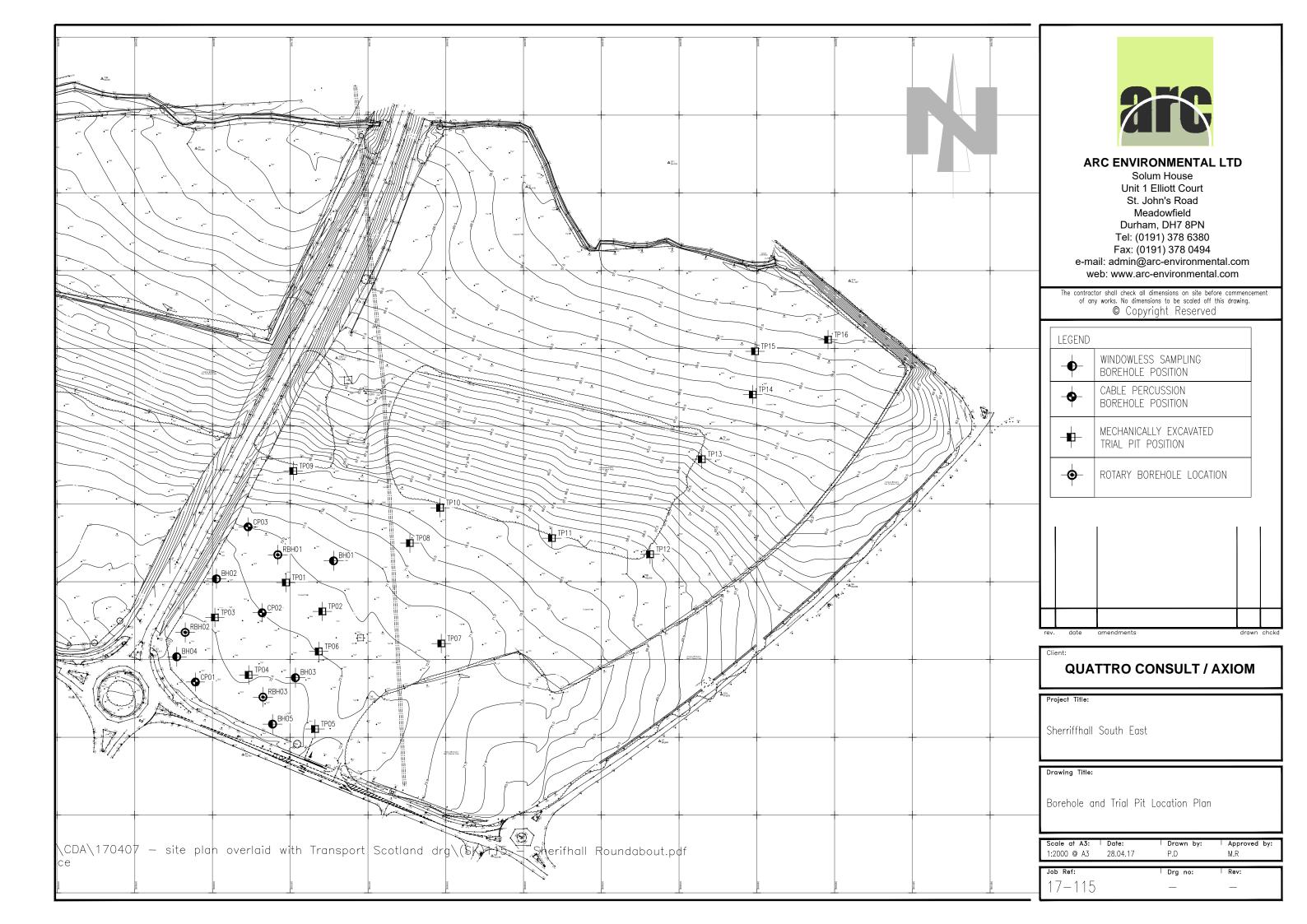
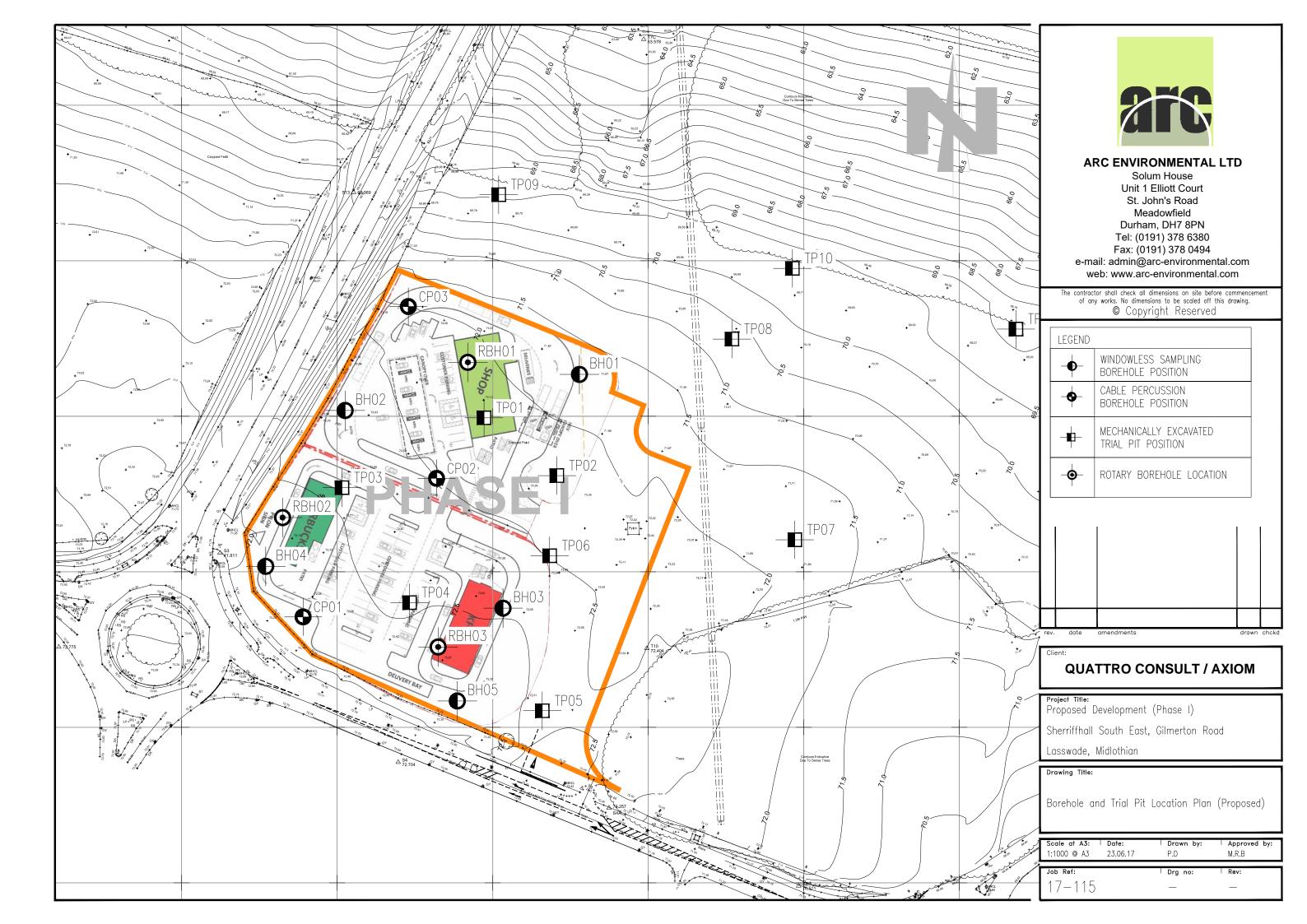


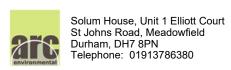


# **APPENDIX II**

Borehole & Trial Pit Location Plan, Borehole & Trial Pit Record Sheets







Sheriffhall South East, Gilmerton Road, Lasswade, EH18 1BD	1
Job No Date Ground Level (m) Co-Ordinates ()	ı
17-115 12-05-17	
Contractor Sheet	
Arc Environmental Limited 1 of	

		Earea				CEED A ELA	1 01		>
SAMPLE	ES & T	ESTS	er		T = .1	STRATA		55	nent 11
Depth	Type No	Test Result	Water	Reduced Level Legend	Depth (Thick- ness)	DESCRIPTION		Geology	Instrument/ Backfill
0.00-0.32	В			17 - 74-17 - 7 - 74-17 - 74-17	(0.32)	Crops overlying dark brown clayey silty fine to medium SA (TOPSOIL).	AND		
0.32-0.45	B B			0	-	Medium dense orange brown silty gravelly fine to medium (GLACIOFLUVIAL DEPOSITS).	SAND		
1.00-1.45	SPT	N=18		0	- - -				
1.20-1.80	В				 - - - - -	1.20 Becoming slightly gravelly.			
1.80-2.00	В				·- ·-				
2.00-2.45	SPT	N=10			(5.13)				
3.00	B SPT	N=10			- - - - - - - -				
3.50	В				   	3.55 Becoming loose and slightly saturated with occasional and coal fragments.	l silt lenses		
4.00	B SPT	N=5							
5.00	B SPT	N=5			5.45				
					- - - -	Borehole completed to a depth of 5.45m.			
						T			

4	-					-							
27/6	Boı	ring Prog	gress an	d Water (	Observati	ons	Chiselling				Water	Added	GENERAL
.GDT	Date	Time	Depth	Cas Depth	sing   Dia. mm	Water Dpt	Fro	m	То	Hours	From	То	REMARKS
BH TP LOGS.GPJ AGS3_ALL	12-05-17	10.30	5.45	5.00	92	N/A							WATER OBSERVATIONS: Seepage noted at a depth of 3.55m.
AGS3 UK	All dimensions in metres   Client   Axiom Project Ser   Scale 1:37.5   Limited							Meth Plant		dowless \$	Sampling	Rig	Logged By SW

Method/ Plant UsedWindowless Sampling Rig All dimensions in metres Scale 1:37.5 Axiom Project Services Limited Logged By SW



environmental						ЪС	KEHOL		J			
Project										BOREH	OLE	No
Sher	iffhall S	South E	East, G	Gilmert	on Roa	ıd, Lassw	ade, EH18	1BD		DL	102	
Job No		Dat	te			Ground L	evel (m)	Co-Ordi	inates ()	БГ	102	
17-1	115		12-	-05-17								
Contractor										Sheet		
Arc	Enviror	nmental	l Limi	ited						1 (	of 1	
SAMPLES & TESTS STRATA										eology	strument/ ackfill	
Depth Type Test No Result Reduced Legend (						luced Legend (Thick- DESCRIPTION						

SAMPLE	ES & T	ESTS	, T				STRATA		ient/
Depth	Type No	Test Result	Water	Reduced Level		Depth (Thick- ness)		Geology	Instrument/ Backfill
0.00-0.50	В				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(0.50)	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).		
0.50-0.63	В				0	_	Loose and medium dense orange brown very gravelly fine to medium SAND (GLACIOFLUVIAL DEPOSITS).		
0.68-1.00	В				0	-	STAD (GENERAL DEI GSTIS).		
1.00-1.60 - 1.00-1.45	B SPT	N=10			0	- - -			
1.60-2.00	В					- - -	1.60 Becoming slightly gravelly.		
2.00-2.45	SPT	N=9				- - - -			
3.00	B SPT	N=12				(4.50)	3.00 - 3.30 Light brown sandy silt		
3.60-3.88	В				0	- - -			
3.88-4.00	B SPT	N=12				- - - - -	3.88 Becoming slightly saturated with occasional silt lenses and coal fragments.		
5.00	D					5.00			
5.00 5.00-5.45	B SPT	N=6				- - - - -	Borehole completed to a depth of 5.45m.		
- -	D		1 337	01		- - -			

7	-					-							
27/6/	Boı	ing Prog	gress and	l Water (	Observati	ons	Chiselling V				Water	Added	GENERAL
.GDT	Date	Time	Depth	Ca Depth	sing   Dia. mm	Water Dpt	Fro	m	То	Hours	From	То	REMARKS
BH TP LOGS.GPJ AGS3_ALL	12-05-17	11.30	5.45	5.00	92	N/A							WATER OBSERVATIONS: Seepage noted at a depth of 3.90m.
AGS3 UK	All dimensions in metres Scale 1:37.5 Client Axiom Project Se Limited							Meth Plant		dowless S	Sampling	Rig	Logged By SW



Project		BOREHOLE No		
Sheriffhall Sou	BD	BH03		
Job No	БПОЗ			
17-115	12-05-17			
Contractor				Sheet
Arc Environme	1 of 1			

SAMPLE	ES & T	ESTS	٤				STRATA		ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick- ness)	DESCRIPTION	Geology	Instrument/ Backfill
0.00-0.30	В				1/ 1// 1//	(0.30)	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).		
0.30	В				0	- 0.30	Medium dense orange brown gravelly fine to medium SAND (GLACIOFLUVIAL DEPOSITS).		
1.00	B SPT	N=15			0	 - - - - -			
1.60-2.00	В					- - - - -	1.60 Becoming loose slightly gravelly.		
2.00-2.45	SPT	N=9				·- ·- ·- ·-			
2.50-2.60	В				0		2.50 - 2.60 Light brown sandy silt.		
2.80-3.00 3.00 3.00-3.45	B B SPT	N=9				(5.15)	3.00 Becoming slightly saturated with occasional silt lenses and coal fragments.		
4.00 4.00-4.45	B SPT	N=5							
5.00 - 5.00-5.45	B SPT	N=5				5.45	Dough als completed to a depth of 5.45 m		
-						-	Borehole completed to a depth of 5.45m.		

117	-											
27/6	Boı	ring Prog	gress and	d Water (	Observati	ons	Chiselling Water Added					GENERAL
.GDT	Date	Time	Depth	Cas Depth	sing   Dia. mm	Water Dpt	From	То	Hours	From	То	REMARKS
BH TP LOGS.GPJ AGS3_ALL	12-05-17	13.00	5.45	5.00	92	N/A						WATER OBSERVATIONS: Seepage noted at a depth of 3.20m.
AGS3 UK	All dimensions in metres Scale 1:37.5 Client Axiom Project Ser Limited							ethod/ ant UsedWir	ndowless S	Sampling	Rig	Logged By SW



				20112		•			
Project							BOREH	OLE	No
Sher	riffhall Sc	outh Eas	t, Gilmerton	Road, Lasswade	e, EH18 1BD		DL	104	
Job No		Date		Ground Level	(m) Co-Oi	rdinates ()	_ БГ	104	
17-1	115		12-05-17						
Contractor							Sheet		
Arc	Environn	nental L	imited				1 (	of 1	
SAMPLE	ES & TE	STS	ı,		STRA	TA			ent/
Denth	Type	Test	Reduced Le	Depth gend (Thick-		DESCRIPTION		ology	trume kfill

SAMPLE	ES & T	ESTS	r				STRATA	_	ent/
Depth	Type No	Test Result	Water	Reduced Level		Depth (Thick- ness)	DESCRIPTION	Geology	Instrument/ Backfill
0.00-0.58	В					- (0.58) - 0.58	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).		
0.58-0.80	В				0	- 0.38	Medium dense orange brown gravelly fine to medium SAND (GLACIOFLUVIAL DEPOSITS).		
0.80-1.00	В					-	0.80 Becoming slightly gravelly.		
1.00-1.45	SPT	N=20			0	- - - -			
1.50	В					- - - -			
2.00	B SPT	N=14			0	- - -			
2.40-2.60	В				a	-	2.40 - 2.60 Light brown sandy silt.		
2.60-3.00	В				0	-			
3.00	B SPT	N=11				(4.87)	2.80 Becoming slightly saturated with occasional silt lenses and coal fragments.		
4.00 4.00-4.45	B SPT	N=4				- - - - - - - - - - -	3.60 Becoming loose		
5.00 - 5.00-5.45	B SPT	N=3			0	- - - - 5.45			
	D			- OI		- - -	Borehole completed to a depth of 5.45m.		

7	-					-							
27/6/	Boı	ing Prog	gress and	l Water (	Observati	ons		(	Chiselling	g	Water	Added	GENERAL
.GDT	Date	Time	Depth	Ca Depth	sing   Dia. mm	Water Dpt	Fro	m	То	Hours	From	То	REMARKS
BH TP LOGS.GPJ AGS3_ALL	12-05-17	14.30	5.45	5.00	92	N/A							WATER OBSERVATIONS: Seepage noted at a depth of 2.80m.
AGS3 UK	All dimensions in metres Scale 1:37.5 Client Axiom Project Se Limited							Meth Plant		dowless S	Sampling	Rig	Logged By SW



Project				BOREHOLE No
Sheriffhall Sou	BH05			
Job No	БПОЭ			
17-115	12-05-17			
Contractor		•		Sheet
Arc Environme	1 of 1			
SAMPLES & TES	TS .		STRATA	tuc.

SAMPLES & TESTS			r	STRATA						
Depth	Type No	Test Result	Water	Reduced Level		Depth (Thick- ness)		Geology	Instrument/ Backfill	
0.00-0.42	В				1/ 1/ 1/ 1/ 1/ 1/ 1/	(0.45)	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).			
0.42-0.78	В				0	- 0.43	Loose and medium dense orange brown very gravelly fine to medium SAND (GLACIOFLUVIAL DEPOSITS).			
0.78-1.00	В				· · · · · · · · · · · · · · · · · · ·	-				
						-				
1.35-1.70 1.45-1.45	B SPT	N=22					1.35 Becoming slightly gravelly.			
1.70-2.00	В					  -  -				
-					0	-				
2.45-2.45	SPT	N=11				-  -  -				
2.50-2.80	В				a .	-				
2.80-3.00	В					(5.00)	2.80 Becoming slightly saturated with occasional silt lenses and coal fragments.			
-					· o · · · · · · · · · · · · · · · · · ·	- - -				
3.45-3.45 3.50	SPT B	N=6			· o · · · · · · · · · · · · · · · · · ·	- -				
- 4.00					· · · · · · · · · · · · · · · · · · ·	-				
4.00	В				0	- - -				
4.45-4.45	SPT	N=13				-  -  -				
-										
5.00	В				a	-				
5.45-5.45	SPT	N=7			a	5.45	Borehole completed to a depth of 5.45m.			
						-				
£										

4	-					-							
27/6	Boı	ring Prog	gress and	l Water (	Observati	ons		Chisellin	g	Water	Added	GENERAL	
.GDT	Date	Date Time Depth Casing Water Depth   Dia. mm Dpt					From	То	Hours	From	То	REMARKS	
BH TP LOGS.GPJ AGS3_ALL	12-05-17	16.00	5.45	5.00	92	N/A						WATER OBSERVATIONS: Seepage noted at a depth of 2.80m.	
AGS3 UK	All dimensions in metres Scale 1:37.5 Client Axiom Project Service Limited							thod/ nt UsedWin	dowless !	Sampling	Rig	Logged By SW	



Project	Project											
Sheriffhall Sou	CP01											
Job No	CPUI											
17-115	08-05-17											
Contractor	Sheet											
Arc Environme	1 of 1											

SAMPLE	FSTS					STRATA		ıt/	
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick- ness)	DESCRIPTION	Geology	Instrument/ Backfill
0.00-0.40	В				<u> </u>	0.40	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).		
1.00-2.00	B SPT	N=21				(1.60)	Medium dense very sandy gravel (GLACIOFLUVIAL DEPOSITS).		
2.00-3.00 2.00-2.45	B SPT	N=18				† !! !!	Medium dense becoming dense orange brown silty SAND. Some occasional sandy clay pockets present (GLACIOFLUVIAL DEPOSITS).		
3.00-4.00 3.00-3.45	B SPT	N=15					22. 60.16),		
4.00-5.00 4.00-4.45	B SPT	N=18	<u></u>			,1			
5.00-6.00 5.00-5.45	B SPT	N=19	<u>‡</u>			بانبياب			
6.50-7.00 - 6.50-6.95	B SPT	N=22							
8.00-9.00 8.00-8.45	B SPT	N=25				(13.00)			
9.50-10.00 -9.50-9.95	B SPT	N=19							
11.00- 12.00 11.00- 11.45	B SPT	N=25							
12.50- 13.00 12.50- 12.95	B SPT	N=31				بيديندين	13.00 Frequent silty lenses		
14.00- 15.00 14.00-	B SPT	N=30							
14.45	511	IN=3U			<u>- · . · - · .</u>	15.00	Borehole completed at a depth of 15.00m		<b>200</b>

5												
27/6/	Boı	ing Prog	gress and	d Water C	Observation	ons		Chisellin	ng	Water	Added	GENERAL
.GDT	Date	Time	Depth	Casing Water Depth   Dia. mm Dpt			Fron	то То	Hours	From	То	REMARKS
	08-05-17 08-05-17 08-05-17	12.30 12.50 16.30	6.00 6.00 15.00	4.50 4.50 15.00	150 150 150	6.00 4.50 4.50 4.50						WATER OBSERVATIONS: Water ingress noted at a depth of 6.00m, rising to a depth of 4.50m after 20mins
3S3 UK	All dimensions in metres Scale 1:100 Client Axiom Project Service Limited							lethod/ ant Used <b>C</b> al	nole	Logged By RT		
ĕΙ	50	uic 1.100			nicu			Cui	ore referen	SION DON	.1010	101



Project	Project											
Sheriffhall Sou	CP02											
Job No	CP02											
17-115	09-05-17											
Contractor	Sheet											
Arc Environme	1 of 1											

									I <
SAMPLE	S & T	ESTS	, H				STRATA	>	nent/
Depth	Type No	Test Result	Water	Reduced Level		Depth (Thick- ness)	DESCRIPTION	Geology	Instrument/ Backfill
0.00-1.00	В				711/2 1/1/	0.20	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).		
1.00-2.00 1.20-1.65	B SPT	N=9				(1.30)	Loose brown slightly gravelly fine to medium SAND (GLACIOFLUVIAL DEPOSITS).		
2.00-3.00 2.00-2.45	B SPT	N=14					Medium dense becoming dense orange brown silty fine SAND. Some occasional sandy clay pockets present (GLACIOFLUVIAL DEPOSITS).		
3.00-4.00 3.00-3.45	B SPT	N=15	<b>1</b> <u>1</u> <u>1</u>						
4.00-5.00 4.00-4.45	B SPT	N=14				<del>, , , , , , , , , , , , , , , , , , , </del>			
5.00-6.00 5.00-5.45	B SPT	N=20	₹						
6.50-7.00 -6.50-6.95	B SPT	N=17				<u> </u>			
8.00-9.00 8.00-8.45	B SPT	N=22				(13.50)			
9.50-10.00 -9.50-9.95	B SPT	N=25							
11.00- 12.00 11.00- 11.45	B SPT	N=25							
12.50- -13.00 -12.50- -12.95	B SPT	N=27				<u>, , , , , , , , , , , , , , , , , , , </u>			
E 14.00- E 15.00 E 14.00- E 14.45	B SPT	N=30				15.00	Develope according to death of 17.00		
<u> </u>							Borehole completed at a depth of 15.00m		

4														
27/6/	Boı	ring Prog	gress and	d Water C	Observati	ons	Chiselling Water Added					GENERAL		
GDT	Date	Time	Depth	Casing Water Depth   Dia. mm Dpt			From	То	Hours	From	То	REMA		
BH TP LOGS.GPJ AGS3_ALL	09-05-17 09-05-17 09-05-17	12.00 12.20 16.00	5.50 5.50 15.00	4.50 4.50 15.00	150 150 150	5.50 3.50 3.50						WATER OBSE Water ingress r depth of 5.50m depth of 3.50m 20mins.	oted at	a
AGS3 UK	All dimensions in metres Scale 1:100 Client Axiom Project Service Limited						es   Method/ Plant UsedCable Percussion Borhole				Logged By RT	1		



Project			BOREHOLE No
Sheriffhall Sou	CP03		
Job No	CPUS		
17-115	10-05-17		
Contractor		•	Sheet
Arc Environme	1 of 1		
SAMPLES & TEST	TS	STRATA	14

SAMPLE	ESTS	L		STRATA							
Depth	Type No	Test Result	Water	Reduced Level		Depth (Thick- ness)		Geology	Instrument/ Backfill		
0.00-0.30	В				7/1/V. 1/1/V	0.30	Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).				
1.00-2.00 1.20-1.65	B SPT	N=8				(2.20)	Loose orange brown gravelly fine to medium SAND (GLACIOFLUVIAL DEPOSITS).				
2.00-3.00 2.00-2.45	B SPT	N=10				2.50	Medium dense becoming dense orange brown SAND. Some				
3.00-4.00 3.00-3.45	B SPT	N=13					occasional sandy clay pockets present (GLACIOFLUVIAL DEPOSITS).				
4.00-5.00	B SPT	N=14	\ \frac{1}{2}			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>					
5.00-6.00 5.00-5.45	B SPT	N=14									
6.50-7.00 -6.50-6.95	B SPT	N=16	<b>±</b>			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
8.00-9.00 8.00-8.45	B SPT	N=17				(12.50)					
9.50-10.00 -9.50-9.95	B SPT	N=19									
11.00- 12.00 11.00- 11.45	B SPT	N=21				سبلسيسيد					
12.50- -13.00	В				<u> </u>	<del>[</del>					
12.50- 12.95	SPT	N=25									
14.00- 15.00	В					<u>;                                    </u>					
14.00- 14.45	SPT	N=30			. 👾 . 🗀	15.00	Borehole completed at a depth of 15.00m	-	988		
							Borenote completed at a deput of 15.00m				

117	<del>-</del>														
27/6/	Bo	ring Prog	gress and	d Water (	Observati	ons	Chiselling Water Adde					Added	GENERAL		
.GDT	Date	Date Time Depth Casing Water Depth Dia. mm Depth					Fro	m	То	Hours	From	То	REMARKS		
(BH TP LOGS.GPJ AGS3_ALL	08-05-17 08-05-17 08-05-17	13.00 13.20 16.30	7.50 7.50 15.00	7.00 7.00 15.00	150 150 150	7.50 4.30 4.30							WATER OBSERVATION: Water ingress noted at a depth of 7.50m, rising to a depth of 4.30m after 20mins.		
AGS3 UK	All dimensions in metres Scale 1:100 Client Axiom Project Servic Limited							Method/ Plant UsedCable Percussion Borhole			nole	Logged By RT			

Method/ Plant UsedCable Percussion Borhole Axiom Project Services Limited All dimensions in metres Scale 1:100 Client Logged By RT



# DRILLHOLE LOG

	Project Sherif	fhall Sou	th Fact (	Gilmerton R	oad, Lasswade	5 FH18	1RD				DRILLE		
	Job No	man 50u	Date Date	Jillietton K	Ground Level			dinates	0		RB	H01	
	17-11	5	04	-05-17									
	Contractor						•				Sheet		
			ental Limi	ited							0	1 <del>₹ 1</del>	1.
	RUN DE						STRAT					1	Instrument/ Backfill
	Depth TCR (SCR)	(SPT) Fracture		Dej Legend (Thic	k-				RIPTION	Main		Geology	strur
	RQD	Spacing		0	00 23 00 Peace	ning yell	ow brown	Detail	Crops overly silty SAND of Orange brow occasional si description).  Red SANDS description).  Borehole cor 32.00m.	(drillers des	SAND with rillers	D	
				d Water Ob					ary Flush		GENE		
10.000			5.00 15	sing Core D mm .00 150	a Water Strike Sta		From 0	To 32	Type WATER	Returns 100	Descriptions a purley on drill interpretation of broungt to the drilling rate m during the drill WATER OBSERVATIO water ingress of	re base ers of cutting surface aintained ling pro	ngs e and ed ocess.
1	All dimension Scale 1:2		Client	Axiom Pro Limited	ject Services	Metho Plant		Cotary	Drilling Rig		Logged By	A	



# DRILLHOLE LOG

Project												DRILLE	IOLE	E No
	Sheriff	hall Sou	th East, C	Gilmer	ton Roa	ad, Lasswade						RB	HN2	•
Job No			Date			Ground Level	(m)	Co-Or	dinates	()		KD	1102	_
	17-115	5	04	-05-17	7									
Contra												Sheet		
	Arc En	vironme	ental Lim	ited								0	l €—1—	
RU		ΓAILS						STRAT	ΓΑ					Instrument/
Depth	TCR (SCR)	(SPT) Fractur	Red'cd	Legen	Deptl d (Thick-	h		D	ESCF	RIPTION			Geology	trum Skfil
	RQD	Spacing	Level	Eegen.	ness)	Discontinuit	ties	]	Detail		Main		g	Ins
					0.20 16.00 16.	27.00 Becom	ning yel	low brown		Red SAND description)	(drillers des wn gravelly silt lenses (d	SAND with rillers		
					(3.00)					COAL (dril Red SAND description)	STONE (dri			
					34.00	0				Borehole co 34.00m.		a depth of		
					undanadanadanadanadanadanadanadanada									
						ervations				ary Flush		GENE		
Date	Tin				Core Dia mm	Water Strike Sta	nding	From	То	Type	Returns	REMA		
04-05-1	7 14.	00 32	2.00 16	5.00	150			0	34	WATER	100	Descriptions as purley on drille interpretation of broungt to the drilling rate maduring the drill WATER OBSERVATION water ingress of	ers of cutti surface aintain ling pr	ings e and led cocess.
	nension	s in metre	Client	Axio Limi	om Projeted	ect Services	Metho Plant		Rotary	Drilling Ri	 g	Logged By DA	A	



# DRILLHOLE LOG

Project												DRILLE	IOLE	E No
	Sheriff	hall Sou		Gilme	erton Roa	ad, Lasswade,						RB	HU3	t
Job No			Date			Ground Level (	(m)	Co-Or	dinates	()			1100	•
	17-11:	5	0:	3-05-1	17									
Contra			. 17	. 1								Sheet		
		vironme	ntal Lin	nitea								0	l f 1	1
RU		TAILS				.		STRAT					56	nent 11
Depth	(SCK)	(SPT) Fracture	Red'co	d Lege	Deptl nd (Thick-					RIPTION	27.		Geology	Instrument/
	RQD	Spacing	Ecver	: A I, .	ness)	Discontinuiti	es	J	Detail	Crops overly	Main	rown clavev	Ğ	ğ Ü
						)				Silty SAND Orange brov occasional s description)  Red SANDS description)	(drillers de: vn gravelly ilt lenses (d	SAND with rillers		
										Valley CAN	UDSTONE.			
					(6.00)					Yellow SAN description)		(drillers		
				1	· · · · · · · · · · · · · · · · · · ·					Borehole co 45.00m	mpleted to	a depth of		1700
:	Dril	ling Pro	gress ar	ıd Wa	ter Ohse	ervations	П		Rot	ary Flush		GENE	D A I	
Date	Tir			asing	Core Dia	Water	nding	From	То	Type	Returns	REMA		
04-05-1				5.00	mm 150	Strike Star	ading	0	45	WATER	100	Descriptions as purley on drille interpretation of broungt to the drilling rate maduring the drill WATER OBSERVATIO water ingress e	re baseers of cutti surface aintain ling pre	ed ings e and led locess.
	nension cale 1:2	s in metres	Client		om Proje	ect Services	Metho		Rotary	Drilling Rig		Logged By	A	



Project									TI	RIAL PIT No
Shei Job No	riffh			Road, Lasswade, Ground Level (						TP01
	115	Date	02-05-17	Ground Level (	(iu)	Co-Ordinates ()				
Contractor	-13		02 03 17						Shee	t
Arc	Env	rironmental	Limited							1 of 1
1		A	B		C		D			Legend
				STRATA					MDLE	ES & TESTS
Depth	No			DESCR	IPTION			Dept		Remarks/Tes
0.00-0.20				ayey silty fine to me medium SAND (GI	edium SAI		5).	0.10 0.30 0.50	J/D B CBR	
2.70			ng slightly gravel					1.50	В	
Shoring/S Stability:	Stal	ort: ble A	<b>-→</b>			N Å			WATER OBSER	GENERAL EMARKS R VATIONS: No gress encountered
All dimens Scale	sions : 1:46		lient Axiom P	roject Services	Method/ Plant Us	ed JCB 3	CX		Logged	By MR



Project				ETIT EO			TF	RIAL PIT No
Sheriff lob No		East, Gilmerton F	Ground Level (		rdinates ()			TP02
17-115		02-05-17			·			
Contractor							Shee	t
Arc En	vironment	al Limited						1 of 1
1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	A	В		C	D	-1 -2 -3 -3 -3		Legend
			STRATA			<u></u>	AMPLE	ES & TESTS
Depth No			DESCR			Dep	th No	Remarks/Tests
0.00-0.30		rlying dark brown cla				0.20	J/D B	
3.00	Trial Pit co	ompleted to a depth o	of 3.00m.			2.00	В	
Shoring/Supp Stability: Sta	oort: able A	B		N +			WATER OBSER	SENERAL EMARKS R VATIONS: No gress encountered
All dimensions		Client Axiom Pr Limited	roject Services	Method/ Plant Used	JCB 3CX		Logged	By MR



Project										Т	RIAL PIT No
She lob No	riffh		East, Gilmerton 1	Ground Level		BD Co-Ordi	inates ()				TP03
	115		02-05-17		(111)	00 014					
Contractor										She	et
Arc	Env	rironmenta	al Limited								1 of 1
1 - 2 - 3 - 3 - 3		A	В		C			D			Legend    1/2   1/4   1/
Depth	No				IPTION				SA Dept		ES & TESTS Remarks/Tes
0.00-0.20 0.20-3.00			rlying dark brown cl own gravelly fine to						0.10	J/L	)
		1.00 Becon	ning slightly graveľ	ly					0.70	В	
3.00		Trial Pit co	ompleted to a depth	of 3.00m.							
Shoring/S Stability:	upp Stal	ort: ble								]	GENERAL REMARKS
D		<u>A</u> <u>C</u>	B			N +				WATE OBSEI water i	R RVATIONS: No ngress encounter
All dimens	ions		Client Axiom P Limited	roject Services	Method/ Plant Us	ed	ЈСВ ЗСХ			Logge	l By MR



Project										TI	RIAL PIT No
She Job No	eriffh			nerton Ro	ad, Lasswade,						TP04
	-115		Date 02-05	-17	Ground Level (	(III)	Co-Ordinates ()	1			
Contractor			02 03							Shee	t
Arc	Env	rironment	al Limited	[							1 of 1
1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3		A		В		C		D			Legend
<u> </u>				O.	ED A TE A				F	AADLE	
Depth	No			3.	TRATA  DESCR	IPTION			Dept		ES & TESTS Remarks/Tes
0.00-0.20	110				y silty fine to me	edium SA	ND (TOPSOIL).		- 0.10	J/D	Remarks/ 10s
0.20-3.00			own gravelly		dium SAND (GI	LACIOFL	UVIAL DEPOSI	ITS).	0.40 0.50	B CBR	2.0%
									1.20	В	
									2.20	В	
3.00		Trial Pit c	completed to	a depth of 3	3.00m.						
Shoring/S Stability:	Supp Sta	ort: ble									ENERAL EMARKS
D D		A	B T				N †			WATER OBSER water in	R VATIONS: No gress encounter
All dimen	sions e 1:46	in metres	Client A	xiom Proj imited	ect Services	Method Plant Us	sed JCB	3 3CX		Logged	By MR



Project				LIII LOC			TF	RIAL PIT No
Sherit lob No	Thall South E	ast, Gilmerton R	Ground Level (		linates ()			TP05
17-11		02-05-17		,	<b>V</b>			
Contractor				I			Shee	t
Arc E	nvironmental							1 of 1
1	A	В		C	D			Legend
			STRATA				MDIE	S & TESTS
Depth N	0	•	DESCR	PTION		Dept		Remarks/Tes
0.00-0.30		ving dark brown cla			PSOIL).			
0.30-2.60	Orange brow	n slightly gravelly	fine to medium SA	ND (GLACIOFL	UVIAL DEPOSITS).	0.20	J/D	
						0.50	CBR	2.5%
						1.00	В	
						2.00	В	
2.60	Trial Pit con	npleted to a depth o	f 2.60m.					
Shoring/Sup Stability: S	pport: table						R	ENERAL EMARKS
D D	A	B		N Å			WATER OBSER' water in	VATIONS: No gress encounter
	ns in metres C	lient Axiom Pr	oject Services	Method/			Logged	



Project											TRIAL PIT N
Sher ob No	iffh		East, Gilmerton ate	Road, Lasswade Ground Level		BD Co-Ordi	nates ()				TP06
00 NO 17-1	115		02-05-17	Stound Level	(111)	Co-Oiul					
Contractor			02 00 17							SI	neet
Arc	Env	ironmenta	l Limited								1 of 1
0 =		A	I	3	С			D	0		Legend
1-									-1		
2									2		
				STRATA						AMP:	LES & TESTS
Depth 1	No			DESCR layey silty fine to m	RIPTION				Dep	th N	No Remarks/Te
0.20-3.00				ne to medium SAN				SITS).	0.10 0.50 0.50		D B BR 3.5%
		1.40 Becon	ning slightly grave	ly					1.60		В
3.00		Trial Pit co	mpleted to a depth	of 3.00m.							
Shoring/Su Stability:	uppo Stal	ort: ole									GENERAL REMARKS
D		A	B ↓			N <del> </del>				WAT OBSI water	ER ERVATIONS: No ingress encounte
All dimensi	ions 1:46		Client Axiom I Limited	Project Services	Method/ Plant Us	ed	JCB 30	TX		Logg	ed By MR



Project												TF	RIAL PIT No
Sheri Job No	iffhal		East, Gilmerto		asswade, ind Level (i		BD Co-Ord	inates ()					TP07
17-1	115		02-05-17		,	,		V					
Contractor												Sheet	t
Arc J	Envii	ronmenta	l Limited										1 of 1
1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3		A		В		C			D			- 1	Legend
<u> </u>				STRAT	ΓΔ						AMI	PI F	S & TESTS
Depth 1	No			STITUTE	DESCRI	PTION				Dep		No	Remarks/Tes
0.00-0.20			lying dark brow							0.10		J/D	
0.20-2.00		GLACIOI	own very gravell FLUVIAL DEPC	OSITS).	iuiii SAINE	y with occ	asionai p	ockets of §	gravei	0.50 0.60	(	CBR B	5.0%
2.00		Γrial Pit te	rminated due to	collapse at a	depth of 2.0	00m.							
Shoring/Su Stability:	uppoi Unsta	rt: able											ENERAL EMARKS
D			B				N †				OB	TER SER' er ing	VATIONS: No gress encounter
All dimensi	ons in 1:46.2		Client Axion Limite	n Project Se	ervices	Method/ Plant Us	ed	JCB 3	CX		Log	ged 1	By MR



Project									TF	RIAL PIT No
		East, Gilmerto					0			TP08
Job No 17-11		Oate 02-05-17	Gro	ound Level (1	n)	Co-Ordinates	U			
Contractor		02 03-17							Shee	t
Arc E	invironmen	tal Limited								1 of 1
1	A		В		C		D			Legend
			STRA	. Т л					A MDI E	ES & TESTS
Depth N	[o		SIKA	DESCRI	PTION			Dept		Remarks/Tes
0.00-0.30		erlying dark brow	n clayey sil			ND (TOPSOIL)	).			
0.30-3.00	Orange b	rown gravelly fine	e to medium	n SAND (GL	ACIOFL	UVIAL DEPOS	SITS).	0.20	J/D CBR	5.5%
	1.50 Becc	oming light browr	ı					1.00	В	
3.00	Trial Pit o	completed to a dep	oth of 3.00m	n.				2.50	В	
Shoring/Sup Stability: S	pport:									SENERAL EMARKS
D	A	B #				N +			WATER OBSER water in	R VATIONS: No gress encountere
All dimensio	ons in metres :46.25	Client Axion Limite	n Project	Services	Method/ Plant Us	ed IC	В ЗСХ		Logged	By MR



Project						.1.7 1 1 1 1						TRIAL PIT No
She: Job No	riffh		East, Gilme		Lasswade, round Level (		BD Co-Ordi	inates ()			4	TP09
	115		02-05-1		Tourid Level (		Co-Oran	mates ()				
Contractor			02 00 1	,							Sl	heet
Arc	Env	rironment	tal Limited									1 of 1
1 - 2		A		В		C			D	0 - 1 - 1 2 - 2 2		Legend
3				STR	ATA					SA	AMP	LES & TESTS
-	No				DESCRI					Dept	h N	No Remarks/Test
0.00-0.30		Crops ove	erlying dark br	own slightly	silty SAND (	TOPSOIL)	).			0.10-0.	.20 J	/D
0.30-3.40		Orange bi	rown initially g FS).	rey mottled s	silty fine to m	edium SA	ND (GLÆ	ACIOFLU	VIAL	0.50-0.		В
										1.80-2.		В
										3.00-3.		В
3.40			completed to a	depth of 3.40	m.					<u> </u>		
Shoring/S Stability:	upp Stal	ort: ble										GENERAL REMARKS
D		A	B				N †				WAT OBS water	TER ERVATIONS: No r ingress encountere
All dimens	sions	in metres	Client Axi Lin	om Project	Services	Method/ Plant Use	ed .	JCB 30	∼v		Logg	ed By MH



Sheriffull South East, Gilmerton Road, Lasswade, EH18 IBD Joh No 17-115    Date   Date   Ground Level (m)   Co-Ordinates ()	Project					1111		200				TF	RIAL PIT No
T7-115 02-05-17 Sheet Trial Properties of the pr		eriffh			nerton Ro								TP10
Arc Environmental Limited  A B C D		_115			i-17	Ground Level (	m)	Co-Ordin	nates ()				<b></b>
A B C D Legend    C   D   Legend				02-03	-17							Shee	t
STRATA  SAMPLES & TEST  Depth No DESCRIPTION Depth No Remarks/1  Crops overlying dark brown clayey slity fine to medium SAND (TOPSOIL).  O'40-2-80 Orange brown slightly gravelly fine to medium SAND with occasional slit lenses (GLACIOFLUVIAL DEPOSITS).  3.00 B  2.80-3.50 Soft light brown clayey very sandy SILT (GLACIOFLUVIAL DEPOSITS).  3.00 B  GENERAL  REMARKS  OSSERVATIONS: Nowater ingress encoun	Arc	e Env	ironmen	al Limited	l								1 of 1
Depth No Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).  0.40-2.80 Orange brown slightly gravelly fine to medium SAND with occasional silt lenses (GLACIOFLUVIAL DEPOSITS).  0.80 B  2.80-3.50 Soft light brown clayey very sandy SILT (GLACIOFLUVIAL DEPOSITS).  3.00 B  3.50 Trial Pit completed to a depth of 3.50m.  Shoring/Support: Stability: Stable  A  D  A  A  D  C  All dimensions in metres   Client   Axiom Project Services   Method/   Logged By	1		A		В		C			D	1		Legend
Depth No Crops overlying dark brown clayey sitly fine to medium SAND (TOPSOIL).  0.40-2.80 Orange brown slightly gravelly fine to medium SAND with occasional silt lenses (GLACIOFLUVIAL DEPOSITS).  0.80 B  2.80-3.50 Soft light brown clayey very sandy SILT (GLACIOFLUVIAL DEPOSITS).  3.00 B  Shoring/Support: Stability: Stable  All dimensions in metres   Client   Axiom Project Services   Method/   Method/   Logged By	1										E		
Crops overlying dark brown clayey silty fine to medium SAND (TOPSOIL).  Orange brown slightly gravelly fine to medium SAND with occasional silt lenses (GLACIOFLUVIAL DEPOSITS).  Orange brown slightly gravelly fine to medium SAND with occasional silt lenses  O.80 B  2.00 B  3.50 Soft light brown clayey very sandy SILT (GLACIOFLUVIAL DEPOSITS).  3.00 B  Shoring/Support: Stability: Stable  A  D  A  A  D  A  A  C  All dimensions in metres   Client   Axiom Project Services   Method/   Logged By	<b>5</b> .1				S		IDELON				-		
2.80-3.50 Soft light brown clayey very sandy SILT (GLACIOFLUVIAL DEPOSITS).  3.00 B  3.50 Trial Pit completed to a depth of 3.50m.  Shoring/Support: Stability: Stable  A  D  C  All dimensions in metres   Client   Axiom Project Services   Method/   Logged By			Orange bi	own slightly	gravelly fi	ne to medium SA							
Shoring/Support: Stability: Stable  N  WATER OBSERVATIONS: N water ingress encoun  All dimensions in metres   Client   Axiom Project Services   Method/   Logged By							OFLUVIA	AL DEPOS	SITS).				
Stability: Stable  REMARKS  WATER  OBSERVATIONS: N water ingress encoun  All dimensions in metres   Client   Axiom Project Services   Method/   Logged By				completed to	a depth of 3	3.50m.							
	Stability:	Sta	ble  A					N †				WATER OBSER	EMARKS R VATIONS: No
Limited CD Series	All dimen	sions e 1:4	in metres		xiom Proj	ect Services			JCB 3C	X		Logged	By MR



Project					1111		200			Т	RIAL PIT No
She Job No	eriffh			nerton Ro	ad, Lasswade, Ground Level (		BD Co-Ordinate	20.0			TP11
	-115		Date 02-05	-17	Ground Level (	(m)	Co-Ordinate	es ()			
Contracto			02 05	1,						She	et
Are	e Env	ironmen	tal Limited								1 of 1
1		A		В		C		D			Legend
1				95					F		
Depth	No			S'.	ΓRATA DESCR	IPTION			Dept		ES & TESTS Remarks/Tes
0.00-0.45			rown initially		ey silty fine to mo			LACIOFLUVIAL	0.30-0	.40 J/D	
3.00			oming clayey	-					1.80-2 2.00-2 2.80-3	.60 B	
Shoring/	Sunn		- Completed to	и асрагог с							GENERAL
Stability	Sta	ble									REMARKS
D		A	B T				N + +			WATE OBSEI water i	R RVATIONS: No ngress encounter
All dimer	sions e 1:46	in metres	Client A	xiom Proj mited	ect Services	Method/ Plant Us	sed I	CB 3CX		Logged	l By MH
500				micu		1					



Project					1111		200			Tl	RIAL PIT No
She Job No	eriffh			nerton Roa	ad, Lasswade,			22 ()			TP12
	-115		Date 02-05	-17	Ground Level (	(m)	Co-Ordinat	es ()			
Contractor			02 03	17						Shee	et .
Arc	e Env	vironmen	tal Limited								1 of 1
1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3		A		В		C		D	-1 -2 -3		Legend
				C/I					F	4 N 4 D L I	
Depth	No			Si	TRATA DESCR	IPTION			Dep		ES & TESTS Remarks/Tes
0.00-0.20	110	Crops ove	erlying dark l	brown claye	y silty fine to me		ND (TOPSO	IL).	0.10	J/D	Remarks/ Tes
1.00-3.20			ge brown an			SILT (GI	LACIOFLUV	/IAL DEPOSITS).	1.50	В	
3.20			completed to	a depth of 3	5.20m.				2.50	В	
Shoring/S Stability:	Supp Sta	ort: ble								R	SENERAL EMARKS
D		A	B <b>T</b>				N †			WATEI OBSER water in	R VATIONS: No gress encountered
All dimer	nsions le 1:40	in metres	Client A	xiom Proj	ect Services	Method Plant Us	ed ]	JCB 3CX		Logged	By MR
~ - 44			101			1				1	



Project				11111	LIII LOG			TI	RIAL PIT No	
	riffh	nall South East, Gil							TP13	
Job No	115	Date 02-0:		Ground Level (	m) Co-Ordin	nates ()				
Contractor	113	02-0.	0-17					Shee	t	
	Env	vironmental Limite	d						1 of 1	
0		A	В		С	D	0		Legend	
1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3										
<u> </u>							Ė			
			STI	RATA					ES & TESTS	
Depth 0.00-0.50 0.50-1.60	No	Crops overlying light  Soft orange brown sa coarse of sandstone a			avelly CLAY (TOP		0.10-0. 0.30-0. 0.60-0.	20 J/D 40 B	Remarks/Tests	
1.60-3.00		1.80-2. 1.80	00 B V	7kN/m <sup>2</sup>						
3.00	3.00 Trial pit completed to a depth of 3.00m.									
Shoring/S Stability:	upp Sta	ort: ble							SENERAL EMARKS	
D		A B T			N +				R VATIONS: No gress encountered	
All dimens	sions : 1:46	in metres Client A	xiom Projectimited	ct Services	Method/ Plant Used	JCB 3CX		Logged	By MH	



environmental					IKIA	T LII	LUG							
Project												TF	RIAL PIT No	
She Job No	eriffl		East, Giln Date		d, Lasswade, Ground Level (		BD Co-Ordii	nates ()			$\dashv$		TP14	
	-115		02-05		Ground Lever (	111)	co Orun	iutes ()						
Contractor	•			I								Shee	t	
Arc	e En	vironment	al Limited										1 of 1	
2		A		В		C			D				Legend  Legend	
<u> </u>													x x x	
	T			ST	RATA								S & TESTS	
Depth 0.00-0.30	No	Crops ove	erlying light	grev brown s	DESCR andy slightly gr		AY (TOP	SOIL).		Dept		No	Remarks/Tests	
0.30-1.95		_	strength) ora		andy slightly gr	-			VIAL	0.10-0	.20	J/D		
										1.00 1.20-1	.40	V B	31kN/m <sup>2</sup>	
1.95-3.40		Soft (extre	emely low st	rength) grey	brown clayey v	ery sandy	SILT (GL	ACIOFL	UVIAL	2.00-2 2.00	2.10 B V 8kN/m <sup>2</sup>			
										2.50		V	$7kN/m^2$	
3.40		Trial pit c	ompleted to	a depth of 3.	40m.					3.10-3	.20	В		
Shoring/S	Supp	ort:											ENERAL	
Stability:	Sta	ble									***		EMARKS	
D		A	B T				N +				OB	page	VATIONS: Slight noted at a depth of	
All dimen	sions e 1:4	in metres	Client A	xiom Proje	ect Services	Method/ Plant Us		JCB 30	CX		Log	gged	By MH	
Scal	J 1			mucu		1		J C 2 3			l			



Project										TI	RIAL PIT No	
She Job No	riffh		East, Gilr	nerton Ro	ad, Lasswade, Ground Level (		BD Co-Ordinates ()			_	TP15	
	-115	1	02-05	5-17	Oround Level (	111)	Co-Ordinates ()					
Contractor										Shee	et	
Arc	Env		al Limited								1 of 1	
2		_ A_		В		C		D			Legend	
				- Or	ED A T A				<u> </u>	MDLI	EG 0 TEGTG	
Depth	No			3.	TRATA  DESCRI	IPTION			Depth		ES & TESTS  Remarks/Tests	
0.00-0.30	110	Crops ove	erlying light	grey brown			AY (TOPSOIL).		0.10-0.1		Remarks/ Tests	
0.30-1.40		Soft and f	irm (low str DFLUVIAL )	ength) orang DEPOSITS)	ge brown initially	grey mot	tled slightly sandy	CLAY	0.50	V	30kN/m <sup>2</sup>	
1.40-1.80 1.80-3.00	1.50									80 B	$58kN/m^{2}$ >120kN/m <sup>2</sup>	
3.00		Trial pit c	ompleted to	a depth of 3	3.00m.				- 2.90-3.0	00 B		
Shoring/S Stability:	Supp Sta	ort:									GENERAL EMARKS	
D		A	B T				N A			WATEI OBSER seepage 1.80m.	R VATIONS: Sligh noted at a depth o	
All dimens	sions e 1:46	in metres	Client A	xiom Proj imited	ect Services	Method/ Plant Us		3CX		Logged	By MH	



Project												TF	RIAL PIT No
She Job No	riffh		East, Gilm	erton Roa	ad, Lasswade, Ground Level (		BD Co-Ordi	nates ()			$\dashv$		TP16
	-115		02-05-	17	Stoulid Level (	,	CO-OIUI	naics ()					
Contractor			02 00									Shee	t
Arc	Env	rironment	tal Limited										1 of 1
1		A		В		С			D				Legend
3-				ST	TRATA					-3 3 	AM	PLE	S & TESTS
Depth	No				DESCR					Dep	th	No	Remarks/Test
0.00-0.20					sandy slightly gr e brown initailly				NT A X7	0.05-0	).15	J/D	
0.20-0.75		(GLACIC	FLUVIAL D	EPOSITS)	fine to medium					0.40-0 0.50 0.80-1		B V B	32kN/m <sup>2</sup>
		1.30 Becc	oming orange	brown.						1.50-1	.70	В	
2.00-3.00		Firm beco subangula	oming stiff (hi ar to rounded	igh strength	n) purple brown s rse of sandstone a	slightly sar and mudst	ndy grave one (GLA	lly CLAY CIAL TII	Gravel is LL).	2.30-2	2.50 B		
3.00		Trial pit c	completed to a	depth of 3	.00m.					2.70 2.80-3	3.00	V B	>120kN/m <sup>2</sup>
Shoring/S Stability:	Supp Sta	ort: ble											ENERAL EMARKS
D D		A	B				N †				WA	TER	t: Slight seepag a depth of 1.90r
All dimens	sions e 1:46		Client Ax	tiom Proje	ect Services	Method/ Plant Us		JCB 30			Log	ged	By MH