

ANNEX B
Risk Assessment Definitions

The contaminated land regime is set out in Part 2A of the Environmental Protection Act (EPA) 1990 and was introduced on the 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th July 2000.

Part 2A was introduced to achieve three overarching objectives:

- (a) To identify and remove unacceptable risks to human health and the environment.
- (b) To seek to ensure that contaminated land is made suitable for its current use.
- (c) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under Part 2A the statutory definition of 'contaminated land' is:

"any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason of substances in, on, or under the land, that:

- (a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
- (b) Pollution of controlled waters is being, or is likely to be, caused."

Under Part 2A, for land to be classified as 'Contaminated Land' there must be one or more contaminant, pathway, receptor linkages, known as the '**Pollutant Linkage**'. A pollutant linkage requires three essential elements:

- (a) A **CONTAMINANT** (SOURCE) – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
- (b) A **RECEPTOR** – something which could be adversely affected by a contaminant.
- (c) A **PATHWAY** – a route by which a receptor is or might be exposed to or affected by a contaminant.

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is given by the Guidelines for Environmental Risk Assessment and Management (DEFRA *et al*, 2000):

'Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'.

Model Procedures for the Management of Land Contamination – Contamination Land Report 11 (2004) defines a 'Hazard' as

'a property or situation that in particular circumstances could lead to harm'.

A framework for qualitative risk assessment is provided in CIRIA publication C552 Contaminated Land Risk Assessment – A Guide to Good Practice (2001). The method requires an assessment of the magnitude of the probability of the risk occurring and the magnitude of the potential consequence. Classifications of consequences and probability, levels and descriptions of risk have been devised from the above publication and are defined in the following sections.

Classification of Consequence

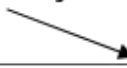
Table A Classification of Consequence	
Classification	Definition
Severe	• Short term (acute) risk to human health likely to result in significant harm • Short term risk to controlled waters • Catastrophic damage to buildings/structures • Short term risk to an ecosystem or organism within the particular ecosystem
Medium	• Chronic damage to human health (long term risk) • Pollution of a sensitive water resource • A significant change in an ecosystem or organism within the ecosystem
Mild	• Pollution of non-sensitive water resources • Significant damage to buildings/structures • Damage to sensitive buildings/structure/services or the environment
Negligible	• Harm (not necessarily significant) which may result in financial loss • Non-permanent health effects to humans (easily prevented by PPE for example) • Easily repairable effects of structural (building) damage

Classification of Probability

Table B Classification of Probability	
Classification	Definition
High Likelihood	• There is a complete pollution linkage and an event appears very likely to occur in the short term and is inevitable in the long term. • Evidence of harm to the receptor
Likely	• There is a complete pollution linkage which means that it is probable that an event will occur • The event is not inevitable but possible in short term and likely in the long term
Low Likelihood	• There is a complete pollution linkage and circumstances are possible under which an event could occur • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term
Unlikely	• There is a complete pollution linkage but circumstances are such that it is improbable that an event would occur even in the long term

Risk Assessment Matrix

By comparing the consequences of a risk and the probability of the risk of a pollution linkage, the likely risk category can be determined as shown in **Table C** below.

Table C Risk Assessment Matrix					
Increasing acceptability 		Consequence			
		Severe	Medium	Mild	Negligible
Probability	High Likelihood	High risk	High risk	Medium risk	Low risk
	Likely	High risk	Medium risk	Low risk	Near zero risk
	Low Likelihood	Medium risk	Low risk	Low risk	Near zero risk
	Unlikely	Low risk	Near zero risk	Near zero risk	Near zero risk

Description of Risks and Likely Actions

High Risk

There is a high probability that severe harm could arise to a receptor, or there is evidence that a receptor is currently being severely harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

Medium Risk

It is probable that harm will arise to a receptor. However, it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

Low Risk

It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

Near Zero Risk

There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.

ANNEX C
Coal Mining Risk Assessment



The Coal
Authority

Consultants Coal Mining Report

Neath Workingmens Social Club, 38-
42
Wind Street
Neath
Vale Of Glamorgan
SA11 3HA

Date of enquiry:	24 August 2022
Date enquiry received:	24 August 2022
Issue date:	24 August 2022

Our reference:	51003306927001
Your reference:	300294841_2



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Neath Workingmens Social Club, 38-42
Wind Street
Neath
Vale Of Glamorgan
SA11 3HA

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

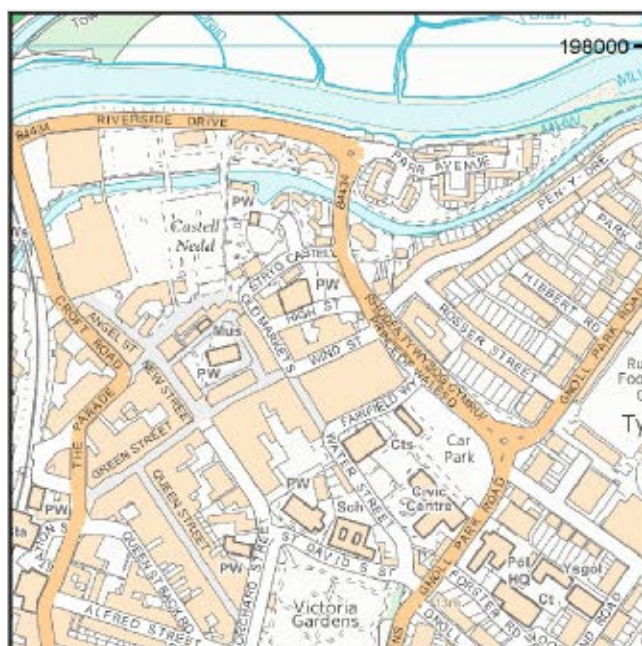
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

SWR1671	PO0	SWR2654
---------	-----	---------

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

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices

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

Payment to owners of former copyhold land

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

Key

Approximate position of the enquiry boundary shown 



**ANNEX D
Trial Pit Logs**

Trial Pit Log

Trial Pit No:
 TP01
 Sheet 1 of 1

Project Name: Neath Workingman's Club

Project No:
 17464

Co-ords: -
 Level:

Date:
 27/10/2022

Location: Neath Workingman's Club, High Street, Neath

Dimensions: 2.00
 Depth 1.00 0.50

Scale:
 1:25
 Logged:
 JR

Client: Castle Construction Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.10			MADE GROUND comprising TARMACADAM.	
				0.40			Dark grey slightly silty sandy fine to coarse angular mudstone GRAVEL with clay tyle and brick fragments. (MADE GROUND)	
				1.00			Dark yellowish brown clayey gravelly SAND with medium cobble and boulder content. Gravel is fine to coarse rounded mudstone.	
							End of Pit at 1.000m	1
								2
								3
								4
								5

Stability: Moderately Stable.

Remarks: Groundwater was not encountered. On completion, hole backfilled with material arising.

Trial Pit Log

Trial Pit No:
 TP02
 Sheet 1 of 1

Project Name: Neath Workingman's Club

Project No:
 17464

Co-ords: -
 Level:

Date:
 27/10/2022

Location: Neath Workingman's Club, High Street, Neath

Dimensions:

2.00

Depth

1.20

0.50

Scale:

1:25

Logged:
 JR

Client: Castle Construction Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND comprising TARMACADAM.
				0.40			Dark grey slightly silty sandy fine to coarse angular mudstone GRAVEL with clay tyle and brick fragments. (MADE GROUND)
				0.60			MADE GROUND comprising mudstone slabs and clay pipe.
				1.20			Dark yellowish brown gravelly very clayey SAND with low cobble content. Gravel is fine to coarse rounded mudstone.
							End of Pit at 1.200m

Stability: Moderately Stable.

Remarks: Groundwater was not encountered. On completion, hole backfilled with material arising.

**ANNEX E
Soakaway Results**

SOAKAWAY TEST



Site Name: Neath Working Mens Club
Project Number: 17464
Date: 25/10/2022
Engineer: Jamie Alderman

Trial Pit: TP01

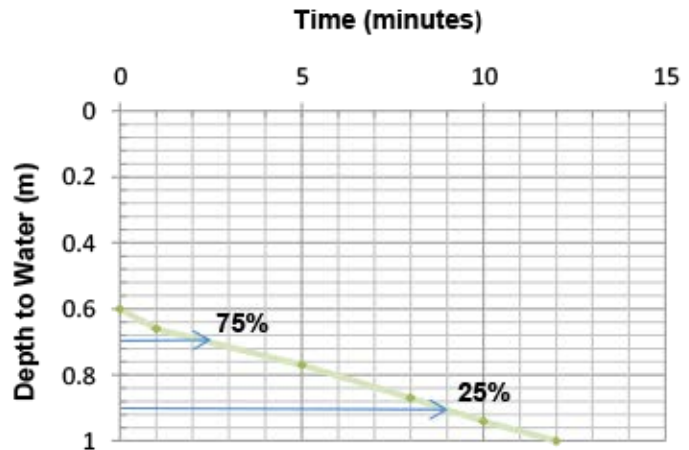
TEST 1

Length
Bredth
Depth
Fill Level

2.00	m
0.50	m
1.00	m
0.60	m

V_{p75-25} 0.2 m³
 a_{p50} 2 m²
 t_{p75-25} 6.5 minutes

Soil Infiltration Rate, f 2.56E-04 ms⁻¹



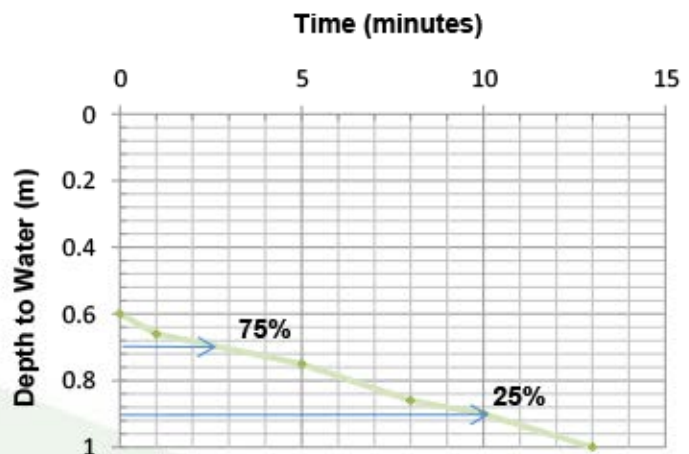
TEST 2

Length
Bredth
Depth
Fill Level

2.00	m
0.50	m
1.00	m
0.60	m

V_{p75-25} 0.2 m³
 a_{p50} 2 m²
 t_{p75-25} 7.5 minutes

Soil Infiltration Rate, f 2.22E-04 ms⁻¹



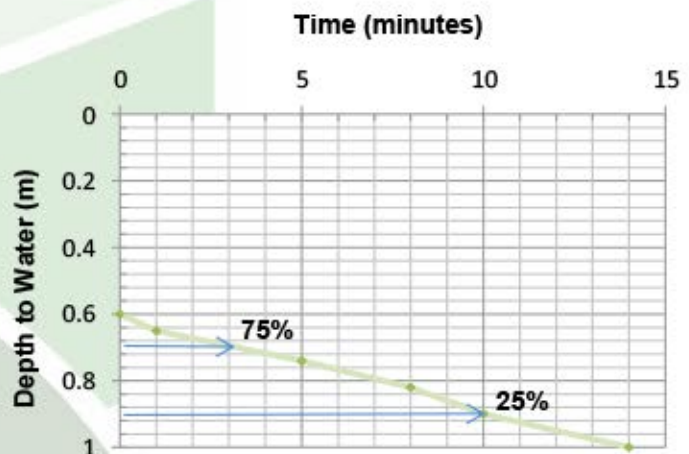
TEST 3

Length
Bredth
Depth
Fill Level

2.00	m
0.50	m
1.00	m
0.60	m

V_{p75-25} 0.2 m³
 a_{p50} 2 m²
 t_{p75-25} 7 minutes

Soil Infiltration Rate, f 2.38E-04 ms⁻¹



REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

[illegible][illegible][illegible]

SOAKAWAY TEST



Site Name: Neath Working Mens Club
Project Number: 17464
Date: 25/10/2022
Engineer: Jamie Alderman

Trial Pit: TP02

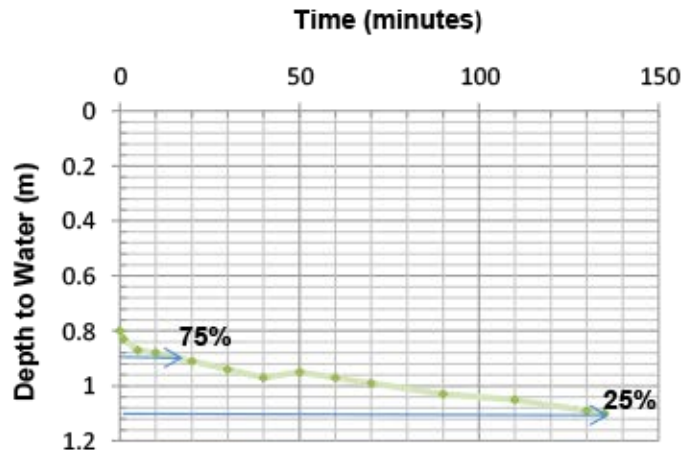
TEST 1

Length
Bredth
Depth
Fill Level

2.00 m
0.50 m
1.20 m
0.80 m

V_{p75-25} 0.2 m³
 a_{p50} 2 m²
 t_{p75-25} 119 minutes

Soil Infiltration Rate, f 1.40E-05 ms⁻¹



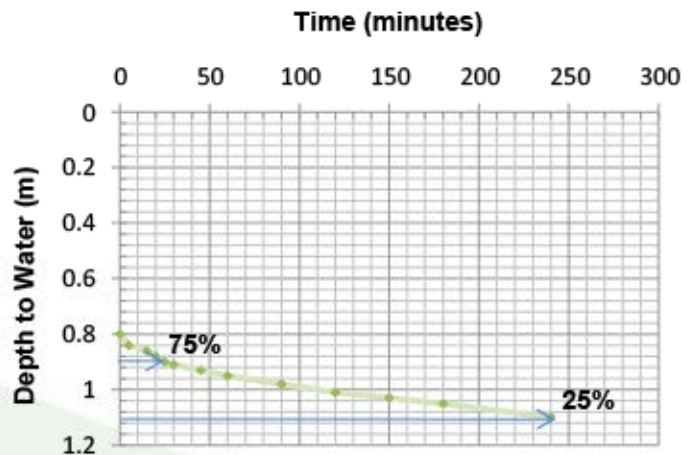
TEST 2

Length
Bredth
Depth
Fill Level

2.00 m
0.50 m
1.20 m
0.80 m

V_{p75-25} 0.2 m³
 a_{p50} 2 m²
 t_{p75-25} 215 minutes

Soil Infiltration Rate, f 7.75E-06 ms⁻¹



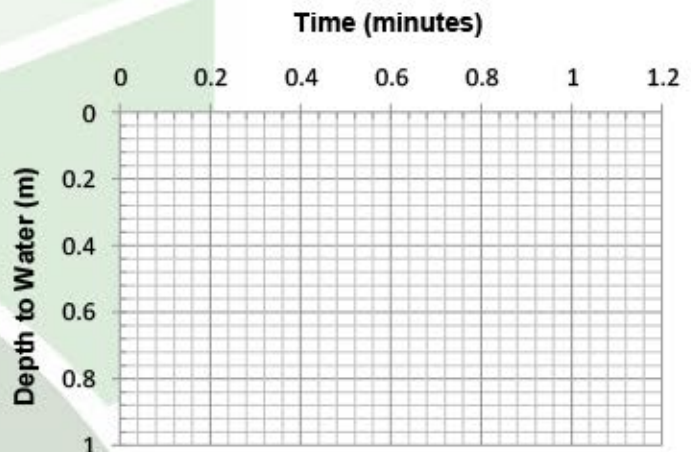
TEST 3

Length
Bredth
Depth
Fill Level

2.00 m
0.50 m
1.20 m
0.60 m

V_{p75-25} 0.3 m³
 a_{p50} 2.5 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f ms⁻¹



REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

Time (mins)	Depth to Water (m)	Effective Depth (m)	
0	0.8	Height to 0.75H	0.40
1	0.83	Height to 0.25H	0.9
5	0.87	tp75	1.1
10	0.88	tp25	16
20	0.91		135
30	0.94		
40	0.97		
50	0.95		
60	0.97		
70	0.99		
90	1.030		
110	1.050		
130	1.090		
135	1.100		

Time (mins)	Depth to Water (m)	Effective Depth (m)	
0	0.8	Height to 0.75H	0.9
5	0.84	Height to 0.25H	1.1
15	0.86	tp75	25
20	0.88	tp25	240
25	0.9		
30	0.91		
45	0.93		
60	0.95		
90	0.98		
120	1.01		
150	1.03		
180	1.05		
240	1.1		

[illegible]

**ANNEX F
Borehole Logs**

Borehole Log

Borehole No.

BH01

Sheet 1 of 2

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	RO
Location:	Neath Workingman's Club, High Street, Neath	Level:		Scale	1:100	Logged By	
Client:	Castle Construction Ltd	Dates:	14/08/2023 - 15/08/2023				

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								MADE GROUND (Drillers description)	1
	2.50	SPT	50 (3,13/50 for 235mm)	2.50				Stiff cobbles and CLAY (Drillers description)	2
	5.50	SPT	N=44 (6,6/7,7,15,15)						3
	8.50	SPT	N=40 (5,6/7,9,11,13)	8.50					4
	10.00	SPT	N=42 (3,8/8,8,12,14)						5
	11.50	SPT	N=46 (4,6/8,12,12,14)						6
	13.00	SPT	N=46 (5,5/9,14,10,13)						7
	14.50	SPT	N=41 (7,9/9,9,11,12)						8
	16.00	SPT	N=28 (4,6/6,6,7,9)						9
	17.50	SPT	N=40 (3,7/9,9,10,12)						10
	19.00	SPT	N=45 (7,9/10,11,11,13)						11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks: 1. Groundwater was encountered at 9.00m. 2. Description is provided by the drillers based on the arisings at the surface. 3. Borehole terminated at scheduled depth 4. Borehole backfilled with arisings.

Borehole Log

Borehole No.

BH01

Sheet 2 of 2

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	RO
Location:	Neath Workingman's Club, High Street, Neath	Level:				Scale	1:100
Client:	Castle Construction Ltd	Dates:	14/08/2023 - 15/08/2023			Logged By	

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				20.50				Dense to very dense SAND and GRAVEL (Drillers description) End of Borehole at 20.500m	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks: 1. Groundwater was encountered at 9.00m. 2. Description is provided by the drillers based on the arisings at the surface. 3. Borehole terminated at scheduled depth 4. Borehole backfilled with arisings.

Borehole Log

Borehole No.

WS01

Sheet 1 of 1

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	WS
Location:	Neath Workingman's Club, High Street, Neath	Level:				Scale	1:50
Client:	Castle Construction Ltd	Dates:	27/09/2022 - 27/09/2022			Logged By	JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.08				MADE GROUND: Black TARMAC.	
				0.25				MADE GROUND: Grey sandy GRAVEL (Sub-base).	
								MADE GROUND: Medium dense grey COBBLES with much fines. Fines are sandy gravel. Cobbles are angular of angular of sandstone, brick and concrete.	
				0.75				MADE GROUND: Loose dark grey ashey sandy GRAVEL. Gravel is angular fine to coarse including slag, caoal and slate.	1
	2.00	SPT	N=7 (1,0/1,0,1,5)						2
	2.50	SPT	50 (25 for 80mm/50 for 95mm)	2.30 2.35 2.50				Grey fine to medium SAND. Dense brown sandy GRAVEL. Gravel is subrounded fine to coarse of mudstone and sandstone. End of Borehole at 2.500m	3
									4
									5
									6
									7
									8
									9
									10

Remarks: 1. No groundwater encountered. 2. Borehole terminated at SPT refusal. 3. Borehole backfilled with arisings.

Borehole Log

Borehole No.

WS02

Sheet 1 of 1

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	WS
Location:	Neath Workingman's Club, High Street, Neath	Level:				Scale	1:50
Client:	Castle Construction Ltd	Dates:	27/09/2022 - 27/09/2022			Logged By	JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.08				MADE GROUND: Black TARMAC.	
				0.25				MADE GROUND: Grey sandy GRAVEL (Sub-base).	
								Brick wall	
				0.70				MADE GROUND: Medium dense grey silty sandy GRAVEL with low cobble content. Gravel is angular of brick, concrete and slate. Cobbles are angular of angular of sandstone, brick and concrete.	1
								End of Borehole at 0.700m	
									2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: 1. No groundwater encountered. 2. Borehole terminated due inability to advance inspection pit. 3. Borehole backfilled with arisings.

Borehole Log

Borehole No.

WS03

Sheet 1 of 1

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	WS
Location:	Neath Workingman's Club, High Street, Neath	Level:				Scale	1:50
Client:	Castle Construction Ltd	Dates:	27/09/2022 - 27/09/2022			Logged By	JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.08				MADE GROUND: Black TARMAC.	
				0.20				MADE GROUND: Grey sandy GRAVEL (Sub-base).	
				0.50				MADE GROUND: Loose dark grey ashey sandy GRAVEL. Gravel is angular fine to coarse including slag, caoal and slate.	
				0.80				Medium dense brown sandy GRAVEL with low cobble content. Gravel is subrounded fine to coarse of mudstone and sandstone. Cobbles are subrounded of sandstone.	1
				1.00				Dense brown COBBLES with little fines. Fines are sandy gravel. Cobbles are subrounded of sabdstone.	
								End of Borehole at 1.000m	
									2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: 1. No groundwater encountered. 2. Borehole terminated due inability to advance inspection pit. 3. Borehole backfilled with arisings.

Borehole Log

Borehole No.

WS04

Sheet 1 of 1

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	WS
Location:	Neath Workingman's Club, High Street, Neath	Level:				Scale	1:50
Client:	Castle Construction Ltd	Dates:	27/09/2022 - 27/09/2022			Logged By	JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.08				MADE GROUND: Black TARMAC.	
				0.15				MADE GROUND: Grey sandy GRAVEL (Sub-base).	
				0.55				MADE GROUND: Loose dark grey sandy GRAVEL. Gravel is angular to subrounded fine to coarse including brick, sandstone and concrete.	
								MADE GROUND: Loose brown sandy GRAVEL with low cobble content. Gravel is angular to subrounded fine to coarse including brick, sandstone and concrete. Cobbles are subrounded of sandstone.	1
	1.50	SPT	50 (8,13/50 for 190mm)	1.30				Medium dense brown sandy GRAVEL with low cobble content. Gravel is subrounded fine to coarse of mudstone and sandstone. Cobbles are subrounded of sandstone.	
				1.50				End of Borehole at 1.500m	2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: 1. No groundwater encountered. 2. Borehole terminated at SPT refusal. 3. Borehole backfilled with arisings.

Borehole Log

Borehole No.

WS05

Sheet 1 of 1

Project Name:	Neath Workingman's Club	Project No:	17464	Co-ords:		Hole Type	WS
Location:	Neath Workingman's Club, High Street, Neath	Level:				Scale	1:50
Client:	Castle Construction Ltd	Dates:	04/10/2022 - 04/10/2022			Logged By	

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
	0.20 - 0.40	ES		0.16				Concrete	
	1.00	SPT	N=23 (8,8/8,5,5,5)	0.95				MADE GROUND: Loose Brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.	1
	1.20 - 1.40	ES						MADE GROUND: Loose Brown clayey gravelly SAND with frequent ashy pockets and occasional fragments of brick and concrete. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.	2
	2.00	SPT	N=11 (3,3/4,3,2,2)						
	3.00	SPT	N=3 (3,3/0,0,0,3)	3.00				No recovery due to collapsing side walls beyond casing. Possible void from 3.0m to 3.3m	3
	3.90	SPT	50 (25 for 95mm/50 for 255mm)	3.90				End of Borehole at 3.900m	4
									5
									6
									7
									8
									9
									10

Remarks: 1. No groundwater encountered. 2. Borehole terminated at SPT refusal. 3. Borehole backfilled with arisings.

Borehole Log

Borehole No.

WS06

Sheet 1 of 1

Project Name: Neath Workingman's Club

Project No:
17464

Co-ords:

Hole Type
WS

Location: Neath Workingman's Club, High Street, Neath

Level:

Scale
1:50

Client: Castle Construction Ltd

Dates: 04/10/2022 - 04/10/2022

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
	0.40 - 0.60	ES		0.18				Concrete	
	0.80 - 1.00	ES		0.65				MADE GROUND. (Loose) Brown clayey gravelly SAND with frequent ashy pockets and occasional fragments of brick and concrete. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.	
	1.00 - 1.20	D						Firm brown CLAY.	1
	1.00	SPT	N=28 (1,1/3,3,10,12)						
	1.50	SPT	50 (25 for 125mm/50 for 40mm)	1.30				Firm brown slightly sandy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone.	
				1.50				End of Borehole at 1.500m	2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: 1. No groundwater encountered. 2. Borehole terminated at SPT refusal. 3. Borehole backfilled with arisings.