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SECTION OF No. 4 Box Blackmannan 139 N.E.

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One-inch MapSix-inch Map (County and .	Thickness.	Depth from Surface
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		-						



BGS ID: 852218: BGS Reference: NS89SE207 British National Grid (27700): 289070,691910

Report an issue with this borehole

< Prev Page 1 of 2 ▼ Next > <<

ECTION OF BOWHOUSE B/H 4	REG. NO.	ame o-NS89S	E 207
ALLOA		v.	
NAT. GRID REF. 89079191	-		
URFACE LEVEL 7*0D	•		
LOGGED BY KVD.05/02/86			
DRILLED FOR ROS.	•		
	-		
DRILLED BY POL. 28/01/86 VATER STRUCK U N S E S 1 C	-	THICK.	DEPTH
OIL, NOCO.	-	0.50	0.50
LAY, SLTY, NOCO.		1.00	
LAY.PLASTIC.NOCO.		5,90	
AGR. NOCO.		1.80	
QL II lovey Billion I was a part of the second part		7.40	
LAY, SLTY+GRAV.UC.NOCO.		1 1	
BDST.NOCO.		0.50	
DST.off white/grey,rila,v silty.		1.20	
GLST.blue/grey,thinly lamd.		1.60	
DST.off white/buff, fine, silty, rila.		2.85	22.7
SLST.off white/buff.		0.70	and of the con-
MDST.dk grey, CARB, SHELLS.		0.29	
COAL.CANNEL TOP, bkn, to dust from 25.5m.		3.00	
SEAT. sand. core loss.		1.71	
DST.buff,fine,rila,bkn to base.		0.89	29.34
END OF BOREHOLE 29.34m			
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Bank De Nath Palitics 1994 Contact of Tarriery			ибись-
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BGS ID: 852219: BGS Reference: NS89SE208 British National Grid (27700): 289080,691890

Report an issue with this borehole

<< < Prev Page 1 of 2 ▼ Next >

SECTION OF BOWHOUSE B/H 10	G. NO.	NS89:	SE 208
ALLQA	-	- Additional	uki ti
NAT. GRID REF. 89089189			
SURFACE LEVEL ?*OD			
LOGGED BY KVD.07/02/86			
DRILLED FOR ROS.			
DRIEEED BY TOL. 05/02/86 Engine de lanca de lanc			110.00
VATER STRUCK U NSESIC		THICK.	DEPTH.
GOIL.NOCO.		0.50	0.50
CLAY, SLTY. NOCO.		1.00	1.50
CLAY.PLASTIC.NOCO.		6.00	7.50
RAV.UC.CLAYEY.NOCO.		10.50	
DST,SLST.off white/grey,rila,COALY traces to top,v bkn.	. '	2.20	
LMD.grey, thinly bedded, silty bands.	•	1.50	
DST.black thinly bedded, SHELLS.		0.30	
DST, SLST.grey, thinly bedded, bkn.		0.60	
DST.off white/grey, finely rila, v silty.		3.58	
IDST. hlack SHELLS		0.37	
ANL			
0ID.		0.21	
OAL.bright banded.		2.00	
EAT.grey,slst,sandy to base.		0.32	
		1.07	
DST.off white/buff,fine. ND: OF BOREHOLE 30.70m		0.55	
			H*************************************
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			E

Phases 8 &9, Alloa,

Appendix 06

Coal Authority Report (February 2017, Ref: 51001370839001)

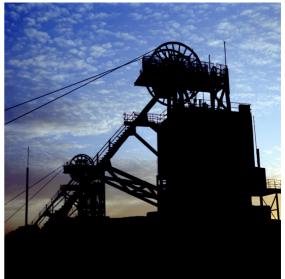


Resolving the impacts of mining

CON29M Non-Residential Mining Report

SITE AT ALLOA CLACKMANNANSHIRE







Date of enquiry: 17 February 2017
Date enquiry received: 17 February 2017
Issue date: 17 February 2017

Our reference: 51001370839001 Your reference: 114797357_2|

CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority, at the time we answer the search.

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

SITE AT ALLOA, CLACKMANNANSHIRE

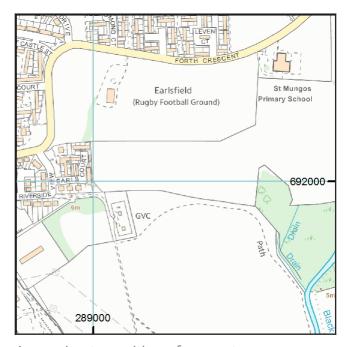
How to contact us

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

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com

- in /company/the-coal-authority
- f /thecoalauthority
- /coalauthority



Approximate position of property



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Summary

Has	the search report highlighted evidence or potential of	
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	Yes
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No

Further recommended reports
Coal mining subsidence claims 50m buffer report
Coal mining subsidence claims history

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 2 seams of coal at 120m depth, and last worked in 1953.

Any movement in the ground due to coal mining activity should have stopped.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

© The Coal Authority Page 4 of 9

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. Coal mining subsidence

There are 1 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

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.

If further subsidence damage claims information is required, please visit www.groundstability.com.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

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.

© The Coal Authority Page 5 of 9

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. 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.

© The Coal Authority Page 6 of 9

Comments on the Coal Authority information

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In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

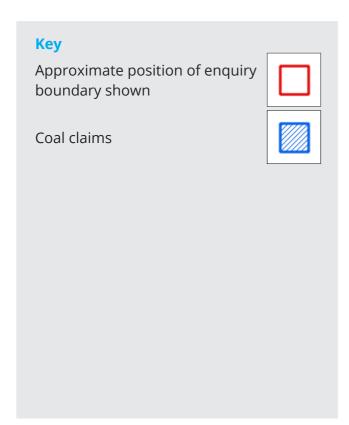
Disclaimer

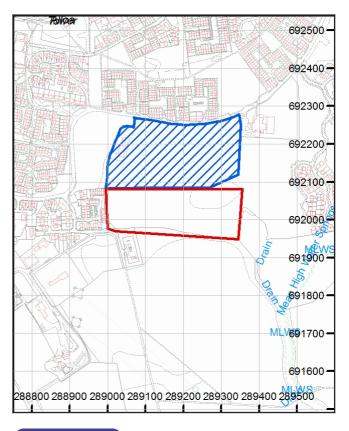
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Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary





How to contact us

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

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com

- in /company/the-coal-authority
- f /thecoalauthority
- /coalauthority



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Phases 8 &9, Alloa,

Appendix 07

Records of Exploratory Trial Pit Logs (Mason Evans Partnership Ltd, August 2017)



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Site Trial Pit No Alloa Phase 8+9 **SP01** Job No Allanwater Developments P16-483 Ground Level Date Sheet 1 of 1

Trial Pit Dimensions **Excavation Method** $2.0m \times 0.3m \times 2.2m$ Volvo EC27

17-08-17 17-08-17

Contractor

Remarks

SKF Drilling LTD

_	<u> </u>						
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
	TJSuite 1 1.0				- (2.20) - (2.20) - (2.20)	Made Ground: Dark brown slightly gravelly very sandy CLAY with occasional rootlets and occasional angular to rounded sandstone cobbles. Gravel is angular to rounded fine to coarse sandstone and siltstone. Extraneous material includes rubber gloves, brick fragments, porcelain fragments, rubber and wire.	

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.20 m. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD

Plan



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Trial Pit Dimensions

 $2.0m \times 0.3m \times 2.2m$

Site Trial Pit No Alloa Phase 8+9 **SP02** Job No Allanwater Developments P16-483 Ground Level Date Sheet 17-08-17 17-08-17 1 of 1

Contractor SKF Drilling LTD

Excavation Method

Volvo EC27

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
- 0.50	TJENV 0.5					Made Ground: Dark brown slightly gravelly very sandy CLAY with occasional rootlets and occasional angular to rounded sandstone cobbles. Gravel is angular to rounded fine to coarse sandstone and siltstone. Extraneous material includes rubber gloves, brick fragments, porcelain fragments, rubber and wire.	
- - - - - - - - - - - - - - - - - - -	TJSuite 2 1.5				(2.20)		
					- 2.20 		
- - - - - - - - - - - - - - - - - - -					- - - - - - - - - - - -		

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.20 m. Pit side walls were stable.

Remarks

Plan

All dimensions in metres Logged By Scale 1:25 AD



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Trial Pit Dimensions

 $2.0m \times 0.3m \times 2.2m$

Client
Allanwater Developments

Ground Level

Site

Alloa Phase 8+9

SP03

Trial Pit No

Job No

P16-483

Date 17-08-17 17-08-17

Sheet

1 of 1

Contractor

Excavation Method

Volvo EC27

SKF Drilling LTD

DIX.	Dinning Lin							
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)			Legend
	TJENV 1.5				(2.00) 		y gravelly very sandy d occasional angular ivel is angular to ind siltstone. ic bags, rubber porcelain fragments,	
Remarks						Plan		

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.20 m. 3. Pit side walls were stable. All dimensions in metres Scale 1:25 AD



sultants
Client

Ground Level

Site

Job No

Sheet

t: 0141 420 2025 e: masonevans.co.uk

The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Allanwater Developments

Alloa Phase 8+9

P16-483

Trial Pit No

TP01

Excavation Method Volvo EC27 Trial Pit Dimensions
2.0m x 0.3m x 2.7m

Date 17-08-17 17-08-17

1 of 1

Contractor

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Leger
_					- (0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/ · 2/ · 1/
0.40	TJUKWIR 0.4	1			0.30	Firm light brown slightly sandy CLAY with occasional rootlets.	
0.60	TJENV 0.6				0.60	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
_					1.00	Soft light brown mottled orange silty CLAY.	
					(0.70)		
						Very soft bluish grey slightly sandy clavey SILT with	×
1.90	TJENV 1.9					Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × ×
					(1.00)		× × × × × ×
					2.70		× × × × ×
-					- - - - -		
					- - - -		
Remarks					_	Plan	

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.70 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Trial Pit Dimensions $2.0m \times 0.3m \times 2.7m$ Site Alloa Phase 8+9

Ground Level

Allanwater Developments

TP02

Job No

Sheet

P16-483

17-08-17 17-08-17

Date

1 of 1

Trial Pit No

Contractor

Excavation Method

Volvo EC27

SKF Drilling LTD

		Water			Depth		
Depth	Sample/Tests	Depth (m)	Field Records	Level (mOD)	(m) (Thickness)	DESCRIPTION	Legend
					- (0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	\(\frac{1}{2}\frac{1}{
0.30	TJSuite 1 0.3				- 0.30 - (0.30) - 0.60	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
0.70	TJENV 0.7				-	Soft light brown mottled orange silty CLAY.	
- - - -					- (1.20)		
- - - -					(1.30)		
 - - - - -							
- - - -					- - - - -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × × × × × × × × ×
- - - - -					(0.80)		× × × × × × × × × × × × × × × × × × ×
- - - -					2.70		× × × × × × × × × × × × × × × × × × ×
- - - -					- - - -		
					- - - -		
- - - - -					- - - - -		
_ - - -					- - - -		
Pamarke						Dlan	

Remarks

- Strength and density characteristics assessed by visual inspection by the on site engineer only.
 Pit was terminated at 2.70 m.
 Slight water seepage recorded at base of trial pit.
 Pit side walls were stable.

Plan

All dimensions in metres Scale 1:25

Logged By

AD



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Client Job No

Allanwater Developments

Alloa Phase 8+9

Site

P16-483

Sheet

Trial Pit No

TP03

1 of 1

Excavation Method Trial Pit Dimensions
Volvo EC27 2.0m x 0.3m x 2.7m

Ground Level Date 17-08-17 17-08-17

Contractor

SKF Drilling LTD

	<u>U</u>						
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
- - - -					- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
- - -					-	Stiff light brown slightly sandy CLAY with occasional rootlets.	
<u>-</u>					(0.60)		
_					- 0.90	Firm light brown slightly sandy CLAY with occasional	
<u>-</u>					<u> </u>	rootlets.	
-					(0.70)		
-					1.60		
1.70	TJENV 1.7				- - -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and organic plant material.	× × ×
-							× × ×
- - -					(1.10)		× × × × × × × × × × × × × × × × × × ×
<u>-</u>					-		× × × × × × × × × × × × × × × × × × ×
<u>-</u> -					2.70		^ × ^ >
- - -					_ - - -		
- - - -					-		
<u>-</u>					<u>-</u>		
					_ - -		
-					<u> </u>		
E							
ID 1						D1	

Remarks 1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.70 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD



Client Job No
Allanwater Developments

The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Method Trial Pit Dimensions Ground Level

Site

Alloa Phase 8+9

P16-483

Sheet

Volvo EC27 2.0m x 0.3m x 2.85m

Date 17-08-17 17-08-17

1 of 1

Trial Pit No

TP04

Contractor

Remarks

Excavation Method

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
0.20	TJTopsoil (re-use	0.2			- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	7 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
E - -					- - - -	Firm light brown slightly sandy CLAY with occasional rootlets.	
0.60	TJENV 0.6				(0.95)		
<u>-</u> -					-		
E E						Soft light brown mottled orange silty CLAY with occasional rootlets.	
_ _ _ _					(0.85)		
- - -					2.10		
E						Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					(0.75)		12 11 11 11 11 11
							7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
- - - - - -							
Ē							
<u>-</u> - -							

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.85 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD

Plan



Alloa Phase 8+9

Client
Allanwater Developments

Ground Level

Date

TP05

Job No
P16-483

Sheet

Trial Pit No

1 of 1

The Piazza, 95 Morrison Street, Glasgow, G5 8BE
on Method Trial Pit Dimensions

Volvo EC27 2.0m x 0.3m x 2.7m

Date 17-08-17 17-08-17

Contractor

Remarks

Excavation Method

SKF Drilling LTD

	<u> </u>						
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
- - - - -					(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	\(\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{
0.40	TJUKWIR 0.4	4			(0.20)	Stiff light brown slightly sandy CLAY with occasional rootlets.	
					- (0.90)	Firm reddish brown slightly sandy CLAY with occasional rootlets.	
					1.40	Soft light brown mottled orange slightly sandy silty CLAY.	
E E F					(0.40)		
1.90	TJENV 1.9				(0.90)	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × × × × × × × × ×
- - - - - - - -					- - - - - - - -		
- - - - - -					- - - - - - -		
- - - - -					-		
	l .			<u> </u>			

Plan

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable.



Trial Pit Dimensions

 $2.0m \times 0.3m \times 2.7m$

The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Site Trial Pit No Alloa Phase 8+9 **TP06** Job No Allanwater Developments P16-483 Ground Level Date Sheet 17-08-17 17-08-17 1 of 1

Contractor SKF Drilling LTD

Excavation Method

Volvo EC27

Remarks

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
0.20	TJSuite 1 0.2				- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	\(\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{1}\frac{1}{2}\frac{1}{
- - - - -					- - - - (0.60)	Stiff light brown slightly sandy CLAY with occasional rootlets.	
0.80	TJENV 0.8				0.90	Firm light brown slightly sandy CLAY with occasional	
					- (0.20) - 1.10	rootlets. Soft light brown mottled orange silty CLAY.	
E E					- (0.50)		
- - -					1.60	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	
-					- - - -		× × × × × × × × × × × × × × × × × × ×
<u>-</u> - -					(1.10)		× × × × × × × × × × × × × × × × × × ×
_ _ _ _					- - - -		× × × × × × × × × × × × × × × × × × ×
- - - -					2.70		× ^ ×
- - -					- - - -		
_ - - -							
- - - -					- - - -		
-					<u>-</u>		

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD

Plan



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Trial Pit Dimensions 2.0m x 0.3m x 2.25m

Site Trial Pit No Alloa Phase 8+9 **TP07** Job No Allanwater Developments P16-483 Ground Level Date Sheet 1 of 1

17-08-17 17-08-17

Contractor

Excavation Method

Volvo EC27

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
-					(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1/2/ 1
0.40	TJENV 0.4				(0.20)	Stiff light brown slightly sandy CLAV with occasional	
0.60	TJENV 0.6				(0.20)	Firm light brown slightly sandy CLAY with occasional rootlets.	
E					_	Soft light brown mottled orange silty CLAY.	
<u>-</u> -					(0.50)	0.90 4-inch ceramic field drain	
<u>-</u>					1.20	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × ×
					(1.05)		
-					<u>-</u> -		× × × ×
<u> </u>							× × × × ×
<u>-</u>					2.25		× ×
<u></u>					<u>-</u> -		
E							
					_		
					_		
<u>-</u>					<u>-</u>		
E					<u>-</u>		
_					<u>-</u>		
<u></u>					<u>t</u>		\perp

Plan Remarks Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.25m due to impersistent water ingress from old field drain. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Excavation Method

Trial Pit Dimensions

Site Trial Pit No Alloa Phase 8+9 **TP08** Job No Allanwater Developments P16-483 Ground Level Date Sheet 18-08-17 18-08-17 1 of 1

 $2.0m \times 0.3m \times 2.7m$ Volvo EC27 Contractor SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
					(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	\(\frac{1}{2}\frac{1}{
0.30	TJSuite 1 0.3				(0.20)	Stiff light brown slightly sandy CLAY with occasional	
					- (0.90)	Firm light brown slightly sandy CLAY with occasional rootlets.	
E					1.40		
1.50	TJENV 1.5				_	Soft light brown mottled orange silty CLAY.	
E E					(0.60)		
- - - - - - - - - - - - - - - - - - -					2.00	Very soft bluish grey slightly gravelly slightly sandy clayey SILT with occasional shell fragment and rootlets. Gravel is sub-angular to angular coarse sandstone.	 x
- - - - - - - -							
- - - - -					- - - - - -		
<u>-</u> - - - -					- - - - -		
<u> </u>							
Remarks						Plan	

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

SKF Drilling LTD

Remarks

Site Trial Pit No
Alloa Phase 8+9

Client
Allanwater Developments

Ground Level

Date
18-08-17
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1 of 1

Excavation Method	Trial Pit Dimensions	Ground Level	Date
Volvo EC27	2.0m x 0.3m x 2.2m		18-08-17 18-08-17
Contractor			

511	r Dinning Bir						
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
					- (0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/ · 2/ 1/ · 2/ 1/ · 2/ 1/ · 2/ 1/ · 2/ 1/ · 2/ 1/ · 2/ 1/ · 2/ 1/ · 2/ · 2
0.30	ENV 0.3				(0.40)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
- - -					- 0.70	Firm light brown slightly sandy CLAY with occasional rootlets.	
<u>-</u> - -					- 1.00 - (0.20) - 1.20	Soft light brown mottled orange silty CLAY.	
1.50	Suite 2 1.5				- - - -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × × × × × × × × ×
1.30	Suite 2 1.3				- - - - -		× × × × × × × × × × × × × × × × × × ×
<u>-</u> - -					(1.50)		X X X X X X X X X X X X X X X X X X X
					- - - -		× × × × × × × × × × × × × × × × × × ×
_ - - -					2.70		× × × × × × × × × × × × × × × × × × ×
- - - -					- - - - -		
					- - - -		
<u>-</u> - - -					- - - -		
<u>-</u> - -							

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.70 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD

Plan



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SKF Drilling LTD

Remarks

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Site Trial Pit No
Alloa Phase 8+9

Client
Allanwater Developments

Ground Level

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1 of 1

Excavation Method Volvo EC27	Trial Pit Dimensions 2.0m x 0.3m x 2.2m	Ground Level	Date 18-08-17 18-08-17	Sheet
Contractor		•		

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
					(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	7 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
0.30	ENV 0.3				(0.40)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
- - - - -					- 0.70 - (0.30) - 1.00	Firm light brown slightly sandy CLAY with occasional rootlets.	
					(0.20)	Soft light brown mottled orange silty CLAY. 1.10 4-inch ceramic field drain	
1.20	ENV 1.2				- - - - - -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments up to 60mm and rootlets.	× × × × × × × × × × × × × × × × × × ×
- - - - -					(1.00)		× × × × × × × × × × × × × × × × × × ×
- - - - -					2.20		^ × ^ ; × × ; × × ;
- - - -					- - - -		
- - - -					- - - -		
- - - -					- - - - -		
-					- - - -		
- - -					- - -		
- - - -					- - - - -		
	1						

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.20 m due to impersistent water ingress from old field drain. 3. Pit side walls were stable. All dimensions in metres Scale 1:25 AD

Plan



The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Alloa Phase 8+9

TP11

Client

Job No

Allanwater Developments

Site

P16-483

Trial Pit No

1 of 1

Excavation Method Trial Pit Dimensions
Volvo EC27 2.0m x 0.3m x 2.7m

Ground Level Date 18-08-17 Sheet 18-08-17

Contractor

SKF Drilling LTD

	<i>U</i>							
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION		Legend
0.20	TJSuite 1 0.2				- (0.30) - 0.30	Topsoil: Brown slightly sandy silty occasional rootlets.	CLAY with	1/ 21// 1// 1/ 21// 1//
					(0.55)	Stiff light brown slightly sandy CLA rootlets.	AY with occasional	
-					0.85	Firm light brown slightly sandy CL.	AV with occasional	
0.90	TJENV 0.9				(0.25)	rootlets. Soft light brown mottled orange silt		
1.20	TJENV 1.2				(0.60)		•	
<u>-</u>					1.70	Vary coft bluish gray slightly condy	alayay SII T with	 × ×
					_ - - -	Very soft bluish grey slightly sandy occasional shell fragments and rootl	ets.	× × × × × × × × × × × × × × × × × × ×
_ _ _ _					(1.00)			× × × × × × × × × × × × × × × × × × ×
-								× × × × × × × × × × × × × × × × × × ×
- - - -					2.70			^ × ^ :
<u>-</u> - -					<u>-</u> - -			
-					_ _ _			
					_ _ -			
Remarks						Plan		

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.70 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD



Alloa Phase 8+9 **TP12** Job No

Ground Level

Site

Allanwater Developments

Trial Pit Dimensions Excavation Method $2.0m \times 0.3m \times 2.7m$ Volvo EC27

The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Date 18-08-17 18-08-17

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Sheet

P16-483

Trial Pit No

Contractor

SKF Drilling LTD

	<u>U</u>						
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
 -					- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/2 1/2 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
- - 0.40 -	TJSuite 1 0.4				- (0.50)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
-					0.80		===
- -					(0.40)	Firm light brown slightly sandy CLAY with occasional rootlets.	
_ _					1.20	Soft light brown mottled orange slightly candy silty	
· = · =					(0.40)	Soft light brown mottled orange slightly sandy silty CLAY.	
1.60	TJENV 1.6				1.60	Very soft bluish grey slightly sandy clavey SILT with	
- - -						Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × ×
· 					- (1.10)		× × × ×
- -					_ (1.10)		
= -					2.70		× × × × ×
-					- - -		×
- -					- - -		
-					- - -		
-					- - -		
-					- - -		
-					- - -		
Remarks						Plan	

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable. All dimensions in metres Logged By

Scale 1:25

AD



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Alloa Phase 8+9

TP13

Client Job No

Allanwater Developments

Site

P16-483

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Trial Pit No

Excavation Method Trial Pit Dimensions
Volvo EC27 2.0m x 0.3m x 2.7m

Ground Level Date 18-08-17 18-08-17

Contractor

Remarks

SKF Drilling LTD

	<i>U</i>						
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
- - - - -					- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	
0.50	TJENV 0.5				(0.40)	Stiff light brown slightly sandy CLAY with occasional rootlets.	
- - - -					0.70	Firm light brown slightly sandy CLAY with occasional rootlets.	
-					1.05	Soft light brown mottled orange silty CLAY.	
1.40	TJSuite 2 1.4				1.40	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × ×
					- - - - -		× × × × × × × × × × × × × × × × × × ×
- - - -					(1.30)		× × × × × × × × × × × × × × × ×
					- - - -		× × × × × × × × × × × × × × × × × × ×
-							× × ×
-					- - - - -		
-					- - - - -		
-					- - - - -		
_					_		

1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.70 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD

Plan



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Alloa Phase 8+9

Allanwater Developments

Site

Ground Level

TP14

Trial Pit No

Job No

P16-483

Sheet

Excavation Method Volvo EC27 Trial Pit Dimensions
2.0m x 0.3m x 2m

Date 18-08-17 18-08-17

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Contractor

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
- - - - -					- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
0.40	TJENV 0.4				(0.30)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
-					(0.30)	Firm light brown slightly sandy CLAY with occasional rootlets.	
- - - - -					- (0.50)	Soft light brown mottled orange silty CLAY. 0.90 4-inch ceramic field drain	
- - - -					1.40	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	 ×
1.60	TJENV 1.6				(0.80)		× × × × × × × × × × × × × × × ×
- - - -					- - - -		× × × × × × × × × × × × × × × × × × ×
-					- 2.20 - -		^ × ^ ×
-					- - - -		
- - -					- - - -		
-					- - - - -		
- - - -					- - - -		
_ - - -					- - - -		
-					-		

Remarks 1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.20 m due to impersistent water ingress from old field drain. 3. Pit side walls were stable. All dimensions in metres Scale 1:25 AD



Trial Pit Dimensions

 $2.0m \times 0.3m \times 2.7m$

The Piazza, 95 Morrison Street, Glasgow, G5 8BE

Site Trial Pit No Alloa Phase 8+9 **TP15** Job No Allanwater Developments P16-483 Ground Level Date Sheet 18-08-17 18-08-17 1 of 1

Contractor SKF Drilling LTD

Excavation Method

Volvo EC27

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
0.20	TJSuite 1 0.2				(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	
- - - -					- (0.50)	Stiff light brown slightly sandy CLAY with occasional rootlets.	
E E					0.80		
0.90	TJENV 0.9				(0.30)	Firm light brown slightly sandy CLAY with occasional rootlets.	
					1.10	Soft light brown mottled orange slightly sandy silty CLAY.	
1.30	TJENV 1.3				1.40	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × ×
					- - - -		× × × × × × × × × × × × × × × × × × ×
E E					- - - -		× × × × × × × × × × × × × × × × × × ×
E E					(1.30)		× × × × × × × × × × × × × × × × × × ×
Ē					 - _ -		× × × × × × × × × × × × × × × × × × ×
E E					2.70		× × × × × × × × × × × × × × × × × × ×
					- - - -		
E					- - -		
Ē					_ 		
-					- - - -		
F					- - -		
E					_		

Remarks Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable.

Plan

All dimensions in metres Logged By Scale 1:25 AD



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Site Trial Pit No Alloa Phase 8+9 **TP16** Job No Allanwater Developments P16-483 Ground Level Date Sheet 18-08-17 18-08-17 1 of 1

Trial Pit Dimensions $2.0m \times 0.3m \times 2.7m$

Contractor

Remarks

Excavation Method

Volvo EC27

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
0.20	TJENV 0.2				(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- - - - -					(0.40)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
0.60	TJENV 0.6				0.70	Firm light brown slightly sandy CLAY with occasional	- <u>-</u> -
<u>-</u>					(0.30)	rootlets.	
<u>-</u>					1.00	Soft light brown mottled orange slightly sandy silty CLAY.	
<u>-</u>					(0.60)		
_					1.60		
1.70	TJENV 1.7				<u>-</u> -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × ×
<u>-</u>					<u>-</u>		× × × × × × × × × × × × × × × × × × ×
-					(1.10)		× × × × × × × × × × × × × × × × × × ×
-					- - -		× ^ × × × ×
E					2.70		× × × × × × × × × × × × × × × × × × ×
-					- - -		
<u>-</u>					_		
-					- - -		
<u>-</u> -					- - -		
- -					-		

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD

Plan



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Trial Pit Dimensions

 $2.0m \times 0.3m \times 2.7m$

Site
Alloa Phase 8+9
TP17

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Allanwater Developments

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Contractor SKF Drilling LTD

Excavation Method

Volvo EC27

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
					- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	7/1/2 1/1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1
0.50	TJENV 0.5				- (0.50)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
- - - - -					0.80	Firm light brown slightly sandy CLAY with occasional rootlets.	
- - - -					(0.40)		
1.50	TJENV 1.5				- (0.30) - 1.50	Soft light brown mottled orange slightly sandy silty CLAY.	
	102111111				- - - -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × × × × × ×
- - - -					(1.20)		× × × × × × × × × × × × × × × × × × ×
- - - - -					- - - - -		
- - - - -					- - - 2.70		× × × × × × × × × × × × × × × × × × ×
- - - -					- - - - -		
- - - - -					- - - - -		
_ _ _ _							
- - -					- - - -		

Remarks 1. Strength and density characteristics assessed by visual inspection by the on site engineer only. 2. Pit was terminated at 2.70 m. 3. Slight water seepage recorded at base of trial pit. 4. Pit side walls were stable. All dimensions in metres Scale 1:25 AD



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Alloa Phase 8+9 **TP18** Job No

Trial Pit No

Allanwater Developments P16-483

Trial Pit Dimensions Ground Level Date Sheet **Excavation Method** 18-08-17 18-08-17 $2.0m \times 0.3m \times 2.7m$ 1 of 1 Volvo EC27

Site

Contractor

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legeno
- - - -					(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/ 2/1/ 1/ 2/1/
- - - -					0.30	Stiff light brown slightly sandy CLAY with occasional rootlets.	<u> </u>
0.50	TJENV 0.5				- (0.30) - 0.60		
- - -					(0.30)	Firm light brown slightly sandy CLAY with occasional rootlets.	
- - - - 1.00	TJSuite 2 1.0				0.90	Soft light brown mottled orange slightly sandy silty CLAY.	
_ 1.00 _ - -	13Suite 2 1.0				- - -	CLIT.	
- - -					- (0.70) -		
- - -					1.60		× ×
- - -					- - -	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × ×
- - -					- - -		× × × ×
- - - -					(1.10)		× × × ×
- - -					_ - -		× × × ×
					2.70		x x x x
_ - - -					2.70		×
- - -					-		
_ - -					- - -		
- - -					- - -		
- - -					- - -		
- - -					- - -		
Remarks					-	Plan	

Remarks	Plan	
Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Pit side walls were stable.		
	All dimensions in metres	Logged By
	Scale 1:25	AD



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Job No

Allanwater Developments

P16-483

Sheet

Trial Pit Dimensions Excavation Method

 $2.0m \times 0.3m \times 2.7m$

Site

Alloa Phase 8+9

Ground Level

Date 18-08-17 18-08-17

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Trial Pit No

TP19

Contractor

Remarks

Volvo EC27

SKF Drilling LTD

L							
Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
0.20	TJTopsoil (re-use) 0.2			- (0.30) - 0.30	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/ 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1
0.50	TJENV 0.5				(0.30)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
- 0.30	1311(0.3				- 0.60 - -	Firm light brown slightly sandy CLAY with occasional rootlets.	
- - -					(0.60)		
<u></u>						Soft light brown mottled orange slightly sandy silty	
					(0.40)	CLAY.	
					1.60	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × × × × × × × × ×
<u>-</u> -					- - - -		× × × × × × × × × × × × × × × × × × ×
- - -					(1.10)		× × × × × × × × × × × × × × × × × × ×
_ _ _ _					_ - - -		× × × × × × × × × × × × × × × × × × ×
					2.70		× × ×
<u>-</u> - -							
<u>-</u> -					- - -		
<u>-</u> - -					- - -		
-					- - -		
					-		

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD

Plan



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Site

Ground Level

Alloa Phase 8+9 **TP20** Job No P16-483

Allanwater Developments

Trial Pit Dimensions Excavation Method $2.0m \times 0.3m \times 2.7m$ Volvo EC27

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Trial Pit No

Contractor

Remarks

SKF Drilling LTD

Depth	Sample/Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	DESCRIPTION	Legend
0.20	TJSuite 1 0.2				(0.30)	Topsoil: Brown slightly sandy silty CLAY with occasional rootlets.	1/ · 2/ · / · / · / · / · / · / · / · / ·
- - -					(0.30)	Stiff light brown slightly sandy CLAY with occasional rootlets and rare black decomposed organics.	
0.60	TJENV 0.6				(0.30)	Firm light brown slightly sandy CLAY with occasional rootlets.	
- - - - - - - - - - - - - - - - - - -					0.90	Soft light brown mottled orange slightly sandy silty CLAY.	
					1.70	Very soft bluish grey slightly sandy clayey SILT with occasional shell fragments and rootlets.	× × × × × × × × × × × × × × × × × × ×
-					2.70		× ^ × ; × × × ;

Strength and density characteristics assessed by visual inspection by the on site engineer only. Pit was terminated at 2.70 m. Slight water seepage recorded at base of trial pit. Pit side walls were stable. All dimensions in metres Logged By Scale 1:25 AD

Plan

Phases 8 &9, Alloa, February 2018 Appendix 8 Records of Exploratory Soil/Rotary/Mineral Bore Hole Logs (SKF Drilling Ltd & Phoenix Drilling Ltd, August 2017)



BOREHOLE NO. BH01

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.30		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Traces of roots at top.				DJ 0.50		:::
	* * * * * * * * * * * * * * * * * * *	1.50		DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	0,0,1,0,1,0	
Very soft light grey slightly sandy SILT.	N	1.50		D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,1,0,1,1,0	
				D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,0	
	X X X X X X X X X X X X X X X X X X X			D 4.00 SPT 4.00-4.45 U78 4.00-5.00	0,0,1,0,1,1	
				D 5.00 SPT 5.00-5.45 U66 5.00-6.00	0,0,0,0,1,0	
		6.50		D 6.00 SPT 6.00-6.45 U66 6.00-7.00	0,1,0,1,1,1	
Stiff grey very sandy gravelly CLAY with occasional cobbles. Gravel fine to coarse and angular to sub rounded. Occasional pockets of clayey sand.	* 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0			D 7.00 SPT 7.00-7.45 SPT 7.50-7.95	8,9,10,11,10,11 10,11,12,12,13,12	
	5 X 0 5	8.00				

W	ater Strikes	D	etails	SYMBOLS KEY		
Strike: 3.00	Flow: FAST	Casing: 3.00	Final Depth: 8.00	B - BULK NR - NO RECOVERY		
Inspection Pit: 0.	30 X 0.30 X 1.00	U - UNDISTURBED * - ESTIMATED DENS	SITY			
Breaking Out / C	oring:	D - SMALL DISTURBED HV - HAND VANE J - JAR				
Installation: Stand	dpipe 50mm diameter installe	d to 5.00m.		V - VIAL W - WATER		
Notes:						
Logged by: LS		ALL DIMENSIONS ARE IN METRES				



BOREHOLE NO. BH02

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.25		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Traces of	- × ×					
roots at top.	- <u>*</u> -*-			DJ 0.50		
	<u> </u>					
Very soft light grey slightly sandy SILT.	* * . *	0.95		DJ 1.00 SPT 1.00-1.45	0,0,0,0,1,0	
very sort light grey slightly sailuy SILT.	× × ×			U86 1.00-2.00		
	× × × × ×					
	× × × ×					
	× × × ×			D 2.00		
	× × ×			SPT 2.00-2.45 U86 2.00-3.00	0,0,0,0,0,0	
	× × ×			000 2.00-3.00		
	* * * *					
	× × ×					
	^ × × ^			D 3.00		
	× × ×			D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,0,0	
	× × × ×					
	* * *					
	× × × ×					
	× × ×			D 4.00		
	*			SPT 4.00-4.45 U78 4.00-5.00	0,0,1,0,1,0	
	× × ×					
	× × × ×					
	× × ×					
	× × ×			D 5.00	000001	
	* * * *			SPT 5.00-5.45 U66 5.00-6.00	0,0,0,0,0,1	
	× × × ×					
Firms to stiff areas or an annual annually CLAV with according a subble	* × *	5.50				
Firm to stiff grey very sandy gravelly CLAY with occasional cobbles and traces of shell at top. Gravel fine to coarse and angular to sub	<u> </u>					
rounded. Locally very clayey sand and gravel.	.8.x28			D 6.00 SPT 6.00-6.45	2,3,4,5,6,7	
	5 × ° 5			0.00 0.40	2,0,4,0,0,7	
	- ×= · =					
	-	6.65		SPT 6.50-6.95	8,9,10,11,12,14	
Stiff grey sandy gravelly CLAY with occasional cobbles. Gravel fine	.v .xv					
to coarse and angular to sub rounded.				SPT 7.00-7.45	14,15,13,14,18,15	
	- ×					
	. O . XO C					
	ਕ ×ਕ ਰ <u>×</u> ∘ ਰ			SPT 7.50-7.95	14,12,12,15,15,15	
	0. ±1.00 19. ×5.19 2. ×−1.2					
	- °	8.00				

Wa	iter Strikes	Details			SYMBOLS KEY		
Strike: 3.00	Flow: FAST	Casing: 3.00	Final Depth: 8.00	_	- BULK	NR - NO RECOVERY	l
Inspection Pit: 0.3	0 X 0.30 X 1.00	Ü	- UNDISTURBED	* - ESTIMATED DENSITY	l		
Breaking Out / Co	ring:	D J	- SMALL DISTURBED - JAR	HV - HAND VANE			
Installation: Stand	pipe 50mm diameter installed	to 5.00m.		V W	- VIAL - WATER		
Notes:		**		ONO ADE IN METDEO			
Logged by: LS			ALL DIMENSIC	ONS ARE IN METRES			



BOREHOLE NO. BH03

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.25		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Occasional roots at top.	× × ×	0.80		DJ 0.50		
Very soft light grey slightly sandy SILT.	X X X X X X X X X X X X X X X X X X X	0.80		DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	0,0,0,0,0	
	X X X X X X X X X X X X X X X X X X X			D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,0,0,0,0,0	
	* * * * * * * * * * * * * * * * * * *			D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,0,0	
	X X X X X X X X X X X X X X X X X X X			D 4.00 SPT 4.00-4.45 U78 4.00-5.00	0,0,0,1,0,1	
Stiff grey sandy gravelly CLAY with occasional cobbles. Gravel fine to coarse and angular to sub rounded. At 7.80m hard obstruction,	*******	5.30		D 5.00 SPT 5.00-5.45 U66 5.00-6.00	0,1,0,1,3,4	
possible bedrock or boulder.	* X * * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			D 6.00 SPT 6.00-6.45	5,9,6,6,7,8	
	0 X3 0 0 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 0			SPT 6.50-6.95	7,9,9,10,13,13	
	9 X 9 9			SPT 7.00-7.45	13,12,13,13,11,12	
		7.80		SPT 7.50-7.80	13,15,30,80/75mm	

W	ater Strikes	D	etails	SYMBOLS KEY		
Strike: 3.00	Flow: FAST	Casing: 4.00	Final Depth: 7.80	B - BULK NR - NO RECOVERY		
Inspection Pit: 0.	30 X 0.30 X 1.00	U - UNDISTURBED * - ESTIMATED DENSITY	,			
Breaking Out / C	oring:	D - SMALL DISTURBED HV - HAND VANE J - JAR				
Installation: Stand	dpipe 50mm diameter installe	d to 5.00m.		V - VIAL W - WATER		
Notes:						
Logged by: LS		- ALL DIMENSIONS ARE IN METRES				



BOREHOLE NO. BH04

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.25		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Traces of roots at top.	- x x			DJ 0.50		
N. A. S. L.	× × × ×	1.20		DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	1,0,1,0,1,0	
Very soft light grey and light brown slightly sandy SILT.				D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,0,0,0,0	
	X X X X X X X X X X X X X X X X X X X			D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,1,0	
				D 4.00 SPT 4.00-4.45 U78 4.00-5.00	0,0,0,1,0,0	
Stiff grey sandy gravelly CLAY with occasional cobbles. Gravel fine to coarse and angular to sub rounded.	* * * * * * * * * * * * * * * * * * *	5.10		D 5.00 SPT 5.00-5.45 U66 5.00-6.00	1,2,4,6,7,7	
	2 × 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			D 6.00 SPT 6.00-6.45	9,8,9,8,7,8	
	5 X 0 5			SPT 6.50-6.95	8,7,6,7,9,19	
				SPT 7.00-7.45	14,15,13,12,13,13	
		8.00		SPT 7.50-7.95	12,11,13,13,14,13	
	5 × ° 5	0.00				

W	ater Strikes	D	etails	SY	MBOLS KEY
Strike: 3.00	Flow: FAST	Casing: 4.00	Final Depth: 8.00	B - BULK	NR - NO RECOVERY
Inspection Pit: 0.3	30 X 0.30 X 1.00			U - UNDISTURBE	D * - ESTIMATED DENSITY
Breaking Out / Co	oring:			D - SMALL DISTU	JRBED HV - HAND VANE
Installation: Stand	dpipe 50mm diameter installe	d to 5.00m.		V - VIAL W - WATER	
Notes:					
Logged by: LS		Checked by: SKF		ALL DII	MENSIONS ARE IN METRES



BOREHOLE NO. BH05

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.30		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Traces of roots at top.				DJ 0.50		
		1.05		DJ 1.00 SPT 1.00-1.45	0,0,0,0,1,0	
Very soft light grey slightly sandy SILT.	X X X X X X X X X X X X X X X X X X X			1 U86 1.00-2.00		
	X X X X X X X X X X X X X X X X X X X			D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,0,1,0,0,1	
	X X X X X X X X X X X X X X X X X X X			D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,0,0	
	50 X X X X X X X X X X X X X X X X X X X			D 4.00 SPT 4.00-4.45 U78 4.00-5.00	0,0,1,0,0,0	
				D 5.00 SPT 5.00-5.45 U66 5.00-6.00	0,1,0,1,0,1	
	X X X X X X X X X X X X X X X X X X X			D 6.00 SPT 6.00-6.45 U66 6.00-7.00	0,0,0,0,1,1	
	× × ×	6.70				
Medium dense light grey and white very clayey SAND and GRAVEL. Many shells. Gravel fine to coarse and angular to sub		7.15		D 7.00 SPT 7.00-7.45	1,2,17,12,7,6	
angular. Firm to stiff grey very sandy gravelly CLAY with occasional cobbles. Gravel fine to coarse and angular to sub rounded. Occasional pockets of fine to coarse sand.				SPT 7.50-7.95	5,4,5,6,6,6	
	S.X- S	8.00				

W	ater Strikes	D	etails	SYMBOLS KEY	
Strike: 3.00	Flow: FAST	Casing: 3.00	Final Depth: 8.00	B - BULK NR - NO RECOVERY	
Inspection Pit: 0.	30 X 0.30 X 1.00			U - UNDISTURBED * - ESTIMATED DENS	SITY
Breaking Out / C	oring:			D - SMALL DISTURBED HV - HAND VANE J - JAR	
Installation: Stand	dpipe 50mm diameter installe	d to 5.00m.		V - VIAL W - WATER	
Notes:					
Logged by: LS		Checked by: SKF		ALL DIMENSIONS ARE IN METRES	



BOREHOLE NO. BH06

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.30		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Occasional roots at top.				DJ 0.50		
Van vasti lielit enn valielitik aande CHT	× × × ×	0.95		DJ 1.00 SPT 1.00-1.45	0,0,1,0,1,0	
Very soft light grey slightly sandy SILT.	X X X X X X X X X X X X X X X X X X X			U86 1.00-2.00		
	X X X X X X X X X X X X X X X X X X X			D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,0,0,0,0,0	
	X X X X X X X X X X X X X X X X X X X			D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,1,0,1	
	X X X X X X X X X X X X X X X X X X X			D 4.00 SPT 4.00-4.45 U78 4.00-5.00	0,0,0,0,0,1	
	X X X X X X X X X X X X X X X X X X X			D 5.00 SPT 5.00-5.45 U66 5.00-6.00	0,0,1,1,1,1	
Firm to stiff grey very sandy gravelly CLAY with occasional cobbles and traces of shell at top. Gravel fine to coarse and angular to sub	** * * * * * * * * * * * * * * * * * *			D 6.00 SPT 6.00-6.45	10,9,13,36,24,34	
rounded. Occasional pockets of fine to coarse sand. Recovered as light grey and white sandy fine to coarse angular gravel of SANDSTONE. Presumed bedrock or boulder.	_ ^ _	7.00		SPT 6.50-6.95	44,21,18,20,26,29	

ı	Wa	ater Strikes	D	etails		SYMBO	LS KEY
l	Strike: 2.80	Flow: FAST	Casing: 3.00	Final Depth: 7.00	_	DILLE	NR - NO RECOVERY
	Inspection Pit: 0.3	0 X 0.30 X 1.00	•		Ü	- BULK - UNDISTURBED	* - ESTIMATED DENSITY
	Breaking Out / Co	oring:			D J	- SMALL DISTURBED - JAR	HV - HAND VANE
	Installation: Stand	pipe 50mm diameter installed	to 5.00m.		V	- VIAL - WATER	
	Notes:				VV		NO ADE IN METDEO
	Logged by: LS		Checked by: SKF			ALL DIMENSIC	ONS ARE IN METRES



BOREHOLE NO. BH07

Contract: ALLOA PHASE 8&9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass [GL-0.25].		0.25		DJ 0.20		
Soft light brown and orange brown very silty sandy CLAY. Occasional roots at top. Locally very soft at depth.	* * * * * * * * * * * * * * * * * * *			DJ 0.50		
	× × × × × × × × × × × × × × × × × × ×	1.70		DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	1,1,0,1,0,1	
Very soft light grey and light brown slightly sandy SILT.		1.70		D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,0,0,0,0,0	
				D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,1,0,0,1	
				D 4.00 SPT 4.00-4.45 U78 4.00-5.00	0,0,0,0,0,0	
		5.60		D 5.00 SPT 5.00-5.45 U66 5.00-6.00	0,1,0,1,0,1	
Stiff grey sandy gravelly CLAY with occasional cobbles. Gravel fine to coarse and angular to sub rounded. Locally very sandy at top.	X - 0 0 0 0 0 0 0 0 0 0			D 6.00 SPT 6.00-6.45	5,6,8,9,11,11	
	5 X2 5			SPT 6.50-6.95	11,11,12,15,17,16	
				SPT 7.00-7.45	14,13,11,11,14,17	
		8.00		SPT 7.50-7.95	18,20,24,19,12,17	
		0.00				L

Water Strikes	De	etails	SYMBOLS KEY			
Strike: 2.70 Flow: FAST	Casing: 3.00	Final Depth: 8.00	B - BULK NR - NO RECOVERY			
Inspection Pit: 0.30 X 0.30 X 1.00	Inspection Pit: 0.30 X 0.30 X 1.00					
Breaking Out / Coring:			D - SMALL DISTURBED HV - HAND VANE J - JAR			
Installation: Standpipe 50mm diameter ins	talled to 5.00m.		V - VIAL			
Notes:	W - WATER					
Logged by: LS Checked by: SKF			ALL DIMENSIONS ARE IN METRES			



BOREHOLE NO. BH08

Contract: ALLOA PHASE 8 & 9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Topsoil / long rough grass. [GL-0.25]		0.25		DJ 0.20		
Soft light brown, orange brown and grey silty sandy CLAY. Occasional roots at top.				DJ 0.50		
				DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	1,0,1,0,1,0	
None of the state	N	2.30		D 2.00 SPT 2.00-2.45 U86 2.00-3.00	1,0,1,0,0,0	
Very soft grey slightly sandy SILT. Traces of gravel. Gravel fine to coarse and angular to sub rounded. Locally soft at base.	X X X X X X X X X X X X X X X X X X X			D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,0,0	
	X X X X X X X X X X X X X X X X X X X			D 4.00 SPT 4.00-4.45 U86 4.00-5.00	0,0,0,0,0,1	
	X X X X X X X X X X X X X X X X X X X			D 5.00 SPT 5.00-5.45 U78 5.00-6.00	0,0,1,0,1,1	
Soft light brown clayey SILT. Traces of gravel at top.	* * * * * * * * * * * * * * * * * * *	6.00		D 6.00 - SPT 6.00-6.45	5,2,2,3,4,3	
	* * * * * * * * * * * * * * * * * * *			SPT 6.50-6.95	3,4,3,3,2,3	
	X X X X X X X X X X X X X X X X X X X			SPT 7.00-7.45	2,2,2,3,2,2	
	* * * * * * * * * * * * * * * * * * *			SPT 7.50-7.95	3,3,2,3,2,3	
	× × × ×	8.00				

W	ater Strikes	De	etails	SYMBOLS KEY
Strike: 1.70	Flow: FAST	Casing: 4.00	Final Depth: 8.00	B - BULK NR - NO RECOVERY
Inspection Pit: 0.	30 X 0.30 X 1.00			U - UNDISTURBED * - ESTIMATED DENSITY
Breaking Out / C	oring:			D - SMALL DISTURBED HV - HAND VANE J - JAR
Installation: Stand	dpipe 50mm diameter insta	lled to 5.00m.		V - VIAL W - WATER
Notes:				
Logged by: EM		Checked by: SKF		ALL DIMENSIONS ARE IN METRES



BOREHOLE NO. BH09

Contract: ALLOA PHASE 8 & 9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
MADE GROUND: Soft light brown silty sandy laminated clay. Occasional small roots and grey peaty pockets.				DJ 0.20		
		0.80		DJ 0.50		
Soft light brown, orange brown and grey silty sandy CLAY				DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	1,0,1,0,1,0	
		1.60				
Very soft grey and orange brown clayey sandy SILT. Becoming grey at base.	* * * * * * * * * * * * * * * * * * *			D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,1,0,0,0,0	
				D 3.00 SPT 3.00-3.45 U86 3.00-4.00	0,0,0,0,0	
	x x x x x x x x x x x x x x x x x x x			D 4.00 SPT 4.00-4.45 U86 4.00-5.00	0,0,0,1,0,1	
	x x x x x x x x x x x x x x x x x x x	5.50		D 5.00 SPT 5.00-5.45 U86 5.00-5.50	0,0,0,0,1,1	
Recovered as medium dense becoming dense light grey and light	× ×	5.50		SPT 5.50-5.95	8,8,9,9,11,13	
brown sandy fine to coarse angular gravel of SANDSTONE. Presumed bedrock or boulder.				SPT 6.00-6.45	16,18,18,14,13,17	
		6.80		SPT 6.50-6.80	19,26,29,47	

W	ater Strikes	De	etails	SYMBOLS KEY	
Strike: 3.00	Flow: FAST	Casing: 4.00	Final Depth: 6.80	B - BULK NR - NO RECOVE	D.V.
Inspection Pit: 0.	30 X 0.30 X 1.00			U - UNDISTURBED * - ESTIMATED D	DENSITY
Breaking Out / C	oring:			D - SMALL DISTURBED HV - HAND VANE J - JAR	
Installation: Stand	pipe 50mm diameter installe	ed to 5.00m.		V - VIAL W - WATER	
Notes:				·· · · · · · · · · · · · · · · · · ·	_
Logged by: EM		Checked by: SKF		ALL DIMENSIONS ARE IN METRE	5



BOREHOLE NO. BH10

Contract: ALLOA PHASE 8 & 9 Contract No: 2838 Status: FINAL

Client: MASON EVANS PARTNERSHIP Boring Diameter: 115MM Co-ordinates E

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						
Soft light brown, orange brown and grey silty sandy CLAY.				DJ 0.20		
Occasional roots at top.						
				DJ 0.50		
				DJ 1.00 SPT 1.00-1.45 U86 1.00-2.00	1,0,1,0,1,0	
				080 1.00-2.00		
		4.00				
Very soft becoming soft grey slightly sandy clayey SILT. Traces of	* * * *	1.60				
gravel. Gravel fine to coarse and angular to sub rounded.	× × ×			D 2.00		
	** * * * *			D 2.00 SPT 2.00-2.45 U86 2.00-3.00	0,0,0,0,1,0	
	* * * * * * *					
	× × × ×					
	* * * * * *					
	× × ×			D 3.00 SPT 3.00-3.45	0,0,0,1,0,0	
	× × × × × ×			U86 3.00-4.00		
	× × ×					
	* * * * *					
	* * ^* .* * .*			D 4.00		
	× × ×			D 4.00 SPT 4.00-4.45 U86 4.00-5.00	0,0,0,0,0,0	
	* * * *					
	× × ×					
	× × × × × ×					
	× × ×			D 5.00 SPT 5.00-5.45 U78 5.00-6.00	0,0,1,0,1,0	
	* * * * *			U78 5.00-6.00	0,0,1,0,1,0	
	* * * * * * *					
	× × ×					
	× × × ×			D 6 00		
	× × ×			D 6.00 SPT 6.00-6.45	1,0,1,1,1,1	
	× × × × × ×					
	x x x			SPT 6.50-6.95	2,1,1,1,2,1	
	× × × × ×					
	* * * *			0077007	101010	
	× × × ×			SPT 7.00-7.45	1,2,1,2,1,2	
	× × × ×					
	× × ×			SPT 7.50-7.95	2,2,2,2,2,2	
	*					
	x x x	8.00				

W	ater Strikes	De	etails	SYMBOLS KEY
Strike: 3.00	Flow: FAST	Casing: 4.00	Final Depth: 8.00	B - BULK NR - NO RECOVERY
Inspection Pit: 0.3	30 X 0.30 X 1.00			U - UNDISTURBED * - ESTIMATED DENSITY
Breaking Out / Co	oring:			D - SMALL DISTURBED HV - HAND VANE J - JAR
Installation: Stand	dpipe 50mm diameter insta	alled to 5.00m.		V - VIAL W - WATER
Notes:				
Logged by: EM		Checked by: SKF		ALL DIMENSIONS ARE IN METRES

Progr	Sample Depth	Φ.T		and Tests Result	- Ca	sing pth	Level (m)	Dept					escription	of Strata	1			Legend	Water Depth	Symbol	ack D
0/8 017								0,40		121 34004 3 1970		orked CLA	~					× ×			000000000
	0.50	B, J,	Г							irm light y	ellowish br	own to gre	eyish browr	ı sandy sil	ty CLAY						MONTH OF THE PARTY
	1.00 1.20	J, T U (11)						-												00000
									1												000000000000000000000000000000000000000
	2,10	В						2.10		oft to verv	soft grev s	sliahtly san	dy silty CL	AY							
										,	,	3 ,	, ,								Colored Constitution of the Colored Constitution of the Colored Colore
	2,70	SPT=	0.0/0.0	0.0.0	2.	70		0.00					•	ilt							
	3.20	В						3.20	V or st	ery soft gr rganic trac ubangular	ey slightly es and sar of sandsto	gravelly sa ndy dayey ne.	andy silty silt bands.		oyster shel elongated	I fragment angular to	s, faint	Ė			
	4.20	SPT=	0.0/0.0	0.0.0	4.	20													Ā		
	4.70	В							4									Ë			
								5.10	_	ense silty	clayey med	dium lo co	arse SAND),				× .	¥		
	5,70	SPT=	50 <u>16.9/2</u> 6	5 <u>:24.0.0</u>	5,	70			•									×××			
	6.20	В						6.00	D	ense grey ngular to s	silty very s ubangular	sandy fine of sandsto	to coarse Cone and lim	GRAVEL, G	Gravel is fl	at to elong	ated	· ×			
																		0.0			
								7,20										0			
	7.20	SPT≃: T	32 <u>7.7/8.8</u>	<u>.8.8</u>	7.2	20		7,60	•			220140	arse SAND			N. 12-22-2-17		. — : . — :			
	7.70	В							- Fi to	rm to stiff elongated	grey sandy I subangul	gravelly s ar fine to n	silly CLAY v nedium gra	with clayer ained of sa	y sand bar andstone a	ids. Grave nd igneous	l is flat s rock.				
								8.40		iff grey slig	ghlly sand	y gravelly s	silty CLAY.	Gravel is	flat to elon	galed sub	angular	0			
	8,70	U (1	00)						to	subround	ed fine to d	coarse gra	silty CLAY. ined of san	idstone an	id igneous	rock	Ü				
	9,20	U (9	3)																		N COLUMN TO SERVICE STREET
ę	9.70	В						9.70		rm to stiff	greyish bro	own sandy	gravelly si	Ity CLAY	with very s	andy clay l	oands,				
eturr		lush ype	To Dept	h From	Chisellin To 7.00	Time(hr) 0.75	From	iter Add		Struck 5.20	Ground	d-water Time(mins		Diam		Depth	Locatio	n:		18889	
				8.40 8.80 15.50	8 60 9 00 15 75	0.5 0.5 1				3.20	4,30	20					Level:		_		
are c	nrka:																-		Vertical		
	criptio enetrat			rillers reco		mple at 8.1	7 m	Di	quipm ando 4	ent: 1000				: ion Pit to Percussio		1.20m 15.75m	Borehol	ie No:	Divi		
	netrati	ion an	d no red	covery for	SPT sam	iple at 15	75 m												BH1	1	
																	Contrac	ct No:	2513	3	_
Dri M	ller IK		ginator MM					ВС	RE	HOLI Scale		CORE)				altz	de	Part Fig. No) e :	
Chk 8	S App	S	tatus inal						A ! !									100			
									ALL	UA PH	ASE 8	& 9					40	ľ	Sheet 1	1 of 2	<u>,</u>

Progress	Sample Depth	e_	Samples ar	nd Tests esult	Casing	1 1	Level (m)	Depth			De	escription	of Strata				Legend	Water Depth	Ballogunks	ckfill Depth
d.		SI	PT=29 <u>5.8/8.7</u>	7.7	10,70				igneous	rock									â	
	12.20 12.70		(79)																	
	13.70 14.20	T	PT=21 <u>4.5/5.5.6</u>	<u>.5</u>	13.70			13.70		dish brown la dish brown to s flat to elong rock.			slighlly gra o medium	avelly to gr grained of	avelly silty i sandstone	CLAY, e and				
XGRIIING.CO.UK 16I: 01505 411448	15.20 15.75		(150) PT = 25.50€		15,00			15.40	Weak da	erk grey lamin		STONE. ID OF BOR	REHOLE				0			15.75
Seption of the control of the contro																				
dustrial catalia. Livingstori, vv		Flus	h	C	niselling		Wat	er Addec	d	Groui	nd-water			l To i	Depth	I				
Retu	ims	Тур	e To Depth	6.80 8.40 8.80	7 00 8 60 9 00 15 75	0.75 0.75 0.5 0.5 1	From			k Rose To	Time(mins	Cut Off	Diam	Boring	Casing	Location Level: Orientat		- Vertical		
Rem # De No p dept No p dept	narks: escriptio penetrat h penetral	itioi	based on dri and no reco	overy for U1	00 samp			Equ Dar	uipment: ndo 4000	1			: ion Pit to Percussio		1.20m 15.75m	Borehold		BH1		
D	oriller MK		Originator MM					BOI		LE RE ale 1:50	CORE)				Contrac	t No:	2513 Part Fig. No		
Chk	. & App OG		Status Final					Α	LLOA F	PHASE (8 & 9					********** *	(edit	Sheet	2 of 2	



DAILY RETURN (Drilling)

Sheet No.	1
Date	17/08/2017
Contract Name	Alloa
Contract No.	7196
Working Day No.	1

Hole No.	Depth	Casing	Dia	Angle	From	То	Flush	Description
R06	18.00	14.00	Dia	V	0.00	15.00	1 10511	Overburden
1100	10.00	14.00		•	15.00	18.00	FWR	Sandstone
					10.00	10.00		Canadione
	_							
Notes:								
1	18.00	14.00	Sheet To	·al	Crew	B,Frazer	l	Plant
0	0.00	0.00	Previous			⊔,⊏iazei		DB420
1	18.00	14.00		tive Total				טרבט
<u> </u>	10.00	1 17.00	Journald	arve rotal	<u> </u>		1	Client Copy
Signed By GE	BLE Limited	T,Teasdale		Date				Q.S. Copy
Signed By Cli				Date		_		Site Copy



DAILY RETURN (Drilling)

Sheet No.	2
Date	18/08/2017
Contract Name	Alloa
Contract No.	7196
Working Day No.	2

Hole					_	_		_ , ,
No.	Depth	Casing	Dia	Angle	From	То	Flush	Description
R02	18.00	14.00		V	0.00	15.00		Overburden
					15.00	18.00	FWR	Sandstone
			<u> </u>					
Notes:			<u> </u>					
Notes.								
1	18.00	14.00	Sheet Tot	al	Crew	B,Frazer		Plant
0	18.00	14.00	Previous			, -		DB420
1	36.00	28.00	Cummula			•		
								Client Copy
Signed By GE		<u>T,Teasdale</u>		Date				Q.S. Copy
Signed By Cli				Date		_		Site Copy



DAILY RETURN (Drilling)

Sheet No.	3
Date	18/08/2017
Contract Name	Alloa
Contract No.	7196
Working Day No.	3

Hole					_	_		
No.	Depth	Casing	Dia	Angle	From	То	Flush	Description
R01	17.00	14.00		V	0.00	14.00		Overburden
					14.00	17.00	FWR	Sandstone
R03	35.00	14.00		V	0.00	16.00		Overburden
					16.00	35.00	FWR	Sandstone
R04	35.00	14.00		V	0.00	16.00		Overburden
					16.00	35.00	FWR	Sandstone
						40.00		
R07	35.00	14.00		V	0.00	16.00	E1475	Overburden
					16.00	35.00	FWR	Sandstone
			-					
Notes:								
NOIGS.								
4	122.00	56.00	Sheet To	tal	Crew	B,Frazer		Plant
0	18.00	14.00		Sheet Tot		_,		DB420
4	140.00	70.00		tive Total		-		
	. 10.00	. 0.00	1		1		1	Client Copy
Signed By GE	BLE Limited	T,Teasdale		Date				Q.S. Copy
Signed By Cli				Date		_		Site Copy

Phases 8 &9, Alloa,

Appendix 9

Chemical Analysis Results - Soil (DETS Ltd, Ref: 17-08694, August 2017)



Certificate Number 17-08694

05-Sep-17

Client Mason Evans Partnership

95 Morrison Street

Glasgow G5 8BE

Our Reference 17-08694

Client Reference P16-483

Order No H OLEARY

Contract Title (P16-483) Alloa Phases 8 & 9

Description 17 Soil samples, 4 Leachate samples.

Date Received 25-Aug-17

Date Started 25-Aug-17

Date Completed 05-Sep-17

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be

reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick Contracts Manager





Summary of Chemical Analysis UKWIR Samples

Our Ref 17-08694 Client Ref P16-483

Lab No	1221900	1221903
Sample ID	TP01	TP05
Depth	0.40	0.40
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	18/08/17	18/08/17
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Conductivity	DETSC 2009	1	uS/cm	330	140
рН	DETSC 2008#			7.7	7.2
Redox Potential	DETSC 2016*	-500	mV	130	120
Mineral Oil(C11-C20)	DETSC 3311	10	mg/kg	< 10	< 10
Mineral Oil(C20-C40)	DETSC 3311	10	mg/kg	< 10	< 10
Total VOCs	DETSC 3431*	0.01	mg/kg	0.03	< 0.01
BTEX + MTBE	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Total SVOCs	DETSC 3433*	0.1	mg/kg	0.1	< 0.1
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Cresols and Chlorinated Phenols	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
TICs (Ethers, Ketones, Aldehydes, Amines, Nitrobenzene)			mg/kg	None	None



Our Ref 17-08694 Client Ref P16-483

Lab No	1221901	1221904	1221905	1221906	1221907	1221908
Sample ID	TP02	TP06	TP07	TP08	TP09	TP11
Depth	0.30	0.20	0.60	0.30	1.50	0.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
Moisture Content	DETSC 1004	0.1	%	23	36	29	24	30	34
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	14	14	14	14	9.3	23
Boron, Water Soluble	DETSC 2123#	0.2	mg/kg	3.2	2.9	2.3	1.7	1.8	2.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.2	0.1	0.1	< 0.1	0.2
Chromium	DETSC 2301#	0.15	mg/kg	37	41	43	44	31	42
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	28	26	14	19	8.1	14
Lead	DETSC 2301#	0.3	mg/kg	64	32	22	23	9.6	35
Mercury	DETSC 2325#	0.05	mg/kg	0.09	0.06	< 0.05	< 0.05	< 0.05	0.07
Nickel	DETSC 2301#	1	mg/kg	26	20	25	25	19	22
Selenium	DETSC 2301#	0.5	mg/kg	0.8	0.9	< 0.5	0.6	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	69	73	60	68	42	64
Inorganics									
рН	DETSC 2008#			6.6	6.2	6.5	6.6	6.8	6.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	0.8	0.5	0.3	< 0.1	0.6
Total Organic Carbon	DETSC 2002	0.1	%	4.2	4.2	2.4	2.0	1.4	3.6
Organic Matter (by calculation)	*	0.1	%	7.2	7.2	4.1	3.5	2.5	6.3
Sulphide	DETSC 2024*	10	mg/kg	52	28	24	36	24	40
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.07	0.13	0.07	0.05	0.06	0.11



Our Ref 17-08694 Client Ref P16-483

Lab No	1221901	1221904	1221905	1221906	1221907	1221908
Sample ID	TP02	TP06	TP07	TP08	TP09	TP11
Depth	0.30	0.20	0.60	0.30	1.50	0.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.62
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C16-C35	DETSC 3072#	4.9	mg/kg	< 4.9	< 4.9	7.4	< 4.9	< 4.9	< 4.9
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	7.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	1.5	0.7	< 0.3	< 0.3	< 0.3	0.4



Our Ref 17-08694 Client Ref P16-483

Lab No	1221909	1221910	1221911	1221914	1221915	1221916
Sample ID	TP12	TP13	TP18	SP01	SP02	SP03
Depth	0.40	1.40	0.50	1.00	1.50	0.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
Moisture Content	DETSC 1004	0.1	%	25	32	26	24	21	20
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	17	8.7	14	10	7.3	8.2
Boron, Water Soluble	DETSC 2123#	0.2	mg/kg	1.8	2.9	1.8	1.9	2.4	1.9
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	48	37	36	35	24	37
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	7.9	9.3	8.1	11	13	16
Lead	DETSC 2301#	0.3	mg/kg	18	13	11	13	17	17
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	26	25	23	24	16	20
Selenium	DETSC 2301#	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	49	54	51	56	46	63
Inorganics									
рН	DETSC 2008#			6.6	6.9	7.2	7.2	7.8	7.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1	< 0.1	< 0.1	0.2	0.2	0.2
Total Organic Carbon	DETSC 2002	0.1	%	1.2	1.9	0.7	1.8	2.0	1.5
Organic Matter (by calculation)	*	0.1	%	2.0	3.3	1.2	3.1	3.5	2.6
Sulphide	DETSC 2024*	10	mg/kg	48	52	28	20	32	36
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.05	0.11	0.02	0.08	0.06	0.05



Our Ref 17-08694 Client Ref P16-483

Lab No	1221909	1221910	1221911	1221914	1221915	1221916
Sample ID	TP12	TP13	TP18	SP01	SP02	SP03
Depth	0.40	1.40	0.50	1.00	1.50	0.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17	18/08/17
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	0.11	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C16-C35	DETSC 3072#	4.9	mg/kg	< 4.9	< 4.9	< 4.9	< 4.9	22	< 4.9
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	22	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	22	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	22	< 10
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.5	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.4	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.6	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	8.4	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	2.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	7.5	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	7.0	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	2.4	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	2.5	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.6	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.9	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	2.4	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.3	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.5	< 0.1
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	41	< 1.6
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3



Summary of Chemical Analysis Soil VOC/SVOC Samples

Our Ref 17-08694 Client Ref P16-483

Lab No	1221900	1221903
Sample ID	TP01	TP05
Depth	0.40	0.40
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	18/08/17	18/08/17
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
VOCs					
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01



Summary of Chemical Analysis Soil VOC/SVOC Samples

Our Ref 17-08694 Client Ref P16-483

_		
Lab No	1221900	1221903
Sample ID	TP01	TP05
Depth	0.40	0.40
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	18/08/17	18/08/17
Sampling Time	n/s	n/s

		Jumpi	ing rinnel	11/3	11/3
Test	Method	LOD	Units		
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	0.02	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01
SVOCs	'		<u> </u>	<u>'</u>	
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1



Summary of Chemical Analysis Soil VOC/SVOC Samples

Our Ref 17-08694 Client Ref P16-483

Lab No	1221900	1221903
Sample ID	TP01	TP05
Depth	0.40	0.40
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	18/08/17	18/08/17
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	0.1	< 0.1
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1
VOC TICs					
none (TIC)	DETSC 3431*		mg/kg	None	None



Summary of Chemical Analysis Leachate Samples

Our Ref 17-08694 Client Ref P16-483

Lab No	1221917	1221918	1221919	1221920
Sample ID	TP09	TP13	TP18	SP02
Depth	1.50	1.40	0.50	1.50
Other ID				
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	18/08/17	18/08/17	18/08/17	18/08/17
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Preparation							
Leachate 2:1 250g Non-WAC	DETS 036*			Υ	Υ	Υ	Υ
Metals							
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.51	0.36	2.3	1.3
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	0.05
Calcium, Dissolved	DETSC 2306	0.09	mg/l	2.1	7.0	3.3	22
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.49	< 0.25	1.1	0.52
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.9	0.5	1.0	4.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.43	0.11	0.59	0.14
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.1	3.4	0.81	5.2
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.6	< 0.5	1.3	1.7
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	0.31	0.33	0.53
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.1	< 1.3	2.1	1.8
Inorganics							
Hardness	DETSC 2303	0.1	mg/l	9.45	31.4	11.6	76.2
Sulphate as SO4	DETSC 2055	0.1	mg/l	7.2	20	3.3	55
Sulphide	DETSC 2208	10	ug/l	< 10	< 10	< 10	< 10
Phenols							
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50



BS 3882:2015 Topsoil Analytical Report

Our Ref 17-08694 Client Ref P16-483

Contract Title (P16-483) Alloa Phases 8 & 9

Lab No	1221902
Sample ID	TP04
Depth	0.20
Other ID	
Sample Type	SOIL
Sampling Date	18/08/17
Communities or Time of	,

	Sampling Time	n/s						
			Compliant with multi purpose range?	Compli	ant with	specific (Y/N)	purpose	range?
Parameter Parameter	Method	Result	(Y/N)	Acid.	Calc	Low F.	Low F.	Low F.
Texture	Wethou	Result	ļ	<u> </u>			acidic	caic.
Clay content %	\$	24						
Silt content %	\$	70	Se	e Figure 1	1 on Text	tural clas	s sheet	
Sand content %	\$	5		Ü				
Soil texture – (see figure 1)	\$	Silty Clay Loam						
Soil organic matter content % (varying wi	th clay content)							
Clay 5-20%	DETSC 2002#		N	N	N	N	N	N
Clay 20-35%	DETSC 2002#	5.8	Υ	Υ	Υ	Υ	Υ	Υ
Maximum coarse fragment - Content % n	n/m							
>2 mm	\$	2	Υ	Υ	Υ	Υ	Υ	Υ
>20 mm	\$	0	Y	Υ	Υ	Y	Y	Υ
>50 mm	\$	0	Υ	Υ	Υ	Υ	Υ	Υ
Soil pH value	DETSC 2008#	6.3	Υ	N	N	Υ	N	N
Carbonate (Calcareous only) %	DETSC 2005	2.5	N/A	N/A	Υ	N/A	N/A	Υ
Available plant nutrient content	-							
Total Nitrogen %	DETSC 2121*	0.23	Υ	Υ	Υ	N/A	N/A	N/A
Extractable phosphorous mg/l	DETSC 2301*	23.4	Υ	Υ	Υ	N	N	N
Extractable potassium mg/l	DETSC 2301*	180	Y	Υ	Υ	N/A	N/A	N/A
Extractable magnesium mg/l	DETSC 2301*	342	Υ	Υ	Υ	N/A	N/A	N/A
Carbon: Nitrogen ratio		14.63	Υ	Υ	Υ	Υ	Υ	Υ
Electrical Conductivity	DETSC 2009	1800	Υ	N/A	N/A	N/A	N/A	N/A
Phytotoxic contaminants (by soil pH) mg/	/kgDS			•				
Zinc (Nitric acid extract)	DETSC 2301*	55.8	Υ	Υ	Υ	Υ	Υ	Υ
Copper (Nitric acid extract)	DETSC 2301	15.3	Υ	Υ	Υ	Υ	Υ	Υ
Nickel (Nitric acid extract)	DETSC 2301	18	Υ	Υ	Υ	Υ	Υ	Υ
Visible contaminants % m/m								
>2 mm	*	0	Υ	Υ	Υ	Υ	Υ	Υ
of which plastics	*	0	Υ	Υ	Υ	Υ	Υ	Υ
man made sharps	*	0	Υ	Υ	Υ	Υ	Υ	Υ
4								

Additional analytical certificate(s) for particle size distribution analysis are appended.

- MCERTS (accred. only implied if report carries the MCERTS logo). * - unaccredited test. \$ - completed by approved subcontractor.

DECLARATION: I certify that this sample of soil has been analysed in accordance with BS3882:2015

Signature:

Key: n/s -not supplied.



BS 3882: Textural Class

Our Ref 17-08694 *Client Ref* P16-483

Results: Prop	ortion in class	(%)	
Clay	Silt	Sand	Help messages
24	70	5	must sum to 100

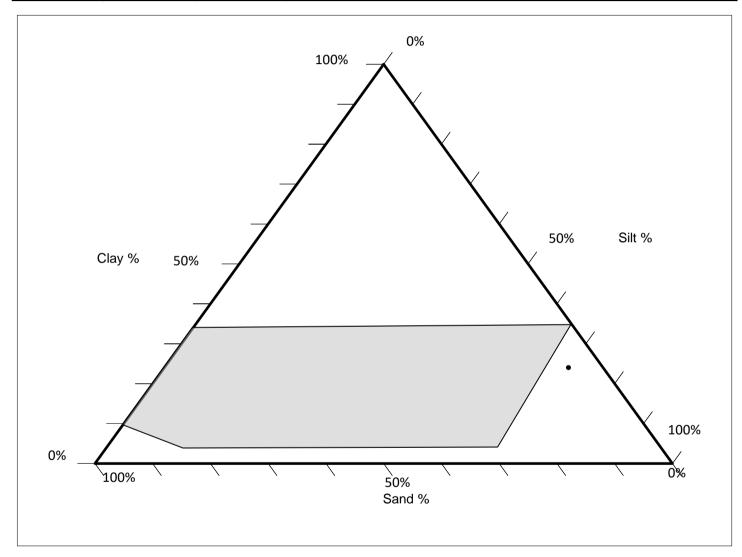


Figure 1
The textural class is required to be in the shaded area to be compliant with BS3882:2015
Results are shown by the grey point in the chart

Plotting parameters		Help messages
Printer correction:	1.1	
Tick interval (0 - 0.5):	0.1	
Tick length (0 - 0.2):	0.03	
Plot lines? (Y or N):	n	



BS 3882:2015 Topsoil Analytical Report

Our Ref 17-08694 *Client Ref* P16-483

Contract Title (P16-483) Alloa Phases 8 & 9

_	
Lab No	1221912
Sample ID	TP19
Depth	0.20
Other ID	
Sample Type	SOIL
Sampling Date	18/08/17
Sampling Time	n/s

	Sampling Time	n/s						
			Compliant with multi purpose range?	Compli	ant with	specific (Y/N)	purpose	range?
Parameter Parameter	Method	Result	(Y/N)	Acid.	Calc	Low F.	Low F.	Low F.
Texture	IVIETIOU	Nesuit					acidic	calc.
Clay content %	\$	30						
Silt content %	\$	66	- Se	e Figure 1	1 on Text	tural clas	s sheet	
Sand content %	\$	4		- 0				
Soil texture – (see figure 1)	\$	Silty Clay Loam						
Soil organic matter content % (varying wi	th clay content)	•						
Clay 5-20%	DETSC 2002#		N	N	N	N	N	N
Clay 20-35%	DETSC 2002#	3.6	N	N	N	Υ	Υ	Υ
Maximum coarse fragment - Content % n	n/m			•				
>2 mm	\$	2	Υ	Υ	Υ	Υ	Υ	Υ
>20 mm	\$	0	Y	Υ	Υ	Y	Y	Υ
>50 mm	\$	0	Υ	Υ	Υ	Υ	Υ	Υ
Soil pH value	DETSC 2008#	6.4	Υ	N	N	Υ	N	N
Carbonate (Calcareous only) %	DETSC 2005	2.1	N/A	N/A	Υ	N/A	N/A	Υ
Available plant nutrient content	-							
Total Nitrogen %	DETSC 2121*	0.21	Υ	Υ	Υ	N/A	N/A	N/A
Extractable phosphorous mg/l	DETSC 2301*	15.3	N	N	N	Υ	Υ	Υ
Extractable potassium mg/l	DETSC 2301*	108	N	N	N	N/A	N/A	N/A
Extractable magnesium mg/l	DETSC 2301*	342	Υ	Υ	Υ	N/A	N/A	N/A
Carbon: Nitrogen ratio		9.94	Υ	Υ	Υ	Υ	Υ	Υ
Electrical Conductivity	DETSC 2009	1700	Υ	N/A	N/A	N/A	N/A	N/A
Phytotoxic contaminants (by soil pH) mg/	/kgDS			•				
Zinc (Nitric acid extract)	DETSC 2301*	42.3	Υ	Υ	Υ	Υ	Υ	Υ
Copper (Nitric acid extract)	DETSC 2301	7.1	Y	Υ	Υ	Υ	Υ	Υ
Nickel (Nitric acid extract)	DETSC 2301	13.5	Υ	Υ	Υ	Υ	Υ	Υ
Visible contaminants % m/m								
>2 mm	*	0	Υ	Υ	Υ	Υ	Υ	Υ
of which plastics	*	0	Υ	Υ	Υ	Υ	Υ	Υ
man made sharps	*	0	Υ	Υ	Υ	Υ	Υ	Υ
4								

Additional analytical certificate(s) for particle size distribution analysis are appended.

- MCERTS (accred. only implied if report carries the MCERTS logo). * - unaccredited test. \$ - completed by approved subcontractor.

DECLARATION: I certify that this sample of soil has been analysed in accordance with BS3882:2015

Signature:

Key: n/s -not supplied.



BS 3882: Textural Class

Our Ref 17-08694 *Client Ref* P16-483

Results: Prop	ortion in class	(%)	
Clay	Silt	Sand	Help messages
30	66	4	

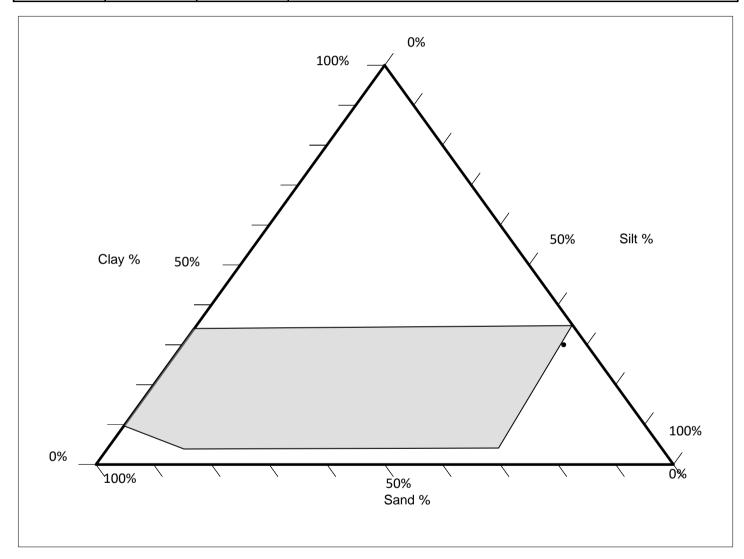


Figure 1
The textural class is required to be in the shaded area to be compliant with BS3882:2015
Results are shown by the grey point in the chart

Plotting parameters		Help messages
Printer correction:	1.1	
Tick interval (0 - 0.5):	0.1	
Tick length (0 - 0.2):	0.03	
Plot lines? (Y or N):	n	



BS 3882:2015 Topsoil Analytical Report

Our Ref 17-08694 *Client Ref* P16-483

Contract Title (P16-483) Alloa Phases 8 & 9

_	
Lab No	1221913
Sample ID	TP20
Depth	0.20
Other ID	
Sample Type	SOIL
Sampling Date	18/08/17
Sampling Time	n/s

			Compliant with multi purpose range?			specific (Y/N)		_
Parameter	Method	Result	(Y/N)	Acid.	Calc	Low F.	Low F. acidic	Low F.
Texture	'							
Clay content %	\$	23						
Silt content %	\$	66	Se	e Figure :	1 on Tex	tural clas	s sheet	
Sand content %	\$	10						
Soil texture – (see figure 1)	\$	Silty Clay Loam						
Soil organic matter content % (varying w	ith clay content)							
Clay 5-20%	DETSC 2002#		N	N	N	N	N	N
Clay 20-35%	DETSC 2002#	4.7	N	N	N	Υ	Υ	Υ
Maximum coarse fragment - Content % i	m/m		•	•				
>2 mm	\$	2	Υ	Υ	Υ	Υ	Υ	Υ
>20 mm	\$	0	Υ	Υ	Υ	Υ	Υ	Υ
>50 mm	\$	0	Υ	Υ	Υ	Υ	Υ	Υ
Soil pH value	DETSC 2008#	6.5	Υ	N	N	Υ	N	N
Carbonate (Calcareous only) %	DETSC 2005	0	N/A	N/A	N	N/A	N/A	N
Available plant nutrient content	-							
Total Nitrogen %	DETSC 2121*	0.18	Υ	Υ	Υ	N/A	N/A	N/A
Extractable phosphorous mg/l	DETSC 2301*	22.3	Υ	Υ	Υ	N	N	N
Extractable potassium mg/l	DETSC 2301*	194	Υ	Υ	Υ	N/A	N/A	N/A
Extractable magnesium mg/l	DETSC 2301*	407.4	Υ	Υ	Υ	N/A	N/A	N/A
Carbon: Nitrogen ratio		15.14	Υ	Υ	Υ	Υ	Υ	Υ
Electrical Conductivity	DETSC 2009	1800	Υ	N/A	N/A	N/A	N/A	N/A
Phytotoxic contaminants (by soil pH) mg	/kgDS		-	•				
Zinc (Nitric acid extract)	DETSC 2301*	59.2	Υ	Υ	Υ	Υ	Υ	Υ
Copper (Nitric acid extract)	DETSC 2301	13.6	Υ	Υ	Υ	Υ	Υ	Υ
Nickel (Nitric acid extract)	DETSC 2301	23.3	Υ	Υ	Υ	Υ	Υ	Υ
Visible contaminants % m/m								
>2 mm	*	0	Υ	Υ	Υ	Υ	Y	Υ
of which plastics	*	0	Υ	Υ	Υ	Y	Y	Υ
man made sharps	*	0	Υ	Υ	Υ	Υ	Υ	Υ

Additional analytical certificate(s) for particle size distribution analysis are appended.

- MCERTS (accred. only implied if report carries the MCERTS logo). * - unaccredited test. \$ - completed by approved subcontractor.

DECLARATION: I certify that this sample of soil has been analysed in accordance with BS3882:2015

Signature:

Key: n/s -not supplied.



BS 3882: Textural Class

Our Ref 17-08694 *Client Ref* P16-483

Results: Prop	ortion in class	(%)	
Clay	Silt	Sand	Help messages
23	66	10	must sum to 100

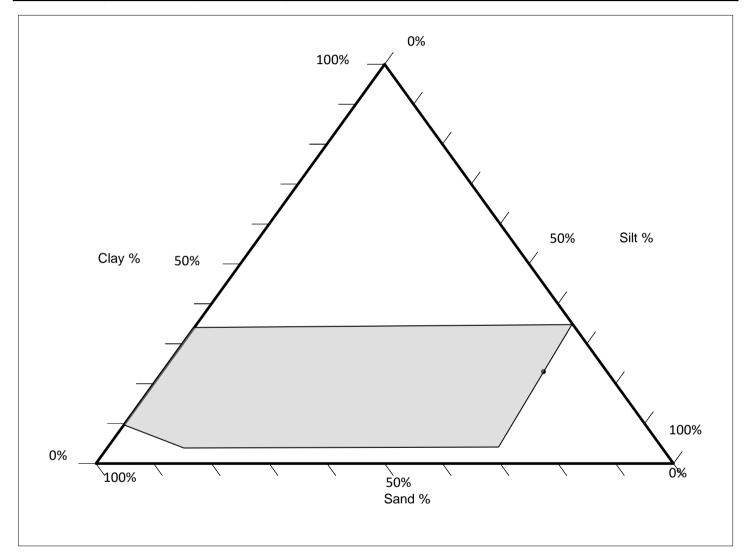


Figure 1
The textural class is required to be in the shaded area to be compliant with BS3882:2015
Results are shown by the grey point in the chart

Plotting parameters		Help messages
Printer correction:	1.1	
Tick interval (0 - 0.5):	0.1	
Tick length (0 - 0.2):	0.03	
Plot lines? (Y or N):	n	



BS 3882:2015 Topsoil Threshold Values

			Spe	cific purpose top	osoil	
	Multipurpose		'		Low fertility	Low fertility
Parameter	Topsoil	Acidic	Calcareous	Low fertility	acidic	calcareous
Soil texture <2mm fraction % m/m						
Clay content %			10 t	o 35		
Silt content %			0 to	65		
Sand content %			35 to	o 85		
Maximum course fraction % m/m						
>2 mm			3	0		
>20mm			1	.0		
>50mm			()		
Mass loss on Ignition %						
Clay 5% to 20%	3 to 20	3 to 30	3 to 20	2 to 20	2 to 30	2 to 20
Clay 20% to 35%	5 to 20	5 to 30	5 to 20	2 to 20	2 to 30	2 to 20
Soil pH	5.5 to 8.5	3.5 to5.5	7.5 to 9.0	3.5 to 9.0	3.5 to 5.5	7.5 to 9.0
Carbonate % m/m			>1			>1
Plant nutrient content						
Total nitrogen % m/m	>0.15	>0.15	>0.15	-	-	-
Extractable phosphate mg/l	16 to 140	16 to 140	16 to 140	≤20	≤20	≤20
Extractable potasium mg/l	121 to 1500	121 to 1500	121 to 1500	-	-	-
Extractable magnesium mg/l	51 to 600	51 to 600	51 to 600	-	-	-
Carbon : Nitrogen ratio	<20:1	<20:1	<20:1	<35:1	<35:1	<20:1
Electrical conductivity μS.cm-1		If greater	than 3 300, carr	y out exchangal	ole sodium	

Multi purpose and	d specific purpos	se topsoils	
Potentially Phytotoxic elements		Soil pH 6.0 to	
(mg/kg dry basis)	Soil pH <6.0	7.0	Soil pH >7.0
Zn	<200	<200	<300
Cu	<100	<135	<200
Ni	<60	<75	<110
Visable contaminants %m/m			
of which plastics		<0.5	
Sharps, number		<0.25	



Summary of Asbestos Analysis Soil Samples

Our Ref 17-08694 Client Ref P16-483

Contract Title (P16-483) Alloa Phases 8 & 9

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1221901	TP02 0.30	SOIL	NAD	none	Jeff Cruddas
1221904	TP06 0.20	SOIL	NAD	none	Jeff Cruddas
1221905	TP07 0.60	SOIL	NAD	none	Jeff Cruddas
1221906	TP08 0.30	SOIL	NAD	none	Jeff Cruddas
1221907	TP09 1.50	SOIL	NAD	none	Jeff Cruddas
1221908	TP11 0.20	SOIL	NAD	none	Jeff Cruddas
1221909	TP12 0.40	SOIL	NAD	none	Jeff Cruddas
1221910	TP13 1.40	SOIL	NAD	none	Jeff Cruddas
1221911	TP18 0.50	SOIL	NAD	none	Jeff Cruddas
1221914	SP01 1.00	SOIL	NAD	none	Jeff Cruddas
1221915	SP02 1.50	SOIL	NAD	none	Jeff Cruddas
1221916	SP03 0.50	SOIL	NAD	none	Jeff Cruddas

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos.

Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos

Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * not included in laboratory scope of accreditation.



Information in Support of the Analytical Results

Our Ref 17-08694 Client Ref P16-483

Contract (P16-483) Alloa Phases 8 & 9

Containers Received & Deviating Samples

				Holding time	Inappropriate
		Date		exceeded for	container for
Lab No	Sample ID	Sampled	Containers Received	tests	tests
1221900	TP01 0.40 SOIL	18/08/17	GJ 250ml, PT 1L		
1221901	TP02 0.30 SOIL	18/08/17	GJ 250ml, PT 1L		
1221902	TP04 0.20 SOIL	18/08/17	GJ 250ml, PT 1L		
1221903	TP05 0.40 SOIL	18/08/17	GJ 250ml, PT 1L		
1221904	TP06 0.20 SOIL	18/08/17	GJ 250ml, PT 1L		
1221905	TP07 0.60 SOIL	18/08/17	GJ 250ml, PT 1L		
1221906	TP08 0.30 SOIL	18/08/17	GJ 250ml, PT 1L		
1221907	TP09 1.50 SOIL	18/08/17	GJ 250ml, PT 1L		
1221908	TP11 0.20 SOIL	18/08/17	GJ 250ml, PT 1L		
1221909	TP12 0.40 SOIL	18/08/17	GJ 250ml, PT 1L		
1221910	TP13 1.40 SOIL	18/08/17	GJ 250ml, PT 1L		
1221911	TP18 0.50 SOIL	18/08/17	GJ 250ml, PT 1L		
1221912	TP19 0.20 SOIL	18/08/17	GJ 250ml, PT 1L		
1221913	TP20 0.20 SOIL	18/08/17	GJ 250ml, PT 1L		
1221914	SP01 1.00 SOIL	18/08/17	GJ 250ml, PT 1L		
1221915	SP02 1.50 SOIL	18/08/17	GJ 250ml, PT 1L		
1221916	SP03 0.50 SOIL	18/08/17	GJ 250ml, PT 1L		
1221917	TP09 1.50 LEACHATE	18/08/17	GJ 250ml, PT 1L		
1221918	TP13 1.40 LEACHATE	18/08/17	GJ 250ml, PT 1L		
1221919	TP18 0.50 LEACHATE	18/08/17	GJ 250ml, PT 1L		
1221920	SP02 1.50 LEACHATE	18/08/17	GJ 250ml, PT 1L		
Vanu C Clas	c D Dlactic L lar T Tub				

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Phases 8 &9, Alloa, February 2018 Appendix 10 Gas / Groundwater Monitoring Data Mason Evans Partnership Limited



Gas and Groundwater Monitoring Results

Project Number:		PI6	-483															
Site:		Allo	a Phase	s 8 & 9														
Date:		05/0	9/2017															
Readings taken b	y:	DR																
		Wea	ather Co	onditio	าร				D	amp								
		Gro	und Cor	nditions	(dry/we	et):			W	et								
		Air	Temper	ature (°C)				15									
		Atm	nospheri	c Press	ure (mB	3) (start	:) :		10	06								
Backgroun	d Data	Atm	nospheri	c Press	ure (m E	B) (finish	າ):		10	05								
		O ₂ (20	.6								
			2 (%)						-									
		CH₄							-									
		N ₂ (%)													F		
	Time							Gas						Ground			Sampling	
Borehole No.	(hh:mm)	P ¹	2 (%) SS ²	P ¹	2 (%) SS ²	PI PI	4 (%) SS ²	H ₂ S	(%) SS ²	CO (ppm) SS ²	LEL	Flow (l/hr)	Wd³ (mbgl)	DoW ⁴ (m)	Pr ⁵	R ⁶	S ⁷
BH01		-	19.8	-	1.1	-	0.0	-	0.0	-	-	-	0.0	1.10	4.10	14.75 L	Y	N
BH02		-	18.5	-	1.3	-	0.0	-	0.0	-	-	-	0.0	1.20	3.75	-	-	-
BH03		-	20.1	-	1.1	-	0.0	-	0.0	-	-	-	18.5 to 0	0.95	3.80	-	-	-
BH04		-	19.3	-	2.1	-	0.0	-	0.0	-	-	-	0.0	1.15	4.30	-	-	-
BH05		-	19.9		1.5	-	0.0	-	0.0	-	-	-	4 to 0	1.05	4.20	15.5 L	Υ	N
BH06		-	18.9	-	0.5	-	0.0	-	0.0	-	-	-	27.2 to 0	1.00	4.30	19.8 L	Υ	Υ
BH07		-	19.5	-	1.5	-	0.0	-	0.0	-	-	-	0.0	1.15	4.30	14.75 L	Υ	N
BH08		-	19.8	-	1.8	-	0.0	-	0.0	-	-	-	0.0	1.10	3.80	9.2 L	Y	N
BH09		-	19.8	-	1.9	-	0.0	-	0.0	-	-	-	0.0	1.85	3.95	9 L	Y	N
BH10		-	20.3	-	0.5	-	0.0	-	0.0	-	-	-	13 to 0	0.90	4.10	14.25 L	Υ	N
Remai	rks	*Ran	out of st	ring to	continue	purging*												
Borehole Dama Installation		Bore	eholes all	ok.									Key: I – Peak 2 – Stead				Purged well Recharge (y	
Borehole Co Statem			confirm t rdance w							on Evans	personne	el in		indwater dep	oth		Sampled (y	
Gas Monito	r Model:						Serial	No:							Recalibra	tion Due:		
GFM4	30						1197	77							Nov	17		



Gas and Groundwater Monitoring Results

Project Number:		PI6	-483																
Site:		Allo	a Phase	s 8 & 9															
Date:		28/0	9/17																
Readings taken b	y:	DR																	
Ü		We	ather Co	onditio	ns				D	ry									
		Gro	und Cor	nditions	dry/we	et):			٧	Vet									
			Temper						1.										
					ure (mE					015									
Backgroun	d Data			ic Press	ure (m E	3) (finish	າ):			014									
		O ₂ (2	0.6									
		CO																	
		CH4																	
		N ₂ (%)																
						1		Gas				1			Ground			Sampling	<u> </u>
Borehole No.	Time (hh:mm)	0	2 (%)	со	2 (%)	СН	4 (%)	H₂S	s (%)	со	(ppm)	LEL		ow hr)	Wd³ (mbgl)	DoW⁴ (m)	Pr ⁵	R ⁶	S ⁷
		PΙ	SS ²	P ¹	SS ²	P'	SS ²	P'	SS ²	P'	SS ²	_	P ¹	SS ²	('6')				
BH01		-	20.8	-	0.1	-	0.0	-	-	-	-	0.0	0.0	0.0	1.00	4.15	-	-	-
BH02		-	20.8	-	0.1	-	0.0	-	-	-	-	0.0	5.2	0.0	1.05	3.60	-	-	-
BH03		-	19.6	-	1.9	-	0.0	-	-	-	-	0.0	17.2	0.6	0.90	3.80	-	-	-
BH04		-	20.7	-	0.5	-	0.0	-	-	-	-	0.0	24.3	0.6	0.90	4.30	-	-	-
BH05		-	20.7	-	0.1	-	0.0	-	-	-	-	0.0	0.0	0.0	0.65	4.25	-	-	-
BH06		-	20.7	-	0.1	-	0.0	-	-	-	-	0.0	0.0	0.0	0.50	4.60	-	-	-
BH07		-	20.6	-	0.3	-	0.0	-	-	-	-	0.0	0.0	0.0	0.85	4.35	-	-	-
BH08		-	20.5	-	0.3	-	0.0	-	-	-	-	0.0	0.0	0.0	0.70	3.80	-	-	-
BH09		<u> </u>	19.8	-	1.9	-	0.0	-	-	-	-	0.0	0.0	0.0	1.65	4.20	-	-	-
BH10			20.5	-	0.4	-	0.0	-	-	-	-	0.0	0.0	0.0	0.75	4.20	-	-	-
Rema	rks																		
Borehole Dama Installation													1	ey: – Peak				-Purged wel	
Borehole C Statem					boreholes I working					on Evans	personn	el in	3		ly state Indwater dep h of well	oth		– Recharge (– Sampled (y	
Gas Monito	r Model:						Serial	No:								Recalibrat	ion Due	: :	
GFM 4	36						126	44								05/12	/17		



Gas and Groundwater Monitoring Results

Project Number:		PI6	-483																			
Site:		Allo	a Phase	s 8 & 9																		
Date:		18/1	0/2017`																			
Readings taken b	y:	СК																				
<u>_</u>		We	ather Co	onditio	ns				D	ry												
		Gro	und Cor	nditions	(dry/we	et):			D	amp												
			Temper						9													
					ure (mB					1004												
Backgroun	d Data			c Press	ure (m E	3) (finisl	h):			1005												
		O ₂ (20).4												
			2 (%)																			
		CH																				
		N ₂ (%)					C							C		_	C!				
								Gas						ow	Ground	DoW ⁴		Sampling	<u> </u>			
Borehole No.	Time (hh:mm)	0	2 (%)	со	2 (%)	СН	4 (%)	H ₂ S	6 (%)	со	(ppm)	LEL		ow hr)	Wd ³	(m)	Pr⁵	R ⁶	S ⁷			
		P ¹	SS ²	P ¹	SS ²	P ¹	SS ²	P ¹	SS ²	P¹	SS ²	1	P¹	SS ²	(mbgl)							
BH01		-	20.5	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	1.05	4.15	-	-	-			
BH02		-	20.5	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	1.05	3.60	-	-	-			
BH03		-	20.5	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	0.90	3.75	-	-	-			
BH04		-	20.5	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	1.00	4.20	-	-	-			
BH05		-	20.5	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	0.70	4.20	-	-	-			
BH06		-	20.5	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	0.60	4.55	-	-	-			
BH07 BH08		-	20.4	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	0.95 1.50	4.30 3.90	-	-	-			
BH09		-	20.4	-	0.0	-	0.0	-	-	-	-	0.0	0.0	0.0	0.80	4.10	-	-	-			
BHIO		-	20.4		0.0		0.0			 	<u> </u>	0.0	0.0	0.0	0.85	4.20		+ -	-			
Rema	rks		20.1		0.0		0.0					0.0	0.0	0.0	0.03	1.20			ı			
Borehole Dama													1	(ey: – Peak			5 -	-Purged well	volume			
Borehole C Statem					boreholes I working					on Evans	personn	el in	3		ly state ındwater de _l h of well	oth		- Recharge (- Sampled (y				
Gas Monito	r Model:						Serial	No:								Recalibrat	ion Due	:				
GFM 4	30						103	09								25/01	/18					