers Description)	12
									13
									14
									15
									16
									17
				18.00	181.79			End of Borehole at 18.000m	18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B01**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298177E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.59m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description			
	Depth (m)	Type	Results								
				6.50	193.09			Overburden (Drillers Description)	1		
											2
											3
											4
											5
											6
										Mudstone (Driller Description)	7
											8
											9
											10
											11
											12
											13
											14
				15.50	184.09					Coal (Drillers Description)	16
				16.50	183.09					Mudstone (Drillers Description)	17
											18
									19		
									20		

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B01**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298177E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.59m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	178.59	Well		Mudstone (Drillers Description)	
				21.80	177.79			Coal (Drillers Description)	21
								Sandstone (Drillers Description)	22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	160.59			End of Borehole at 39.000m	39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B02**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298178E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.58m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.40	193.18			Overburden (Drillers Description)	1 2 3 4 5 6
								Mudstone (Drillers Description)	7 8 9 10 11 12 13 14
				15.20	184.38			Coal (Drillers Description)	15
				16.20	183.38			Mudstone (Drillers Description)	16 17 18 19 20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B02**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298178E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.58m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				20.70	178.88	[Well Diagram]	[Legend]	Mudstone (Drillers Description)	
			21.40	178.18	Coal (Drillers Description)			21	
					Sandstone (Drillers Description)			22	
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	160.58			End of Borehole at 39.000m	39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B03**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298179E - 192719N	Hole Type RO
Location: Tonypandy		Level: 199.56m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.40	193.16			Overburden (Drillers Description)	1
									2
									3
									4
									5
									6
								Mudstone (Drillers Description)	7
									8
									9
									10
									11
									12
				15.00	184.56			Coal (Drillers Description)	15
				16.00	183.56			Mudstone / Sandstone (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-B03**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298179E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.56m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				20.50	179.06			Mudstone / Sandstone (Drillers Description)	
				21.20	178.36			Coal (Drillers Description)	21
								Sandstone (Drillers Description)	22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	160.56			End of Borehole at 39.000m	39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B04**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298180E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.55m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				6.20	193.35			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				14.40	185.15			Coal (Drillers Description)	13
				15.10	184.45			Mudstone / Sandstone (Drillers Description)	14
									15
									16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-B04**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298180E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.55m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description		
	Depth (m)	Type	Results							
				20.20	179.35			Mudstone / Sandstone (Drillers Description)		
								Coal (Drillers Description)		
				21.00	178.55			Sandstone (Drillers Description)	21	
									22	
										23
										24
										25
										26
										27
										28
										29
										30
										31
										32
										33
										34
										35
										36
										37
										38
				39.00	160.55					End of Borehole at 39.000m
									40	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B05**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298181E - 192719N	Hole Type RO
Location: Tonypandy		Level: 199.53m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				6.20	193.33			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				14.40	185.13			Coal (Drillers Description)	13
				15.10	184.43			Mudstone / Sandstone (Drillers Description)	14
									15
									16
									17
									18
									19
				20.00	179.53				20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B05**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298181E - 192719N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.53m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				20.80	178.73	[Dotted pattern]	[Solid black]	Coal (Drillers Description)	
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	160.53			End of Borehole at 39.000m	39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B06**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298182E - 192718N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.52m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				6.20	193.32			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				14.20	185.32			Coal (Drillers Description)	13
				15.00	184.52			Mudstone / Sandstone (Drillers Description)	14
									15
									16
									17
									18
				19.20	180.32			Coal (Drillers Description)	19
				19.90	179.62			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-B06**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298182E - 192718N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.52m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 19/06/2024 - 19/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	160.52			End of Borehole at 39.000m	39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B07**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298183E - 192718N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.50m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.50	193.00			Overburden (Drillers Description)	1
									2
									3
									4
									5
									6
								Mudstone (Drillers Description)	7
									8
									9
									10
									11
									12
				14.00	185.50			Coal (Drillers Description)	14
				14.70	184.80			Mudstone / Sandstone (Drillers Description)	15
									16
									17
									18
				19.00	180.50			Coal (Drillers Description)	19
				19.60	179.90			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B07**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298183E - 192718N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.50m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-B07**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298183E - 192718N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.50m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	157.50			Sandstone (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B08**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298176E - 192720N	Hole Type RO
Location: Tonypandy		Level: 199.60m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.50	193.10			Overburden (Drillers Description)	1 2 3 4 5 6
								Mudstone (Drillers Description)	7 8 9 10 11 12 13 14 15
				15.50	184.10			Coal (Drillers Description)	16
				16.50	183.10			Mudstone (Drillers Description)	17 18 19 20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B08**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298176E - 192720N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.60m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description		
	Depth (m)	Type	Results							
				21.00	178.60			Mudstone (Drillers Description)		
				21.80	177.80				Coal (Drillers Description)	21
									Sandstone (Drillers Description)	22
									23	
									24	
									25	
									26	
									27	
									28	
									29	
									30	
									31	
									32	
									33	
									34	
									35	
									36	
									37	
									38	
				39.00	160.60			End of Borehole at 39.000m	39	
									40	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B09**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298175E - 192720N	Hole Type RO
Location: Tonypandy		Level: 199.62m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.50	193.12			Overburden (Drillers Description)	1 2 3 4 5 6
								Mudstone (Drillers Description)	7 8 9 10 11 12 13 14 15
				15.50	184.12			Coal (Drillers Description)	16
				16.50	183.12			Mudstone (Drillers Description)	17 18 19 20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-B09**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298175E - 192720N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.62m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description		
	Depth (m)	Type	Results							
				21.00	178.62			Mudstone (Drillers Description)		
				21.80	177.82				Coal (Drillers Description)	21
									Sandstone (Drillers Description)	22
									23	
									24	
									25	
									26	
									27	
									28	
									29	
									30	
									31	
									32	
									33	
									34	
									35	
									36	
									37	
									38	
				39.00	160.62			End of Borehole at 39.000m	39	
									40	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B10**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298174E - 192720N	Hole Type RO
Location: Tonypandy		Level: 199.64m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.50	193.14			Overburden (Drillers Description)	1 2 3 4 5 6
								Mudstone (Drillers Description)	7 8 9 10 11 12 13 14 15
				15.50	184.14			Coal (Drillers Description)	16
				16.50	183.14			Mudstone (Drillers Description)	17 18 19 20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-B10**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298174E - 192720N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 199.64m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				21.00	178.64			Mudstone (Drillers Description)	
				21.80	177.84		Coal (Drillers Description)	21	
							Sandstone (Drillers Description)	22	
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
				39.00	160.64			End of Borehole at 39.000m	39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C01**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298161E - 192685N	Hole Type RO
Location: Tonypandy		Level: 200.08m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				4.00	196.08			Overburden (Drillers Description)	1
									2
									3
								Sandstone / Mudstone (Drillers Description)	4
									5
									6
									7
									8
									9
									10
									11
									12
				15.20	184.88			Soft Poor Returns (Drillers Description)	15
				16.00	184.08			Solid Poor Returns (Drillers Description)	16
									17
									18
				18.60	181.48			Soft Poor Returns (Drillers Description)	19
				19.50	180.58			Solid Poor Returns (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C01**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298161E - 192685N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.08m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 20/06/2024 - 20/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Solid Poor Returns (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.08			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C02**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298162E - 192684N	Hole Type RO
Location: Tonypandy		Level: 200.10m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				4.00	196.10			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
									13
									14
				15.00	185.10			Coal (Drillers Description)	15
				16.00	184.10			Mudstone / Sandstone (Drillers Description)	16
									17
									18
				18.50	181.60			Coal (Drillers Description)	19
				19.50	180.60			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C02**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298162E - 192684N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.10m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				33.00	167.10			Soft Poor Returns (Drillers Description)	33
									34
				34.50	165.60			Solid Poor Returns (Drillers Description)	35
									36
				36.00	164.10			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C03**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298163E - 192684N	Hole Type RO
Location: Tonypandy		Level: 200.10m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				4.00	196.10			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				15.00	185.10			Coal (Drillers Description)	13
				16.00	184.10			Mudstone / Sandstone (Drillers Description)	14
									15
									16
									17
				18.50	181.60			Coal (Drillers Description)	18
				19.50	180.60			Sandstone (Drillers Description)	19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C03**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298163E - 192684N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.10m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				33.00	167.10			Soft Poor Returns (Drillers Description)	33
									34
				34.50	165.60			Solid Poor Returns (Drillers Description)	35
									36
				36.00	164.10			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C04**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298164E - 192683N	Hole Type RO
Location: Tonypandy		Level: 200.12m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				4.00	196.12			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
									13
				15.00	185.12			Coal (Drillers Description)	14
				16.00	184.12			Mudstone / Sandstone (Drillers Description)	15
									16
									17
									18
				18.50	181.62			Coal (Drillers Description)	19
				19.50	180.62			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C04**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298164E - 192683N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.12m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				33.00	167.12			Soft Poor Returns (Drillers Description)	33
									34
				34.50	165.62			Solid Poor Returns (Drillers Description)	35
									36
				36.00	164.12			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C05**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298165E - 192683N	Hole Type RO
Location: Tonypandy		Level: 200.09m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description			
	Depth (m)	Type	Results								
				4.20	195.89			Overburden (Drillers Description)	1		
								Mudstone (Drillers Description)	2		
										3	
										4	
										5	
										6	
										7	
										8	
										9	
										10	
										11	
										12	
										13	
				14.80	185.29					Coal (Drillers Description)	14
				15.80	184.29					Mudstone / Sandstone (Drillers Description)	15
										16	
										17	
				18.30	181.79					Coal (Drillers Description)	18
				19.20	180.89					Sandstone (Drillers Description)	19
										20	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C05**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298165E - 192683N	Hole Type RO
Location: Tonypandy		Level: 200.09m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 21/06/2024 - 21/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
				32.50	167.59			Soft Poor Returns (Drillers Description)	32
									33
				34.50	165.59			Solid Poor Returns (Drillers Description)	34
									35
				36.00	164.09			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C06**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298166E - 192683N	Hole Type RO
Location: Tonypandy		Level: 200.09m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 24/06/2024 - 24/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				4.50	195.59			Overburden (Drillers Description)	1
								Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
									13
									14
				14.50	185.59			Coal (Drillers Description)	15
				15.50	184.59			Mudstone / Sandstone (Drillers Description)	16
									17
									18
				18.00	182.09			Coal (Drillers Description)	19
				18.80	181.29			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-C06**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298166E - 192683N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.09m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 24/06/2024 - 24/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.09			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C07**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298167E - 192682N	Hole Type RO
Location: Tonypandy		Level: 200.09m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 24/06/2024 - 24/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				4.50	195.59			Overburden (Drillers Description)	1
									2
									3
									4
								Mudstone (Drillers Description)	5
									6
									7
									8
									9
									10
									11
									12
				14.50	185.59			Coal (Drillers Description)	13
									14
				15.50	184.59			Mudstone / Sandstone (Drillers Description)	15
									16
									17
				18.00	182.09			Coal (Drillers Description)	18
									19
				18.80	181.29			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-C07**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298167E - 192682N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.09m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 24/06/2024 - 24/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.09			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C08**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298168E - 192682N	Hole Type RO
Location: Tonypandy		Level: 200.08m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 24/06/2024 - 24/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				4.50	195.58			Overburden (Drillers Description)	1
									2
									3
									4
								Mudstone (Drillers Description)	5
									6
									7
									8
									9
									10
									11
									12
				14.50	185.58			Coal (Drillers Description)	13
									14
				15.50	184.58			Mudstone / Sandstone (Drillers Description)	15
									16
									17
				18.00	182.08			Coal (Drillers Description)	18
									19
				18.80	181.28			Sandstone (Drillers Description)	20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-C08**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298168E - 192682N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.08m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 24/06/2024 - 24/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.08			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-C09**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298169E - 192682N	Hole Type RO
Location: Tonypandy		Level: 200.13m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				5.00	195.13			Overburden (Drillers Description)	1
									2
									3
									4
								Mudstone (Drillers Description)	5
									6
									7
									8
									9
									10
									11
									12
				14.00	186.13			Coal (Drillers Description)	14
				15.00	185.13			Mudstone / Sandstone (Drillers Description)	15
									16
									17
				17.60	182.53			Coal (Drillers Description)	18
				18.50	181.63			Sandstone (Drillers Description)	19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-C09**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298169E - 192682N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.13m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.13			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C10**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298170E - 192681N	Hole Type RO
Location: Tonypandy		Level: 200.12m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				5.00	195.12			Overburden (Drillers Description)	1
									2
									3
									4
								Mudstone (Drillers Description)	5
									6
									7
									8
									9
									10
									11
									12
				14.00	186.12			Coal (Drillers Description)	14
				15.00	185.12			Mudstone / Sandstone (Drillers Description)	15
									16
									17
				17.60	182.52			Coal (Drillers Description)	18
				18.50	181.62			Sandstone (Drillers Description)	19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C10**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298170E - 192681N	Hole Type RO
Location: Tonypandy		Level: 200.12m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.12			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C11**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298171E - 192681N	Hole Type RO
Location: Tonypandy		Level: 200.16m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				5.30	194.86			Overburden (Drillers Description)	1
									2
									3
									4
									5
								Mudstone (Drillers Description)	6
									7
									8
									9
									10
				13.70	186.46				11
									12
				14.60	185.56			Coal (Drillers Description)	13
									14
								Mudstone / Sandstone (Drillers Description)	15
									16
				17.00	183.16			Coal (Drillers Description)	17
									18
				18.00	182.16			Sandstone (Drillers Description)	19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-C11**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298171E - 192681N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.16m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.16			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C12**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298172E - 192680N	Hole Type RO
Location: Tonypandy		Level: 200.11m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
				5.30	194.81			Mudstone (Drillers Description)	2
									3
									4
									5
									6
									7
									8
									9
									10
				13.70	186.41			Coal (Drillers Description)	11
				14.60	185.51			Mudstone / Sandstone (Drillers Description)	12
									13
									14
				17.00	183.11			Coal (Drillers Description)	15
				18.00	182.11			Sandstone (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C12**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298172E - 192680N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.11m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
				36.00	164.11			End of Borehole at 36.000m	36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-C13**

Sheet 1 of 1

Project Name: The Pavilions	Project No: 17931	Co-ords: 298172E - 192680N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.08m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 25/06/2024 - 25/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden Fill (Drillers Description)	1 2 3 4 5 6 7 8 9
				9.40	190.68			Void Broken Ground No Returns (Drillers Description)	10 11
				12.00	188.08			Solid No Returns (Drillers Description)	12 13 14 15 16 17
				18.00	182.08			End of Borehole at 18.000m	18 19 20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D01**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298107E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.48m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Overburden (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.00	188.48			Mudstone / Sandstone (Drillers Description)	12
									13
									14
				14.40	186.08			Soft Coal (Drillers Description)	14
									15
				15.00	185.48			Sandstone (Drillers Description)	15
									16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D01**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298107E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.48m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				33.00	167.48			Soft Broken Ground No Returns (Drillers Description)	33
									34
				35.20	165.28			Solid No Returns (Drillers Description)	35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D01**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298107E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.48m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 13/06/2024 - 13/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	158.48			Solid No Returns (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D02**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298108E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.45m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description			
	Depth (m)	Type	Results								
				0.50	199.95			Topsoil (Drillers Description)			
								Fill (Drillers Description)			
										1	
										2	
										3	
										4	
										5	
										6	
										7	
										8	
										9	
										10	
										11	
									12		
				13.00	187.45			Void / Broken Ground No Return (Drillers Description)			
											13
											14
											15
											16
				16.40	184.05			Solid (Drillers Description)			
											17
											18
											19
											20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D02**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298108E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.45m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.00	176.45			Solid (Drillers Description)	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
								End of Borehole at 24.000m	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D03**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298109E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.44m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.94			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	187.44			Void / Broken Ground No Returns (Drillers Description)	13
									14
									15
									16
				16.40	184.04			Solid No Returns (Drillers Description)	17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D03**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298109E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.44m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.00	176.44			Solid No Returns (Drillers Description)	21
									22
									23
									24
								End of Borehole at 24.000m	25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D04**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298110E - 192732N	Hole Type RO
Location: Tonypandy		Level: 200.39m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description			
	Depth (m)	Type	Results								
				0.50	199.89			Topsoil (Drillers Description)			
								Fill (Drillers Description)			
										1	
										2	
										3	
										4	
										5	
										6	
										7	
										8	
										9	
										10	
										11	
									12		
				13.00	187.39			Void / Broken Ground No Returns (Drillers Description)			
											13
											14
											15
											16
				16.40	183.99			Solid No Returns (Drillers Description)			
											17
											18
											19
											20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D04**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298110E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.39m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.00	176.39			Solid No Returns (Drillers Description)	21
									22
									23
									24
								End of Borehole at 24.000m	25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D05**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298111E - 192732N	Hole Type RO
Location: Tonypandy		Level: 200.40m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.90			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	187.40			Void / Broken Ground No Returns (drillers Description)	13
									14
									15
									16
				16.40	184.00			Solid No Returns (Drillers Description)	17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D05**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298111E - 192732N	Hole Type RO
Location: Tonypandy		Level: 200.40m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.00	176.40			Solid No Returns (Drillers Description)	21
									22
									23
									24
								End of Borehole at 24.000m	25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D06**

Sheet 1 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298112E - 192732N	Hole Type RO
Location: Tonypandy		Level: 200.42m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.92			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
				13.00	187.42			Void / Broken Ground (Drillers Description)	13
									14
									15
									16
				16.40	184.02			Solid No Returns (Drillers Description)	17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D06**

Sheet 2 of 2

Project Name: The Pavilions	Project No: 17931	Co-ords: 298112E - 192732N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.42m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 14/06/2024 - 14/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.00	176.42			Solid No Returns (Drillers Description)	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
								End of Borehole at 24.000m	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D07**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298113E - 192731N	Hole Type RO
Location: Tonypandy		Level: 200.37m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 17/06/2024 - 17/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.50	199.87			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.20	188.17			Mudstone / Sandstone (Drillers Description)	12
									13
									14
				14.50	185.87			Soft Coal (Drillers Description)	15
				15.10	185.27			Sandstone (Drillers Description)	15
									16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D07**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298113E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.37m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 17/06/2024 - 17/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				32.90	167.47			Soft Broken Ground No Returns (Drillers Description)	33
									34
				35.00	165.37			Solid No Returns (Drillers Description)	35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D07**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298113E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.37m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 17/06/2024 - 17/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	158.37			Solid No Returns (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D08**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298114E - 192731N	Hole Type RO
Location: Tonypandy		Level: 200.50m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.60	199.90			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.00	188.50			Mudstone / Sandstone (Drillers Description)	12
									13
									14
				15.00	185.50			Coal (Drillers Description)	15
				15.60	184.90			Sandstone (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D08**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298114E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.50m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				32.90	167.60			Soft Poor Returns (Drillers Description)	33
									34
				35.00	165.50			Solid Poor Returns (Drillers Description)	35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D08**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298114E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.50m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	158.50			Solid Poor Returns (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D09**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298115E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.47m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.60	199.87			Topsoil (Drillers Description)	
								Fill (Drillers Description)	1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
				12.00	188.47			Mudstone / Sandstone (Drillers Description)	12
									13
									14
				15.00	185.47			Coal (Drillers Description)	15
				15.60	184.87			Sandstone (Drillers Description)	16
									17
									18
									19
									20

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D09**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298115E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.47m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
				32.90	167.57			Soft Poor Returns (Drillers Description)	33
									34
				35.00	165.47			Solid Poor Returns (Drillers Description)	35
									36
									37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.





Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D09**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298115E - 192731N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.47m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	158.47			Solid Poor Returns (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D10**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298106E - 192733N	Hole Type RO
Location: Tonypandy		Level: 200.45m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.60	199.85			Topsoil (Drillers Description)	
									Fill (Drillers Description)
									2
									3
									4
									5
									6
									7
									8
									9
									10
				12.30	188.15				Mudstone / Sandstone (Drillers Description)
								13	
								14	
				15.20	185.25			Coal (Drillers Description)	15
				16.00	184.45			Sandstone (Drillers Description)	16
								17	
								18	
								19	
								20	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D10**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298106E - 192733N	Hole Type RO
Location: Tonypandy		Level: 200.45m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
				32.50	167.95				32
								Soft Poor Returns (Drillers Description)	33
									34
									35
				36.00	164.45				36
								Solid Poor Returns (Drillers Description)	37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D10**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298106E - 192733N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.45m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	158.45			Solid Poor Returns (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D11**

Sheet 1 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298105E - 192733N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.42m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.60	199.82			Topsoil (Drillers Description)	
					Fill (Drillers Description)				
				12.30	188.12			Mudstone / Sandstone (Drillers Description)	
				15.20	185.22			Coal (Drillers Description)	
				16.00	184.42			Sandstone (Drillers Description)	

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

# Borehole Log

Borehole No.

**BH-D11**

Sheet 2 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298105E - 192733N	Hole Type RO
Location: Tonypandy		Level: 200.42m	Scale 1:100
Client: Morgan Sindal Construction & Infrastructure Ltd		Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Sandstone (Drillers Description)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
				32.50	167.92				32
								Soft Poor Returns (Drillers Description)	33
									34
									35
				36.00	164.42				36
								Solid Poor Returns (Drillers Description)	37
									38
									39
									40

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Tel: 02920 735354  
 info@terrafirmawales.co.uk  
 www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

# Borehole Log

Borehole No.

**BH-D11**

Sheet 3 of 3

Project Name: The Pavilions	Project No: 17931	Co-ords: 298105E - 192733N	Hole Type RO
-----------------------------	-------------------	----------------------------	--------------

Location: Tonypandy	Level: 200.42m	Scale 1:100
---------------------	----------------	-------------

Client: Morgan Sindal Construction & Infrastructure Ltd	Dates: 18/06/2024 - 18/06/2024	Logged By Van Elle
---	--------------------------------	--------------------

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				42.00	158.42			Solid Poor Returns (Drillers Description)	41
								End of Borehole at 42.000m	42
									43
									44
									45
									46
									47
									48
									49
									50
									51
									52
									53
									54
									55
									56
									57
									58
									59
									60

Remarks: 1. No casing used. 2. No groundwater recorded. 3. Description is provided by the drillers based on the arisings at the surface. 4. Borehole terminated at scheduled depth 5. Borehole backfilled with gravel and OPC. 6. No gas detected during drilling.



Project Id: 17931

Project Title: The Pavilions

Location: Tonypandy

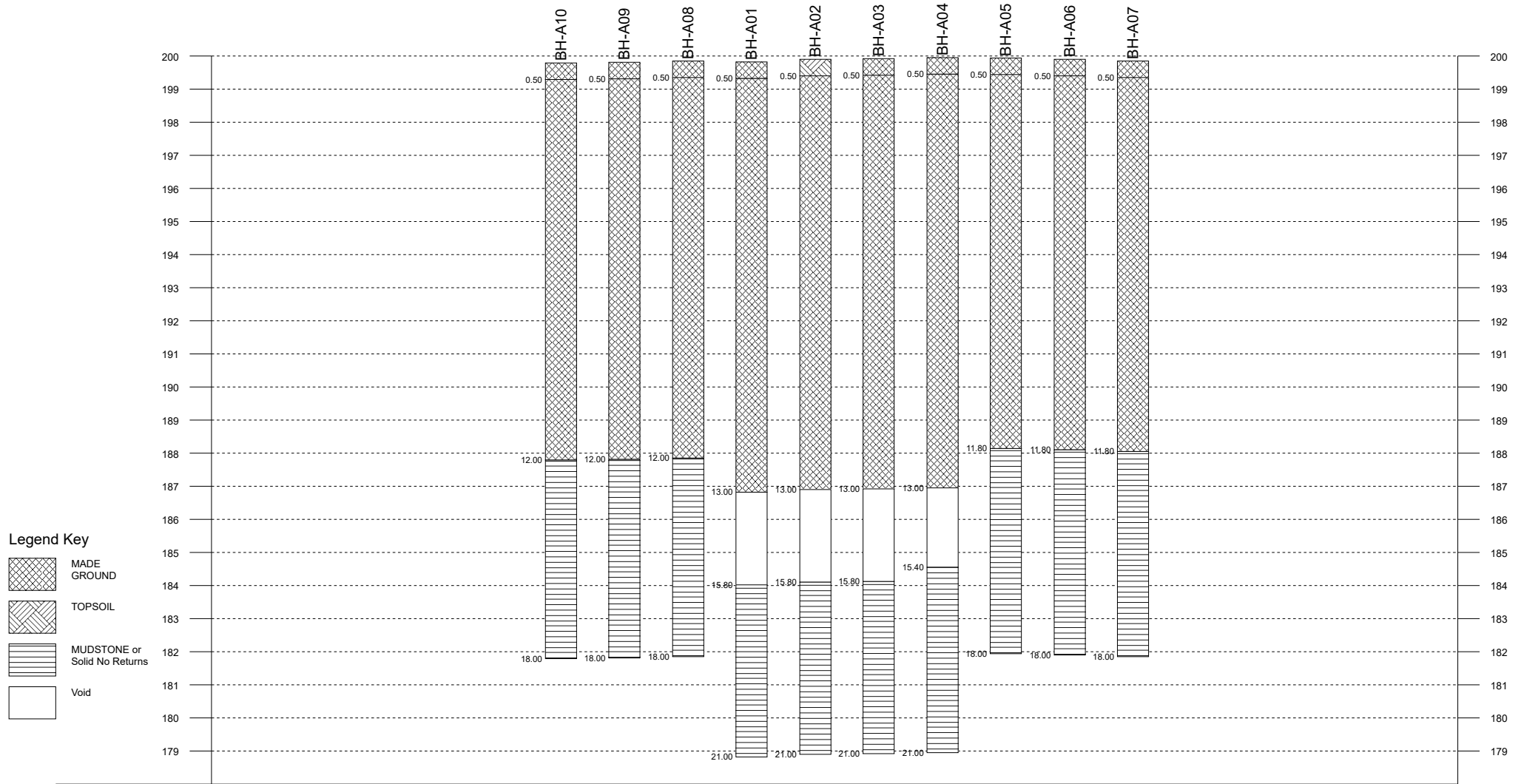
Client: Morgan Sindal Construction & Infrastructure Ltd

Title: Borehole Line A

Vertical Scale: 1:169

Horizontal Scale: 1:88

Engineer: ADB



**Legend Key**

- MADE GROUND
- TOPSOIL
- MUDSTONE or Solid No Returns
- Void

Chainage (m)	0.00	3.29	4.29	5.29	6.29	7.29	8.29	9.29	10.29	11.29	12.29	15.07
Offset (m)		0.04	0.04	0.06	0.07	0.08	0.10	0.11	0.13	0.13	0.15	
Elevation (mAOD)		199.79	199.81	199.85	199.82	199.90	199.92	199.95	199.94	199.90	199.85	

Project Id: 17931

Project Title: The Pavilions

Location: Tonypandy

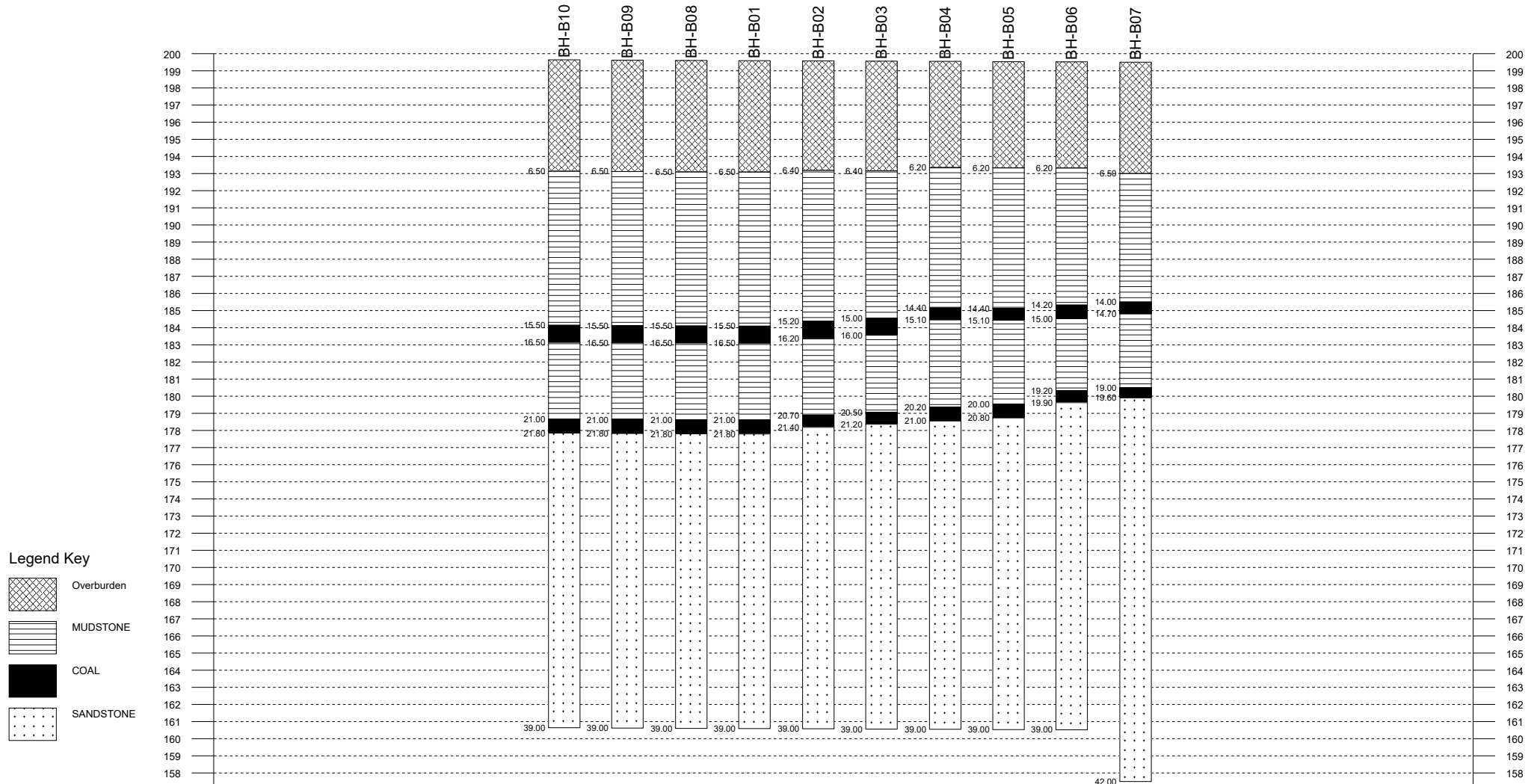
Client: Morgan Sindal Construction & Infrastructure Ltd

Title: Borehole Line B





Vertical Scale: 1:330

Horizontal Scale: 1:89

Engineer: ADB



Legend Key

-  Overburden
-  MUDSTONE
-  COAL
-  SANDSTONE

Chainage (m)	0.00	3.29	4.28	5.29	6.28	7.29	8.28	9.29	10.28	11.28	12.28	15.27
Offset (m)		0.34	0.31	0.28	0.25	0.22	0.19	0.15	0.13	0.09	0.07	
Elevation (mAOD)		199.64	199.62	199.60	199.59	199.58	199.56	199.55	199.53	199.52	199.50	

Project Id: 17931

Project Title: The Pavilions

Location: Tonypanyd

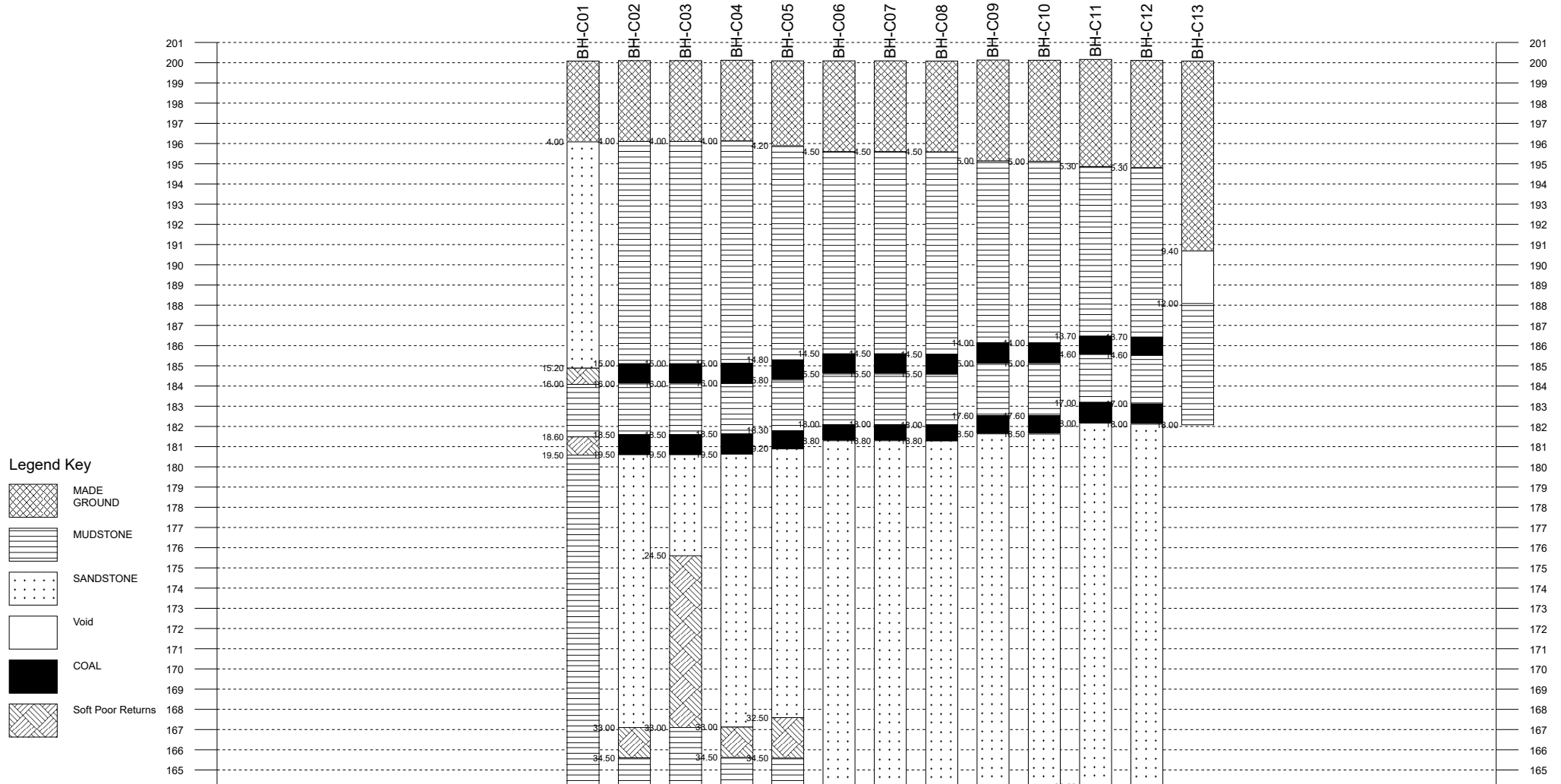
Client: Morgan Sindal Construction & Infrastructure Ltd

Title: Borehole Line C







Vertical Scale: 1:284

Horizontal Scale: 1:112

Engineer: ADB



Legend Key

-  MADE GROUND
-  MUDSTONE
-  SANDSTONE
-  Void
-  COAL
-  Soft Poor Returns

Chainage (m)	0.00	200.08	200.10	200.10	200.12	200.09	200.09	200.09	200.08	200.13	200.12	200.16	200.11	200.08	19.31
Offset (m)		0.31	0.28	0.24	0.21	0.18	0.14	0.11	0.08	0.04	0.01	0.03	0.06	0.09	
Elevation (mAOD)		4.33	5.33	6.33	7.33	8.32	9.32	10.32	11.33	12.33	13.33	14.33	15.33	16.32	

Project Id: 17931

Project Title: The Pavilions

Location: Tonypanyd

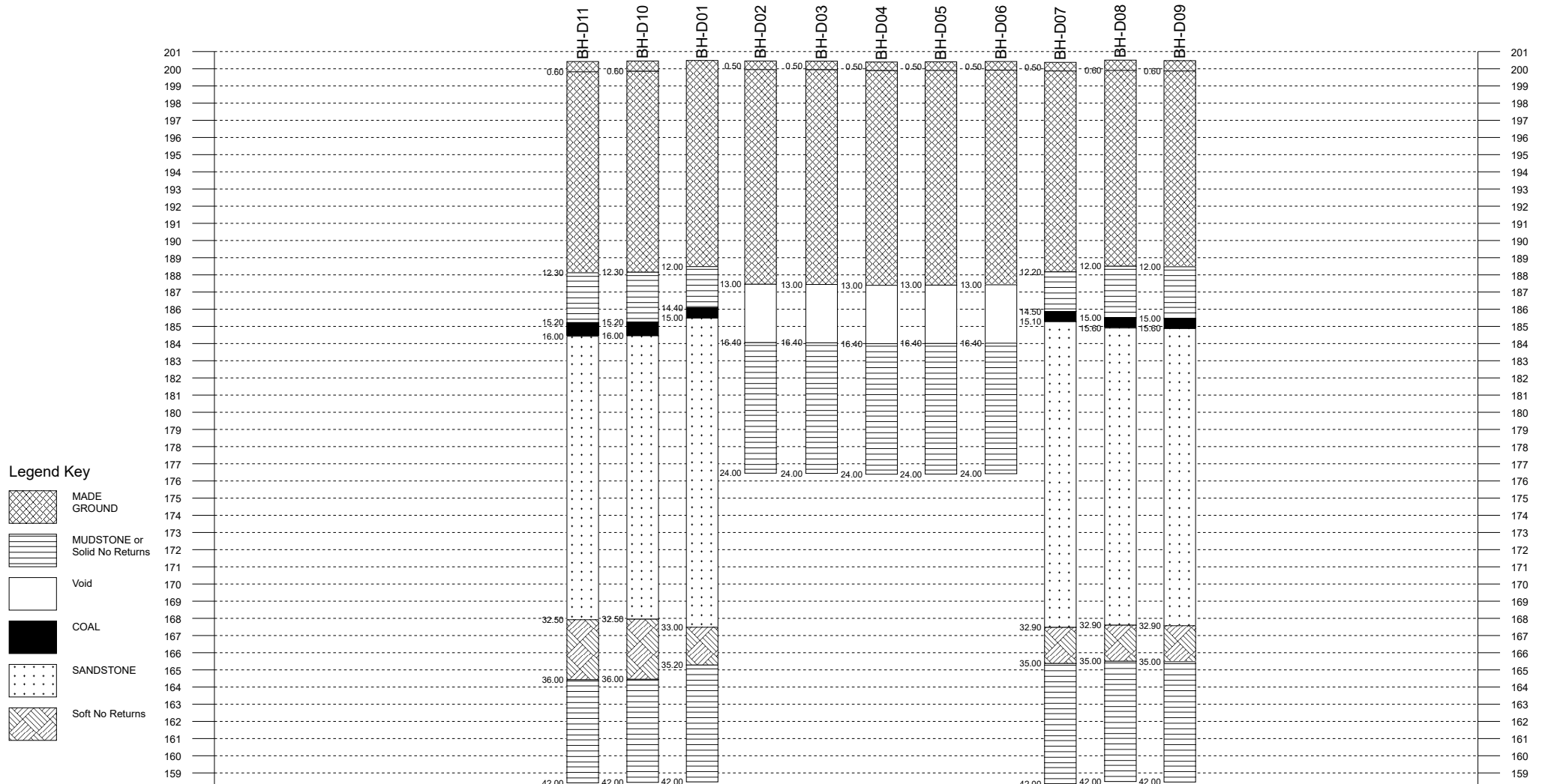
Client: Morgan Sindal Construction & Infrastructure Ltd

Title: Borehole Line D

Vertical Scale: 1:330

Horizontal Scale: 1:95

Engineer: ADB



Chainage (m)	0.00	3.79	4.79	5.79	6.77	7.79	8.79	9.79	10.79	11.79	12.79	13.79	16.35
Offset (m)		0.04	0.06	0.08	0.07	0.12	0.13	0.15	0.17	0.19	0.21	0.23	
Elevation (mAOD)		200.42	200.45	200.48	200.45	200.44	200.39	200.40	200.42	200.37	200.50	200.47	

**DRAWING**





ACCESS PATH TO

298192-001

Shared space road with feature paving

Feature square / plaza to entrance

PROPOSED SCHOOL BUILDING

CAR PARK

**Legend**

- Drill & Grout Boreholes
- 1.5m Grid



PROJECT:	17931 - Clydach Vale Pavilions
DRAWING 01:	Proposed Drilling & Grouting Layout

TFW Group Ltd  
5 Deryn Court, Wharfedale Road,  
Cardiff, CF23 7HA  
Tel: 029 2073 5354  
Email: Cardiff@tfwgroup.co.uk





**Terra Firma (Wales) Ltd.** 5 Deryn Court, Wharfedale Road, Pentwyn, Cardiff CF23 7HA  
Tel: 029 2073 5354 Fax: 029 2073 5433 Email: [info@terrafirmawales.co.uk](mailto:info@terrafirmawales.co.uk) [www.terrafirmawales.co.uk](http://www.terrafirmawales.co.uk)