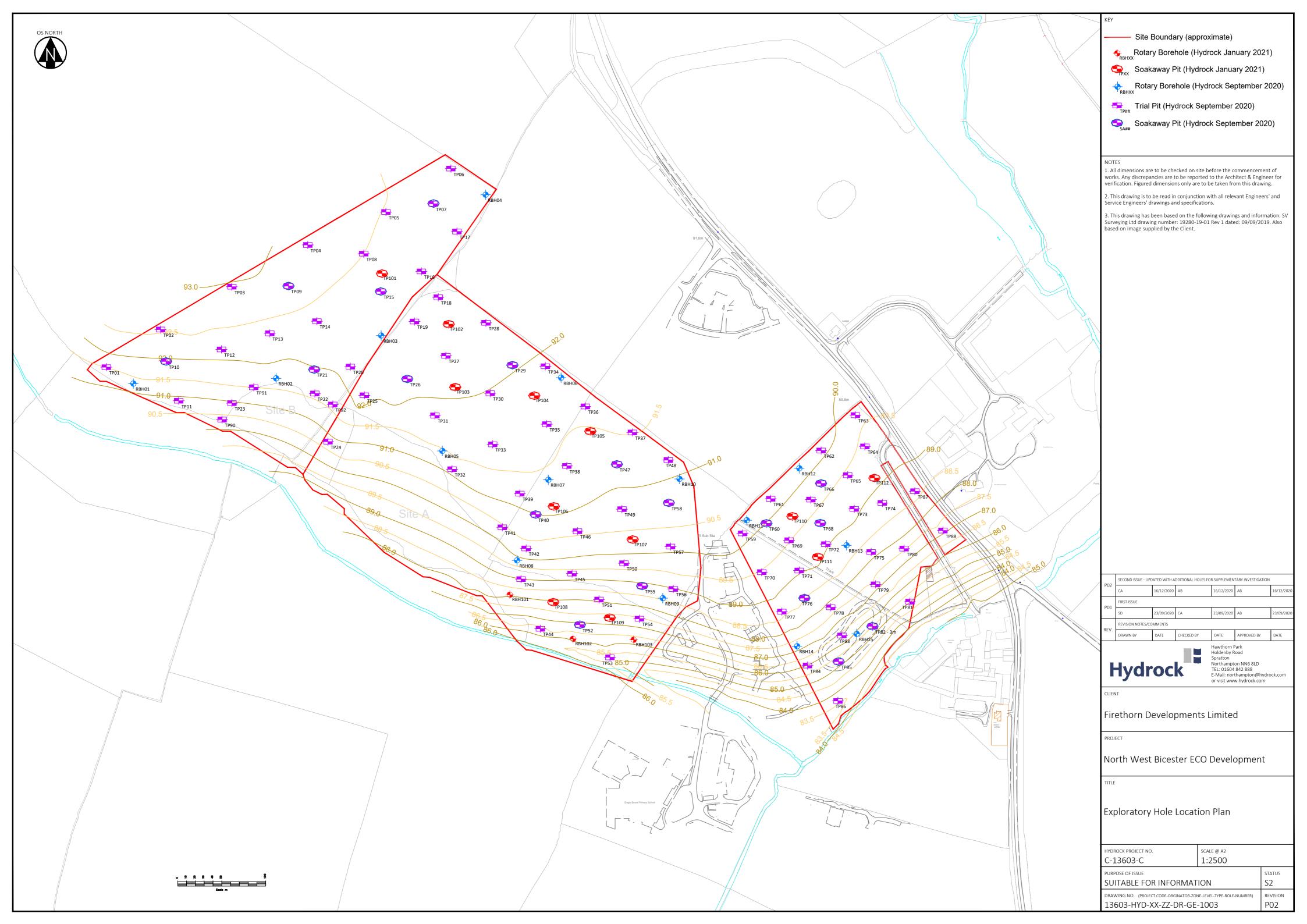


# Appendix E

Exploratory Hole Location Plan, Exploratory Hole Logs and Photographs



									orth West Bices ent	ster Eco			reho RBH			
Hyd	aro	CK			ן ן	_	اں،ں	۱۱۱-۲					je No			
Method:	: Dvna	mic Sa	mpled & Ro	tarv Core	ed [	Date(	s): 0	7/09	9/2020	Logged By: C	1	Ť			arshall D	rilling
			ster Ltd		-				10.73, 225318.39	Checked By:		F	lush	: Wa	nter	
			C-13603						91.44m OD				Scale			
Sample/Core	110,0		les / Tests	М	echani											≡
Run (m) Smpl. Ø (mm) Smpl. rec. %	Depth (m)	Туре	Results	TCR	SCR		Min If: Mean	Water- Strikes	Stratum	Description		Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
	()						Max		Soft brown organic slightly s with occasional rootlets. Gra rounded fine to coarse limes (TOPSOIL)	avel is sub-angular to		0.30	(0.30)	91.14		
1.20 - 2.00	1.20	SPT	N=28						Firm yellowish brown very g angular to sub-rounded fine (HEAD DEPOSITS)	to coarse limestone.	1 -	1.20	(0.90)	90.24	* * * * * * * * * * * * * * * * * * * *	
110mm 100% rec			(2,3,5,7,8,8)						Firm locally stiff light yellowi slightly sandy slightly gravel to sub-rounded fine to medii (CORNBRASH FORMATIO	ly CLAY. Gravel is su um limestone.	b-angular	-	(1.10)			
2.00 - 3.50	2.00	SPT	50/45mm (6,19,50)								2 -	2.30				: :
				NI Weak to moderately weak light yellowish brown LIMESTONE. Fractures are very closely spaced, hor to sub-vertical, planar smooth to undulating smooth a with local clay infill.										89.14		
														88.69		
	3.37 -	С				-			,		3.37		88.07			
3.50 - 5.00	3.49 3.50	SPT	50/42mm			-	2	-	Moderately weak light grey l very closely spaced, horizor (FOREST MARBLE FORMA		3.55	(0.18)	87.89			
			(25,50)						Very stiff greenish grey sligh (FOREST MARBLE FORMA	4 -		(0.80)				
	4.50 - 4.60	D		100	9	9			Very stiff purplish grey slight (FOREST MARBLE FORM			4.35	(0.47)	87.09		
	4.82 - 5.00	С					0		Moderately weak light grey l	I IMESTONE No frac	tures	4.82 5.00	(0.18)	86.62 86.44		
			(25,50)						Line of But	rehole at 5.00m	6 - 7 - 8 -					
								Gen	eral Remarks:		10 -					
	1	Porobo	ess and Obs		Flush	Do	turns	1. H	and dug starter to pit to 1 amic sampling from 1.20m							
Rig Da Comacc 07/ nio 205		Depth (r	le Casing Casing) Depth (m) Diam.(i	mm) Depth (m)	Flush Type Water	(co	turns lour) rey	(sea Bore mon	antic sampling from 1.20m), ehole advanced by rotary o itoring well installed to 5.0 raised cover on completio	remaining at 2.00 coring from 2.00m 0m (response zon	m after 20 to 5.00m. s	minu 5. Ga	ites. F as and	low r	ate slow. Indwater	4.
											Lo	gged in	general	accorda	nce with BS59	30:20

# Borehole No Project: North West Bicester Eco RBH02 Hydrock Development Page No. 1 of 1 Method: Dynamic Sampled & Rotary Cored Date(s): 08/09/2020 Logged By: CA Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457272.97, 225324.28 Checked By: CV Flush: Water Hydrock Project No: C-13603 Ground Level: 91.60m OD Scale: 1:50 Samples / Tests Mechanical Log Run (m) Smpl. Ø (mm) Smpl. rec. % Stratum Description Level m OD Thickr (m) RQD Туре Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-(0.30)rounded fine to coarse limestone. (TOPSOIL) Firm light yellowish brown locally mottled grey slightly (0.60) sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS) Yellowish brown clayey sub-angular to sub-rounded fine to (0.30) 1.20 1.20 - 2.00 1.20 SPT N=32 coarse limestone GRAVEL. (18,15,5,5,7) 110mm (HEAD DEPOSITS) Very stiff orangish brown locally yellowish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-100% rec (0.80) rounded fine to medium limestone. (CORNBRASH FORMATION) 2.00 - 3.50 Moderately weak light bluish grey to pale grey LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are closely spaced, horizontal, planar smooth to planar rough with local sand infill. (FOREST MARBLE FORMATION) NI 12 2.15 -2.30 С 65 C 282 -3.00 3.50 - 5.00 3.50 SPT 50/195mm Very stiff light grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-angular medium limestone. (FOREST MARBLE FORMATION) (16,6,14,30)(1.42)90 0 0 4.92 86.68 5.00 (0.08) 86.60 NI Weak light grey locally whitish grey LIMESTONE. 5.00 SPT 50/87mm Recovered as gravel sized fragments. (FOREST MARBLE FORMATION) End of Borehole at 5.00m (11, 19, 27)General Remarks: Progress and Observations 1. Hand dug starter to pit to 0.90m to check for services. Unable to hand dig through Borehole Casing Casing Water Depth (m) Depth (m) Diam.(mm) Depth (m) limestone at 0.90m.2. Borehole advanced using dynamic sampling from 0.90m to Flush Rig Type Water (colour) 2.00m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring 1345 08/09 5.00 2.15 150 from 2.00m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 2.00m to 5.00m) topped with a cast iron raised cover on completion. Logged in general accordance with BS5930:201

1.			al.					ject velo		orth West Bice	ster Eco			reho RBH			
ny	/a	ro	CK						<b>.</b>					je No			
/leth	od:	Dyna	mic Sa	mpled & R	otary Co	red	Date	e(s): 0	8/09	9/2020 - 09/09/2020	Logged By: Ca		Ť			arshall	Drilling
Clien	t: Fi	rethor	n Bice	ster Ltd			Co-c	ords: 4	1573	392.30, 225373.00	Checked By: 0	CV	F	lush	: Wa	iter	
Hydro	ock	Projed	ct No:	C-13603			Grou	und Le	evel	: 92.16m OD			5	Scale	: 1:	50	
ample/Co un (m) mpl. Ø (r	ore		Sampl	es / Tests		Mecha	anical L		Water- Strikes	Stratum	Description			Thickness (m)	- 0	Pu	# e i E
mpl. Ø (r mpl. rec.	nm) %	Depth (m)	Туре	Results	TCI	R SCF	RQD	Min If: Mean Max	Stri		·	OL AV	Depth	E (E	Level m OD	Legend	Instrum- entation / Backfill
										Soft brown organic slightly s with occasional rootlets. Gra rounded fine to coarse limes (TOPSOIL)	avel is sub-angular to stone.	sub-	0.30	(0.30)	91.86		
										Firm light yellowish brown to sandy gravelly CLAY. Grave fine to medium limestone. (HEAD DEPOSITS)				(1.00)			
.30 - 2	2.00	1.20	SPT	50/225mr (12,15,17,19				NI	•	Moderately weak light orang	gish brown locally gre	v	1.30		90.86		
					100	0	0			LIMESTONE. Recovered as (CORNBRASH FORMATIO	s gravel sized fragmer		1.75	(0.45)	90.41		
2.00 - 3	3 50									Very stiff orangish brown mo slightly gravelly CLAY. Grave		1.73		30.41			
	,.00									rounded fine to medium lime (CORNBRASH FORMATIO			-				
														(1.25)			
					100	29	0					3.00		89.16			
										Moderately weak light yellow LIMESTONE with occasional		ssil	3.00	(0.50)	89.16		
3.50 - 5	5.00	3.50	SPT	50/95mm	,			1		fragments. Fractures are ve sub-vertical, planar rough a	nd clean.	rizontal to	3.50	(0.50)	88.66		
				(18,21,29	))			NI		Very stiff dark grey slightly s (FOREST MARBLE FORMA	sandy silty CLAY.	/	1				
								2			- ,	4 -		(1.21)			
					100	19	19										
		4.71 -	С					1		Moderately weak light whitis	sh grev LIMESTONE	Fractures	4.71		87.45		
		4.81 - 5.00	С					<u> </u>		are sub-horizontal, very clos clean.	sely spaced, planar ro		5.00	(0.29)	87.16		
		5.00	SPT	50/155mr (16,20,22,						(FOREST MARBLE FORMA End of Boi	ATION) rehole at 5.00m	/					
												6 -					
													-				
												7 -	-				
												8 -					
												9 -					
													1				
													1				
			Progre	ss and Ob	servatio	15		1		eral Remarks:		10 -	1	<u> </u>			
Rig	Date	1	Boreho	le Casing Ca	sing Water	Flus		Returns	enc	land dug starter to pit to 1. ountered at 1.30m (sealed	with casing). Flow	rate slow.	3. Bo	orehol	e adv	anced	
omacc io 205	08/09		Depth (r	n) Depth (m) Diam 1.85 1	i.(mm) Depth (n 50 1.30	) Typ Wate		Grey	5.00	ry coring from 1.30m to 5.00m (response zone 1.00m							ied to
									con	npletion.							
												Le	ngged in	n generol	accordo	nce with BS	55930-2015

Hyd	lro	ck	=			Proj Dev			orth West Bice ent	ester Eco		F	reho RBH	10 <sup>2</sup>	ļ		
Method:			d			Doto/	۵)، ۵	0/00	)/2020	Logged By: C		Ť	e No		of 1 arshall l	Orilling	
Client: F		-							511.03, 225533.07	Checked By: 0		-	lush			Jilling	
Hydrock									92.18m OD	Official By: V		-	Scale				
	1 10,00		es / Tests	М								`		, , ,		=	
Sample/Core Run (m)	Depth (m)	Туре	Results	TCR	SCR	RQD	Min If: Mean	Wate	Stratur	m Description		Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill	
0.70 - 1.20	(111)						Max		Soft brown organic slightly occasional rootlets. Grave fine to coarse limestone. (TOPSOIL) Firm light yellowish brown sandy gravelly CLAY. Grav	el is sub-angular to sub- locally mottled grey sliq vel is sub-angular to su	rounded -	0.30	(0.30)	91.88			
110mm 100% rec 1.20 - 2.00	1.20	SPT	50/30mm				NI	•	fine to medium limestone. (HEAD DEPOSITS) Moderately weak light grey LIMESTONE. Recovered a	y mottled orangish brov as gravel sized fragmei			(1.00)				
			(11,13,50)	100	5	0	7	-	(CORNBRASH FORMATI)  Moderately weak light grey	,	vn _	1.70		90.48			
2.00 - 3.50	2.00	SPT	50/95mm (9,13,21,29)				NI		LIMESTONE. Fractures at very closely spaced, undu local clay infill. (CORNBRASH FORMATION)	re horizontal to sub-hor lating rough, mostly cle	izontal, -		(0.70)				
				77	0	Stiff orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium (0.40) (1											
3.50 - 5.00	3.50	SPT	50/30mm						Very stiff bluish grey slight CLAY. Gravel is sub-round and limestone.  (FOREST MARBLE FORM	tly sandy slightly gravell ded fine to medium muc	ly silty 3 –		(1.20)				
	4.00 - 4.12	С	(10,50)				3		Moderately weak light gre		es are .	4.00		88.18			
	4.13 - 4.23 4.23 - 4.52	C C		97	42	42		-	closely spaced, horizontal (FOREST MARBLE FORM Very stiff bluish grey slight CLAY. Gravel is sub-round	MATION) tly sandy slightly gravell	y silty	4.52	(0.52)	87.66			
	4.88 - 5.00	С					0		and limestone. \(\( (FOREST MARBLE FOR\)\)\\ \( Moderately weak light grev	MATION)	5/Z	4.88 5.00	(0.12)	87.30 87.18	 I I		
	5.00	SPT	50/12mm (18,50)						(FOREST MARBLE FORM		6						
	!		ss and Observa						Chiselling 1. F	neral Remarks: land dug starter to p							
Rig Date Comacc 09/0 hio 206		Depth (r	e Casing Casing Diam.(mm) D	Water epth (m) 1.10	Flush Type Water	(cc	turns lour) rey	Fro (m	) (m) (HH:MM) adv Gro Flov 1.20 inst	able to hand dig thro ranced using dynami bundwater was encou w rate slow.4. Boreh 0m to 5.00m. 5. Gas alled to 5.00m (resp ast iron raised cover	c sampling untered at ole advanc and groun onse zone on comple	fron 1.10 ed b dwa 0.50 tion.	n 0.70 m (sea y rota ter mo m to !	im to aled v ry coi onitori 5.00m	1.20m. vith cas ing fro ng wel toppe	3. sing). m ed with	
HoleBASE SI - H		_		1							Log	ged in	general a	ccordan	e with BS	930:2015	

Hyd	Iro	ck				Proj Dev			orth West Bices ent	ster Eco			reho RBH			
		CIV								T		Pag	je No	). 1 d	of 1	
Method:	Rotar	y Core	d			Date(	s): 1	6/09	0/2020	Logged By: C	A		rilled	Зу: М	arshall	Drilling
Client: F	irethor	n Bices	ster Ltd			Co-or	ds: 4	574	61.83, 225241.80	Checked By: 0	CV	F	lush	: Wa	ater	
Hydrock	Projec	t No: C	C-13603			Grour	nd Le	evel:	91.67m OD				Scale	e: 1:	50	
iample/Core Run (m)	Depth (m)	Sample	es / Tests Results	TCR	scr	RQD	Min If: Mean Max	Water- Strikes	Stratum	Description		Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
).60 - 1.20  10mm  00% rec									Soft brown organic slightly g occasional rootlets. Gravel is fine to coarse limestone. (TOPSOIL) Firm light yellowish brown lo sandy gravelly CLAY. Gravel fine to medium limestone.	s sub-angular to sub- ocally mottled grey sli	rounded ghtly	0.30	(0.30)	91.37		
1.20 - 2.00	1.20	SPT	N=28 (1,2,1,8,8,11)	50	0	0	NI		(HEAD DEPOSITS) Medium dense light orangist clayey sub-angular to sub-ro (HEAD DEPOSITS)			-	(1.40)			
2.00 - 3.50				100	59	25	18		Stiff light orangish brown mo slightly gravelly CLAY. Grave rounded fine to medium lime (CORNBRASH FORMATIO) Moderately weak light yellow LIMESTONE with occasiona fragments. Fractures are hot closely spaced, planar rough with local sand infill. (CORNBRASH FORMATION with a sub-vertical in the slightly with a sub-vertical in the slightly with a sub-vertical in the slightly significant provides the slightly significant provides the slightly significant provides the slightly slig	grey ssil ntal, very , clean 3 -	2.50	(0.50)	89.67			
3.50 - 5.00	3.50 3.96 - 4.06 4.22 - 4.32 4.33 - 4.50 4.70 - 5.00 5.00	C C C SPT	50/18mm (13,50)	97	26	20	3		2.90m. Very stiff dark bluish grey slif CLAY. Gravel is sub-angular medium mudstone and lime: (FOREST MARBLE FORMAVery stiff grey slightly sandy sized shell fragments. (FOREST MARBLE FORMAEXTEMENT) Extremely weak light grey Llight grey CLAY. (FOREST MARBLE FORMAMOderately weak light grey Very Very CLAY.	to sub-rounded fine stone. ATION) CLAY with rare fine (ATION) IMESTONE grading that	gravel  o very stiff	4.00	(0.50) (0.50) (0.20) (0.30)	87.67 87.17 86.97		
			(9,12,17,33)						(FOREST MARBLE FORMA End of Bor	ehole at 5.00m	6 - 7 - 8 - 9 -					
		Progre	ss and Observa	ations	•					ral Remarks: nd dug starter to p	it to 0.60m	to c	heck	or se	rvices.	
Rig Date omacc io 206		Borehold Depth (m 5.00	e Casing Casing Diam.(mm) Diam.(mm) D	Water epth (m)	Flush Type Water	(cc	turns olour) eam	Froi (m	m To Duration (HH:MM) advar Groui rotary monit	le to hand dig thro nced using dynami ndwater was not ey 'c coring from 1.20r toring well installed n) topped with a ca	ugh limest ic sampling ncountered n to 5.00m I to 3.00m ast iron rais	one a g fror d.4. E i. 5. ( (resp sed o	at 0.60 m 0.60 Boreho Bas al bonse cover o	Om.2. Om to ole ac ond gro zone on co	Boreh 1.20m dvance oundwa 1.00m mpletic	ole . 3. d by ater i to on.
oleBASE SI - H	vdrock Comb	ined Drilling	Template v3								Log	gged in	general a	ccordar	ice with BS	5930:2015

## Borehole No Project: North West Bicester Eco RBH06 Development Hydrock Page No. 1 of 1 Method: Rotary Cored Date(s): 16/09/2020 Logged By: CA Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457596.76, 225325.11 Checked By: CV Flush: Water Hydrock Project No: C-13603 Ground Level: 91.72m OD Scale: 1:50 Samples / Tests Mechanical Log ROD It. Mean Wax Stratum Description Level m OD Thickr SCR Туре Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded (0.40)fine to coarse limestone. 0.40 - 1.20 (TOPSOIL) Firm light orangish brown and grey very gravelly CLAY. 110mm 100% rec Gravel is sub-angular to sub-rounded fine to coarse (0.80) limestone. (HEAD DEPOSITS) N=33 (2,3,7,6,9,11) 1.20 - 2.00 1.20 SPT NI Dense light orangish brown and grey slightly clayey sub angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS) (0.45) 100 0 0 Stiff locally very stiff light orangish brown and mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. 2.00 - 3.50 (CORNBRASH FORMATION) , with a band of fine to medium mudstone gravel between 1.90m to 2.00m. 100 Very weak light grey mottled orangish brown LIMESTONE. 29 Fractures are extremely closely spaced, vertical to horizontal, undulating rough and with a clayey sand infill. (CORNBRASH FORMATION) (0.88) 3.50 - 5.00 3.50 SPT 50/12mm (11,50)С 3.73 -Moderately weak dark grey LIMESTONE. Fractures are 3.88 very closely spaced, horizontal, planar rough, mostly clean with local clay infill. (0.37) 3 88 -С 4.10 4.00 (FOREST MARBLE FORMATION) 4.00 -С 100 25 25 Very stiff dark bluish grey slightly sandy slightly gravelly CLAY with rare shell fragments. Gravel is sub-angular to 4.10 (0.90) sub-rounded fine to medium mudstone and limestone. 4.60 -D (FOREST MARBLE FORMATION) 4.70 50/108mm 5.00 SPT End of Borehole at 5.00m (7,11,19,31)General Remarks: Progress and Observations Chiselling 1. Hand dug starter to pit to 0.40m to check for services. Unable to hand dig through limestone at 0.40m.2. Borehole advanced using dynamic sampling from 0.40m to 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 4.00m (response zone 1.00m to 4.00m) topped with a cast iron raised cover on completion. Rig Type Water (colour) (m) 1310 16/09 HoleBASE SI - Hydrock Combined Drilling Template v3

## Borehole No Project: North West Bicester Eco RBH07 Development Hydrock Page No. 1 of 1 Method: Rotary Cored Date(s): 15/09/2020 Logged By: CA Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457582.33, 225209.08 Checked By: CV Flush: Water Hydrock Project No: C-13603 Ground Level: 91.44m OD Scale: 1:50 Samples / Tests Mechanical Log ROD It. Mean Wax Stratum Description Level m OD Thickr (m) SCR Туре Soft brown organic slightly gravelly sandy CLAY with (0.30)occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL) Firm light yellowish brown locally mottled grey slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (0.90)(HEAD DEPOSITS) 1.20 - 2.00 1.20 SPT 50/195mm NI Moderately weak light orangish brown and grey (5.10.15.17.18) LIMESTONE. Recovered as gravel sized fragments. (CORNBRASH FORMATION) 88 0 0 (0.80) 2.00 - 3.50 Stiff orangish brown and grey slightly sandy slightly gravelly CLAY with occasional silt partings. Gravel is subangular to sub-rounded fine to medium limestone and (0.64) (CORNBRASH FORMATION) Moderately weak light grey stained orangish brown and with local black flecks LIMESTONE. No fractures. (CORNBRASH FORMATION) (0.06)93 2.86 ΝI Firm orangish brown and grey CLAY. (CORNBRASH FORMATION) Weak to moderately weak light grey locally stained (0.64 orangish brown and with local black flecks LIMESTONE. Fractures are horizontal to vertical, extremely closely 3.50 - 5.00 3.50 SPT 50/87mm (16,9,25,25)spaced, undulating rough and clean. ((CORNBRASH FORMATION) Moderately weak pale grey locally orangish brown С (0.50) 3.68 -3.80 LIMESTONE. Fractures are horizontal, very closely spaced, undulating rough and clean. (FOREST MARBLE FORMATION) (0.45) 100 27 15 4.48 -С Very stiff greenish grey and orangish grey slightly sandy (0.25) 4.58 slightly gravelly CLAY. Gravel is sub-angular to sub-4.70 rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION) (0.30)Moderately weak light grey LIMESTONE. Fracture is sub-horizontal, undulating rough and clean. (FOREST MARBLE FORMATION) Very weak dark grey MUDSTONE grading to very stiff 5.00 5.00 SPT 50/155mm (6,11,16,15,19) (FOREST MARBLE FORMATION) End of Borehole at 5.00m General Remarks: Progress and Observations Chiselling 1. Hand dug starter to pit to 1.20m to check for services. 2. Duration (HH:MM) Groundwater was not encountered.3. Borehole advanced by Rig rotary coring from 1.20m to 5.00m. 4. Gas and groundwater Type Water (colour) (m) (m) 1630 15/09 monitoring well installed to 4.50m (response zone 1.00m to 4.50m) topped with a cast iron raised cover on completion.

Hydrock T											orth W	est B	ices	ster E	СО			reho RBH			
Hy	dro	cl	<					υev	el0	μm	ent							K D F Je No			
Method	l: Rot	arv C	orec	<u> </u>				Date(	s): 1	5/09	9/2020			Logged	Bv: C	L A	T			arshall I	Orilling
Client:							-				546.71, 2	 25117.3		Checke			F	lush	: Wa	ter	
Hydroc	k Proj	ect N	lo: C	-13603				Groui	nd Le	evel	: 90.33m	OD					,	Scale	e: 1:	50	
Sample/Core				s / Tests		N	lechan	ical Lo	og	er-								ssau		ъ	કે દ∰
Run (m)	Depti (m)	Ту	ре	Resu	ults	TCR	SCR	RQD	Min If: Mean Max	Wat				Descriptio			Depth	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
0.80 - 1.20 110mm 100% rec 1.20 - 2.00				N	27						occasional fine to coa (TOPSOIL Firm orang	gish brown ub-angular	Gravel is ne.	sub-angul	ar to sub-	rounded	0.30	(0.30)	90.03		
1.20 - 2.00	1.20	Si	PT	N=3 (2,0,7,9,		100	13	0	5	-		y weak ligh				·	-1.75	(0.25)	88.58		
2.00 - 3.50									NI 29	-	very closel (CORNBR Weak light Fractures	NE. Fractur ly spaced, p ASH FORM orangish bare horizon andulating ro	planar r MATION prown au Ital to su	ough and o l) nd grey LIN ub-vertical,	lean. MESTONE extremely	E. y closely	2.50	(0.50)	88.33 87.83		
	2.85 3.00 3.00 3.18	- 0				100	33	22		-	infill. (CORNBR Moderately LIMESTON very close	ASH FORM y weak light NE. Fractur ly spaced, p an with loca	MATION t grey lo es are l planar r	l) ocally staine norizontal to ough to un	ed orangis o sub-hor	sh brown <sub>3</sub>	3.30	(0.80)	87.03		
3.50 - 5.00	3.50	SF	PT	50/248 (6,9,11,1							\(\( (FOREST\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MARBLE F rish brown I MARBLE F ark bluish o vel is sub-a	ORMA locally g ORMA grey slig	TION) grey slightly TION) ghtly sandy	slightly g		3.50	(0.20)	86.83		
	4.30 5.00		c			100	47	47	NI 0		(FOREST Moderately orangish b (FOREST	MARBLE F y weak ligh rown LIME MARBLE F ecovered a	t grey s STONE ORMA	tained redo . No fractu TION)	res.		/.	(0.85)			
	5.00		PT	50/10 (11,13	3,50)								nd of Bore	n 4.30m an					85.33		
•		me Bo	orehole	Casing Depth (m) I	Casing	Water	Flush Type Water	(cc	turns olour) ream	From (m		Duration (HH:MM)	1. Har Unabladvan Groun rotary monito	ral Remar nd dug sta e to hand iced using idwater w coring fro oring well i) topped	arter to p dig thro dynami as not el om 1.20n installed	ugh limes ic samplin ncountere n to 5.00r I to 5.00m	tone a g fror d.4. E n. 5. ( resp	at 0.70 n 0.70 Boreho Gas an bonse	Om.2. Om to ole ac nd gro zone	Boreho 1.20m. vanceo undwa 1.00m	3. I by ter to
																L	ogged in	general a	accordan	ce with BS5	930:2015

			-						orth West Bi	cest	er Eco			reho			
Hy	dro	ck				Dev	elo)	pm	ent					RBH			
			. ا			Data	(-). 1	C/00	V2020		anned Dur C		Ť	e No		of 1 arshall l	D.::111:
Method			ster Ltd						9/2020 712.34, 225074.37		ogged By: C/ Checked By: 0		_	lush			Jrilling
										/ (	лескей бу. С	۷ V	-	Scale			
пушос	Projec		C-13603 les / Tests		Macha			_	: 88.47m OD				`` T		<del>)</del> . I.		
Sample/Core Run (m)	Depth (m)	Туре	Results	TCR	1	RQD	Min If: Mean	Water	Stra	atum De	escription		Depth	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
0.60 - 1.20 110mm							Max		Soft brown organic slig occasional rootlets. Gra fine to coarse limeston (TOPSOIL) Firm orangish brown sl is sub-angular to sub-re	avel is s ie. lightly sa	ub-angular to sub-	rounded /. Gravel	0.30	(0.30)	88.17		
100% rec									(HEAD DEPOSITS)			1 :	1.20	, ,	87.27		
1.20 - 2.00	1.20	SPT	N=21 (3,8,5,6,4,6	0	0	0			No recovery. (HEAD DEPOSITS)				1.20	(0.80)	87.27	key key ncorrectincorrect key key ncorrectincorrect key key	
2.00 - 3.50							NI		Very weak light grey sta Recovered as gravel si			ESTONE.2	2.00		86.47	key key ncorrectincorrect	
				33	5	0			(FOREST MARBLE FO					(1.20)			
												3 -	3.20		85.27		
3.50 - 4.10	3.50	SPT	50/245mm (12,13,17,10,1		0	0	3 NI	-	Moderately weak light of LIMESTONE with occasion fragments. Fractures at spaced, undulating roul (FOREST MARBLE FO	asional fi are horizo ugh with	ne gravel sized fos ontal to vertical, ve sand infill.	ssil	3.50	(0.30)	84.97		
4.10 - 5.00				100		-	NI		Moderately weak light of LIMESTONE. Recovery (FOREST MARBLE FO	grey loc red as gr ORMATI	ally stained reddish ravel sized fragmer ON)	nts. 4	4.10	(0.60)	84.37		
	4.37 - 4.54 4.54 - 4.65 4.67 -	с с с		100	86	69	8		Moderately weak locall reddish brown LIMEST sized fossil fragments. vertical, closely to med smooth and clean. (FOREST MARBLE FO	rONE wi Fracture dium spa	th occasional fine ones are horizontal located, planar rough	gravel cally sub-	5.00	(0.90)	83.47		
	5.00	SPT	50/160mm (15,13,18,1							fill at 4.44	7m.						
٠	Time /09 1930	Borehol Depth (r	ess and Obs  Casing Casing Depth (m) Diam.  2.00 15	ing Water (mm) Depth (m)	Flush Type Wate	e (c	eturns olour) ream	Fro (m	To Duration (HH:MM) a	1. Hand Unable advance Ground rotary c monitor	I Remarks: I dug starter to pi to hand dig througed using dynami water was not er oring from 1.20n ing well installed topped with a ca	ugh limest c sampling ncountered n to 5.00m l to 5.00m	one a g fror d.4. E n. 5. ( (resp	at 0.60 n 0.60 Boreho Gas ar bonse	Om.2. Om to ole ac nd gro zone	Boreho 1.20m. vanceo undwa 1.00m	3. d by iter to
												Lo	gged in	general a	ccordan	ce with BS	5930:2015

			I.		I	Proj	ect	: N	orth W	est B	ices	ter Eco			reho			
Нус	dro	ck							ent					F	RBH	<del>1</del> 10	)	
, (	410	CIN												Pag	je No	o. 1 d	of 1	
Method	: Rota	ary Core	ed			Date(	(s): 1	7/09	/2020			Logged By:	CA		rilled	By: M	arshall I	Orilling
Client: I	Firetho	rn Bice	ester Ltd		(	Co-oı	rds: 4	1577	31.33, 2	25210.0	)1	Checked B	y: CV	F	lush	: Wa	ter	
Hydrocl	( Proje	ect No:	C-13603		(	Grou	nd Le	evel:	90.67m	OD					Scale	e: 1:	50	
Sample/Core Run (m)	Depth	<del> </del>	les / Tests	_	/lechan	RQD	og Min	/ater- trikes		Str	atum [	Description		를 를	Thickness (m)	el OC	Legend	Instrum- entation / Backfill
	(m)	Туре	Results	TCR	SCR	RQD	If: Mean Max	> w	Soft brown			avelly sandy CL		- De de	Ή. E	Level m OD	ře VVVVV	Inst ent / Be
									fine to coa	rse limesto		sub-angular to s	sub-rounded	0.40	(0.40)	90.27		
									(TOPSOIL Weak light		rown ar	nd grey LIMEST	ONE.	4				
									(CORNBR	ASH FORM	MATION	)	1				$\perp$	
1.20 - 2.00	1.20	SPT	50/187mm (9,14,16,16,18)				NI								(1.50)		$\Box$	
			(9,14,10,10,10)	88	5	0											+	
														1.90	(0.10)	88.77		
2.00 - 3.50							5					andy slightly gra rounded fine to r		2.00	(0.10)	88.67		
						\(\begin{align*} \lambda(CORNBRASH FORMATION) \\   \begin{align*} \lambda(CORNBRASH FORMATION) \\   \begin{align*} \lambda \text{document} \lambda \text{document} doc								2.57	(0.57)	88.10	$\Box$	
				100	17	orangish brown LIMESTONE. Fractures are horizontal to sub-horizontal, very closely spaced, undulating rough an with clay infill.								2.77	(0.20)	87.90	<del>-</del>	
						with clay infill. (CORNBRASH FORMATION) Weak light yellowish brown LIMESTONE interbedded with							shoddod with	3.00	(0.23)	87.67		
						Weak light yellowish brown LIMESTONE interbedded with bands of firm light yellowish brown slightly sandy CLAY. (CORNBRASH FORMATION)								3.20	(0.30)	87.47	П	
3.50 - 5.00	3.50	SPT	50/75mm (25,50)			(CORNBRASH FORMATION) Stiff dark bluish grey slightly sandy CLAY. (FOREST MARBLE FORMATION)								3.50		87.17		۰
									Extremely		grey Ml	below 2.90m. JDSTONE. Reco	overed as					
				57	0	0			(FOREST Moderately	MARBLE F y weak light	ORMAT t grey lo	cally stained ora			(1.50)			
									fragments.	Fractures	are sub	fine gravel sized						
									(FOREST	aced, undul MARBLE F ark grey sli	ORMAT							
	5.00	SPT	50/225mm (11,12,12,12,26)				-		(FOREST	MARBLE F	ORMA	ΓΙΟΝ) hole at 5.00m	5	5.00		85.67	<u> </u>	
													6	-				
													7	-				
													8	-				
													9	-				
														}				
													10	-				
	1	Progre	ess and Obser	/ations	 S		<u> </u>		Chiselli	ina		al Remarks:				<b>.</b>		
Rig Da	ite Tin	Boreho	ole Casing Casing	Water	Flush		eturns	From	m To	Duration	Unable	nd dug starter t e to hand dig t	hrough limes	tone a	at 0.40	0m.2.	Boreho	
Comacc 17		Depth (	(m) Depth (m) Diam.(mm) 1.20 150	Depth (m)	Type Water		olour) vn/grey	(m)	) (m)		1.20m	ced using ope . 3. Groundwa	ter was not e	ncou	ntered	1.4. B	orehole	.
											ground	ced by rotary of dwater monitor to 3.50m) top	ing well insta	lled t	o 3.50	m (re	sponse	
											compl		peu wiii1 a Ca	ot 110	ıı ıdlS	eu co	v <del>e</del> i UII	
													Lo	gged in	general a	accordan	ce with BS5	5930:2015

## Borehole No Project: North West Bicester Eco RBH11 Development Hydrock Page No. 1 of 1 Method: Rotary Cored Date(s): 10/09/2020 Logged By: CA Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457807.86, 225163.02 Checked By: CV Flush: Water Hydrock Project No: C-13603 Ground Level: 90.14m OD Scale: 1:50 Samples / Tests Mechanical Log ROD It. Mean Wax Stratum Description Level m OD Thickr (m) SCR Туре Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded (0.40)fine to coarse limestone. 0.40 (COPSOIL) Weak light orangish brown and grey LIMESTONE. Recovered as gravel sized fragments. (CORNBRASH FORMATION) (1.20) 1.20 - 2.00 1.20 SPT 50/225mm NI (5.8.10.17.23) 100 0 0 Stiff orangish brown and light grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (0.60) 2.00 - 3.50 (CORNBRASH FORMATION) Firm dark grey stained orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to subrounded fine to medium limestone (FOREST MARBLE FORMATION) 100 ..... becoming stiff below 2.60m. (1.30) .... becoming very stiff below 2.90m 86.64 (0.08) 86.56 (0.12) 86.44 3.50 - 5.00 3.50 SPT 50/115mm Moderately weak grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION) Stiff dark grey slightly sandy CLAY. (FOREST MARBLE FORMATION) 0 (10,12,25,25)3.70 (0.15) 3.85 D 4.00 Stiff light grey slightly sandy CLAY. (FOREST MARBLE FORMATION) (0.65) 100 10 0 Very stiff dark greenish grey slightly sandy slightly gravelly CLAY with occasional fine gravel sized shell fragments. Gravel is sub-angular to sub-rounded fine mudstone. (0.12) (FOREST MARBLE FORMATION) Stiff dark grey CLAY. (FOREST MARBLE FORMATION) (0.28) (0.10) 5.00 SPT 50/225mm Stiff light grey slightly sandy CLAY. (FOREST MARBLE FORMATION) Extremely weak light grey LIMESTONE. Fracture is horizontal, undulating, rough and clean. (FOREST MARBLE FORMATION) End of Borehole at 5.00m (11,14,15,17,18) General Remarks: Progress and Observations Chiselling 1. Hand dug starter to pit to 0.40m to check for services. Unable to hand dig through limestone at 0.40m.2. Borehole advanced using open hole drilling (with casing) from 0.40m to Rig Type Water (colour) (m) 1615 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and 10/09 groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.

Hyd	dro	ck				Proj Dev			orth West Bice ent	ster Eco			reho RBH			
								- 10.5		l		Ť	e No			
Method		•							9/2020 - 10/09/2020	Logged By: C		+			arshall l	Orilling
Client: F									867.47, 225222.09	Checked By: 0	SV	+	lush			
Hydrock	( Proje		C-13603	1					: 90.12m OD				Scale	9: 1:	50	
Sample/Core Run (m)	Depth	Type	es / Tests Results	TCR	scr	RQD	Min If: Mean	Water- Strikes	Stratum	Description		Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
	(m)	Туре	rtesuits	TOIL	JOIN	NQD	Max		Soft brown organic slightly			ĞΕ		3 5		= 5 = 1
									occasional rootlets. Gravel fine to coarse limestone. (TOPSOIL) Weak light grey and orangis Recovered as gravel sized	sh brown LIMESTONE fragments.		0.40	(0.40)	89.72		19 <u>18</u>
1.20 - 2.00	1.20	SPT	50/87mm						(CORNBRASH FORMATIC	DN)	1 <del>-</del>		(1.00)			
1.20 - 2.00	1.20	581	(6,8,15,35)				NI 10		Moderately weak light grey	and orangish brown		1.40		88.72		
2.00 - 3.50				100	20	0			LIMESTONE with occasion fragments. Fractures are ve spaced spaced, horizontal mostly clean with locally sa	al fine gravel sized for ery closely to extremel to vertical, undulating	y closely ·	2.00	(0.60)	88.12		
				100	0	0			\((CORNBRASH FORMATIC Very stiff light grey and oran slightly gravelly CLAY. Grav rounded fine to medium lim (CORNBRASH FORMATIC	ngish brown slightly sa vel is sub-angular to so estone.	nndy ub-		(1.00)			
				100	Ü	Ü			Very stiff light grey slightly s Gravel is sub-angular to sul mudstone. (FOREST MARBLE FORM.	b-rounded fine to med		3.00	(0.50)	87.12 86.62		
3.50 - 5.00	3.50	SPT	50/115mm (8,12,17,33)				4		Moderately weak light grey horizontal, very closely spa	LIMESTONE. Fractur			(0.30)			
				100	7	0			(FOREST MARBLE FORM Very stiff dark grey slightly s Gravel is sub-angular to su (FOREST MARBLE FORM	ATION) sandy slightly gravelly b-rounded fine mudsto	CLAY. 4	3.80	(1.20)	86.32		
	5.00	SPT	50/107mm						F-4-460.	orehole at 5.00m	<del>5</del> -	5.00		85.12		
			(10,13,19,31)						Con		6					
ı			ss and Observa					_	Chiselling 1. Ha	eral Remarks: and dug starter to p ole to hand dig thro						
Rig Da Comacc 09/ hio 212 Comacc 10/ hio 213	09 181	5 1.20		Water Depth (m)	Flush Type Water Water	· Cr	turns blour) eam m/grey	Fro (m	) (m) (HH:MM) adva 1.200 adva grou 2.000	ole to hand dig thro inced using open h m. 3. Groundwater inced by rotary cori ndwater monitoring m to 5.00m) topped pletion.	ole drilling was not er ng from 1.2 well instal I with a cas	(with ncour 20m led to st iro	casir ntered to 5.0 o 5.00 n raise	ng) fro I.4. B Om. 5 Im (re ed co	om 0.40 orehole 5. Gas a esponse ver on	om to and e zone
HoleBASE SI -	Lludraalı Cam	hinad Drilling	Templete v2					_			LOG	Men IU	yeneral a	ocordan	ce with BS	JJUU.ZU15

# Borehole No Project: North West Bicester Eco Hydrock RBH13 Development Page No. 1 of 1 Method: Rotary Cored Date(s): 10/09/2020 - 11/09/2020 Logged By: CA Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457921.10, 225134.58 Checked By: CV Flush: Water Hydrock Project No: C-13603 Ground Level: 88.56m OD Scale: 1:50 Samples / Tests Mechanical Log Stratum Description RQD If: Mear Level m OD SCR Ξ Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded (0.50) fine to coarse limestone. (TOPSOIL) Weak to moderately weak light grey and orangish brown LIMESTONE. Recovered as gravel sized fragments. (CORNBRASH FORMATION) (1.10) 1.20 - 2.00 1.20 SPT 50/225mm NI (10.12.15.18.17) 75 0 0 Firm locally stiff orangish brown and mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (0.40) 2.00 - 3.50 (FOREST MARBLE FORMATION) NI 38 Moderately weak light grey locally stained orangish brown LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal to vertical, extremely closely spaced, planar rough to undulating rough, mostly clean with local clay infill. (FOREST MARBLE FORMATION) 100 20 3.50 - 5.00 3.50 SPT 50/225mm Very stiff dark grey slightly sandy slightly gravelly CLAY with rare fine gravel sized shell fragments. Gravel is sub-(12,12,18,20,12)angular to sub-rounded fine mudstone and limestone. (FOREST MARBLE FORMATION) 100 0 0 (1.50)83.56 5.00 SPT N = 50End of Borehole at 5.00m (10,12,11,15,15,9) General Remarks: Progress and Observations Chiselling 1. Hand dug starter to pit to 0.50m to check for services. Unable to hand dig through limestone at 0.50m.2. Borehole advanced using open hole drilling (with casing) from 0.50m to Borehole Casing Casing Water Depth (m) Depth (m) Diam.(mm) Depth (m) Flush Rig Type (colour) (m) 1920 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and 10/09 3 50 1.20 150 1045 5.00 11/09 1.20 150 Water Brown groundwater monitoring well installed to 5.00m (response zone nio 213 1.00m to 5.00m) topped with a cast iron raised cover on completion.

Hyd	lro	ck				Proj Dev			orth West Bicester Eco ent		R	reho RBH	<del> </del> 114	1		
Method:	Rotar	v Core	ed			Date(	s): 1:	2/09	/2020 Logged By:		Ť	e No		arshall	Drilli	na
Client: F		-							64.94, 225019.84 Checked B		+	lush				g
			C-13603						87.41m OD		÷	Scale				$\dashv$
rryurock	1 TOJCC		les / Tests	M		nical Lo			07.41111		ш,		, I.·		Ι	_
Sample/Core Run (m)	Depth (m)	Туре	Results	TCR	SCR		Min If: Mean Max	Water- Strikes	Stratum Description		mbgl	Thickness (m)	Level m OD	Legend	Instrum-	/ Backfil
1.20 - 2.00	1.20	SPT	50/192mm				NII		Soft brown organic slightly gravelly sandy CL occasional rootlets. Gravel is sub-angular to a fine to coarse limestone. (TOPSOIL) Firm orangish brown slightly sandy gravelly Clis sub-angular to sub-rounded fine to medium (HEAD DEPOSITS) Weak light grey and orangish brown LIMEST Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	LAY. Gravel limestone.	.30	(0.30)	87.11 86.81			
			(8,15,19,17,14)	100	5	0	NI		,		90		95.61			
2.00 - 3.50							NI		Very stiff light brown and grey slightly sandy s gravelly CLAY. Gravel is sub-angular to sub-r medium limestone. (FOREST MARBLE FORMATION)	lightly punded fine to	.80	(0.20)	85.41 85.41			
				100	0	0			Weak light grey locally stained yellow and ora locally black LIMESTONE with rare fine grave fragments and rare mudstone gravels. Recov gravel sized fragments.  (FOREST MARBLE FORMATION) Stiff grey locally stained orangish brown slightly gravelly CLAY with occasional fine grayshell fragments. Gravel is sub-angular to sub-	ered as  tly sandy avel sized	.40	(1.10)	85.01			
3.50 - 5.00	3.50 4.00 -	SPT C	50/160mm (9,11,15,15,20)				NI		to medium limestone and mudstone. (FOREST MARBLE FORMATION) Stiff dark grey locally mottled orangish brown slightly gravelly CLAY. Gravel is sub-angular rounded fine to medium mudstone and limest (FOREST MARBLE FORMATION)	slightly sandy o sub-	.50	(0.50)	83.91			
	4.49 - 4.64 4.70 - 4.90	C		80	66	63	4		(FOREST MARBLE FORMATION) Weak light grey stained orangish brown LIME Recovered as gravel sized fragments. (FOREST MARBLE FORMATION) Moderately weak light grey locally yellow LIM occasional fine gravel sized fossil fragments. horizontal to sub-horizontal, closely spaced, i	ESTONE with Fractures are		(1.00)				
	4.90 - 5.00 5.00	C SPT	50/32mm (19,50)						(FOREST MARBLE FORMATION) End of Borehole at 5.00m	8-						
		Progre	ss and Observa	ations		1			Chiselling General Remarks: 1. Hand dug starter	o pit to 0.50m to	:o cł	heck t	or se	rvices		
Rig Date		Depth (r		Water epth (m)	Flush Type Water	(cc	turns olour) ream	Fro (m	n To Duration Unable to hand dig t	hrough limestor n hole drilling (v ter was not enc coring from 1.20 ing well installe ped with a cast	ne a with cour Om t ed to iror	at 0.60 casir nterec to 5.0 o 5.00 n raise	Om.2. ng) fro I.4. Bo Om. 5 Im (re ed co	Boreh om 0.66 orehole 5. Gas espons	ole Om to e and e zo	ne

Hyc	Iro	ck				Proj Dev			orth West Bice	ster Eco			reho			
Hyc	11 0	CK										Pag	e No	. 1 c	of 1	
Method:	Rotar	y Core	ed			Date(	s): 1	4/09	)/2020	Logged By: C	A	D	rilled E	Зу: Ма	arshall [	Orilling
Client: F	irethor	n Bice	ster Ltd			Co-or	ds: 4	579	32.70, 225033.90	Checked By: 0	CV	F	lush	: Wa	ter	
Hydrock	Projec	ct No: (	C-13603			Grour	nd Le	vel	85.60m OD				Scale	: 1:	50	
Sample/Core Run (m)	Depth		es / Tests			nical Lo	Min If: Mean	/ater- trikes	Stratum	Description		두등	Thickness (m)	D G	Legend	Instrum- entation / Backfill
. ,	(m)	Туре	Results	TCR	SCR	RQD	lf: Mean Max	≤ io	Soft brown organic slightly g	gravelly sandy CLAY v	vith	Depth		Level m OD		Inst ent / Ba
									occasional rootlets. Gravel in fine to coarse limestone. (TOPSOIL) Firm orangish brown slightly Gravel is sub-angular to sub-limestone. (HEAD DEPOSITS)	sandy slightly grave	ly CLAY.	0.30	(0.30)	85.30		
1.20 - 2.00	1.20	SPT	50/220mm (3,9,11,13,26)	50	0	0	NI		Moderately weak to weak lig grey LIMESTONE. Recover (FOREST MARBLE FORMA	ed as gravel sized fra		2.00	(0.80)	84.40		
2.00 - 3.50				100	24	19	1		Very stiff dark greenish grey CLAY. Gravel is sub-angular and limestone. (FOREST MARBLE FORMA	r to sub-rounded fine		2.00	(1.10)	83.00		
	3.10 -	С							band of black orga		3 -	3.10		82.50		
3.50 - 5.00	3.23 3.24 - 3.50 3.50	C SPT	50/125mm				15		Moderately weak light grey I LIMESTONE. Fracture is ho clean. (FOREST MARBLE FORM/ Very stiff dark bluish grey sli	rizontal, undulating, r ATION)	ough and	3.50	(0.40)	82.10		
	4.30 - 4.40	С	(15,29,21)	100	26	7			CLAY. Gravel is sub-angular mudstone. (FOREST MARBLE FORM/ Moderately weak light grey I LIMESTONE. Fractures are to sub-horizontal, planar sm clean. (FOREST MARBLE FORM/	to sub-rounded fine ATION) locally stained yellowivery closely spaced, ooth to undulating rounded.	sh brown horizontal	4.10	(0.60)	81.50		
	5.00	SPT	50/94mm (4,18,20,30)							rehole at 5.00m	5-	5.00		80.60		
											6 - 7 - 7 - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10					
		Progre	ss and Observ	ations					Chiselling 1. Ha	eral Remarks: and dug starter to p						
Rig Date Comacc 14/0 hio 213		Deptii (i		Water Depth (m)	Flush Type Water	(co	turns lour) eam	Froi (m	) (m) (HH:MM) rotary monit	ndwater was not e y coring from 1.20r toring well installed n) topped with a ca	n to 5.00m I to 2.00m ast iron rais	. 4. ( (resp sed c	Gas ar conse over c	nd gro zone on co	undwa 2.00m	ter to n.

Hyd	lro	ck				Proj Dev			orth West Bices ent	ster Eco		R	BH	110	1	
Method:	Rotar	v Core	ed			Date(	s). 0:	5/01	/2021	Logged By: SI			ge No		arshall	Drillina
Client: F									538.02, 225078.02	Checked By: 0			Flush			
			C-13603						: 88.44m OD	Onconou By.	<u> </u>	_	Scale			
	1 10,00		les / Tests	M		nical Lo								, I.		=
Sample/Core Run (m)	Depth (m)	Туре	Results	TCR	SCR		Min If: Mean	Water- Strikes	Stratum	Description		Depth nbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
	(111)						Max		Soft reddish brown slightly g sub-rounded fine to coarse li		ravel is		(0.30)			_ 0 <
									(TOPSOIL)  Firm light brown locally light		range silty	0.30		88.14	\(\(\)\(\)\(\)	
									CLAY. (HEAD DEPOSITS)	• •						
											1 -		(1.20)			
1.20 - 2.00	1.20	SPT	N=50 (2,4,4,4,8,34)				12									
			(2,4,4,4,0,34)	100	68	22			Weak light grey stained oran	nge LIMESTONE. Fra	actures	1.50	(0.15)	86.94 86.79		
				100	00	33			are horizontal very closely sp (FOREST MARBLE FORMA	paced planar rough.	//	1.00	(6110)	00.79		
2.00 - 3.50	2.00	SPT	50/150mm (20,5,35,15)				4		Very weak light orange and I Fractures are very closely sp	light grey LIMESTON						
			(20,0,00,10)						rough. (FOREST MARBLE FORMA			(4.55)				
												(1.55)				
				91	66	30										
											3 -	3.20		85.24		
3.50 - 5.00	3.50	SPT	N=29						Very stiff greenish grey local (FOREST MARBLE FORMA		g CLAY.					
3.30 - 3.00	3.30	51 1	(3,4,6,7,8,8)				2						(0.90)		<u> </u>	
											4 -	4.10		84.34		
				100	30	30			Very stiff grey mottled light o (FOREST MARBLE FORMA	orangish brown CLAY.		4.10	(0.45)	04.34		
									,	,		4.55	(0.43)	83.89		
									Moderately weak light grey log green LIMESTONE. Fracture spaced rough and clean.	es are horizontal clos	sely		(0.45)			
	5.00	SPT	50/2mm (9,14,50)						(FOREST MARBLE FORMA	ATION) rehole at 5.00m	5,	5.00		83.44		
											6 - 7 - 8 - 9 -					
		Progre	ss and Observa	ations		,				eral Remarks: and dug pit to 1.20r	n to check	for	service	es. 2	Ground	dwater
Rig Date Comma 05/0 cchio 205	e Time	Boreho Depth (r	le Casing Casing	Water epth (m)	Flush Type Water	(cc	turns lour) /brown	Froi (m)	m To Duration not er (HH:MM) using	ncountered. 3. Bor rotary coring. 4. B letion.	ehole adva sorehole ba	ance ackfil	d from lled wi	n 1.20 th ber	m to 5.	00m on

#### Borehole No Project: North West Bicester Eco **RBH102** Development Hydrock Page No. 1 of 1 Method: Rotary Cored Date(s): 06/01/2021 Logged By: SP Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457610.04, 225028.18 Checked By: CA Flush: Water Hydrock Project No: C-13603 Ground Level: 86.06m OD Scale: 1:50 Samples / Tests Mechanical Log Stratum Description RQD If: Mear Level m OD Thickr (m) SCR Туре Soft reddish brown slightly gravelly silty CLAY. Gravel is (0.30)sub-rounded fine to coarse limestone (TOPSOIL) Soft locally firm orangish brown slightly gravelly slightly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone (0.90) (HEAD DEPOSITS) N=6 (3,1,1,1,2,2) 1.20 - 1.60 1.20 SPT 8 Very weak very thinly bedded light grey LIMESTONE 113mm (0.30) interbedded with firm brown CLAY. (FOREST MARBLE FORMATION) 100% rec 1.20 - 3.00 (0.20 Stiff light grey mottled brown slightly gravelly CLAY. Gravel is sub-angular medium to coarse limestone. (FOREST MARBLE FORMATION) (0.40) Weak light grey LIMESTONE recovered as gravel sized 100 6 11 (FÖREST MARBLE FORMATION) . .Recovered as gravel sized fragments between 2.00 to 2.70m. Very weak light grey LIMESTONE. Fractures are horizontal closely spaced planar rough to undulating rough with local 3.00 - 4.50 3.00 SPT 50/75mm (FOREST MARBLE FORMATION) 3 (25,50)Very stiff light grey and light orangish brown slightly sandy (0.60) (FOREST MARBLE FORMATION) 86 40 26 Very weak grey with light orange staining MUDSTONE. Fractures are horizontal and sub-horizontal very closely (0.10) (0.30) spaced planar rough with local clay infill. (FOREST MARBLE FORMATION) 4.30 Very stiff light grey and light orangish brown slightly sandy 4.50 - 5.00 4.50 SPT 50/200mm (0.45) 4 SILT/CLAY. (10,15,20,26,4) SILI/CLAY. (FOREST MARBLE FORMATION) Moderately weak grey LIMESTONE. Fractures are very close to closely spaced planar clean. (FOREST MARBLE FORMATION) 100 68 48 (0.25) 5.00 50/150mm 5.00 SPT (20,5,38,12)Extremely weak dark brownish grey LIMESTONE with rare shell fossils. Fractures are very closely spaced planar rough with local clay infill. (FOREST MARBLE FORMATION) End of Borehole at 5.00m General Remarks: Progress and Observations Chiselling 1. Hand dug pit to 1.20m to check for services. 2. Groundwater Borehole Casing Depth (m) Depth (m) Diam.(mm) Depth (m) Diam.(mm) Depth (m) Duration (HH:MM) not encountered. 3. Borehole advanced from 1.20m to 1.60m Rig using dynamic sampling and from 1.60m to 5.00m using rotary Type Water (colour) (m) 1400 06/01 Grey/brov coring. 4. Gas and groundwater monitoring well installed to 5.00m (0.80m to 5.00m response zone) topped with a monitoring cover on completion.

# Borehole No Project: North West Bicester Eco Hydrock **RBH103** Development Page No. 1 of 1 Method: Rotary Cored Date(s): 05/01/2021 Logged By: SP Drilled By: Marshall Drilling Client: Firethorn Bicester Ltd Co-ords: 457679.01, 225026.64 Checked By: CA Flush: Water Hydrock Project No: C-13603 Ground Level: 85.95m OD Scale: 1:50 Samples / Tests Mechanical Log ROD It: Weau Francisco -egend Stratum Description Level m OD Thickr (m) Туре Soft reddish brown slightly gravelly silty CLAY. Gravel is (0.30)sub-rounded fine to coarse limestone (TOPSOIL) Soft locally firm orangish brown slightly gravelly slightly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone (0.90)(HEAD DEPOSITS) 1.20 - 2.00 1.20 SPT 50/75mm Very weak light grey LIMESTONE. Recovered as gravel (25,40)sized fragments. (FOREST MARBLE FORMATION) 100 0 0 (0.80) 2.00 - 3.50 5 Moderately weak light grey LIMESTONE with occasional bivalve shells. Fractures are horizontal to sub-vertical closely spaced planar rough . (0.40) (FOREST MARBLE FORMATION) Extremely weak light orangish grey LIMESTONE. Recovered as fine gravel sized fragments and sand. (0.35) 53 (FOREST MARBLE FORMATION) Moderately weak grey and orangish brown LIMESTONE. Fractures are closely spaced horizontal planar rough with 3.00 SPT 50/17mm (25,50)local clay infill. (FOREST MARBLE FORMATION) (1.35) 3.50 - 5.00 4.10 Very weak thinly bedded greyish brown LIMESTONE interbedded with stiff brown CLAY. Fractures are very 100 74 74 (0.35) closely spaced horizontal planar rough with local clay infill. (FOREST MARBLE FORMATION) 4.50 SPT 50/25mm (25,50)Moderately weak grey and orangish brown LIMESTONE (0.55) Fractures are closely spaced horizontal planar rough with 5.00 5.00 SPT 50/20mm (FOREST MARBLE FORMATION) End of Borehole at 5.00m (25,50) General Remarks: Progress and Observations Chiselling 1. Hand dug pit to 1.20m to check for services. 2. Groundwater Duration (HH:MM) not encountered. 3. Borehole advanced from 1.20m to 5.00m Rig using rotary coring. 4. Borehole backfilled with bentonite on Type Water (colour) (m) 1330 05/01 Grey/brov completion.

Hydro	ck			Project: North West Bice Development	ester Eco		TF				
									1 of		
Method: Trial F				Date(s): 07/09/2020	Logged By: TE	3			ed By		
Client: Firethor	n Biceste	r Ltd		Co-ords: 457080.01, 225337.06	Stability: No C	ollapse	Dim		sions <sup>2.50m</sup>		cale:
Hydrock Projec	ct No: C-1	3603		Ground Level: 91.96m OD	Plant: 8T361		0.60r	n		_	1:25
San	nples / Test		Water-	Stratum Des	scription			두드	Thickness (m)	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fr		is angular to su	ıb dı	mbg m	ĔÊ	a Lev	
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)			-	0.30	(0.30)	91.66	
				Orangish brown clayey sandy angular to sub a limestone with medium cobble content. Cobble limestone. (HEAD DEPOSITS)	ingular fine to coarse G es are angular to sub ar	RAVEL of Igular of			(0.78)		
1.00	D		•	Moderately weak orangish brown LIMESTONE (CORNBRASH FORMATION) Base of Excavatic			1 -	1.08 1.10	(0.02)	90.88 90.86	
General Remarks:							3 - 3 - 5 - 5 -				

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate slow. 3. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			TP(			
							ge No			
/lethod: Trial				Date(s): 07/09/2020	Logged By: TE		Check			
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457141.63, 225379.86	Stability: No C	ollapse	Dime	1SION 2.50m		cale:
lydrock Proje	ect No: C	-13603		Ground Level: 92.43m OD	Plant: 8T362		0.60m			1:25
Depth (m)	amples / Tes	sts Results	Water- Strikes	Stratum Des	cription		Depth	Thickness (m)	Level m OD	Legend
Deptil (III)	туре	Kesuits		Soft brown slightly sandy gravelly CLAY with fre	equent rootlets. Gravel	is angular to su		: FE	3 5	
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)  Soft orangish brown slightly gravelly slightly sar	ndy CLAV Croyalia an	gular ta aub	0.30	(0.30)	92.13	
0.50	D			angular fine to coarse of limestone. (HEAD DEPOSITS)	illuy OLAT. Graveris al	guiai to sub	-	(0.50)		
0.90	D		•	(CORNBRASH FORMATION)	careous nodules. Gravel is sub angular to sub rounded fine to coarse of limest					
1.30 - 2.30	В			Soft to firm orangish brown mottled whitish grev	ft to firm orangish brown mottled whitish grey slightly sandy slightly gravelly C					
1.40	D			Gravel is sub angular fine to coarse limestone I (CORNBRASH FORMATION)			2-	(1.40)		
2.40	D						-			
2.70	D			Firm fissured brown mottled bluish grey slightly fossils and mudstone lithorelicts. Fissures are v and randomly oriented.  (FOREST MARBLE FORMATION)	sandy CLAY with occa ery closely to closely s	asional shell spaced, non line	2.70 ear -	(0.40)	89.73	
				(I OTCOT WANTED TO STANK (TOTA)			3 -		00.00	
				Base of Excavation	n at 3.10m		4 -		89.33	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate slow. 3. Trial pit backfilled with arisings on completion.

Leading				Development Discoster 200				)3		
Hydro	CK						e No.		1	
/lethod: Tria	l Pit			Date(s): 08/09/2020	Logged By: TE		heck			/
lient: Fireth	orn Bicest	ter Ltd		Co-ords: 457222.57, 225428.56	Stability: No C	ollapse [	Dimen	sion: 2.50m	s: S	cale:
lydrock Proj	ect No: C-	-13603		Ground Level: 92.83m OD	Plant: 8T363		0.60m		_	1:25
	amples / Tes	sts	Water-	Stratum Desc	cription		£ -	Thickness (m)	e Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fre	quent rootlets. Gravel	is angular to sub	Dep	(m)	Level m OD	
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)	·		0.30	(0.30)	92.53	
0.40	D			Orangish brown clayey sandy angular to sub an limestone with medium cobble content. Cobbles limestone. (HEAD DEPOSITS)	ngular of	0.50	(0.20)	92.33		
0.70	D		•	Weak to moderately weak fractured light yellowi (CORNBRASH FORMATION)						
					1 -	(0.90)				
1.40 - 2.40	В			Firm to soft (wet) orangish brown and grey mott fine to medium limestone and mudstone lithorel (CORNBRASH FORMATION)	1.40		91.43	* * * * * * * * * * * * * * * * * * * *		
							2 -	(1.00)		
2.40	D			Base of Excavation	at 2.40m		2.40		90.43	
2.40				Base of Excavation	at 2.40m		3 -			
							5 -			

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater was encountered at 0.80m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.

Project: North West Bicester Eco Development									
					ıpse	Dimer			i
			Ground Level: 92.65m OD	Plant: 8T364		0.60m		_	1:25
-		Water- Strikes	Stratum Des	scription		epth bal	ickness (1	oD	Legend
	results		Soft brown slightly sandy gravelly CLAY with fr angular fine to coarse of limestone. (TOPSOIL)	requent rootlets. Gravel	is angular to su	b -	(0.30)		1
ES D		•	Weak to moderately weak fractured light yellow (CORNBRASH FORMATION)	vish brown LIMESTONI	E.	0.30	(1.20)	92.35	
D			Base of Excavation	on at 1.50m		1.50		91.15	
	Pit orn Bicest ect No: C- amples / Tes Type  ES D	Pit  orn Bicester Ltd  ect No: C-13603  amples / Tests  Type Results  ES  D	Pit  orn Bicester Ltd  ect No: C-13603  amples / Tests	Pit Date(s): 08/09/2020  Orn Bicester Ltd Co-ords: 457308.95, 225476.03  ect No: C-13603 Ground Level: 92.65m OD  amples / Tests Water-Strikes Soft brown slightly sandy gravelly CLAY with frangular fine to coarse of limestone. (TOPSOIL)  ES Weak to moderately weak fractured light yellow (CORNBRASH FORMATION)	Pit Date(s): 08/09/2020 Logged By: Team Bicester Ltd Co-ords: 457308.95, 225476.03 Stability: Collad Rect No: C-13603 Ground Level: 92.65m OD Plant: 8T364 Stratum Description  Water-Strikes Stratum Description  Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel angular fine to coarse of limestone. (TOPSOIL)  Weak to moderately weak fractured light yellowish brown LIMESTONI (CORNBRASH FORMATION)	Pit Date(s): 08/09/2020 Logged By: TB orn Bicester Ltd Co-ords: 457308.95, 225476.03 Stability: Collapse ect No: C-13603 Ground Level: 92.65m OD Plant: 8T364  amples / Tests Water- Type Results Water- Strikes Stratum Description  Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to su angular fine to coarse of limestone. (TOPSOIL)  Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBRASH FORMATION)	Pit Date(s): 08/09/2020 Logged By: TB Check orn Bicester Ltd Co-ords: 457308.95, 225476.03 Stability: Collapse Dimer oct No: C-13603 Ground Level: 92.65m OD Plant: 8T364 0.60m Strippe Results Strikes Stratum Description Stability: Collapse Of Stability	Development  TP04 Page No. 1 of Pit  Date(s): 08/09/2020 Logged By: TB Checked B on Bicester Ltd Co-ords: 457308.95, 225476.03 Stability: Collapse Dimension: 2 50m Strikes Type Results Water- Strikes Stratum Description Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub (TOPSOIL) Wake to moderately weak fractured light yellowish brown LIMESTONE: (CORNBRASH FORMATION)  D  Water of Exemption (0.30)  D  Water of Exemption (0.30)  D  Water of Exemption (0.30)  D  D  D  D  D  D  D  D  D  D  D  D  D	Development  TP04 Page No. 1 of 1  Pit  Date(s): 08/09/2020 Logged By: TB Checked By: Ci on Bicester Ltd Co-ords: 457308.95, 225476.03 Stability: Collapse Dimensions: S ect No: C-13603 Ground Level: 92.65m OD Plant: 87364  Water- Type Results  Soft brown slightly sandy gravelly CLAY with frequent rooflets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOLL)  Week to moderately weak fractured light yellowish brown LIMESTONE.  D  Base of Escavation at 150m

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.00m, flow rate fast. 3. Trial pit sidewalls beginning to collapse at 1.50m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Hydrock Project: North West Bicester Eco Development						TP(			
					1				
					pse	Dimer			I
		1	Ground Level: 92.46m OD	Plant: 8T365		0.60m	T	_	1:25
		Water- Strikes	Stratum Des	scription		lepth	hickness n)	evel	Legend
ES			angular fine to coarse of limestone. (TOPSOIL)			b - 0.30	(0.30)	92.16	L
В			Weak to moderately weak fractured light yellow (CORNBRASH FORMATION)	wish brown LIMESTONI	Ξ.		(1.20)		
D		•				1 -		90.96	
U			Base of Excavalic	on at 1.50m		3-			
	Pit orn Bicest ect No: C- amples / Tes Type ES B	Pit  Prn Bicester Ltd  Pot No: C-13603  Proposition of the proposition	Pit  orn Bicester Ltd  oct No: C-13603  amples / Tests  Type Results  B  B  D	Pit Date(s): 08/09/2020  orn Bicester Ltd Co-ords: 457397.74, 225513.44  oct No: C-13603 Ground Level: 92.46m OD  amples / Tests Vater- Type Results Soft brown slightly sandy gravelly CLAY with frangular fine to coarse of limestone. (TOPSOIL)  Weak to moderately weak fractured light yellow (CORNBRASH FORMATION)	Pit Date(s): 08/09/2020 Logged By: TE orn Bicester Ltd Co-ords: 457397.74, 225513.44 Stability: Colla ect No: C-13603 Ground Level: 92.46m OD Plant: 8T365  Imples / Tests Stratum Description  Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel angular fine to coarse of limestone.  (TOPSOIL)  Weak to moderately weak fractured light yellowish brown LIMESTONI (CORNBRASH FORMATION)	Pit Date(s): 08/09/2020 Logged By: TB orn Bicester Ltd Co-ords: 457397.74, 225513.44 Stability: Collapse oct No: C-13603 Ground Level: 92.46m OD Plant: 8T365  Imples / Tests Water- Type Results Strikes Stratum Description  Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to su angular fine to coarse of limestone. (TOPSOIL)  Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBRASH FORMATION)	Pit Date(s): 08/09/2020 Logged By: TB Check orn Bicester Ltd Co-ords: 457397.74, 225513.44 Stability: Collapse Dimer act No: C-13603 Ground Level: 92.46m OD Plant: 8T365 0.60m Strippe Results Strikes Stratum Description Sangular fine to coarse of limestone. (TOPSOIL)  Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBRASH FORMATION)  Base of Excevation at 1.30m 1.50.	Development  TP05 Page No. 1 of Pit  Date(s): 08/09/2020 Logged By: TB Checked B on Bicester Ltd Co-ords: 457397.74, 225513.44 Stability: Collapse Dimension: 2.500 0.800  Type Results  Water- Strikes  Soft brown slightly sandy gravelly CLAY with frequent rocilets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL) Week to moderately week fractured light yellowish brown LIMESTONE. (CORNBRASH FORMATION)  D  Base of Excevation at 1.50m	Development  TP05 Page No. 1 of 1  Pit  Date(s): 08/09/2020 Logged By: TB Checked By: CV orn Bicester Ltd Co-ords: 457397.74, 225513.44 Stability: Collapse Dimensions: S et No: C-13603 Ground Level: 92.46m OD Plant: 8T365  Stratum Description Strikes Stratum Description ES  Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL) Week to moderately weak fractured light yellowish brown LIMESTONE.  (CORNBRASH FORMATION)  D  Saw of Excevition at 136in  150 56.56

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate fast. 3. Trial pit sidewalls beginning to collapse at 1.50m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bice Development	ester Eco		TP(			
ilyard	CIN					Pa	ge No.	1 of	1	
Method: Trial	Pit			Date(s): 07/09/2020	Logged By: TE		Check			
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457471.55, 225562.83	Stability: Colla	pse	Dimen	sion: 2.50m		i
Hydrock Proje	ect No: C	-13603		Ground Level: 92.29m OD	Plant: 8T366		0.60m		<u>]</u>	1:25
	amples / Te	sts	Water-	Stratum Des	scription		€ =	Thickness (m)	ы Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fr		is angular to su	D P P	ĘĒ	Level m OD	Ee .
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)  Orangish brown sandy angular to sub angular			0.30	(0.30)	91.99	
0.50	D			medium cobble content. Cobbles are angular to (HEAD DEPOSITS)	o sub angular of limesto	one.	1-	(0.80)		
1.20	D		•	Weak fractured light brown LIMESTONE with o (CORNBRASH FORMATION)		1.10		91.19	×: ••••	
1.50 - 2.00	В					-	(0.90)			
				Base of Excavatio	n at 2 00m		2.00		90.29	
							3			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate moderate. 3. Trial pit sidewalls beginning to collapse at 2.00m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			Trialpi			
riyare	CK					Pa	age No.			
Method: Tria	l Pit			Date(s): 04/09/2020	Logged By: TI	В	Check			
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457451.54, 225522.82	Stability: No C	Collapse	Dimer	nsion: 2.50m		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 92.16m OD	Plant: 8T360		0.90m		<u>]</u>	1:25
	amples / Te	sts	Water-	Stratum Des	scription		£ =	Thickness (m)	- Q	pue
Depth (m)	Туре	Results	Strikes		·	is angular to s	Depth	iĘ Œ	Level m OD	Legend
Depth (m)	Type	Results	Silikes	Soft brown slightly sandy gravelly CLAY with frangular fine to coarse of limestone. (TOPSOIL)  Weak fractured orangish brown sandy LIMEST (CORNBRASH FORMATION)  Weak fractured light brown LIMESTONE. (CORNBRASH FORMATION)  Base of Excavation	TONE.	is angular to s	1 - 1.60	(0.40)	91.86 91.46	
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.30m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.60m and 1.60m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development				: No )8		
							ge No.			
lethod: Tria				Date(s): 08/09/2020	Logged By: TE		Check			
Client: Firetho	orn Bicest	er Ltd		Co-ords: 457372.49, 225466.09	Stability: Colla	ipse	Dimen _	2.50m		cale:
lydrock Proje	ect No: C-	13603	T	Ground Level: 92.45m OD	Plant: 8T367		0.60m		_	1:25
Depth (m)	amples / Tes	Results	Water- Strikes	Stratum Des	cription		Depth mbgl	Thickness (m)	Level m OD	Puegel
0.10	ES			Soft brown slightly sandy gravelly CLAY with from angular fine to coarse of limestone.  (TOPSOIL)	equent rootlets. Gravel	is angular to su	b -	(0.30)	n L	
0.30 - 0.60	В			Orangish brown clayey sandy angular to sub a limestone with medium cobble content. Cobble limestone. (HEAD DEPOSITS)	ngular fine to coarse G s are angular to sub ar	RAVEL of ngular of		(0.30)	92.15	
0.70	D			Weak to moderately weak fractured light yellow (CORNBRASH FORMATION)	vish brown LIMESTONI	Ε.	0.60		91.85	
			•			1 -	(1.00)			
							-			
1.60	D			Base of Excavatio	n at 1.60m		1.60		90.85	
							2 -			
							-			
							-			
							3 -			
							- - -			
							-			
							-			
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate fast. 3. Trial pit sidewalls beginning to collapse at 1.60m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development			Trialpit No TP09				
riyurc	CK					Pa	age No.	. 1 of	1		
Method: Tria	l Pit			Date(s): 04/09/2020	Logged By: TI	3	Check	ed B	y: AE	3	
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457286.99, 225429.29	Stability: No C	Collapse	Dimer	sion 2.50m	s: S	cale:	
Hydrock Proje	ect No: C	-13603		Ground Level: 92.58m OD	Plant: 8T360		0.90m	2.50111	] .	1:25	
S	amples / Te	sts	Water-	Stratum De:	scription			Thickness (m)	= 0	pue	
Depth (m)	Туре	Results	Strikes			is angular to s	Dept	E E	Leve m Of	Lege	
Depth (m)	Type	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fangular fine to coarse of limestone.  (TOPSOIL)  Weak fractured orangish brown sandy LIMES' (CORNBRASH FORMATION)  Weak to moderately weak fractured light brow (CORNBRASH FORMATION)  Base of Excavation	requent rootlets. Gravel	is angular to s	1	(0.30)	91.28 90.98	The second secon	
							- 5 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.30m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.60m and 1.60m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development  Trialpit No TP10						
riyarc	CK				_	Pa	ge No.	1 of	1	
Method: Tria	l Pit			Date(s): 04/09/2020	Logged By: TE	3	Check			
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457147.90, 225343.55	Stability: No C	Collapse	Dimen	2.50m		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 92.02m OD	Plant: 8T360		0.90m			1:25
Depth (m)	amples / Te	sts Results	Water- Strikes	Stratum Des	cription		Depth nbgl	hickness m)	evel n OD	puebe-
S	amples / Te	sts		Stratum Des  Soft brown slightly sandy gravelly CLAY with freangular fine to coarse of limestone.  (TOPSOIL)  Light brown and cream sandy clayey sub-angulimestone GRAVEL. (HEAD DEPOSITS)  Firm to stiff grey mottled light brown gravelly Clayer of limestone.	cription equent rootlets. Gravel lar to sub-rounded fine	to coarse	ub	(0.50) (0.20)	91.72 91.02	pue6eT
							4-			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.00m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.20m and 1.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			Trialpit No TP11				
					T	1	ge No				
Method: Tria				Date(s): 07/09/2020	Logged By: TE		Check				
Client: Fireth	orn Bicest	er Ltd		Co-ords: 457162.21, 225298.90	Stability: No C	ollapse	Dimer	nsion <sup>2.50m</sup>		cale:	
Hydrock Proj	ect No: C-	-13603	_	Ground Level: 90.87m OD	Plant: 8T368		0.60m			1:25	
	amples / Tes		Water- Strikes	Stratum Des	scription		bth -	Thickness (m)	Level m OD	Legend	
Depth (m)	Туре	Results	Ottikes	Soft brown slightly sandy gravelly CLAY with fr	equent rootlets. Gravel	is angular to sul	Depth	ĒĒ	n Le	Ĕ	
0.30	ES			angular fine to coarse of limestone. (TOPSOIL)			0.30	(0.30)	90.57		
				Soft orangish brown slightly gravelly slightly sa angular fine to coarse of limestone and quartz. (ALLUVIUM)		igular to sub	-				
0.50	D			(ALLOVIONI)			1	(0.50)			
							-				
				Soft orangish brown mottled whitish grey slight (HEAD DEPOSITS)	lly sandy CLAY. Sand is	s fine.	0.80		90.07		
1.00	D			(NEXE DEL GOLLO)			1 -				
								(1.10)			
							-	(1.10)			
							-				
				Soft orangish brown mottled whitish grey slight	tly sandy slightly gravel	ly CLAV Gravel	1.90		88.97		
2.00 2.00	D HSV	51kPa		sub angular fine to coarse limestone. Sand is f (HEAD DEPOSITS)		ly CLAT. Glaver	2 -				
				,			1	(0.50)			
							2.40		88.47		
2.50 - 3.00	В			Firm fissured brown mottled bluish grey slightly occasional shell fossils. Gravel is sub-angular	to sub-rounded fine to r	medium mudstor			00.11		
				lithorelicts. Fissures are very closely to closely oriented.	spaced, non linear and	l randomly	-				
				(FOREST MARBLE FORMATION)			1	(0.80)			
							-				
3.00	D						3 -				
			_	Base of Excavation	on at 3.20m		3.20	-	87.67		
							-				
							1				
							]				
							-				
							4 -				
							-				
							1				
							-				
							-				
							-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 3.20m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydrock Development 7						rialpi TP				
nyara	CK					Pa	ge No		· 1	
Method: Tria	Pit			Date(s): 08/09/2020	Logged By: TI	·	Check			V
Client: Firetho	orn Biceste	er Ltd		Co-ords: 457210.84, 225357.26	Stability: No C	Collapse	Dimer			Scale:
Hydrock Proje	ect No: C-	13603		Ground Level: 92.18m OD	Plant: 8T369		0.60m	2.50m		1:25
S	amples / Tes	ts	Water-	Stratum De	ecription	'	ے	Thickness (m)		PL
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with f		is angular to su	Depth	E High	Level m OD	Legend
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)	requent rootiets. Graver	ns angular to su	0.30	(0.30)	91.88	
0.30 - 0.90 0.40	B D			Soft orangish brown slightly gravelly slightly sangular fine to coarse of limestone. (HEAD DEPOSITS)	andy CLAY. Gravel is ar	ngular to sub	0.70	(0.40)	91.48	
0.90	D		•	Firm light grey mottled light brown slightly san white powder and calcareous nodules. Gravel coarse of limestone (CORNBRASH FORMATION)	l is sub angular to sub ro	ounded fine to	1 -	(0.40)	91.08	
1.20	D			Soft to firm orangish brown mottled whitish gr fine to coarse limestone lithorelicts. Sand is fir (CORNBRASH FORMATION)		with sub angular	-			
1.50	HSV	92kPa		becoming firm below 1.50m.			2 -	(1.05)	90.03	
2.20	D			Firm fissured brown mottled bluish grey slight fossils and mudstone lithorelicts. Fissures are and randomly oriented. (FOREST MARBLE FORMATION)			-	(0.95)		
3.10	D			Base of Excavat	ion at 3.10m		3.10		89.08	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

lydrock				Project: North West Bice Development	ester Eco		TP1			
Tyard	CK					Pa	age No.		1	
lethod: Trial	l Pit			Date(s): 08/09/2020	Logged By: TE		Check			$\overline{}$
lient: Firetho	orn Biceste	er Ltd		Co-ords: 457265.81, 225375.52	Stability: No C	ollapse	Dimen	sions	s: S	cale:
lydrock Proje	ect No: C-	13603		Ground Level: 92.25m OD	Plant: 8T370		0.60m		] 1	:25
Sa	amples / Tes	ts	Water-	Stratum Des	scription		£ =	Thickness (m)	- Q	pue
Depth (m) 0.00 - 0.30	Type B	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fr	·	is angular to s	De D	E)	Level m OD	Legend
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)			0.30	(0.30)	91.95	
0.50	D			Orangish brown clayey sandy angular to sub a limestone with medium cobble content. Cobble limestone. (HEAD DEPOSITS)	ingular fine to coarse G es are angular to sub ar	RAVEL of ngular of	-	(0.50)		
0.90	D		•	Weak fractured light brown LIMESTONE. (CORNBRASH FORMATION)		1 -	(0.70)	91.45		
1.50	D						1.50		90.75	
				Base of Excavation			2 - 3 - 4 - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6			

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater was encountered at 0.80m, flow rate fast. 3. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bicester Eco Development		TP14 Page No. 1 of 1					
				Development							
Method: Trial Pit				Date(s): 08/09/2020	Logged By: Ti	<u> </u>				/	
Client: Firethorn Bicester Ltd				Co-ords: 457319.34, 225389.30				Dimensions:			cale:
Hydrock Project No: C-13603				Ground Level: 92.20m OD	Plant: 8T371	371 0.			2.50m	]	1:25
Samples / Tests Water-			4	Stratum Des	cription			£ -	Thickness (m)	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub				Depth mbgl	ĒĒ.	Level m OD	Leg W
0.00				angular fine to coarse of limestone. (TOPSOIL)			-	0.30	(0.30)	91.90	
0.30	D D			Orangish brown clayey sandy angular to sub ar limestone with medium cobble content. Cobblet limestone.			-				
0.30				(HEAD DEPOSITS)					(0.50)		
				Weak fractured light brown LIMESTONE. (CORNBRASH FORMATION)		-	0.80		91.40		
1.00 1.00 - 1.50	D D			,				-	(0.70)		
			•								
1.60	D			Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional white powder and calcareous nodules. Gravel is sub angular to sub rounded fine to			al -	1.50		90.70	
				coarse of limestone (CORNBRASH FORMATION)							
									(1.00)		
							-				
				Firm fissured brown mottled bluish grey slightly sandy slightly gravelly CLAY with			-	2.50		89.70	
2.60	D			occasional shell fossils. Gravel is sub-angular t Fissures are very closely to closely spaced, nor (FOREST MARBLE FORMATION)	o sub-rounded fine mu	udstone lithorelia	ots		(0.60)		
				Base of Excavation	n at 3.10m		3 -	3.10		89.10	
							-				
							4 -				
							-				
							-				
							5 -				
			1	<u> </u>							

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.40m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bicester Eco Development			Trialpit No TP15						
								Page No. 1 of 1					
Method: Trial Pit				Date(s): 04/09/2020	Logged By: TI	3							
Client: Firethorn Bicester Ltd				Co-ords: 457391.92, 225423.10	Stability: No C	Collapse Dimension				cale:			
Hydrock Project No: C-13603				Ground Level: 92.33m OD	Plant: 8T360	1.00m				1:25			
Samples / Tests Water-			Water- Strikes	Stratum De	scription	ion			- Q	end			
Depth (m) Type Results						is angular to s	Depth	Thickness (m)	Level m OD	Legend			
				Soft brown slightly sandy gravelly CLAY with fangular fine to coarse of limestone.  (TOPSOIL)  Weak fractured orangish brown sandy LIMES (CORNBRASH FORMATION)  Base of Excavati	TONE.	is angular to s	1 - 1.50	(1.20)	92.03				
							5 -						

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.50m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.50m and 1.50m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bicester Eco Development		TP16					
							Page No. 1 of 1				
Method: Trial Pit				Date(s): 07/09/2020	Logged By: TE		Check				
Client: Firethorn Bicester Ltd				Co-ords: 457438.11, 225445.94	Stability: Colla	Dimensions:			i		
Hydrock Project No: C-13603				Ground Level: 92.27m OD	Plant: 8T372		0.60m			1:25	
Samples / Tests Water-			Stratum Des	scription		£ =	Thickness (m)	- Q	Legend		
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular t			a Per	ĔÊ	Level m OD	Leg	
0.10 0.50	ES D	Nesuris	•	angular fine to coarse of limestone. (TOPSOIL)  Weak fractured light yellowish brown LIMESTO (CORNBRASH FORMATION)	DNE.	is angular to su	0.30 	(0.30)	91.97	91	
							2				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate moderate. 3. Trial pit sidewalls beginning to collapse at 1.60m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

المرام	al.			Project: North West Bicester Eco Development  Trialpit No TP17  Page No. 1 of 1						
Hydro	CK			'					1	
Method: Tria	l Pit			Date(s): 07/09/2020	Logged By: TI	В	Check	ed B	y: C'	/
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457478.41, 225491.22	Stability: Colla	apse	Dimen	sion 2.50m	s: S	cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 92.04m OD	Plant: 8T373		0.60m	2.00	] '	1:25
	amples / Te	sts	Water-	Stratum De	scription		€ =	Thickness (m)	⊒ Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with f	•	l is angular to sul	Depth	ĔĒ	Level m OD	
0.30	ES			angular fine to coarse of limestone. (TOPSOIL)			0.30	(0.30)	91.74	
0.50 - 1.00	В			Orangey brown sandy clayey angular to sub a with medium cobble content. Cobbles are ang (HEAD DEPOSITS)	ingular fine to coarse lin Jular to sub angular of lii	nestone GRAVEI mestone.	-			
							-	(0.70)		
1.10	D			Weak fractured light brown LIMESTONE with (CORNBRASH FORMATION)	occasional clay beds.		1.00		91.04	
			_				-	(0.80)		
							1.80		90.24	
1.90	D			Firm to stiff, brown, grey and reddish brown m CLAY with occasional shell fossils. Gravel is s (CORNBRASH FORMATION)			2 -	(0.50)		
2.10	HSV	102kPa		Base of Excavati			2.30	(0.00)	89.74	
				Base of Excavati	on at 2.30m					
							-			
							3 -			
							-			
							-			
							4 -			
							-			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.30m, flow rate moderate. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit sidewalls collapsing between 0.30m and 1.80m due to previous groundwater entry. 5. Trial pit backfilled with arisings on completion.

Hydro	ock		_	Project: North West Bice Development	Trialp TP					
							ige No			
/lethod: Trial	l Pit			Date(s): 10/09/2020	Logged By: TE	3	Chec			
lient: Firetho	orn Bices	ter Ltd		Co-ords: 457457.23, 225416.47	Stability: No C	ollapse	Dime	2.50r	1	
lydrock Proje				Ground Level: 92.31m OD	Plant: 8T374		0.60m	1	_	1:25
	amples / Te		Water- Strikes	Stratum Desc	cription		bth.	Thickness (m)	Level m OD	Legend
Depth (m)	Туре	Results		Soft brown slightly sandy gravelly CLAY with fre	quent rootlets. Gravel	is angular to s	np g	<b>E E E</b>	a E	Ē.
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)				(0.30)		
				Weak fractured orangish brown LIMESTONE.			0.30		92.01	
0.50	D			(CORNBRASH FORMATION)			1			
0.50							-	(0.50		H
							0.80		91.51	
				Moderately weak to weak fractured light brown, LIMESTONE.	ngish brown					
1.00 1.00 - 1.50	D B			(CORNBRASH FORMATION)		1 -				
						]	(0.70)			
			_			-				
			_	Base of Excavation		1.50		90.81		
				Dase of Excavation						
							-			
							2 -			
							-			
							-			
							]			
							-			
							1			
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							4 -			
							1			
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							1			
							-			
							5 -		1	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.40m, flow rate slow. 3. Breaker used to advance trial pit between 1.40m and 1.50m.

4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development  TP19 Page No. 1 of 1  Date(s): 10/09/2020  Logged By: TB  Checked By: C						
Method: Trial	Pit			Date(s): 10/09/2020	Logged By: TE					
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457430.24, 225388.96	Stability: No C	ollapse	Dimer	sion: 2.50m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 92.35m OD	Plant: 8T375		0.60m			1:25
Sa	amples / Te	sts	Water-	Stratum Descr	ription		£ =	Thickness (m)	<u>-</u> □	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with freq		is angular to su	Dep	ĒΞ	Level m OD	Legend
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)		-	0.30	(0.30)	92.05	
0.50	D			Moderately weak to weak fractured light brown, or LIMESTONE. (CORNBRASH FORMATION)	ream and locally ora	ngish brown	1 -	(1.30)		
1.50 1.60 - 2.60 1.60	D B HSV	130kPa		Stiff locally very stiff brown, grey and rusty brown		elly CLAY. Gravi	- - - 1.60		90.75	
1.70	D			is sub angular fine limestone and mudstone lithor (CORNBRASH FORMATION)	elicts.		2 -	(0.90)	89.85	
2.70	D			Firm to stiff orangish brown and grey mottled slig sub angular fine to medium mudstone lithorelicts. (FOREST MARBLE FORMATION)	htiy gravelly sandy C	LAY. Gravel is	2.50	(0.50)	89.35	
				Base of Excavation a	i 3.00m		4-		30000	

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.60m, flow rate slow. 3. Breaker used to advance trial pit between 1.40m and 1.60m.
4. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 5. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development  Tria Tria Tria Page I						
. Iyar c	CIV				Pa	ge No	o. 1	of 1		
Method: Trial	Pit			Date(s): 08/09/2020	Logged By: TE	3	Chec	ked	Ву:	
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457357.34, 225337.64	Stability: Colla	ipse	Dime	nsic 2.50		Scale:
Hydrock Proje	ect No: C	-13603		Ground Level: 91.97m OD	Plant: 8T376		0.60m			1:25
Sa	amples / Te	sts	Water-	Stratum Desc	ription		£	mbgl	_	D pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with free		is angular to su	Depth	Thic T	(m)	m OD Legend
0.20	ES			angular fine to coarse of limestone.  (TOPSOIL)  Orangish brown clayey sandy angular to sub angu		_	0.3	(0.3	0) 91	.67
0.60	D			limestone with medium cobble content. Cobbles limestone. (HEAD DEPOSITS)				(0.6	0)	
1.00	D			Light brown and light grey sandy very clayey sub- limestone. (HEAD DEPOSITS)	angular fine to coars	se GRAVEL of	0.9	(0.5	91	.07
1.40 - 2.40	В			Firm to stiff orangish brown and grey and light br sandy silty CLAY. Gravel is sub angular fine to co (CORNBRASH FORMATION)		gravelly slightly	1.4	(1.0	90	.57
2.50	D		•	Weak light brown LIMESTONE. (CORNBRASH FORMATION)			2.4	(0.2		.57
				Base of Excavation :	at 2.80m		3 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.40m, flow rate moderate. 3. Trial pit sidewalls beginning to collapse at 2.60m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

۔ مامریا	الما			Project: North West Bicester Eco Development			TF	21°		
Hydro	CK					Pa	age N			
Method: Trial	Pit			Date(s): 04/09/2020	Logged By: Ti		1		By: A	ιB
Client: Firetho	rn Bicest	er Ltd		Co-ords: 457316.27, 225334.36	Stability: No C	Collapse	Dim	ensio 2.5		Scale:
Hydrock Proje	ect No: C-	13603		Ground Level: 91.85m OD	Plant: 8T360		0.90m			1:25
	amples / Tes		Water- Strikes	Stratum Des	cription		ŧ	gl	(m) Level	Legend
Depth (m)	Туре	Results	Stilkes	Soft brown slightly sandy gravelly CLAY with fre	equent rootlets. Gravel	is angular to s	<u>ة</u> ub	E E	E B	Lee C
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)  Orangish brown sandy sub-angular to sub-roun (HEAD DEPOSITS)			0.	(0.	91.5	5
0.80	D			Light brown and cream sandy clayey sub-angul	lar to sub-rounded fine	to coarse	1 1.	00	90.8	5
1.30	D		_	limestone GRAVEL. (HEAD DEPOSITS)			1.	(0.3	90.5	5
							2			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.30m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.30m and 1.30m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydro				Project: North West Bicester Eco Development  Trialpit No TP22 Page No. 1 of 1							
riyurc	CK					Pa			1		
Method: Trial	l Pit			Date(s): 07/09/2020	Logged By: TE	·	Check			V	
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457316.92, 225307.16	Stability: No C	Collapse	Dimer	nsion 2.50m		cale:	
Hydrock Proje	ect No: C	-13603		Ground Level: 91.71m OD	Plant: 8T377		0.60m	2.30111		1:25	
S	amples / Te	sts	Water-	Stratum Descr	intion	'	£ _	Thickness (m)		pu€	
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with freq		is angular to au	Depth	H (E)	Level m OD	Legend	
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)			0.30	(0.30)	91.41		
0.40	D			Reddish brown gravelly clayey fine to coarse SAI fine to coarse of limestone. (HEAD DEPOSITS)	ND. Gravel is angula	r to sub angular		(0.30)		× ° × × × ° × × × ° × ×	
0.70	D			Weak fractured light brown and cream LIMESTOI (CORNBRASH FORMATION)	NE.		0.60	(0.50)	91.11	X	
					V Consultant and the fact		1 -	(0.50)	90.61		
1.20	D			Firm to stiff grey mottled light brown gravelly CLA to coarse of limestone. (CORNBRASH FORMATION)	Y. Gravel angular to	sub rounded fin	e				
							-	(0.90)			
2.00	HSV	99kPa		Firm locally stiff orangish brown and grey mottled	I CLAY with occasion	al shell fossils	2.00		89.71		
2.10 - 2.30 2.20	B D		_	(FOREST MARBLE FORMATION)			2.30	(0.30)	89.41		
				Base of Excavation a	t 2.30m		-				
							-				
							3 -				
							-				
							-				
							]				
							-				
							4 -				
							-				
							-				
							1				
							-				
							-				
							+				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.30m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

l la calle	II			Project: North West Bice Development	ester Eco		TI	ւթյ ⊃2			
Hydro	OCK			2313132110111		Pa			. <b>0</b> 1 of	1	
Method: Trial	l Pit			Date(s): 07/09/2020	Logged By: T				ed By		V
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457222.74, 225296.17	Stability: No C			nen	sions		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 90.99m OD	Plant: 8T378		108.0	n	2.50m	]	1:25
S	amples / Te	sts	Water-	Stratum De:	scription			£_	Thickness (m)	- D	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fi		l is angular to s		Depth mbgl	E E	Level m OD	Legend
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)		-	-	0.30	(0.30)	90.69	
0.50	D			Reddish brown clayey gravelly fine to coarse since to coarse of limestone.  (HEAD DEPOSITS)	SAND. Gravel is angula	ır to sub angula	-	0.60	(0.30)	90.39	×,°^, ; ,×, ×, ,×, ×,
0.70	D			Soft to firm light grey mottled light brown slight occasional calcareous nodules. Gravel is sub limestone. (CORNBRASH FORMATION)	tly sandy slightly gravel angular to sub rounded	ly CLAY with fine to coarse		J.60	(0.60)	90.39	
1.00	HSV	51kPa					1 -	4.00		00.70	
1.20 - 1.60	В			Firm fissured orangish brown and grey mottled shell fossils. Fissures are very closely to close oriented.  (FOREST MARBLE FORMATION)				1.20		89.79	
1.70	D								(1.10)		
2.10	HSV	74kPa					-				
				Base of Excavati	on at 2.30m		3	2.30		88.69	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.30m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development  TP24 Page No. 1 of 1  Date(s): 10/09/2020  Logged By: TB  Checked By: C						
riyarc	CIN				Pa	age N	o. ′	1 of	1	
Method: Trial	Pit			Date(s): 10/09/2020 Logged	Ву: ТВ					
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457331.91, 225252.40 Stability:	No Collapse	Dim		ions 2.50m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 90.75m OD Plant: 81	Г379	0.60m				1:25
Sa	amples / Te	sts	Water-	Stratum Description		£	;	Thickness (m)	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft reddish brown slightly sandy gravelly CLAY with frequent	rootlets. Gravel is and	ular	mbgl	ĔÊ	Level m OD	É É
0.10	ES			to sub angular fine to coarse of limestone. (TOPSOIL)	Toolioo. Graver is any	-		(0.40)	20.05	
0.50 0.50	D HSV	61kPa		Firm locally soft light brown slightly sandy gravelly CLAY. Gravangular fine to coarse of limestone. (HEAD DEPOSITS)	vel is angular to sub	-	40	(0.40)	90.35	
				Moderately weak to weak fractured light brown, cream and lo	cally orangish brown	0.8	80		89.95	
				LIMESTONE. (CORNBRASH FORMATION)		1 -	(	(0.50)		
1.30 - 2.00	В			Stiff orangish brown and grey mottled slightly gravelly sandy 0	OLAV Sand is fine to	1.3	30		89.45	
1.30 1.40	HSV D	111kPa		medium. Gravel is sub angular to sub rounded fine to medium (FOREST MARBLE FORMATION)		-	(	(0.70)		
						-				
				Base of Excavation at 2.00m		2 2.	00		88.75	
						-				
						-				
						-				
						3 -				
						-				
						-				
						-				
						4 -				
						-				
						1				
						-				

Hydro	ock			Project: North West Bices Development	Trialpi					
. Iy ar c	CIV					Pa	ge No	. 1 of	1	
Method: Tria	Pit			Date(s): 10/09/2020	Logged By: Te		Check			
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457373.28, 225305.07	Stability: No C	Collapse	Dimer	nsion 2.50m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 91.89m OD	Plant: 8T380		0.60m	2.00		1:25
S	amples / Te	sts	Water-	Stratum Desci	ription		£ _	Thickness (m)	D D	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with freq		is angular to su	Depth	H (E)	Level m OD	Legend
0.30 0.50 0.50 - 1.00	ES D B			angular fine to coarse of limestone.  (TOPSOIL)  Light brown, cream and orangish brown very clay to coarse GRAVEL of limestone with high cobble angular of limestone (HEAD DEPOSITS)	yey sandy angular to	sub angular fine	0.30	(0.30)	91.59	
				Stiff locally firm orangish and light brown gravelly	slightly sandy CLAY	with medium	1 -	(0.90)	90.69	
1.30 1.40	D HSV	101kPa		cobble and low boulder content. Gravel is angula limestone. Cobbles and boulders are angular to s (CORNBRASH FORMATION)	r to sub angular fine	to coarse of		(0.70)		
2.00	D		•	Firm to stiff orangish brown and grey mottled slig to medium. Gravel is sub angular to sub rounded (CORNBRASH FORMATION)			e 2 -	(0.50)	89.99	
				Base of Excavation a	at 2.40m		2.40		89.49	
							3 -			
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.10m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

l le calaca				Project: North West Bice Development	ster Eco		TP		)	
Hydro	CK			2 o totopino		Pa	ige N		f 1	
Method: Tria	l Pit			Date(s): 09/09/2020	Logged By: TE		Chec			В
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457422.03, 225323.71	Stability: No C	Collapse	Dime			Scale:
Hydrock Proj	ect No: C	-13603		Ground Level: 92.04m OD	Plant: 8T360		0.90m	2.50r		1:25
S	amples / Te	sts	Water-	Stratum Desc	crintion		ے	mbgl Thickness (m)	T_0	Pu
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fre		io angular to a	- Depth	Thick	Level	Legend
				angular fine to coarse of limestone.  (TOPSOIL)	quent rootiets. Gravei	ris arigular to s	- - -	(0.30	)	
				Firm to stiff orangish brown slightly sandy very g sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	gravelly CLAY. Gravel	is sub-angular	0.3 to	0	91.74	
								(0.90		
				Base of Excavation at 1.20m				0	90.84	
							3 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.20m and 1.20m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

	, II			Project: North West Bice Development	ester Eco		TP.			
Hydro	СК			Вотоюринопа		Pa	ige No		f 1	
Method: Tria	l Pit			Date(s): 11/09/2020	Logged By: Ti		Chec			V
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457465.91, 225349.95	Stability: No C	Collapse	Dime	nsior		Scale:
Hydrock Proj	ect No: C	-13603		Ground Level: 92.14m OD	Plant: 8T381		0.60m	2.5011		1:25
S	amples / Te	sts	Water-	Stratum De	scription		₽.	Thickness (m)	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fi	•	is angular to s	Depth du	Î Ĕ Œ	Level m OD	Leg WWW
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)		-	0.30	(0.30)	91.84	
0.50	D			Grey and reddish brown sandy angular to sub limestone with medium cobble and boulder co angular of limestone (HEAD DEPOSITS)	anguiar fine to coarse ntent. Cobbles and bou	GKAVEL OF Iders are sub		(0.60)		× × × × × × × × × × × × × × × × × × ×
1.00	D			Weak fractured orangish brown and reddish bi (CORNBRASH FORMATION)	rown LIMESTONE.		0.90		91.24	^:::•x^
1.50								(0.50)		
1.40	HSV	90kPa		Firm to stiff orangish brown and grey mottled			1.40		90.74	
1.50	D			occasional calcareous nodules. Sand is fine to rounded fine to medium of limestone. (CORNBRASH FORMATION)	o medium. Gravel is sub	angular to sub		(0.60)		
2.00 - 2.50	В						2.00		90.14	
				Firm to stiff orangish brown and light grey sligt angular fine to medium mudstone lithorelicts. (FOREST MARBLE FORMATION)	ntly gravelly sandy CLA	Y. Gravel is sub	' -	(0.50)		
				Base of Excavati	on at 2.50m		2.50		89.64	
							3 -			
							4 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

	. , II)			Project: North West Bicon Development	ester Eco		TF				
Hydro	CK			Dovolopilloni		Pa	ıı Ige N			1	
Method: Trial	Pit			Date(s): 11/09/2020	Logged By: TI		Che				<b>V</b>
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457511.39, 225387.50	Stability: No C	collapse	Dim			s: S	cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 92.23m OD	Plant: 8T382		0.60m		2.50m	] '	1:25
S	amples / Tes	sts	Water-	Stratum De	scription			s _	Thickness (m)	= 0	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fi	•	is angular to si		mbgl	E)	Level m OD	Legend
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)  Grey and reddish brown sandy angular to sub limestone with medium cobble and boulder co angular of limestone.	angular fine to coarse	GRAVEL of	-	.30	(0.30)	91.93	×
0.50	D			(HĒAD DEPOSITS)			0	.90	(0.60)	91.33	* * * * * * * * * * * * * * * * * * *
1.00	D			Firm to stiff orangish brown and grey mottled soccasional calcareous nodules. Sand is fine to rounded fine to medium of limestone. (CORNBRASH FORMATION)			-	.70	(0.80)	90.53	
1.80	D			Stiff orangish brown mottled grey slightly grave medium limestone and mudstone lithorelicts.	elly CLAY. Gravel is sub	angular fine to		.70		90.55	
2.00 - 2.50	В			(CORNBRASH FORMATION)			2		(1.10)		
2.70	D			Base of Excavati	ion at 2.80m		2	.80		89.43	• • • •
							4-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

ar a selection			Project: North West Bicester Eco Development  TP29  Page No. 1 of 1						
Hydrock			Pag						
Method: Trial Pit			Date(s): 09/09/2020	Logged By: Ti	'	Check			3
Client: Firethorn Bices	ter Ltd		Co-ords: 457541.49, 225339.37	Stability: No C		Dimen	sions		cale:
Hydrock Project No: C			Ground Level: 91.92m OD	Plant: 8T360	•	0.90m	2.50m	] 1	:25
Samples / Te		Water-	Charles Dec				ness	,	——— Р
Depth (m) Type	Results	Strikes	Stratum Des			Depth mbgl	Thickness (m)	m OD	Legend
			Soft brown slightly sandy gravelly CLAY with fre angular fine to coarse of limestone.  (TOPSOIL)	equent rootiets. Gravei	is angular to su	-	(0.30)		
			Light brown and cream sandy clayey sub-angul limestone GRAVEL with a high limestone cobble (HEAD DEPOSITS)		to coarse	0.30	(0.70)	91.62	
						1.00		00.03	×°, ′×°,
			Soft to firm orangish and light brown slightly sar angular to sub-angular limestone cobble conter limestone boulder content. Gravel is angular to	nt and a low angular to	sub-angular	1.00 1.10 e.	(0.10)	90.92	V U - V
			(HEAD DEPOSITS)  Base of Excavation	n at 1.10m		2			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.10m and 1.10m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

l la calle				Project: North West Bic Development	ester Eco		TF				
Hydro	CK			2070iopinone		Pa	ıge N			1	
Method: Tria	l Pit			Date(s): 11/09/2020	Logged By: T		Che				<b>/</b>
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457516.28, 225307.36	Stability: No C	Collapse	Dim			s: S	cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 91.99m OD	Plant: 8T383		0.60m		2.50m	]	1:25
S	amples / Te	sts	Water-	Stratum De	escription			s _ [	Thickness (m)	- O	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with		l is angular to s		mbgl	E)	Level m OD	Legend
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)		-	-	.30	(0.30)	91.69	
0.50	D			Grey and reddish brown sandy angular to sub limestone with medium cobble and boulder co angular of limestone. (HEAD DEPOSITS)	o angular fine to coarse ontent. Cobbles and bou	GRAVEL of Ilders are sub	-		(0.60)		
				Firm locally soft light grey and orangish brown	n slightly sandy gravelly	CLAY with	0	.90		91.09	* * * * * * * * * * * * * * * * * * *
1.00 - 1.50	В			occasional calcareous nodules. Gravel is ang limestone. (CORNBRASH FORMATION)			1 -				
1.40 1.50	HSV D	93kPa		becoming stiff below 1.40m.			-		(1.00)		
							-	.90		90.09	
2.00	D			Firm to stiff orangish brown and light grey slig angular to sub angular fine to coarse of limes (CORNBRASH FORMATION)		Y. Gravel is	2 -		(0.50)		
				Base of Excavat	ion at 2.40m			.40		89.59	
							3 -				
							-				
							4 -				
							-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used below 2.20m. 5. Trial pit backfilled with arisings on completion.

				Project: North West Bices	ster Eco		Trialpi			
Hydro	ck			Development		_	TP:			
Method: Trial				Data(a): 10/00/2020	Loggod By: Ti		ge No Check			
Client: Firetho		tor I td		Date(s): 10/09/2020 Co-ords: 457453.41, 225282.16	Logged By: TE Stability: No C		Dime		-	
				Ground Level: 91.85m OD	Plant: 8T384	oliapse	0.60m	2.50m		1:25
Hydrock Proje	amples / Tes		101-4	GIOUNU LEVEL 91.00III OD	FIAIIL 01304		0.00111	ssi		
Depth (m)	Туре	Results	Water- Strikes	Stratum Descr	ription		Depth	Thickness (m)	Level m OD	Legend
0.20	ES			Soft brown slightly sandy gravelly CLAY with freq angular fine to coarse of limestone. (TOPSOIL)				(0.30)	91.55	
0.50	D			Orangish brown clayey sandy angular to sub-ang limestone with medium cobble content. Cobbles (HEAD DEPOSITS)	gular fine to coarse G are angular to sub ar	RAVEL of Igular of limesto	- - -	(0.60)		
				Moderately weak orangish brown and grey LIME: (CORNBRASH FORMATION)	STONE.		1 -	(0.20)	90.95	
1.20	D			Firm to stiff orangish brown and light grey mottlet fine to medium. Gravel is sub angular to sub rour (CORNBRASH FORMATION)	d slightly gravelly san	dy CLAY. Sand of limestone.	is		30.73	
							2 -	(1.00)		
2.10 2.20 2.20 - 2.60	HSV D B	106kPa		Firm to stiff orangish brown, brown and grey mot Gravel is sub angular fine to medium mudstone li (FOREST MARBLE FORMATION)		andy CLAY.	2.10	(0.50)	89.75	
				Base of Excavation a	at 2.60m		3 - 4		89.25	

General Remarks:

1. Trial pit mechanically excavated. 2. Breaker used to advance trial pit between 0.90m and 1.10m. 3. Groundwater was encountered at 2.60m, flow rate slow.

4. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 5. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bices Development	ster Eco	٦	TP3			
					I		ge No			
Method: Trial					Logged By: TE		Check			
Client: Firetho	rn Bicest	er Ltd		Co-ords: 457472.89, 225221.03	Stability: No C	ollapse	Dimer -	1 <b>SION</b> 2.50m		cale:
Hydrock Proje	ect No: C-	-13603	Γ	Ground Level: 91.54m OD	Plant: 8T385		0.60m			1:25
	amples / Tes		Water- Strikes	Stratum Descr	ription		tt -	Thickness (m)	₽ C	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with freq angular fine to coarse of limestone.	uent rootlets. Gravel	is angular to su	p Depth	(0.30)	Level m OD	l Leg
0.30	ES			(TOPSOIL)  Orangish brown clayey sandy angular to sub ang	ular fine to coarse G	RAVEL of	0.30	(5.55)	91.24	
0.50	D			limestone with medium cobble content. Cobbles a (HEAD DEPOSITS)	are angular to sub an	iguiar of ilmesto	ne -	(0.60)		
1.00	D			Firm to soft orangish brown slightly gravelly sand angular fine to coarse of limestone. (HEAD DEPOSITS)	ly CLAY. Gravel is an	gular to sub	0.90	(0.30)	90.64	
1.20 - 2.20	В			Firm to stiff orangish brown and light grey mottled fine to medium. Gravel is sub angular to sub rour (CORNBRASH FORMATION)	d slightly gravelly san	dy CLAY. Sand of limestone.	1.20		90.34	
							2 -	(1.20)		
2.30	D			Base of Excavation a	it 2.40m		3 -		89.14	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Uradaa				Project: North West Bice Development	ester Eco		TF				
Hydro	CK					Pa	ıge N			1	
Method: Trial	Pit			Date(s): 10/09/2020	Logged By: TE		Che		/		
Client: Firetho	orn Biceste	er Ltd		Co-ords: 457519.10, 225249.32	Stability: No C	ollapse	Dim			s: S	cale:
Hydrock Proje	ect No: C-	13603		Ground Level: 91.69m OD	Plant: 8T386		0.60m		50m	]	1:25
Sa	amples / Test	S	Water-	Stratum Des	crintion		_ ا		Thickness (m)		pu
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fr		io angular to a		lgqm	Ë Œ	Level m OD	Legend
				angular fine to coarse of limestone.  (TOPSOIL)	equent rootiets. Graver	is angular to st	0.:		(0.30)	91.39	
0.30	ES D			Grey and reddish brown sandy angular to sub- limestone with medium cobble and boulder cor angular of limestone. (HEAD DEPOSITS)	angular fine to coarse ( ntent. Cobbles and bou	GRAVEL of Iders are sub	-		(0.50)	31.03	× × × × × × × × × × × × × × × × × × ×
0.90	D			Firm to stiff orangey brown and light grey mottl fine to medium. Gravel is sub angular to sub ro (CORNBRASH FORMATION)			0.8	30		90.89	***
				Firm to stiff orangey brown and light grey slight	the group live and a CLAN	Cravel is sub	- 1.0	60	(0.80)	90.09	
1.70	D			angular fine to medium mudstone lithorelicts. (CORNBRASH FORMATION)	ny gravelly sandy CLAT	. Graver is sub	2 -	(	(0.90)		
2.50	D			Base of Excavatio	n at 2.50m		3	50		89.19	

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.50m, flow rate slow. 3. Trial pit backfilled with arisings on completion.

ock			Project: North West Bices Development	ster Eco	<del>-</del>				
CIN									
l Pit			Date(s): 11/09/2020	Logged By: TE					
orn Bices	ter Ltd		Co-ords: 457578.94, 225338.11	Stability: No C	ollapse	Dimer			Scale:
ect No: C	-13603	,	Ground Level: 91.92m OD	Plant: 8T387		0.60m			1:25
		Water- Strikes	Stratum Descri	iption		tt 5	ickness	op	Legend
·	Results			uent rootlets. Gravel	is angular to su	ıb a i	£ E	a E	_ E
ES			angular fine to coarse of limestone. (TOPSOIL)			]	(0.30)		
D			Grey and reddish brown sandy angular to sub any limestone with medium cobble and boulder conteit angular of limestone (HEAD DEPOSITS)	gular fine to coarse ( nt. Cobbles and boul	GRAVEL of Iders are sub	0.30	(1.20)	91.62	
B HSV	140kPa		Very stiff reddish brown mottled grey slightly grave to medium limestone and mudstone lithorelicts. (CORNBRASH FORMATION)	elly CLAY. Gravel is	sub angular fine	1.50		90.42	* * * * * * * * * * * * * * * * * * *
HSV D	140kPa					2 -	(1.20)		
						2.70		90.22	
D		•	Base of Excavation at	i 2.70m		3		89.22	Tomas a
	ect No: C amples / Te Type ES  D  B HSV	B B HSV 140kPa	I Pit  orn Bicester Ltd  ect No: C-13603  ramples / Tests    Type   Results     ES     D     B   HSV   140kPa     D     D   D     D   D     D   D     D   D	Development  Date(s): 11/09/2020  Orn Bicester Ltd  Co-ords: 457578.94, 225338.11  ect No: C-13603  amples / Tests  Type Results  ES  Soft brown slightly sandy gravelly CLAY with freq angular fine to coarse of limestone. (TOPSOIL)  Grey and reddish brown sandy angular to sub an limestone with medium cobble and boulder conte angular of limestone (HEAD DEPOSITS)  Very stiff reddish brown mottled grey slightly grav to medium limestone and mudstone lithorelicts. (CORNBRASH FORMATION)  HSV 140kPa  D	I Pit Date(s): 11/09/2020 Logged By: TE Orn Bicester Ltd Co-ords: 457578.94, 225338.11 Stability: No Coect No: C-13603 Ground Level: 91.92m OD Plant: 8T387 Stratum Description  Type Results Strikes Stratum Description  ES Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel angular fine to coarse of limestone. (TOPSOIL)  Grey and reddish brown sandy angular to sub angular fine to coarse of limestone with medium cobble and boulder content. Cobbles and boul angular of limestone (HEAD DEPOSITS)  Very stiff reddish brown mottled grey slightly gravelly CLAY. Gravel is to medium limestone and mudstone lithorelicts. (CORNBRASH FORMATION)	Development  Development  Development  Date(s): 11/09/2020	Development    Pit	Development  TP34  Page No. 1 of Page No. 1	Development  TP34  Page No. 1 of 1  I Pit

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.70m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used below 2.60m. 5. Trial pit backfilled with arisings on completion.

l la calle				Project: North West Bio Development	ester Eco			iipit P3	1NO 35		
Hydro	CK					Pa			1 of	1	
Method: Tria	l Pit			Date(s): 11/09/2020	Logged By: T				ed B		V
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457580.50, 225272.24	Stability: No C	Collapse	Dir		sion	s: S	cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 91.57m OD	Plant: 8T388		0.60		د.نااال 	]  ·	1:25
S	amples / Te	sts	Water-	Stratum De	scription			₽_	Thickness (m)	- Q	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with f	•	l is angular to si	ıp	Depth mbgl	(F)	Level m OD	Legend
				angular fine to coarse of limestone.	roquone roomoto. Oravo	no ungular to ot			(0.30)		
0.30	ES			(TOPSOIL)  Grey and reddish brown sandy angular to sub	angular fine to coarse	GRAVEL of		0.30		91.27	
0.40	D			limestone with medium cobble and boulder co angular of limestone	ontent. Cobbles and bou	lders are sub					
0.50 - 1.20	В			(HEAD DEPOSITS)							
							-		(0.90)		
							-		(0.00)		
							1 -				
							-	1.20		90.37	
1.30	D			Soft to firm light grey and orangey brown sligh calcareous nodules and medium cobble conte				1.20		90.37	
1.40	HSV	72kPa		to coarse of limestone. Cobbles are angular to	o sub angular of limesto	ne.			(0.40)		
				(HEAD DEPOSITS)			-	1.60		89.97	
1.70	D			Firm to stiff orangey brown and light grey sligh angular fine to medium mudstone lithorelicts.	ntly gravelly sandy CLA	Y. Gravel is sub					
				(CORNBRASH FORMATION)			-				
							2 -		(0.80)		
2.40	D			Base of Excavati	ion at 2.40m			2.40		89.17	
							-				
							3 -				
							-				
							-				
							-				
							-				
							4 -				
							-				
							-				
							-				
		i .	1	ĺ			-	1	1		1

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bices Development	ster Eco	-	Trialpit			
							ge No.			
Method: Trial					Logged By: TE		Check			
Client: Firetho				Co-ords: 457624.36, 225292.42	Stability: No C	ollapse	Dimen	2.50m		cale:
Hydrock Proje	ect No: C	-13603	T	Ground Level: 91.46m OD	Plant: 8T389		0.60m		_للـ	1:25
	amples / Te		Water- Strikes	Stratum Descr	ription		£ -	Thickness (m)	D G	Legend
Depth (m)	Туре	Results	Stikes	Soft brown slightly sandy gravelly CLAY with freq	juent rootlets. Gravel	is angular to su	d Depth mbgl	ĒĒ	Level m OD	ğ'
0.30 0.40	ES D			angular fine to coarse of limestone. (TOPSOIL)  Moderately weak grey and reddish brown LIMES (CORNBRASH FORMATION)	•		0.30	(0.30)	91.16	
							1 -	(1.30)		
1.60 1.60	D HSV	140kPa		Very stiff reddish brown mottled grey slightly grav to medium mudstone lithorelicts. (CORNBRASH FORMATION)	velly CLAY. Gravel is	sub angular fine	-	(0.40)	89.86	
				Stiff orangish brown mottled grey slightly gravelly medium mudstone lithorelicts. (CORNBRASH FORMATION)	r CLAY. Gravel is sub	angular fine to	2 2.00	(0.40)	89.46	* * * * * * * * * * * * * * * * * * * *
2.40	D			Base of Excavation a	at 2.40m		3		89.06	

Hydro	ck			Project: North West Bices Development	ster Eco	-	Trialp				
iyuic	CIN					Pa	ge N	o. 1	of	1	
Method: Trial	Pit			Date(s): 14/09/2020	Logged By: C		Chec				
Client: Firetho	rn Bices	ter Ltd		Co-ords: 457677.77, 225262.83	Stability: No C	ollapse	Dime		ions .00m	: S	cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 91.25m OD	Plant: 8T390		0.80m			]	1:25
Sa	amples / Te	sts	Water-	Stratum Desc	rintion		£	_ 000	(m)	<del>-</del> 0	pue
Depth (m)	Туре	Results	Strikes			al as atlata. Cons	Dept	m F	ĒŒ.	Level m OD	Legend
0.10 - 0.30 0.20	B ES			Soft brown organic slightly sandy slightly gravelly is sub-angular to rounded fine to coarse limestor (TOPSOIL)  Moderately weak fractured light grey and orangis	ne.		rel		0.30)	90.95	
0.60	D			(CORNBRASH FORMATION)	BI DIOWITEIMESTONI		1 -	(1	1.30)		
2.00 2.00	B HSV	97kPa		Stiff light grey mottled orangish brown slightly sa sub-angular to sub-rounded fine to coarse limest (CORNBRASH FORMATION)		CLAY. Gravel is	1.6		0.90)	89.65	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)  Base of Excavation :	at 2.52m		2.5. 2.5	0 (0	0.02)	88.75	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 1.30m and 1.60m. 5. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			Trialpit			
							age No.			
lethod: Tria				Date(s): 14/09/2020	Logged By: C		Check			
Client: Firetho				Co-ords: 457603.35, 225224.79	Stability: No C	ollapse	Dimen	2.00m		
lydrock Proj			1	Ground Level: 91.23m OD	Plant: 8T391		1.00m	T	_	1:25
Depth (m)	amples / Te	sts Results	Water- Strikes	Stratum De	scription		Septh nbgl	Thickness (m)	Level m OD	Legend
0.10	ES			Soft brown organic slightly sandy slightly grav is sub-angular to rounded fine to coarse limes (TOPSOIL)	tone.	al rootlets. Gra	avel -	(0.30)	90.93	
0.50	ES			Moderately weak light grey mottled orangish b (CORNBRASH FORMATION)	orown LIMESTONE.		-	(0.70)	-	
0.80	D			Base of Excavati	on at 1.00m		1.00		90.23	
							2-			
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used to advance trial pit between 0.50m and 1.00m. 4. Trial pit backfilled with arisings on completion.

۔ لم يال	الما			Project: North West Bice Development	ester Eco		TP	)39	J	
Hydro	CK			/ - / - / - / - / - / - / - / - / -		Pa	ige N		of 1	
Method: Tria	l Pit			Date(s): 10/09/2020	Logged By: Ti		Chec			V
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457549.96, 225193.34	Stability: No C	Collapse	Dime	ensio 2.50		Scale:
Hydrock Proj	ect No: C	-13603		Ground Level: 91.18m OD	Plant: 8T392		0.60m	2.30		1:25
S	amples / Te	sts	Water-	Stratum Des	scription		£	mbgl Thickness	= Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fr	·	is angular to s	rp Ge	Thickn	Level m OD	Leg WWW
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)			0.3	(0.30	90.88	3
0.50 - 1.00	В			Grey and reddish brown sandy angular to sub limestone with medium cobble and boulder cor angular of limestone. (HEAD DEPOSITS)	angular fine to coarse (	GRAVEL of Iders are sub		(0.70	)	
1.10	D			Firm to stiff orangish brown and light grey mott fine to medium. Gravel is sub angular to sub ro (CORNBRASH FORMATION)	tled slightly gravelly sar ounded fine to medium	ndy CLAY. Sand of limestone.	1.0	0	90.11	3
1.40	HSV	101kPa					-	(1.00	)	
2.10	D			Firm to stiff orangey brown and light grey sligh angular fine to medium mudstone lithorelicts. (CORNBRASH FORMATION)  Base of Excavatic		/. Gravel is sub	2 2.0	(0.20	89.18	
							3-			

Hydrock			Project: North West Bicester Eco  Development  Trialpit No  TP40  Page No. 1 of 1						
Hydrock				Pa	ige No	. 1 of	1		
Method: Trial Pit			Date(s): 09/09/2020	Logged By: Ti	3	Check			
Client: Firethorn Bice	ster Ltd		Co-ords: 457567.86, 225169.51	Stability: No C	ollapse	Dimer	nsion <sup>2.50m</sup>		cale:
Hydrock Project No:	C-13603		Ground Level: 90.98m OD	Plant: 8T360		0.90m			1:25
Samples / T	ests	Water-	Stratum De	scription		£ -	Thickness (m)	- Q	Legend
Depth (m) Type	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fi	requent rootlets. Gravel	is angular to s	dr Depth	ĔĒ	Level m OD	, ref
			angular fine to coarse of limestone. (TOPSOIL)  Firm to stiff orangish brown slightly sandy very sub-rounded fine to coarse limestone. (HEAD DEPOSITS)		-	0.30	(0.30)	90.68	
			Soft to firm orangish and light brown slightly sandy gravelly CLAY with a media angular to sub-angular limestone cobble content and a low angular to sub-angular limestone boulder content. Gravel is angular to sub angular fine to coarse of lin (HEAD DEPOSITS)  Base of Excavation at 1.40m				(0.30)	89.88 89.58	
						2			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.40m and 1.40m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

l levalue				Project: North West Bicester Eco Development				TP41			
Hydro	CK					Pa	ıge N			1	
Method: Tria	l Pit			Date(s): 10/09/2020	Logged By: TI		Che				v
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457530.09, 225155.04	Stability: No C	Collapse	Dim		ions	s: S	cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 90.82m OD	Plant: 8T393		0.60m		2.50111	]	1:25
S	Samples / Te	sts	Water-	Stratum Des	scription			<u> </u>	Thickness (m)	₩ Q	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with fr		is angular to s	ıb dı	mbgl	Ē.	Level m OD	Legend
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)	-	g	-	.30	(0.30)	90.52	
0.50	D			Grey and reddish brown sandy angular to sub limestone with medium cobble and boulder cor angular of limestone. (HEAD DEPOSITS)	angular fine to coarse l ntent. Cobbles and bou	GRAVEL of Iders are sub	-		(0.80)		
1.20 1.20	D HSV	87kPa		Firm to stiff orangey brown and light grey mottl fine to medium. Gravel is sub angular to sub ro (CORNBRASH FORMATION)	ed slightly gravelly san ounded fine to medium	dy CLAY. Sand of limestone.	1 - 1 is	.10		89.72	× × × × × × × × × × × × × × × × × × ×
									(0.90)		
2.00	D			Base of Excavation	on at 2.00m		3	.00		88.82	
							-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydrock			Project: North West Bicester Eco Development		TP42				
CK					Pa			1	
Pit			Date(s): 14/09/2020	Logged By: C		ř –			/
orn Bicest	ter Ltd		Co-ords: 457557.07, 225130.97	Stability: No C	Collapse	Dimen		s: S	cale:
ect No: C	-13603		Ground Level: 90.37m OD	Plant: 8T394		0.80m	2.20111		1:25
amples / Tes	sts	Water-	Stratum De	escription		£_	kness	= 0	pue
Туре	Results	Strikes			nal rootlets. Gra		(F)	Leve	Puegend
ES					ai rodicis. Gra		(0.35)		
ES			Moderately weak light grey mottled orangish to (CORNBRASH FORMATION)	orown LIMESTONE.		0.35		90.02	
В						0.90	(0.55)	89.47	
HSV	73kPa				Gravel is sub-	1 -		05.47	
D							(0.90)		
			(CORNBRASH FORMATION)			1.80	(6.00)	88.57	
	Pit  orn Bicest ect No: Comples / Tes Type  ES ES  B  HSV	Pit  orn Bicester Ltd  ect No: C-13603  amples / Tests  Type Results  ES  ES  B  HSV 73kPa	Pit  orn Bicester Ltd  ect No: C-13603  amples / Tests  Type Results  ES  ES  B  HSV 73kPa	Pit Date(s): 14/09/2020  orn Bicester Ltd Co-ords: 457557.07, 225130.97  ect No: C-13603  amples / Tests Water- Type Results Water- Strikes Soft brown organic slightly sandy slightly grav is sub-angular to rounded fine to coarse limes (TOPSOIL)  B  HSV 73kPa Moderately weak light grey mottled orangish I (CORNBRASH FORMATION)  Moderately weak light grey mottled orangish I (CORNBRASH FORMATION)	Development  Date(s): 14/09/2020 Logged By: Corn Bicester Ltd  Co-ords: 457557.07, 225130.97 Stability: No Corn Bicester Ltd  Co-ords: 457557.07 Sta	Pit Date(s): 14/09/2020 Logged By: CA orn Bicester Ltd Co-ords: 457557.07, 225130.97 Stability: No Collapse act No: C-13603 Ground Level: 90.37m OD Plant: 8T394  amples / Tests Water- Type Results Strikes Stratum Description  Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gra is sub-angular to rounded fine to coarse limestone. (TOPSOIL)  Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub- angular to sub-rounded fine to coarse limestone. (CORNBRASH FORMATION)	Pit Date(s): 14/09/2020 Logged By: CA Check orn Bicester Ltd Co-ords: 457557.07, 225130.97 Stability: No Collapse Dimension of Colla	Pit Date(s): 14/09/2020 Logged By: CA Checked B orn Bicester Ltd Co-ords: 457557.07, 225130.97 Stability: No Collapse ot No: C-13603 Ground Level: 90.37m OD Plant: 87394 Osom Strikes Stratum Description Strikes Stratum Description Strikes Stratum Description Soft brown organic slightly sandy slightly gravelly CLAY with occasional rooflets. Gravel is sub-angular to rounded fine to coarse limestone.  ES Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBRASH FORMATION)  Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBRASH FORMATION)	Pit Date(s): 14/09/2020 Logged By: CA Checked By: CV orn Bicester Ltd Co-ords: 457557.07, 225130.97 Stability: No Collapse Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603 Ground Level: 90.37m OD Plant: 87394 Dimensions: Set No: C-13603

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.35m and 0.90m. 5. Trial pit backfilled with arisings on completion.

l le calaca				Project: North West Bicester Eco Development				11 NO		
Hydro	CK					Pa	ige No		f 1	
Method: Tria	l Pit			Date(s): 15/09/2020	Logged By: C		Chec			V
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457551.32, 225096.11	Stability: No C	Collapse	Dime	nsior		Scale:
Hydrock Proj	ect No: C	-13603		Ground Level: 88.86m OD	Plant: 8T395		0.70m	2.2011		1:25
S	amples / Te	sts	Water-	Stratum De:	scription		£.	Thickness (m)	- Q	pue
Depth (m)	Туре	Results	Strikes	Soft brown locally grey organic slightly sandy		uent rootlets	Depth	E E	Level m OD	Legend
0.10	ES			Gravel is angular to sub angular fine to coarse (TOPSOIL)		dont rootioto.		(0.30)		
				Soft yellowish brown and orangish brown sligh		lly CLAY. Grave	0.30 el is		88.56	
0.40	D			sub-angular to sub-rounded fine to coarse lime (HEAD DEPOSITS)	estone.		1	(0.40)		
							0.70		88.16	
				Weak light yellowish brown LIMESTONE with (FOREST MARBLE FORMATION)	occasional bands of cla	ıy.	- 0.70		00.10	
							-			
							1-			
								(1.15)		
1.40	В									
			•				-			
				Stiff light bluish grey slightly sandy slightly gra	velly CLAY. Gravel is su	ıb-angular to su	1.85 ib-		87.01	
2.00	HSV	113kPa		rounded fine limestone. (FOREST MARBLE FORMATION)			2 -			
2.20	D						1			
							-	(0.90)		
2.50	HSV	120kPa					-			
							-			
				Moderately weak light grey LIMESTONE.			2.75		86.11 86.06	
				(FOREST MARBLE FORMATION)  Base of Excavation	on at 2.80m		/			
							3 -			
							-			
							]			
							}			
							4 -			
							_			
							=			
							_			
	I.	I .	1	1			-	1	1	1 1

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.75m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

				Project: North West Bicester Eco Development			Trialpi			
Hydro	ck			Development			TP4			
							ge No			
Method: Trial				` '	Logged By: C		Check			
Client: Firetho	orn Bices	ter Ltd			Stability: No C	ollapse	Dime	1SION 2.20m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 86.38m OD	Plant: 8T396		0.70m			1:25
	amples / Te		Water- Strikes	Stratum Descr	ription		th.	Thickness (m)	₽ C	Legend
Depth (m)	Туре	Results	Olines	Soft orangish brown organic slightly sandy slightly	y gravelly CLAY with	frequent rootle	Depth	<u> </u>	Level m OD	Ě
0.10	ES D			and occasional roots. Gravel is angular to sub an (TOPSOIL)  Soft locally firm orangish brown slightly sandy slig roots and rootlets. Gravel is sub-angular to sub-ro (HEAD DEPOSITS)	ghtly gravelly CLAY v	vith occasional	0.35	(0.35)	86.03	
0.50 0.60	HSV ES	55kPa		(HEAD DEI GOITG)			1.00	(0.65)	85.38	
				Moderately strong fractured light grey LIMESTON (FOREST MARBLE FORMATION)	NE.		1 1.50		00.00	
								(0.30)		
1.50 1.60	HSV D	137kPa		Very stiff light grey slightly sandy slightly gravelly limestone cobble content. Gravel is sub-angular t limestone. (FOREST MARBLE FORMATION)			1.30	(0.75)	85.08	
				Moderately weak light grey LIMESTONE.			2 - 2.05 2.10		84.33 84.28	
				(FOREST MARBLE FORMATION)  Base of Excavation a	it 2.10m		3-			

Hydro	ck			Project: North West Bice Development	ster Eco		Trialp <b>TP</b>				
							ige N				
/lethod: Trial				Date(s): 14/09/2020	Logged By: C		Chec		_		
Client: Firetho	orn Bicest	er Ltd		Co-ords: 457609.26, 225102.45	Stability: No C	ollapse	Dime	nsio			i
lydrock Proje				Ground Level: 90.04m OD	Plant: 8T397		0.60m			<u> </u>	1:25
	amples / Tes		Water- Strikes	Stratum Desc	cription		pth	mbgl Thickness	_	Level m OD	Legend
Depth (m)	Туре	Results	Cuntoo	Soft brown organic slightly sandy slightly gravel	lly CLAY with occasion	al rootlets. Gra	vel	필	Ε.	a e	<u>.</u>
0.10 0.50 0.70	ES ES D			is sub-angular to rounded fine to coarse limesto (TOPSOIL)  Soft locally firm yellowish brown locally orangist CLAY with a medium sub-rounded limestone co sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	one. h brown slightly sandy	slightly gravelly	- 0.4	(0.4		89.64	
1.30	D			Moderately weak fractured yellowish brown and (CORNBRASH FORMATION)	i grey LIMESTONE.		0.9	(0.9		89.09	
1.90	D			Base of Excavation	-14 000		1.9	0		88.14	
							2				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development				oit <b>94</b>	No 6		
							ge N				
Method: Trial				Date(s): 14/09/2020	Logged By: C	4	Che				
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457615.45, 225150.59	Stability: No C	ollapse	Dim		sions 2.20m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 90.57m OD	Plant: 8T398		0.80m	느			1:25
Sa	amples / Te	sts	Water-	Stratum Descr	ription		£	;_	Thickness (m)	= Q	pue
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly gravelly		al rootlets. Gra	/el	mbgl	ĒĒ	Level m OD	Legend
0.20 0.50 - 0.60	ES B			is sub-angular to rounded fine to coarse limeston (TOPSOIL)  Moderately weak yellowish brown and grey LIME (CORNBRASH FORMATION)	e.	ai roollets. Gra	-	40	(0.40)	90.17	
0.50 - 0.60	В						1 -	20	(0.80)	89.37	
1.30 1.40 1.80 - 1.90	D HSV B	107kPa		Stiff orangish brown locally grey slightly sandy sli angular to sub-rounded fine to coarse limestone. (CORNBRASH FORMATION)		Gravel is sub-			(0.75)		
				Moderately weak light grey and orangish brown L	IMESTONE.			95	(0.05)	88.62 88.57	
				(FOREST MARBLE FÖRMATION)  Base of Excavation a	at 2:00m		3 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.60m and 1.20m. 5. Trial pit backfilled with arisings on completion.

Hydro	sek			Project: North West Bicester Eco Development			TP47					
riyurc	CK					Pa	age N			1		
Method: Tria	l Pit			Date(s): 09/09/2020	Logged By: Ti	3	Che	cked	d By	: AE	3	
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457660.19, 225226.62	Stability: No C	Collapse	Dim		ions 50m	: S	cale:	
Hydrock Proj	ect No: C	-13603		Ground Level: 91.09m OD	Plant: 8T360		0.90m			] 1	1:25	
S	amples / Te	sts	Water-	Stratum Desc	ription		ŧ		Kuess	<del>-</del> □	pue	
Depth (m)	Туре	Results	Strikes			is angular to s	ub	mbg H	ĒĒ.	n o K	Ľeğ.	
			Water- Strikes	Soft brown slightly sandy gravelly CLAY with free angular fine to coarse of limestone. (TOPSOIL)  Stiff orangish brown very gravelly CLAY. Gravel is coarse limestone. (HEAD DEPOSITS)  Base of Excavation is	quent rootlets. Gravel		0. 0.	30	0.30)	90.79	pueden	
							4 -					

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.10m and 1.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydro	vck ⊪			Development					Νο <b>8</b>		
lyurc	CK					Pa	age N	ο.	1 of	1	
/lethod: Trial	l Pit			Date(s): 14/09/2020	Logged By: C	4	Che				
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457718.62, 225231.47	Stability: No C	ollapse	Dim		sion: <sup>2.20m</sup>	s: S	cale:
lydrock Proje	ect No: C	-13603		Ground Level: 90.95m OD	Plant: 8T399		0.80m				1:25
Sa	amples / Te	sts	Water-	Stratum Des	scription		£	; _	Thickness (m)	<sub>∞</sub> □	pue
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly grave	•	al rootlets. Gra	vol.	gqm	Thic (m)	Level m OD	Legend
0.20	ES			is sub-angular to rounded fine to coarse limest (TOPSOIL)	one.		0.:		(0.30)	90.65	
0.50 0.55	ES D			Soft orangish brown slightly gravelly sandy CL limestone cobble content. Gravel is sub-angula limestone. (HEAD DEPOSITS)	AY with a medium sub- ar to sub-rounded fine to	rounded o coarse	0.0		(0.30)	90.35	
0.70	D			Moderately weak light grey locally orangish bro (CORNBRASH FORMATION)	own LIMESTONE.		-	50		90.33	
						1 -		(0.80)			
				Stiff grey locally orangish brown slightly sandy	slightly gravelly CLAY.	Gravel is sub-	1.0	40		89.55	
1.60	HSV	92kPa		angular to sub-rounded fine to coarse limeston (CORNBRASH FORMATION)			-				
1.80	D						2 -		(0.80)		
				Base of Excavatio	on at 2.20m		2.:	20		88.75	
							-				
							3 -				
							4 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.70m and 1.40m. 5. Trial pit backfilled with arisings on completion.

Hydro	ck II			Project: North West Bicester Eco Development				Trialpit No TP49			
riyuru	CK					Pa	ige No	. 1 o	1		
Method: Trial	Pit			Date(s): 14/09/2020	Logged By: C	A	Checl	ked E	y: C	V	
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457666.00, 225175.64	Stability: No C	Collapse	Dime	nsion		cale:	
Hydrock Proje	ect No: C	-13603		Ground Level: 90.62m OD	Plant: 8T400		0.60m	2.0011		1:25	
Sa	amples / Te	sts	Water-	Stratum Descr	ription		£.	Thickness (m)		pue	
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly gravelly		al rootlets Gra	Depth	E H	Level m OD	Legend	
0.10	ES			is sub-angular to rounded fine to coarse limeston (TOPSOIL)  Soft orangish brown locally grey slightly gravelly:	e.		0.35	(0.35)	90.27		
0.50 0.60	ES D			rounded limestone cobble content. Gravel is sub- limestone. (HEAD DEPOSITS)	-angular to sub-round	ded fine to coar	se	(0.55)			
1.10	D			Light orangish brown sandy sub-angular to sub-re GRAVEL. (HEAD DEPOSITS)	ounded fine to coarso	e limestone	0.90	(0.50)	89.72		
				Firm light orangish brown locally grey slightly san sub-angular to sub-rounded fine to coarse limest		CLAY. Gravel is	1.40		89.22		
1.60 1.70	HSV D	75kPa		(CORNBRASH FORMATION)		2 -	(0.90)				
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)  Base of Excavation a	at 2.32m		3 - 4 - 4 -	(0.02)	88.32		

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydra	ydrock Development Page 1 Page 2 Page							alpit P5	No 50		
									1 of		
Method: Tria				Date(s): 14/09/2020	Logged By: Ca				ed B		
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457668.30, 225114.13	Stability: No C	ollapse	Dir		sion: 2.00m		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 89.66m OD	Plant: 8T401		0.60	)m	_		1:25
Depth (m)	Type	sts Results	Water- Strikes	Stratum Des	•			Depth mbgl	Thickness (m)	Level m OD	Legend
0.20 0.30 - 0.50	ES B			Soft brown organic slightly sandy slightly grave is sub-angular to rounded fine to coarse limesto (TOPSOIL)		al rootlets. Gra	vel	0.50	(0.50)	89.16	
0.60	ES			Soft orangish brown locally grey slightly gravell sub-rounded limestone cobble content. Gravel coarse limestone. (HEAD DEPOSITS)			-				
1.00 1.00	D HSV	72kPa		becoming firm below 1.00m.			1 -	1.70	(1.20)	87.96	
1.75	D			Moderately strong light grey and orangish brow (CORNBRASH FORMATION)  Base of Excavation  Base of Excavation			3-	1.80	(0.10)	87.86	

Hydro	ock			Development				t No 51	)	
					T		ge No			
/lethod: Trial				Date(s): 15/09/2020	Logged By: CA		Check			
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457639.94, 225072.92	Stability: No C	ollapse	Dime	1 <b>SİOI</b> 2.00r	n	Scale:
lydrock Proje	ect No: C	-13603		Ground Level: 88.13m OD	Plant: 8T402		0.60m	_		1:25
	amples / Te		Water- Strikes	Stratum Desc	ription		£ -	Thickness (m)	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with free	quent rootlets. Gravel	is angular to su	Depth	ĒĒ	Level m OD	Le E
0.10 0.10 - 0.20	ES B			angular fine to coarse of limestone. (TOPSOIL)			0.30	(0.30	87.83	
0.40	ES			Soft orangish brown locally grey slightly sandy sl angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	lightly gravelly CLAY.	Gravel is sub-				
0.60	D						100	(0.70		
1.20	D			Weak fractured light yellowish brown LIMESTON (FOREST MARBLE FORMATION)	IE with occasional bed	ds of clay.	1.00		87.10	
2.00	D							(1.40	h	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION) Base of Excavation :	at 2.45m		2.40	(0.05	85.73 85.68	3
							4-			
							5-			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

				Project: North West Bice Development	ester Eco		TF				
Hydro	OCK			Вечеюринен		Pa	ige N			1	
Method: Tria	l Pit			Date(s): 09/09/2020	Logged By: TE		Che				3
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457618.16, 225044.24	Stability: No C		Dim	ens	ions		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 86.94m OD	Plant: 8T360		0.90m		2.50m	] 1	1:25
S	amples / Te	sts	Water-	Stratum Des	crintion		2		Thickness (m)		- Pu
Depth (m)	Туре	Results	Strikes	Soft reddish brown slightly sandy gravelly CLAY		Gravel is and	ular	mpgl	H E	Level m OD	Pregend
				to sub angular fine to coarse of limestone.  (TOPSOIL)	with frequent rootiets	. Graver is any			(0.30)		
				Light reddish brown sandy clayey sub-angular to a high limestone cobble content. (HEAD DEPOSITS)  Weak grey LIMESTONE. (FOREST MARBLE FORMATION) Base of Excavation		one GRAVEL w	1 -	20	(1.08)	86.64 85.56 85.54	
							3-				
							5 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.40m and 1.40m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydro	Hydrock  ethod: Trial Pit			Project: North West Bicester Eco Development			TP			
				D-4-(-): 45/00/0000	D 0			0. 1 0		.,
					Logged By: C			ked E		v Scale:
Client: Firetho					Stability: No C	Опароо		2.00m	1	1:25
Hydrock Proje				Ground Level: 85.45m OD	Plant: 8T403		0.60m			
Depth (m)	amples / Tes	SIS Results	Water- Strikes	Stratum Descr	ription		Depth	mbgl Thickness (m)	evel n OD	Legend
0.10	ES			Soft orangish brown organic slightly sandy slightl Gravel is angular to sub angular fine to medium of (TOPSOIL)	of limestone.		0.35	(0.35)		
0.50 - 0.60	В			Soft orangish brown slightly gravelly sandy CLAY angular to sub-rounded fine to medium limestone (HEAD DEPOSITS)	with rare rootlets. G	ravel is sub-	1-	(1.05)		
1.40 - 1.45	D			Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)  Base of Excavation a	at 1.45m		1.44	)   (0.05)	84.00	

Hydrock  Method: Trial Pit				Project: North West Bico Development	ester Eco		TP:			
							ige No			
Method: Tria	Pit			Date(s): 15/09/2020	Logged By: C	A	Check			
Client: Firetho	rn Bicest	ter Ltd		Co-ords: 457685.81, 225051.05	Stability: No C	ollapse	Dime	nsion <sup>2.50m</sup>		Scale:
Hydrock Proj	ect No: C	-13603		Ground Level: 87.47m OD	Plant: 8T404		0.70m			1:25
	amples / Tes		Water- Strikes	Stratum De	scription		tt.	Thickness (m)	D G	Legend
Depth (m)	Туре	Results	Ottikes	Soft brown locally grey slightly sandy slightly g	gravelly CLAY with rare	gravel sized	Depth	ĒĒ	Level m OD	<u> </u>
0.20	ES			fragments of brick, concrete and plastic. Gravi coarse limestone. (MADE GROUND)	-		0.35	(0.35)	87.12	
0.50 0.60	ES D			Soft reddish brown locally grey slightly sandy angular to sub-rounded fine to coarse limestor (HEAD DEPOSITS)		Gravel is sub-	-	(0.40)		
1.00	D			Moderately weak fractured light yellowish brov (FOREST MARBLE FORMATION)	wn and grey LIMESTON	E.	1 -		86.72	
2.00 - 2.10	В						2 -	(1.45)		
2.30 2.40	HSV D	140kPa		Very stiff bluish grey slightly sandy slightly gra rounded fine to coarse mudstone and limestor (FOREST MARBLE FORMATION)		ib-angular to su	2.20 b-	(0.80)	85.27	
3.00 3.00	D HSV	140kPa		Base of Excavati	on at 3.00m		4 -		84.47	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydrock		Project: North West Bice:	ster Eco		TF						
Hydro	ock			Development		Do				1	
Method: Tria	l Pit			Date(s): 09/09/2020	Logged By: Ti		ge N Che				3
Client: Firetho		ter Ltd		Co-ords: 457688.87, 225088.29	Stability: No C				sions		cale:
Hydrock Proj				Ground Level: 88.92m OD	Plant: 8T360		0.90n		2.50m	1  ر	1:25
	amples / Te		Water-		1			Ī	ness	_	
Depth (m)	Туре	Results	Strikes	Stratum Desc				Depth mbgl	Thickness (m)	Level m OD	Legend
				Soft brown slightly sandy gravelly CLAY with free angular fine to coarse of limestone. (TOPSOIL)	quent rootiets. Gravei	is angular to s			(0.25)		
					angular to sub-angul r fine to coarse of lim	ar limestone	1-	0.25	(0.25)	88.67	
							5 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 1.00m and 2.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bicester Eco Development			Trial <b>TF</b>				
							ge N				
Method: Trial					Logged By: CA		Che				
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457724.32, 225084.99	Stability: No C	ollapse	Dim		SION: 2.20m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 89.14m OD	Plant: 8T405		0.60m	느			1:25
	amples / Te		Water- Strikes	Stratum Descri	ption		ŧ	= =	Thickness (m)	le C	Legend
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly gravelly (	CLAY with occasion	al gravel sized	Š	mbgl	ĘĒ.	Level m OD	<u> </u>
0.20	ES			fragments of concrete. Gravel is sub-angular to su (MADE GROUND)	ıb-rounded fine to co	parse limestone		.25	(0.25)	88.89	
0.40	ES			Light orangish brown and grey sandy sub-angular limestone GRAVEL with a medium sub-rounded lir (HEAD DEPOSITS)	to sub-rounded fine mestone cobble con	to coarse tent.	-				
0.70	D						1 -		(1.05)		
				Stiff light grey locally orangish brown slightly sands sub-angular to sub-rounded fine to coarse limestor		AY. Gravel is	1.	.30		87.84	
1.60 1.70	HSV D	95kPa		(FOREST MARBLE FORMATION)			-		(0.65)		
				Moderately weak light grey LIMESTONE. \((FOREST MARBLE FORMATION)\) Base of Excavation at	2.00m			95	(0.05)	87.19 87.14	
				Base of Excavation at	2.00m		3-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

	. , II			Project: North West Bice: Development	ster Eco		TF				
Hydro	CK			Development		Pa	ige N				
Method: Trial	Pit			Date(s): 14/09/2020	Logged By: C		Che				,
Client: Firetho	rn Bices	ter Ltd		Co-ords: 457721.19, 225133.12	Stability: No C		Dim	ensi	ons:		ale:
	ect No: C	-13603		Ground Level: 90.08m OD	Plant: 8T406		0.60m		00m	1:	:25
Sa	amples / Te	sts	Water-	Stratum Desc	ription		4		(m)		pue
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly gravell		al rootlets Gra	vel	mbg T	(E)	Ē	Legend
0.10	ES			is sub-angular to rounded fine to coarse limestor (TOPSOIL)		ar roomoto. Gra	-	30	0.30)	39.78	
0.40 - 0.50	В			Soft orangish brown slightly gravelly sandy CLA' fine to coarse limestone. (HEAD DEPOSITS)	Y. Gravel is sub-angul	lar to sub-round	led	(0	0.70)		
				Light grey and orangish brown very clayey sub-a limestone GRAVEL. (HEAD DEPOSITS)			,	00 (0	0.45)	39.08	
1.60 - 1.70	В			Stiff light grey locally orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone.  (CORNBRASH FORMATION)					).55)	88.08	
							3-				

	. , II			Project: North West Bice Development	ster Eco		T	ւթյ ⊃5			
Hydro	OCK			Bevelopment		Pa			1 of	1	
Method: Tria	I Pit			Date(s): 09/09/2020	Logged By: Ti				ed By		3
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457719.24, 225182.81	Stability: No C			nens	sions		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 90.58m OD	Plant: 8T360		0.80r		2.50m	] 1	1:25
S	amples / Te	sts	Water-	Stratum Desc	crintion			£_	Thickness (m)	_	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with free		is angular to s	ıb	Depth mbgl	Thic (m)	Level m OD	Legend
				angular fine to coarse of limestone. (TOPSOIL)	quont rootioto. Gravoi	io diligular to o			(0.25)		
				Light orangish brown sandy clayey sub-angular a high limestone cobble content.	to sub-rounded limes	tone GRAVEL	vith _	0.25		90.33	
				(HEAD DEPOSITS)			-				
									(0.83)		
							-				
							1 -				
				Base of Excavation	at 1.10m		1	1.08		89.50	
							-				
							-				
							2 -				
							-				
							3 -				
							-				
							-				
							4 -				
							-				
							-				
							-				
							5 -				
	L	1	1	İ							

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.10m and 1.10m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bicester Eco Development			TP59				
nyara	CK					Pa	ige No		f 1		
Method: Tria	l Pit			Date(s): 16/09/2020	Logged By: C		Chec			V	
Client: Fireth	orn Bicest	ter Ltd		Co-ords: 457803.12, 225148.11	Stability: No C	Collapse	Dime	nsior		Scale:	
Hydrock Proj	ect No: C	-13603		Ground Level: 90.03m OD	Plant: 8T407		0.70m			1:25	
S	amples / Tes	sts	Water- Strikes	Stratum De	scription		£	mbgl Thickness (m)	- Q	Legend	
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly gravelly sandy CLA	AY with occasional rootle	ets. Gravel is	Depth	E E	Level m OD		
0.10	ES			angular to sub angular fine to coarse of limest (TOPSOIL)			0.3	(0.35)	89.68		
0.50	D			Moderately weak to weak fractured light grey a occasional shell fragments. (CORNBRASH FORMATION)	and yellowish brown LIN	MESTONE with		(0.40)			
				Moderately weak to weak fractured orangish b (CORNBRASH FORMATION)	orown LIMESTONE.		1 -	(0.45)	89.28		
1.30	D			Soft light yellowish grey locally orangish brown Gravel is sub-angular to sub-rounded fine to c (FOREST MARBLE FORMATION)		gravelly CLAY.	1.2	)	88.83		
1.60 1.60	D HSV	92kPa		becoming stiff below 1.60m.			-	(0.80)			
2.00 - 2.30	В			Very stiff friable light yellowish grey slightly sar angular to sub-rounded fine to coarse limestor (FOREST MARBLE FORMATION)	ne.	AY. Gravel is su	200	(1.00)	88.03		
					G. d. 2.55m		4 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ck iii			Project: North West Bicester Eco Development			Trialpi <b>TP</b> 6			
riyaro	CIN					Pa	ge No	1 of	1	
Method: Trial F	Pit			Date(s): 15/09/2020	Logged By: C/	4	Check			
Client: Firethori	n Bicest	er Ltd		Co-ords: 457830.10, 225159.51	Stability: No C	ollapse	Dimer	sion: 2.40m	s: S	cale:
Hydrock Projec	t No: C-	-13603		Ground Level: 89.76m OD	Plant: 8T360		0.90m		] (	1:25
Sam Depth (m)	nples / Tes	Results	Water- Strikes	Stratum Descri	iption		Depth	Thickness (m)	Level m OD	Legend
0.20	ES			Soft light brown organic slightly sandy slightly gravel is sub-angular to sub-rounded fine to medi (TOPSOIL)  Moderately weak fractured light yellowish brown a (CORNBRASH FORMATION)	ium limestone.		0.35	(0.35)	89.41	
				Firm yellowish brown slightly sandy gravelly CLAY rounded fine to coarse limestone lithorelicts. (CORNBRASH FORMATION)	-	ılar to sub-	0.80	(0.20)	88.96 88.76	
				Weak fractured orangish brown locally grey LIME (CORNBRASH FORMATION)		-	(0.30)			
				Stiff light grey locally yellowish brown slightly sand sub-angular to sub-rounded fine to coarse limesto (FOREST MARBLE FORMATION)  Base of Excavation at	one lithorelicts.	LAY. Gravel is	1.30	(0.05)	88.46 88.41	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.80m and 1.35m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

			Project: North West Bicester Eco Development			TP61					
)CK					Pa			1			
ıl Pit			Date(s): 17/09/2020	Logged By: C					V		
orn Biceste	er Ltd		Co-ords: 457835.04, 225187.41	Stability: No C	Collapse	Dimer		s: S	cale:		
ect No: C-	13603		Ground Level: 90.15m OD	Plant: 8T408		0.70m	2.50m		1:25		
amples / Tes	sts	Water-	Stratum De	escription	'	ے	kness		pu		
Туре	Results	Strikes			ete Gravel is	Dept	E E	Leve m Of	Legend		
ES					ets. Graver is		(0.50)	80.65			
D			Moderately weak orangish brown and grey LII (CORNBRASH FORMATION)	MESTONE.		0.50	(0.70)	89.65			
				LAY. Gravel is sub-angu	ılar to sub-	1.20		88.95			
D			rounded fine to coarse limestone. (CORNBRASH FORMATION)  Moderately weak fractured light grey locally orangish brown LIMESTONE.					88.75			
			Moderately weak fractured light grey locally orangish brown LIMESTONE. (FOREST MARBLE FORMATION)					88.45			
D			Stiff light grey mottled yellowish brown slightly sub-angular to sub-rounded fine to coarse lim (FOREST MARBLE FORMATION)	y sandy slightly gravelly lestone.	CLAY. Gravel is	2 -	(1.25)				
HSV	95kPa					2.95		87.20			
			Moderately weak light grey LIMESTONE. \((FOREST MARBLE FORMATION))	;va-sa		3 3.00	(0.05)	87.15			
						4-					
į	al Pit orn Bicest ject No: C- Samples / Tes Type ES D	al Pit orn Bicester Ltd ect No: C-13603 Samples / Tests  Type Results  ES  D  D	al Pit orn Bicester Ltd ect No: C-13603  Samples / Tests Water- Strikes  ES  D  D	Development  Date(s): 17/09/2020  Orn Bicester Ltd  Co-ords: 457835.04, 225187.41  Ject No: C-13603  Ground Level: 90.15m OD  Samples / Tests  Type Results  Stratum Destrikes  Stratum Destrikes  Soft brown organic slightly gravelly sandy CL angular to sub angular fine to coarse of limes (TOPSOIL)  Moderately weak orangish brown and grey Lift (CORNBRASH FORMATION)  Moderately weak results for coarse limestone. (CORNBRASH FORMATION)  Moderately weak formation of the coarse limestone. (CORNBRASH FORMATION)  Stiff light grey mottled yellowish brown slightly sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)  Moderately weak fight grey LIMESTONE.  Moderately weak light grey LIMESTONE.  Moderately weak light grey LIMESTONE.	Development  Date(s): 17/09/2020	Development  Date(s): 17/09/2020 Logged By: CA  Date(s): 17/09/2020 Logged By: CA  Co-ords: 457835.04, 225187.41 Stability: No Collapse  Development  Ground Level: 90.15m OD Plant: 8T408  Samples / Tests Strikes  Type Results  Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)  Moderately weak orangish brown and grey LIMESTONE.  Firm orangish brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBRASH FORMATION)  D  Firm orangish brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)  Moderately weak fractured light grey locally orangish brown LIMESTONE. (FOREST MARBLE FORMATION)  Moderately weak light grey LIMESTONE.  Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	Development    TP6    Page No	Development  TP61 Page No. 1 of Page No. 1 o	Development  TP61  Page No. 1 of 1  Date(s): 17/09/2020  Co-ords: 457835.04, 225187.41  Stability: No Collapse Dimensions: S  Bratum Description  Stratum Description  Soft brown organic slightly gravelly Sandy CLAY with occasional recitlets. Gravel is angular in sub-angular fine to coarse of innestone.  (CORNBRASH FORMATION)  Moderately weak orangish brown and grey LIMESTONE. (CORNBRASH FORMATION)  Moderately weak reactine (ight grey locally orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak reactine (ight grey locally orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak reactine (ight grey locally orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak fractine (ight grey locally orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak fractine (ight grey locally orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak fractine (ight grey locally orangish brown LIMESTONE. (CORNBRASH FORMATION)  Moderately weak light gray LIMESTONE. (POREST MARBLE FORMATION)  Moderately weak light gray LIMESTONE. (POREST MARBLE FORMATION)  Moderately weak light gray LIMESTONE. (POREST MARBLE FORMATION)  Moderately weak light gray LIMESTONE. (POREST MARBLE FORMATION)		

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.70m and 1.20m. 5. Trial pit backfilled with arisings on completion.

Hydrock		Project: North West Bice Development	ester Eco		TI	іріі Р6					
Hydro	ock			Development		D,			<b>2</b> 1 of	1	
/lethod: Tria	I Pit			Date(s): 18/09/2020	Logged By: TE		T		ed By		$\overline{/}$
Client: Fireth		ter Ltd		Co-ords: 457892.34, 225242.30	Stability: No C			nen	sions		cale:
lydrock Proj				Ground Level: 89.91m OD	Plant: 8T409	•	0.60		2.50m	$\neg   \cdot$	1:25
S	amples / Te	sts	Water-	Stratum Des	carintian				Thickness (m)		
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly sandy CLAY with fi	•	is angular to a	ub	Deptimpgl	E)	Level m OD	Legend
				angular fine to coarse of limestone. (TOPSOIL)	requent rootiets. Gravei	is angular to s	-	0.30	(0.30)	89.61	
0.30	ES			Orangey brown very clayey sandy angular to s limestone with medium cobble content. Cobble (HEAD DEPOSITS)	sub angular fine to coars es are angular to sub ar	se GRAVEL of ngular of limest			(0.50)	65.01	
0.70 0.80 - 1.80	D B			Moderately weak whitish grey LIMESTONE.			-	0.80		89.11	
				(CORNBRASH FORMATION)			- 1 - -				
							- - -		(1.00)		
							- - -				
				Base of Excavation at 1.80m			- 2 -	1.80		88.11	
							-				
							-				
							-				
							3 <b>-</b> -				
							-				
							-				
							-				
							4 -				
							-				
							- - -				

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

	, II)			Project: North West Bice Development	ester Eco		TF	թու ո 963			
Hydro	OCK			Development		Pá	age N			1	
/lethod: Tria	l Pit			Date(s): 18/09/2020	Logged By: TE		Che				$\overline{/}$
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457931.23, 225282.48	Stability: No C	ollapse	Dim			: S	cale:
łydrock Proj	ect No: C	-13603		Ground Level: 89.55m OD	Plant: 8T410		0.60m		50m	] 1	:25
S	amples / Te	sts	Water-	Stratum De	scription		4	mbgl	2	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly sandy CLAY with fi		is angular to s	ub	ag a E	Ê.	m OD	Leg WWW
				angular fine to coarse of limestone. (TOPSOIL)	·	Ü	-	.30	.30)	89.25	
0.30 0.40	ES D			Orangey brown very clayey sandy angular to s limestone with medium cobble content. Cobble (HEAD DEPOSITS)	sub angular fine to coars es are angular to sub ar	se GRAVEL of Igular of limest			1.50)	00.20	
1.00	D			Moderately weak whitish grey LIMESTONE. (CORNBRASH FORMATION)			1 -	.80		88.75	
								(0	1.80)		
1.50	D			Base of Excavation	on at 1.60m		1	.60		87.95	
							2 -				
							2 ]				
							3 -				
							4 -				
							5 -				

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

Harden.	., II)			Project: North West Bice Development	ester Eco		T	iipit P6			
Hydro	CK			Вотогоритопа		Pa			1 of	1	
Method: Trial	Pit			Date(s): 18/09/2020	Logged By: TI				ed B		/
Client: Firetho	rn Bicest	er Ltd		Co-ords: 457942.02, 225246.98	Stability: No C	Collapse	Din		sion	s: S	cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 89.22m OD	Plant: 8T411		0.60		2.50m	]	1:25
Sa	amples / Te	sts	Water-	Stratum De	scription		•	- t	Thickness (m)	- Q	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly sandy CLAY with fi		l is angular to s	ub	Dep	H E	Leve m O	Legend
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)	•	ŭ	-	0.30	(0.30)	88.92	
0.50	D			Orangey brown very clayey sandy angular to s limestone with medium cobble content. Cobble (HEAD DEPOSITS)	sub angular fine to coar es are angular to sub ar	se GRAVEL of ngular of limest	one - -	0.80	(0.50)	88.42	
				Moderately weak whitish grey LIMESTONE. (CORNBRASH FORMATION)			1 -	1.20	(0.40)	88.02	
1.30	D			Moderately weak orangish brown LIMESTONE. (CORNBRASH FORMATION)  Base of Excavation at 1.60m				1.60	(0.40)	87.62	
				Base of Excavati	on at 1.60m		2			07.02	

Hydro	ock			Project: North West Bico Development	ester Eco		Trialp				
					ge N						
/lethod: Tria				Date(s): 18/09/2020	Logged By: TE		Chec				
Client: Firetho				Co-ords: 457922.52, 225214.25	Stability: No C	ollapse	Dime		50mS		i
łydrock Proj				Ground Level: 89.31m OD	Plant: 8T412		0.60m	Ļ		][ ]	:25
Depth (m)	amples / Te	sts Results	Water- Strikes	Stratum De	scription		Depth	mbgl	(m)	Level m OD	Legend
0.20	ES			Soft brown slightly gravelly sandy CLAY with fi angular fine to coarse of limestone. (TOPSOIL)  Orangey brown very clayey sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy angular to sandy				(0	0.30)	89.01	
0.50	D			limestone with medium cobble content. Cobble (HEAD DEPOSITS)			one -	(0	0.50)	,	
1.00	D			Moderately weak whitish grey LIMESTONE. (CORNBRASH FORMATION)			1 -		0.50)	88.51	
1.30 - 1.80	В			Moderately weak orangish brown LIMESTONE (CORNBRASH FORMATION)	Ε.		1.3		0.50)	88.01	
				Base of Excavati	on at 1.80m		1.8			87.51	
							2 -				
							3 -				
							4 -				
							5 -				

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

Hydro				Project: North West Bice Development	ster Eco		TP			
riyurc	CK					Pa	ige No	. 1 o	f 1	
Method: Trial	l Pit			Date(s): 15/09/2020	Logged By: Ca	Ą	Check	ked E	y: Al	3
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457892.23, 225204.92	Stability: No C	ollapse	Dime	nsion 2.30m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 89.51m OD	Plant: 8T360		1.00m			1:25
S	amples / Te	sts	Water-	Stratum Desc	cription		£ -	Thickness (m)		pue
Depth (m)	Туре	Results	Strikes	Soft light brown organic slightly sandy slightly g		asional rootlets	Depth	E E	Level m OD	Legend
0.10	ES			Gravel is sub-angular to sub-rounded fine to me (TOPSOIL)	edium limestone.		0.25	(0.25)	89.26	
1.00	D			Moderately weak fractured light orangish brown occasional beds of clay. (CORNBRASH FORMATION)	locally grey LIMESTO	NE with	-	(1.05)		
							-			
				Base of Excavation	at 1.30m		1.30		88.21	
							2			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used to advance trial pit through the limestone between 0.85m to 1.30m. 4. Soakaway test zone installed within trial pit (gravel between 0.40m and 1.30m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.

				Project: North West Bicester Eco Development TP67 Page No. 1 of 1							
Hydro	OCK			Development		Ps				1	
/lethod: Tria	I Pit			Date(s): 18/09/2020	Logged By: TE		Che				$\overline{/}$
Client: Fireth		ter Ltd		Co-ords: 457880.65, 225186.51	Stability: No C		Dime	ens	ions		cale:
lydrock Proj				Ground Level: 89.51m OD	Plant: 8T413	•	0.60m	2	.50m	ן 1	:25
	amples / Te		Water-					Ī	ssac	1	
Depth (m)	Туре	Results	Strikes	Stratum De			Depth	lgdm i	Thickness (m)	m OD	Legend
0.10	ES			Soft brown slightly gravelly sandy CLAY with f angular fine to coarse of limestone. (TOPSOIL)	requent rootlets. Gravel	is angular to s	-		0.30)		
0.30 - 0.80	В			Brown very clayey sandy angular to sub angu with medium cobble content. Cobbles are ang (HEAD DEPOSITS)	lar fine to coarse GRAV ular to sub angular of lir	EL of limestone mestone	0.3		0.50)	89.21	
0.70	D			Moderately weak whitish grey LIMESTONE.			3.0	30		88.71	
1.00	D			(CORNBRASH FORMATION)			1 -	(	(0.60)	-	
				Base of Excavat	ion at 1.40m		1.4	40		88.11	
							-				
							2 -				
							-				
							3 -				
							4 -				
							5 -				

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bices Development	ster Eco		Trial <b>TF</b>				
riyare	CK						ge N				
Method: Trial	l Pit			Date(s): 15/09/2020	Logged By: C	A	Che				
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457891.32, 225159.78	Stability: No C	ollapse	Dim		sions 2.20m		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 89.10m OD	Plant: 8T360		1.00m			](	1:25
	amples / Te		Water- Strikes	Stratum Descri	iption		ŧ	- E	Thickness (m)	o OD	Legend
Depth (m)	Туре	Results	Suikes	Soft light brown organic slightly sandy slightly gra	velly CLAY with occa	asional rootlets.	à	mbgl	ĒĒ	Level m OD	
0.10	ES			Gravel is sub-angular to sub-rounded fine to med (TOPSOIL)	ium limestone.		-	30	(0.30)	88.80	
				Moderately weak fractured grey and light yellowis (CORNBRASH FORMATION)	sh brown LIMESTON	E.	_				
0.50 0.60	ES D								(0.60)		
0.00	D						-		(0.00)		
							0.	90		88.20	
				Firm light yellowish brown slightly sandy slightly g fine to medium limestone lithorelicts.	ravelly CLAY. Grave	l is sub-rounde	d 1 -				
				(CORNBRASH FORMATION)			-				
1.20 1.20	D HSV	63kPa					-		(0.70)		
							-				
					IMPOTONE		1.	60		87.50	
				Moderately weak light yellowish brown and grey L (FOREST MARBLE FORMATION)  Base of Excavation at			1.	70	(0.10)	87.40	
				Saco di Ekkaration di			-				
							2 -				
							-				
							]				
							-				
							-				
							3 -				
							-				
							]				
							-				
							1				
							-				
							-				
							4 -				
							_				
							1				
							-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Soakaway test zone installed within trial pit (gravel between 0.70m and 1.70m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.

ck			Project: North West Bices Development	ster Eco		Trialpit <b>TP</b> 6	9		
			D-+-(-), 47/00/0000	Laward Day T					.,
									v cale:
					oliapse	_	2.50m		1:25
			Ground Level: 89.33m OD	Plant: 81414		0.60m	ω		1.23
·		Water- Strikes	Stratum Descri	iption		lepth bgl	hicknes n)	evel 00 r	Legend
ES	, recent		angular fine to coarse of limestone. (TOPSOIL)		is angular to su	ıb	(0.30)	3 E 89.03	2
D			(CORNBRASH FORMAŤIÓN)			-	(0.60)		
D B			Firm to stiff light yellow brown and light grey slight angular fine to medium limestone and mudstone I (CORNBRASH FORMATION)	tly gravelly sandy CL ithorelicts. Sand is fi	AY. Gravel is some to medium.	0.90 ub 1 -	(1.10)	88.43	
			Base of Excavation at	2.00m		3-		87.33	
_	et No: C- nples / Tes Type ES D	Pit  n Bicester Ltd  et No: C-13603  nples / Tests  Type Results  ES  D	Pit  In Bicester Ltd  Water-Strikes  ES  D	Date(s): 17/09/2020  In Bicester Ltd  Co-ords: 457855.88, 225140.25  Et No: C-13603  Ground Level: 89.33m OD  Stratum Descriptive  ES  Soft brown slightly gravelly sandy CLAY with frequency and reddish brown Literary (CORNBRASH FORMATION)  Firm to stiff light yellow brown and light grey slight angular fine to medium limestone and mudstone I (CORNBRASH FORMATION)  D  D  D  D  D  D  D  D  D  D  D  D  D	Date(s): 17/09/2020 Logged By: TE In Bicester Ltd Co-ords: 457855.88, 225140.25 Stability: No Co Int No: C-13603 Ground Level: 89.33m OD Plant: 8T414  Inples / Tests Water- Type Results Strikes Stratum Description  Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel angular fine to coarse of limestone.  (TOPSOIL)  Weak fractured whitish grey and reddish brown LIMESTONE. (CORNBRASH FORMATION)  Firm to stiff light yellow brown and light grey slightly gravelly sandy CL angular fine to medium limestone and mudstone lithorelicts. Sand is fit (CORNBRASH FORMATION)	Pate	Page No.  Page No.  Page No.  Date(s): 17/09/2020 Logged By: TB Check  Co-ords: 457855.88, 225140.25 Stability: No Collapse Diment  No: C-13603 Ground Level: 89.33m OD Plant: 8T414 0.60m [  Page No.  The No: C-13603 Ground Level: 89.33m OD Plant: 8T414 0.60m [  Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (CORNBRASH FORMATION)  Page No.  Stability: No Collapse Diment  Stratum Description 6 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Page No. 1 of Checked B. In Bicester Ltd Co-ords: 457855.88, 225140.25 Stability: No Collapse Dimensional Collapse of Tensis Water Strikes Str	Page No. 1 of 1  Date(s): 17/09/2020 Logged By: TB Checked By: C n Bicester Ltd Co-ords: 457855.88, 225140.25 Stability: No Collapse of No. C-13803 Ground Level: 89.33m OD Plant: 87414 Oom T Town Results ES  Stratum Description  Fire to self-light year-eity gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub- angular fination (CORNBRASH FORMATION)  Fire to self-light yellow brown and light grey slightly gravelly sandy CLAY. Crevel is sub- angular fination recommend interestorie and muscistorie illhorelects. Sand is fine to medium.  TOWNSOLIS  D  B  B  B  B  B  B  B  B  B  B  B  B

د ما امريا				Project: North West Bice Development	ster Eco		rnaip TP			
Hydro	CK			'		Pa	ge No		· 1	
Method: Tria	l Pit			Date(s): 16/09/2020	Logged By: C	A	Checl	ked B	y: C	V
Client: Fireth	orn Bices	ter Ltd		Co-ords: 457824.76, 225103.95	Stability: No C	ollapse	Dime		- 1	cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 89.33m OD	Plant: 8T415		0.70m	2.50m		1:25
S	amples / Te	sts	Water-	Stratum Desc	rintion	'	ے	kness	Level m OD	pu
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly gravell		al rootlets. Grav	Depth	m High	Leve m OI	Legend
0.10 - 0.30 0.20	B ES			is angular to sub angular fine to coarse of limest (TOPSOIL)		ai rootiets. Grav	- - - - 0.40	(0.40)	88.93	
0.50 0.60	ES D			Light grey and orangish brown clayey sub-angul limestone GRAVEL with a high sub-rounded lime (HEAD DEPOSITS)			-	(0.45)		× · × · × · × · × · × · × · × · × · × ·
1.00	D			Firm orangish brown locally grey slightly sandy sangular to sub-rounded fine to coarse limestone (CORNBRASH FORMATION)		Gravel is sub-	0.85 - 1 - -	(0.45)	88.48	
1.50 1.50	D HSV	70kPa		Firm light grey locally mottled orangish brown sli Gravel is sub-angular to sub-rounded fine to coa (FOREST MARBLE FORMATION)		ravelly CLAY.	1.30	(1.70)	88.03	
2.50 2.50	D HSV	113kPa		becoming stiff below 2.50m.			3 3.00		86.33	
				Base of Excavation	al 5.00III		4 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

LI				Project: North West Bice Development	ester Eco		TP			
Hydro	CK		Pa						f 1	
Method: Trial	Pit			Date(s): 16/09/2020	Logged By: C		Check			V
Client: Firetho	rn Bices	ter Ltd		Co-ords: 457867.46, 225105.97	Stability: No C	ollapse	Dime	nsion		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 88.89m OD	Plant: 8T416		0.70m [	2.2011		1:25
Sa	amples / Te	sts	Water-	Stratum Des	cription		£ -	kness	Level m OD	pue
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly grave	•	al rootlets. Grav	Depth	E E	n O E	Legend
0.20	ES			is angular to sub angular fine to coarse of limes (TOPSOIL)			0.40	(0.40)	88.49	
0.50 - 0.60	В			Light grey and orangish brown clayey sub-angulimestone GRAVEL. (HEAD DEPOSITS)	ular to sub-rounded find	e to coarse	-	(0.40)		
0.90 1.00	D HSV	57kPa		Firm yellowish brown slightly sandy slightly gra rounded fine to coarse limestone. (CORNBRASH FORMATION)	•		1 - 1.05	(0.25)	88.09 87.84	
1.20	D			Stiff light grey and yellowish brown slightly sand angular to sub-rounded fine to coarse limeston (FOREST MARBLE FORMATION)		Y. Gravel is sub		(0.75)		
1.50	HSV	85kPa					1.80	(0.73)	87.09	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)  Base of Excavatio	n at 1.85m		1.85	(0.05)	87.04	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bice Development	ster Eco		TP				
lyurc	CK										
/lethod: Tria	l Pit			Date(s): 17/09/2020	Logged By: C	A					
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457897.56, 225135.88	Stability: No C	ollapse	Dime		ions .20m		cale:
łydrock Proj	ect No: C	-13603		Ground Level: 88.86m OD	Plant: 8T417		0.70m				:25
S	amples / Te	sts	Water-	Stratum Desc	cription		£		(m)	- Q	Legend
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly sandy CLAY with fre		is angular to su		lg .	ĒÊ	Level m OD	ee WWW
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)		g	0.3		0.30)	88.56	
0.40 0.50	ES D			Weak fractured whitish grey and reddish brown (CORNBRASH FORMATION)	LIMESTONE.		-			-	
							1	(	0.70)	-	
1.10	D			Firm orangey brown and grey slightly gravelly s selenite crystals and shell fossils. Gravel is sub (CORNBRASH FORMATION)			1.0	(	0.20)	87.86 87.66	
1.20	HSV	104kPa		Stiff light yellow brown and light grey slightly gra angular fine to medium mudstone lithorelicts. Sa (FOREST MARBLE FORMATION)	avelly sandy CLAY. Gra and is fine to medium.	avel is sub	1.2	20		87.00	
				(FOREST MARBLE FORMATION)			-			-	
							-	(	0.90)		
2.10	D			Base of Excavation	n at 2.10m		2 -	10		86.76	
							-				
							-				
							3 -				
							-				
							4 -				
							-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development  Date(s): 17/09/2020  Trial Table Tage  Logged By: TB  Ch							
						1					
Method: Trial				` '			Che				
Client: Firetho					Stability: No C	ollapse	Dim		51 <b>0N</b> 5 2.50m		cale:
Hydrock Proje				Ground Level: 88.87m OD	Plant: 8T418		0.60m		. 1	_	1:25
	amples / Tes		Water- Strikes	Stratum Descr	ription		t c	l l l l	Thickness (m)	vel	Legend
Depth (m)	Туре	Results		Soft brown slightly gravelly sandy CLAY with freq angular fine to coarse of limestone. (TOPSOIL)	uent rootlets. Gravel	is angular to su	b -		두 E (0.30)	n Fe	Le
0.30	ES			Weak fractured light orangish brown LIMESTONE (CORNBRASH FORMATION)	E.		0.	30		88.57	
0.50	D			(CONTRICTOR)					(0.50)		
				Moderately weak whitish grey LIMESTONE.			0.	80		88.07	
1.00	D			(CORNBRASH FORMATION)			1 -		(0.40)		
				Moderately weak whitish grey and orangish brow (CORNBRASH FORMATION)	n LIMESTONE.		1. -	20		87.67	
1.50	D			Base of Excavation a	st 1 60m		- - 1.	60	(0.40)	87.27	
				base of Excavation a	at 1.60m		-				
							2 -				
							-				
							-				
							-				
							3 -				
							-				
							-				
							-				
							4 -				
							-				
							-				
							-				
							5 -				

Hydro	ock			Project: North West Bices Development	ster Eco		rialp TP		)	
							ge No			
Method: Trial					Logged By: TE				By: C	
Client: Firetho	orn Bicest	ter Ltd			Stability: No C	ollapse	Dime	2.50	m	Scale:
Hydrock Proje	ect No: C	-13603		Ground Level: 88.67m OD	Plant: 8T419		0.60m			1:25
	amples / Tes		Water- Strikes	Stratum Descr	ription		pth	mbgl Thickness	Level m OD	Legend
Depth (m)	Туре	Results	Cuntoo	Soft brown slightly gravelly sandy CLAY with frequency	uent rootlets. Gravel	is angular to sul	<u>a</u>			9
0.10	ES			angular fine to coarse of limestone. (TOPSOIL)  Weak to moderately weak fractured light orangish	n brown LIMESTONE	<u> </u>	0.2	(0.2	88.4	
				(CORNBRASH FORMATION)						
0.50	D									
							-	(1.0	0)	
							1 -			
							1.2		87.4	
1.30	D			Moderately weak fractured whitish grey LIMESTC (CORNBRASH FORMATION)	DNE.				07.4	
							-	(0.4	0)	
				Base of Excavation a	ut 1 60m		1.6	)	87.0	
				Dase of Excavation a	at 1.00m		-			
							-			
							2 -			
							-			
							1			
							-			
							1			
							3 -			
							-			
							]			
							4 -			
							-			
	I									
	I									
	I						-			
Conoral Pomark							5 -			

Hydro	ock			Project: North West Bicester Eco Development  Date(s): 17/09/2020  Project: North West Bicester Eco Trialpi Page No							
					I						
Method: Tria											
Client: Firetho					Stability: No C	ollapse	Dim		sion: <sup>2.50m</sup>		cale:
Hydrock Proje				Ground Level: 88.08m OD	Plant: 8T420		0.60m	느			1:25
	amples / Te		Water- Strikes	Stratum Descr	ription		4	og l	Thickness (m)	Level m OD	Legend
Depth (m)	Туре	Results		Soft brown slightly gravelly sandy CLAY with freq angular fine to coarse of limestone.	uent rootlets. Gravel	is angular to sul	)	S E	는 E	n Fe	e e
				(TOPSOIL)					(0.30)	07.70	
0.30	ES			Weak fractured whitish grey and reddish brown L (CORNBRASH FORMATION)	IMESTONE.		- 0.	.30		87.78	
0.50	D						-		(0.50)		
0.80 - 1.20	В			Weak fractured orangish brown and whitish grey (CORNBRASH FORMATION)	LIMESTONE.		0	.80		87.28	
				, ,			1 -		(0.40)		
				Firm to stiff orangey brown and light grey slightly	gravelly sandy CLAV	Gravel is sub	1.	20		86.88	
1.30	D			angular fine to medium mudstone lithorelicts. Sar (FOREST MARBLE FORMATION)	nd is fine to medium.	. Graver is sub	-				
							-		(0.60)		
1.80	D			Base of Excavation a	at 1.80m		1.	.80		86.28	
							2 -				
							-				
							-				
							1				
							-				
							1				
							3 -				
							-				
							-				
							-				
							-				
							]				
							-				
							-				
							=				
							5 -				

. II			Development						
CK				Pa				1	
Pit			Date(s): 16/09/2020 Logged By: C						3
rn Bicest	er Ltd		Co-ords: 457873.27, 225074.56 Stability: No (	Collapse	Dim			s: S	cale:
ct No: C	-13603		Ground Level: 88.49m OD Plant: 8T360		0.95n		2.7UM	]	1:25
mples / Tes	sts	Water-	Stratum Description			د _	kness	-0	pu
Туре	Results	Strikes	·	n occasional		Dept mbgl	E E	Leve m Of	Pregend
ES					-		(0.40)	88 NG	
D			limestone GRAVEL with a medium sub-rounded limestone cobble co (HEAD DEPOSITS)	ntent.	-		(0.25)	87.84	× × × × × × × × × × × × × × × × × × ×
			angular to sub-rounded fine to coarse limestone lithorelicts. (CORNBRASH FORMATION)		1 -		(1.00)		
			becoming stiff below 1.20m.		- - -		(1.00)		
			Moderately weak light grey LIMESTONE.		1	.65 .70	(0.05)	86.84 86.79	
					2				
	rn Bicest ct No: C- mples / Tes Type ES	Pit rn Bicester Ltd ct No: C-13603 mples / Tests Type Results ES	Pit rn Bicester Ltd ct No: C-13603 mples / Tests Type Results  ES  Water- Strikes	Development  Date(s): 16/09/2020	Pit Date(s): 16/09/2020 Logged By: CA  In Bicester Ltd Co-ords: 457873.27, 225074.56 Stability: No Collapse  In Results Ground Level: 88.49m OD Plant: 8T360  Imples / Tests Strikes Stratum Description  Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-rounded limestone cobble content. (HEAD DEPOSITS)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone cobble content. (HEAD DEPOSITS)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (CORNBRASH FORMATION)	Pit Date(s): 16/09/2020 Logged By: CA Che m Bicester Ltd Co-ords: 457873.27, 225074.56 Stability: No Collapse ot No: C-13603 Ground Level: 88.49m OD Plant: 8T360 Dim Strikes Stratum Description  Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-rounded limestone cobble content. (HEAD DEPOSITS)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone inthorelicts. (CORNBRASH FORMATION)  Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)  Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	Pit Date(s): 16/09/2020 Logged By: CA Checker Bicester Ltd Co-ords: 457873.27, 225074.56 Stability: No Collapse of two: C-13603 Ground Level: 88.49m OD Plant: 8T360 Dimens Strikes Stratum Description Strikes Stratum Description Strikes Stratum Description Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootiets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-counded limestone cobble content. (HEAD DEFOSTS)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (CORNBRASH FORMATION)  Moderately weak light grey LIMESTONE. 170   Development  TP76 Page No. 1 of Pit  Date(s): 16/09/2020 Logged By: CA Checked By In Bicester Ltd Co-ords: 457873.27, 225074.56 Stability: No Collapse of No: C-13603 Ground Level: 88.49m OD Plant: 87360  Soft canglish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone.  Soft canglish brown sandy sub-angular to sub-rounded fine to coarse limestone.  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone.  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone.  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-rounded fine to coarse limestone.  Light grey and orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone cobble content.  (HCAD DEPOSITS) Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone orange limestone.  (CORNBRASH FORMATION)  Moderately weak light grey LIMESTONE.  (FOREST MARBLE FORMATION)  Moderately weak light grey LIMESTONE.  (FOREST MARBLE FORMATION)	Pit Date(s): 16/09/2020 Logged By: CA Checked By: At m Bicester Ltd Co-ords: 457873.27, 225074.56 Stability: No Collapse of Trests Water-Strikes Stratum Description Strikes Stratum Description Strikes Stratum Description Strikes Stratum Description Soft crangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone.  Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone. (CPORBASH FORMATION)  Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone cobble content. (CORNBRASH FORMATION)  Moderately weak light grey LIMESTONE.  (FOREST MARBLE FORMATION)  Base of Examples at 1.76m	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Soakaway test zone installed within trial pit (gravel between 0.80m and 1.70m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.

	. , II			Project: North West Bice Development	ester Eco		TP			
<b>Hydro</b>	OCK			Вечеюринени		Pa	age No		1	
lethod: Trial	l Pit			Date(s): 16/09/2020	Logged By: C		Check			/
lient: Firetho	orn Bices	ter Ltd		Co-ords: 457847.67, 225059.16	Stability: No C		Dimer	nsion		cale:
lydrock Proje	ect No: C	-13603		Ground Level: 88.55m OD	Plant: 8T421		0.70m	2.20m	] ′	1:25
Sa	amples / Te	sts	Water-	Stratum De:	scription		£ _	Thickness (m)	- O	pue
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly grave	•	al rootlets. Gra	vel Depth	E E	Level m OD	Legend
0.10	ES			is angular to sub angular fine to coarse of lime (TOPSOIL)  Light grey and orangish brown sandy sub-ang	estone. ular to sub-rounded fine	e to coarse	0.30	(0.30)	88.25	
0.50 0.60	ES D			limestone GRAVEL with a medium sub-rounde (HEAD DEPOSITS)	ed limestone cobble con	itent.	0.70	(0.40)	87 85	× × × × × ×
1.00	D			Firm orangish brown and yellowish grey slight sub-rounded limestone cobble content. Grave coarse limestone. (HEAD DEPOSITS)			(0.40)			
1.20	HSV	72kPa		Firm light grey mottled orangish brown slightly fossil fragments. Gravel is sub-angular to sub-(FOREST MARBLE FORMATION)		1.10		87.45		
1.40	D					-	(0.85)			
				Base of Excavati	on at 2.00m		1.95		86.60	
							3-			
							4 -			
							-			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development			Trialpi	78		
				<b>-</b>			ge No			
Method: Trial				Date(s): 16/09/2020	Logged By: C		Check Dime			V cale:
Client: Firetho				Co-ords: 457903.22, 225064.10	Stability: No C	ollapse	-	2.20m		
Hydrock Proje				Ground Level: 87.90m OD	Plant: 8T422		0.70m	T	ᆜᆜ	1:25
	amples / Te		Water- Strikes	Stratum Descr	ription		£ 5	Thickness (m)	Level m OD	Legend
Depth (m)	Туре	Results	Cumoo	Soft orangish brown organic slightly sandy slightl	ly gravelly CLAY with	occasional	P 2	ĒΈ	яĘ	9
0.10	ES			rootlets. Gravel is angular to sub angular fine to (TOPSOIL)			0.30	(0.30)	87.60	
0.50	ES			Weak to moderately weak fractured light yellowis (CORNBRASH FORMATION)	sh brown and grey LIN	MESTONE.		(0.75)		
1.10	D			Firm locally soft orangish brown and grey slightly occasional shell fragments. Gravel is sub-angula	r sandy slightly gravel ir to sub-rounded fine	lly CLAY with to coarse	1 - 1.05	(0.20)	86.85	
				limestone. (FOREST MARBLE FORMATION) Moderately weak light grey LIMESTONE with occ	againnal fina graval a	izad fassil	1.25		86.65	
				(FÖREST MARBLE FORMATION)  Base of Excavation a	at 1.50m		1.50		86.40	
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Client: Firethorn Bicester Ltd  Co-ords: 457954.16, 225090.12  Stall Hydrock Project No: C-13603  Samples / Tests  Water-		3	TP7 ge No. Check Dimen	1 of ed B	y: C\	
Client: Firethorn Bicester Ltd  Co-ords: 457954.16, 225090.12  Stall Hydrock Project No: C-13603  Samples / Tests  Water-	nt: 8T423	3	Check	ed B	y: C\	
lydrock Project No: C-13603 Ground Level: 87.26m OD Plan Samples / Tests Water-	nt: 8T423	ollapse	_		s: S	
Samples / Tests Water-	n		0.60m	2.50m		
Samples / Tests Water-					] (	1:25
Stratum Description			₽-	Thickness (m)	- Q	pue
Depth (m) Type Results Strikes Soft brown slightly gravelly sandy CLAY with frequent r		is angular to su	Depth	(m)	Level m OD	Legend
0.10 ES angular fine to coarse of limestone. (TOPSOIL)  Whitish grey and reddish brown sandy angular to sub a	angular fine to c		0.30	(0.30)	86.96	
0.50 ES limestone with medium cobble and boulder content. Co to sub angular of limestone. (HEAD DEPOSITS)	obbles and bould	ders are angula	0.60	(0.30)	86.66	× × × × × ×
0.70 D Orangey brown and whitish grey clayey angular to sub of limestone with medium cobble and boulder content. limestone. (HEAD DEPOSITS)	(HEAD DEPOSITS)  Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel				86.36	
	Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is angular fine to medium mudstone lithorelicts. Sand is fine to medium.				00.00	
Base of Excavation at 1.40m	Base of Excavation at 1.40m					
			2 -			
			-			
			3 -			
			-			
			4 -			
			- - - 5 -			

Hydro	ck			Project: North West Bicester Eco Development			TF				
							ge N				
Method: Tria				Date(s): 17/09/2020	Logged By: Ti		Che				
Client: Firetho	orn Biceste	er Ltd		Co-ords: 457986.62, 225130.76	Stability: No C	Collapse	Dim		sion: 2.50m		cale:
Hydrock Proje	ect No: C-	13603	_	Ground Level: 87.63m OD	Plant: 8T424		0.60n			_ _	1:25
S	amples / Test	s	Water-	Stratum De	escription			s <u> </u>	Thickness (m)	<del>-</del> □	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly sandy CLAY with f	•	is angular to si	ıh	mbgl	(m)	Level m OD	Legend
0.20	ES			angular fine to coarse of limestone. (TOPSOIL)		-	-	.30	(0.30)	87.33	
0.50	D			Whitish grey and reddish brown sandy angula limestone with medium cobble and boulder coto sub angular of limestone. (HEAD DEPOSITS)	ar to sub angular fine to o ontent. Cobbles and bou	coarse GRAVEI Iders are angul:	of		(0.90)		
1.30	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is angular fine to medium mudstone lithorelicts. Sand is fine to medium. (FOREST MARBLE FORMATION)  Moderately weak light orangish brown LIMESTONE.				.20	(0.50)	86.43	
1.70 - 1.90	В			Moderately weak light orangish brown LIMES (FOREST MARBLE FORMATION)	TONE.		1	.70	(0.00)	85.93	
				Base of Excavat	ion at 1.90m		1	.90	(0.20)	85.73	
							3				
General Remark	6.						5 -				

Hydro	ck			Project: North West Bicester Eco Development		٦	TP8			
							ge No.			
Method: Trial				· · ·	Logged By: TE		Check		<u> </u>	
Client: Firetho				·	Stability: No C	ollapse	Dimer	2.50m		cale:
Hydrock Proje				Ground Level: 84.87m OD	Plant: 8T425		0.60m			1:25
Depth (m)	amples / Tes	Results	Water- Strikes	Stratum Descr	iption		epth oal	Thickness (m)	Level m OD	Legend
0.20	Type ES	Results		Soft brown slightly gravelly sandy CLAY with freq angular fine to coarse of limestone. (TOPSOIL)	uent rootlets. Gravel	is angular to su	b - -	(0.30)	<b>9</b> E 84.57	- Fe
0.40 0.50 0.50 - 1.20	ES D B			Soft brown slightly gravelly sandy CLAY. Gravel is limestone. (MADE GROUND)	s sub angular fine to	coarse of	0.30	(0.90)		
1.30	D			Soft blackish brown (discoloured) slightly gravelly fine to coarse of limestone. (MADE GROUND)	sandy CLAY. Gravel	l is sub angular	1.20	(0.40)	83.67	
1.70	D		•	Soft to firm orangey brown and whitish grey slight angular to sub angular fine to coarse of limestone (FOREST MARBLE FORMATION)		AY. Gravel is	2 -	(0.70)	63.27	
2.40	D			Firm to stiff greenish grey CLAY with occasional r (FOREST MARBLE FORMATION)  Base of Excavation a			3 3.00	(0.70)	82.57	
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.00m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.

Lludra				Project: North West Bicester Eco Development			TP82					
Hydro	CK			·	Page			1				
Method: Trial	Pit			Date(s): 16/09/2020 Logged By: CA	С	heck	ed B	y: AE	3			
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457950.64, 225042.54 Stability: No Collapse	, D	imen	sion 2.80m	s: S	cale:			
Hydrock Proje	ect No: C	-13603		Ground Level: 85.15m OD Plant: 8T360	0.	95m	2.00111	] (	1:25			
Sa	amples / Tes	sts	Water-	Stratum Description	j	£_	Thickness (m)	- O	pue			
Depth (m)	Туре	Results	Strikes	Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasion:	al	Depth	ξĒ.	Level m OD	Legend			
0.20	ES			rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone.  (TOPSOIL)	•	0.60	(0.60)	84.55				
0.70	ES			Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular rounded fine to coarse limestone. (HEAD DEPOSITS)	to sub-	0.85	(0.25)	84.30				
1.00	D			Firm yellowish brown slightly sandy slightly gravelly CLAY with a high sub-angu sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fit coarse limestone.  (HEAD DEPOSITS)		1 -	(0.50)	04.50				
1.50 1.50	B HSV	140kPa		Stiff light grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-angular to rounded fine to coarse limestone lithorelicts. (FOREST MARBLE FORMATION) becoming very stiff below 1.50m.	sub-	1.35	(0.50)	83.80				
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	:	2 - 2.20	(0.35)	83.30				
				Base of Excavation at 2.20m		33-						

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 1.85m and 2.20m. 5. Soakaway test zone installed within trial pit (gravel between 1.20m and 2.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 6. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			Trialp			
ijaic	CIN					Pa	ige No	. 1 of	1	
Method: Trial	Pit			Date(s): 16/09/2020	Logged By: CA	Α	Checl			
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457915.93, 225032.01	Stability: No C	ollapse	Dime	nsion <sup>2.50m</sup>		cale:
Hydrock Proje	ect No: C	-13603		Ground Level: 86.26m OD	Plant: 8T426		0.70m			1:25
Sa	amples / Te	sts	Water-	Stratum Descri	ption		€.	Thickness (m)	- O	pue
Depth (m)	Туре	Results	Strikes	Soft orangish brown organic slightly sandy slightly		occasional	Depth	T High	Level m OD	Legend
0.10	ES			rootlets. Gravel is angular to sub angular fine to m (TOPSOIL)	edium of limestone.		0.40	(0.40)	85.86	
0.50	ES			Soft orangish brown slightly sandy slightly gravelly limestone cobble content. Gravel is sub-angular to limestone. (HEAD DEPOSITS)			0.95	(0.55)	85.31	
1.00 - 1.50	В			Weak fractured light yellowish brown and grey LIM (FOREST MARBLE FORMATION)	ÆSTONE.			(0.75)	65.51	
1.90 2.00 - 2.50 2.00	D B HSV	140kPa		Very stiff light bluish grey slightly sandy slightly grasub-rounded fine limestone. (FOREST MARBLE FORMATION)	avelly CLAY. Gravel	is sub-angular	2 -	(1.00)	84.56	
2.50	HSV	140kPa		Moderately weak light grey and orangish brown LI (FOREST MARBLE FORMATION)  Base of Excavation at			2.70	(0.05)	83.51	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			co Trialpit No TP84				
riyurd	JCK					Pa	ge No.	1 of	1		
Method: Tria	l Pit			Date(s): 16/09/2020	Logged By: C		Check				
Client: Fireth	orn Bicest	er Ltd		Co-ords: 457876.79, 224997.85	Stability: No C	Collapse	Dimen	sion 3.00m	s: S	cale:	
Hydrock Proj	ect No: C-	-13603		Ground Level: 86.12m OD	Plant: 8T427		1.20m			1:25	
	amples / Tes		Water- Strikes	Stratum Desc	ription		of th	Thickness (m)	op Op	Legend	
Depth (m)	Туре	Results	Otikes	Soft orangish brown organic slightly sandy slightly	tly gravelly CLAY with	occasional	Depth	ΞĒ	Level m OD	řě V	
0.10	ES			rootlets. Gravel is angular to sub angular fine to (TOPSOIL)			0.30	(0.30)	85.82		
0.40	ES			Soft orangish brown slightly sandy slightly gravel limestone cobble content. Gravel is sub-angular limestone. (HEAD DEPOSITS)			-				
0.60	В							(0.80)			
							1 -		85.02		
1.20 1.30	HSV D	98kPa		Stiff bluish grey locally orangish brown slightly sa sub-angular to sub-rounded fine limestone. (FOREST MARBLE FORMATION)	andy slightly gravelly	CLAY. Gravel is	-	(0.50)			
							1.60		84.52		
1.70	D			Weak to moderately weak light grey LIMESTONE (FOREST MARBLE FORMATION)	Ε.		-				
							-	(0.40)			
				Base of Excavation a	at 2.00m		2.00		84.12		
							-				
							3 -				
							-				
							-				
							4 -				
							-				
							-				
							-				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 1.70m and 2.00m. 5. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bicester Eco Development			TP8			
iyuru	CR						ge No.	1 of	1	
/lethod: Trial	Pit			Date(s): 16/09/2020	Logged By: C/		Check			
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457911.92, 225002.53	Stability: No C	ollapse	Dimen	sion 2.60m		cale:
łydrock Proje	ect No: C	-13603		Ground Level: 85.00m OD	Plant: 8T360		1.00m		][	1:25
Depth (m)	Type	Results	Water- Strikes	Stratum Des	scription		Depth mbgl	Thickness (m)	Level m OD	Legend
0.10 - 0.30 0.20	B ES			Soft brown organic slightly sandy slightly grave is sub-angular to sub-rounded fine to coarse lin (TOPSOIL)		al rootlets. Grav	rel - -	(0.40)		7
0.50 0.50	D HSV	60kPa		Firm orangish brown slightly sandy slightly grave sub-rounded limestone cobble content. Gravel coarse limestone. (HEAD DEPOSITS)  Firm light grey slightly sandy slightly gravelly C	is sub-angular to sub-r	ounded fine to	0.40 to - - 0.70	(0.30)	84.60	
0.90 0.90	D HSV	75kPa		rounded fine to coarse limestone lithorelicts. (FOREST MARBLE FORMATION)	LAT. Graver is sub-arry	uiai to sub-	0.95	(0.25)	84.05	
1.20	HSV D	75kPa		Weak fractured light grey LIMESTONE. (FOREST MARBLE FORMATION)  Base of Excavation	n at 2.20m		0.95	(1.25)	82.80	
							4 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Soakaway test zone installed within trial pit (gravel between 1.50m and 2.20m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			Trialp <b>TP</b>	86		
				D ( / ) 40/00/0000			ge No			
Method: Trial		1.1.1		, ,	Logged By: C		Checl Dime			v Scale:
Client: Firetho				·	Stability: Colla	ipse		2.50m		1:25
Hydrock Proje				Ground Level: 83.36m OD	Plant: 8T428		0.70m	ο		1.20
Depth (m)	amples / Tes	Results	Water- Strikes	Stratum Descri	iption		Depth	mbgi Thickness (m)	Level m OD	Legend
0.10	ES			Soft orangish brown organic slightly sandy slightly rootlets. Gravel is angular to sub angular fine to n (TOPSOIL)				(0.40)		
0.60 0.70	ES D			Soft brown slightly organic sandy CLAY with rootle (HEAD DEPOSITS)	ets.		1 - 1.30	(0.90)	82.96	
1.50	D			Soft grey slightly sandy slightly gravelly CLAY. Grafine to coarse limestone. (HEAD DEPOSITS)	avel is sub-angular t	o sub-rounded	1.95	(0.65)	81.41	
2.00	D			Moderately weak fractured light grey and yellowis (FOREST MARBLE FORMATION)			2 -	(0.65)	80.76	
				Base of Excavation at	2.60m		3			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.95m, flow rate moderate. 3. Collapse of the sidewalls between 2.00m and 2.50m due to the groundwater entry. 4. Trial pit backfilled with arisings on completion.

I Land				Project: North West Bicester Eco Development		TP87					
Hydro	CK			_ 5.5.561115111		Pa	age N			1	
Method: Trial l	Pit			Date(s): 21/09/2020	Logged By: Ti		Che				,
Client: Firethor	rn Biceste	er Ltd		Co-ords: 457998.85, 225196.03	Stability: No C		Dime	ensi	ions		cale:
Hydrock Proje	ct No: C-	13603		Ground Level: 88.57m OD	Plant: 8T429		0.60m		.50m	J	:25
Sar	mples / Tes	ts	Water-	Stratum De	escription		Ę		(m)	ات ق	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly sandy CLAY with	•	is angular to s	ub	ight F	ĒĒ.	E Le	Legend
0.10	ES			angular fine to coarse of limestone.  (TOPSOIL)  Weak fractured reddish brown LIMESTONE.  (CORNBRASH FORMATION)	noquent roonets. Gravel	is angulal to S	- - 0.3	30	0.30)	88.27	
0.50	D			Week freetured erangish brown LIMESTONE	with opposional play hos	do.	0.6	30		87.97	Щ
0.70	D			Weak fractured orangish brown LIMESTONE (CORNBRASH FORMATION)	with occasional clay bed	ds.	1 -		0.70)	-	
1.30 - 1.60	В			Moderately weak whitish grey LIMESTONE. (CORNBRASH FORMATION)			1.3	30		87.27	+
1.60	D						1.6		0.30)	86.97	$\Box$
							3				

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 1.30m. 4. Trial pit backfilled with arisings on completion.

Hydro	ock			Project: North West Bicester Eco Development			TP:	88		
					<u> </u>		ge No			
/lethod: Trial				Date(s): 21/09/2020	Logged By: TE		Check Dime			V cale:
Client: Firetho				Co-ords: 458030.74, 225151.32	Stability: No C	ollapse		2.50m		1:25
lydrock Proje				Ground Level: 86.78m OD	Plant: 8T430		0.60m	Tø		1.25
Depth (m)	amples / Tes	sts Results	Water- Strikes	Stratum Desc	ription		Depth	Thickness (m)	Level m OD	Legend
		results		Soft brown slightly gravelly sandy CLAY with frec sized fragments of brick. Gravel is angular to sub (MADE GROUND)			0.20	(0.20)	₩ E 86.58	ا ا
0.20	ES			Soft blackish brown and brown slightly gravelly s sized fragments of brick. Gravel is sub angular fit (MADE GROUND)			-	(0.40)	60.36	
0.50	ES			Very weak fractured brown and grey LIMESTON	E.		0.60		86.18	
				(CORNBRASH FORMATION)			-			
1.00 1.00	D ES						1 -			
								(1.60)		
							-			
							-			
							1			
2.00	D						2 -			
				Base of Excavation a	ot 2 20m		2.20		84.58	
				Dase of Excavation of	at 2.2011		-			
							-			
							-			
							]			
							3 -			
							-			
							-			
							-			
							]			
							4 -			
							1			
							-			
							1			
							+			
							]			
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Hydrock	Project: North West Bicester Eco Development							
Try di OCK				Pa	ge No.	. 1 of	1	
Method: Trial Pit		Date(s): 08/09/2020	Logged By: TE		Check		<u> </u>	
Client: Firethorn Bicester Ltd		Co-ords: 457210.96, 225276.44	Stability: No C	collapse	Dimer	1 <b>sion</b> 9		Scale:
Hydrock Project No: C-13603		Ground Level: 90.30m OD	Plant: 8T432		0.60m			1:25
Samples / Tests  Depth (m) Type Results	Water- Strikes	Stratum Descr	ription		Depth	Thickness (m)	Level m OD	Legend
Depth (m) Type Results		Soft brown slightly sandy gravelly CLAY with freq angular fine to coarse of limestone. (TOPSOIL)		-	0.30	(0.30)	90.00	Lee Lee
		Firm light grey mottled light brown slightly sandy white powder and calcareous nodules. Gravel is coarse of limestone. (CORNBRASH FORMATION)	sub angular to sub ro	ounded fine to	al	(0.70)	89.30	
	•	Soft to firm (wet) orangish brown mottled whitish CLAY. Gravel is sub angular fine to coarse limest (FOREST MARBLE FORMATION)	grey slightly sandy sl tone lithorelicts. Sand	lightly gravelly t is fine.		(0.90)		
General Remarks:		Base of Excavation a	it 1.90m		3 -		88.40	

Logged in general accordance with BS5930:2015

Hydro	ck	Development Page					Trialp <b>TP</b>		,	
					1		ge N			
Method: Trial				Date(s): 08/09/2020	Logged By: TE		Chec			
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457246.50, 225313.53	Stability: No C	ollapse	Dime	nsio: 2.50	m	Scale:
Hydrock Proje	ect No: C-	-13603		Ground Level: 91.50m OD	Plant: 8T433		0.60m	<u> </u>	ᆚ	1:25
Depth (m)	Type	sts Results	Water- Strikes	Stratum Desc			Depth	mbgl Thickness (m)	Level m OD	Legend
				Soft brown slightly sandy gravelly CLAY with fre angular fine to coarse of limestone.  (TOPSOIL)	quent rootlets. Gravel	is angular to su	ıb - 0.3	(0.30		
				Orangish brown clayey sandy angular to sub an limestone with medium cobble content. Cobbles limestone. (HEAD DEPOSITS)			- 0.6	(0.30	90.90	
				Light brown clayey sandy angular fine to coarse content. Cobbles are angular to sub angular of I (HEAD DEPOSITS)		e with high cobb		(0.50		
				Firm light grey mottled light brown slightly sandy white powder and calcareous nodules. Gravel is coarse of limestone.			1 - 1.1 al -	(0.40	90.40	
				(CORNBRASH FORMATION)  Soft to firm (wet) orangish brown mottled whitish			1.5		90.00	
			•	CLAY. Gravel is sub angular fine to coarse limes (FOREST MARBLE FORMATION)		l is fine.	2-	(1.10	88.90	
							3 -			
General Remark	s:						5 -			

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.60m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.

المراب	ck			Project: North West Bicester Eco Development						
Hydro	CK			'		Pa	TP ge No		f 1	
Method: Tria	Pit			Date(s): 08/09/2020	Logged By: TE		Chec			v
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457338.26, 225295.22	Stability: No C	ollapse	Dime			cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 91.60m OD	Plant: 8T434		0.60m	2.50n		1:25
S	amples / Te	sts	Water-	Stratum Desc	crintion		ء	Thickness (m)		рц
Depth (m)	Туре	Results	Strikes	Soft brown slightly sandy gravelly CLAY with free	•	ie angular to ei	Depth	E F E	Level m OD	Legend
				angular fine to coarse of limestone. (TOPSOIL)	quent rootiets. Gravei	is angular to st	0.30	(0.30)	91.30	
				Orangish brown clayey sandy angular to sub an limestone with medium cobble content. Cobbles limestone. \(\((HEAD\) DEPOSITS\)\)	are angular to sub ar	ngular of	0.50	(0.20)	91.10	
				Light brown clayey sandy angular fine to coarse content. Cobbles are angular to sub angular of li (HEAD DEPOSITS)		e with high cobb	ole -	(0.40)		
				Firm light grey mottled light brown slightly sandy white powder and calcareous nodules. Gravel is coarse of limestone. (CORNBRASH FORMATION)	1 -	(0.30)				
				Firm orangish brown mottled yellowish grey sligl is sub angular fine to coarse limestone lithorelict (CORNBRASH FORMATION)	velly CLAY. Gra	vel		90.40		
						(1.00)				
				Base of Excavation	at 2.20m		2.20		89.40	
							3 -			
							4 -			
							-			
							5 -			
General Remarks:				Trial with a LEW at 1971						1

1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Hydro	ock ⊪			Project: North West Bice Development	ester Eco		TP1			
iyurc	CK					Pa	ge No.	1 of	1	
1ethod: Han	d-dug Pit			Date(s): 07/01/2021	Logged By: SI	<b>-</b>	Check			
lient: Firetho	orn Bicest	ter Ltd		Co-ords: 457393.07, 225442.94	Stability: No C	ollapse	Dimen	sions 0.30m		cale:
lydrock Proje	ect No: C	-13603		Ground Level: 92.29m OD	Plant: Hand To	ools	0.30m		_	1:10
S	amples / Te	sts	Water-	Stratum Des	scription		₽_	kness	<del>-</del> □	pue
Depth (m)	Туре	Results	Strikes			ts. Gravel is sul	D- D- D- D-	E (E)	Lev m C	Leg WWW
Depth (m)	Ctriton		Soft brown slightly gravelly slightly sandy CLA' angular to fine to coarse limestone. (TOPSOIL)  Soft orangish brown slightly sandy slightly grave rounded fine to coarse limestone. (HEAD DEPOSITS)  Base of Excavation	Y with occasional rootle		0.30	(m) (0.30)	91.99 91.74		
							2 -			

General Remarks:

1. Trial pit excavated using handtools. 2. Groundwater encountered at 0.55m rising to 0.20m after 30 minutes and prior to starting infiltation testing. Infiltration testing at this location therefore cancelled due to shallow groundwater. 3. Trial pit backfilled with arisings on completion.

Hydrock  Method: Trial Rit				Project: North West Bicester Eco  Development  Page No. 1						
Hydro	OCK			Development		Ps			1	
Method: Tria	I Pit			Date(s): 06/01/2021	Logged By: SI		Check			4
Client: Fireth		ter Ltd		Co-ords: 457469.24, 225384.74	Stability: No C		Dimen	sions		cale:
Hydrock Proj				Ground Level: 92.24m OD	Plant: 8T Trac	-	0.70m	2.20m	<b>]</b> 1	:25
	amples / Te		Water-	Otractions David				ness	1	
Depth (m)	Туре	Results	Strikes	Stratum Desc			Depth	Thickness (m)	m OD	Legend
				Soft brown slightly gravelly slightly sandy CLAY angular to fine to coarse limestone.  (TOPSOIL)	with occasional rootie	its. Gravei is su	0.30	(0.30)	91.94	
				Weak to moderately weak very thinly bedded fra (CORNBRASH FORMATION)	actured orangish brow	n LIMESTONE	i.	(0.30)		
				Base of Excavation	n at 0.60m		0.60		91.64	
							2 -			
							3 -			
							4			
							5 -			
				<u> </u>			-			

General Remarks:

1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported seperately. 3. Trial pit backfilled with arisings on completion.

Hydro	ck			Project: North West Bice Development	ester Eco		TP				
riyurc	CK			·		Pa	ige N	lo.	1 of	1	
Method: Tria	l Pit			Date(s): 06/01/2021	Logged By: SI	P	Che	cke	d By	/: C/	4
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457476.36, 225313.62	Stability: No C	Collapse	Dim		sions <sup>2.20m</sup>	s: S	cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 92.01m OD	Plant: 8T Trac	ked	0.70m			_	1:25
S	amples / Tes	sts	Water-	Stratum Des	crintion			[	Thickness (m)	= 0	pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly slightly sandy CLAY		te Gravel is su	b	mbg	E)	Leve m Of	Legend
				angular to fine to coarse limestone. (TOPSOIL)			-	.25	(0.25)	91.76	
				Weak to moderately weak very thinly bedded fr (CORNBRASH FORMATION)	actured orangish brow	n LIMESTONE					
									(0.55)		
							0	.80		91.21	
				Base of Excavation	n at 0.80m						
							1 -				
							-				
							_				
							2 -				
							-				
							-				
							3 -				
							-				
							-				
							-				
							4 -				
							-				
					-						
							-				
Constant Powerful							5 -				

Uvdra	sek			Project: North West Bick Development	ester Eco		TP1			
Hydro	CK			•		Pa	age No.	1 of	1	
Method: Trial	l Pit			Date(s): 06/01/2021	Logged By: SI		Check			4
Client: Firetho	orn Bicest	er Ltd		Co-ords: 457566.05, 225304.13	Stability: No C	ollapse	Dimen	sions 2.20m	s: S	cale:
Hydrock Proje	ect No: C-	-13603		Ground Level: 91.77m OD	Plant: 8T Trac	ked	0.70m		]  1	1:25
S	amples / Tes	sts	Water-	Stratum De	scription		=-	Thickness (m)		pue
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly slightly sandy CLA		te Gravel is si	Dept	(m)	Level m OD	Legend
				angular to fine to coarse limestone. (TOPSOIL)	Will occusional rooms	io. Graver io de	0.30	(0.30)	91.47	
				Weak to moderately weak very thinly bedded (CORNBRASH FORMATION)	_	n LIMESTONI	0.50	(0.20)	91.27	
				Base of Excavati	on at 0.50m		0.50		91.27	
							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported seperately. 3. Trial pit backfilled with arisings on completion.

	. , II)				ester Eco	Project: North West Bicester Eco  Development  TP105  Page No. 1 of				
Hydro	OCK			Вечеюринени		Pa			1	
Method: Tria	l Pit			Date(s): 06/01/2021	Logged By: SI		Check			١
Client: Firetho		ter Ltd		Co-ords: 457630.22, 225264.05	Stability: No C		Dimen	sions		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 91.30m OD	Plant: 8T Trac	ked	0.70m	2.20m	] 1	:25
S	amples / Te	sts	Water-	Stratum Des	arintian			ness		- Pu
Depth (m)	Туре	Results	Strikes			to Cravalia a	Depth	Thickness (m)	Level m OD	Legend
				Soft brown slightly gravelly slightly sandy CLA' angular to fine to coarse limestone.  (TOPSOIL)	Y With occasional rootie	ets. Gravei is st	0.30	(0.30)	91.00	
				Weak to moderately weak very thinly bedded f (CORNBRASH FORMATION)	ractured orangish brow	n LIMESTONE	E	(0.30)	31.00	
				Base of Excavation	on at 0.60m		0.60		90.70	
						1 -				
							2 -			
							-			
							3 -			
							-			
							-			
							4 -			
Constal Paradica							5 -			

General Remarks:

1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported seperately. 3. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bicester Eco Development TP106 Page No. 1 of						
Hydro	OCK			Development		D			: 1	
Method: Tria	I Pit			Date(s): 06/01/2021	Logged By: Si		Check			$\overline{\Box}$
Client: Fireth		ter Ltd		Co-ords: 457587.50, 225178.05	Stability: No C		Dime			cale:
Hydrock Proj				Ground Level: 91.04m OD	Plant: 8T Trac		0.70m	2.20m	$\neg   \cdot$	1:25
	amples / Te		Water-		I.			ssau		ъ
Depth (m)	Туре	Results	Strikes	Stratum Desc			Depth	Thickness (m)	Level m OD	Legend
				Soft brown slightly gravelly slightly sandy CLAY angular to fine to coarse limestone.  (TOPSOIL)	with occasional rootle	ets. Gravel is su		(0.30)	90.74	
				Light brown slightly gravelly clayey SAND. Grave (HEAD DEPOSITS)	el is angular fine to co	oarse limestone	0.30		90.74	
							-	(0.50)		
				Base of Excavation	at 0.80m		0.80		90.24	
							2 -			
							-			
							-			
							3 -			
							-			
							-			
							4 -			
Constant Portation							5 -			

Hydro	ock ⊪			Development					No )7		
Method: Trial				Data(s): 06/01/2021	Loggod By: SI				1 of d By		^
Client: Firetho		tor I td		` '	Stability: No C				sions		cale:
Hydrock Proje					Plant: 8T Trac	опароо	0.70m		2.20m		1:25
	amples / Tes			Ground Level. 90.12m OD	Flant. of Trac	keu			ss	ᆚ	
Depth (m)	Туре	Results	Water- Strikes	Stratum Descr	ription		4	nbgl	Thickness (m)	evel n OD	Legend
				Soft brown slightly gravelly slightly sandy CLAY wangular to fine to coarse limestone. (TOPSOIL)  Weak to moderately weak very thinly bedded fraction (CORNBRASH FORMATION)			0	30	(0.30)	89.82	
				Firm light yellowish brown silty CLAY. (CORNBRASH FORMATION)			-		(0.30)	89.52	
				Base of Excavation a	i 0.90m		1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	90		89.22	
Canaral Pamark	5-										

Hydro	ock			Project: North West Bices Development	roject: North West Bicester Eco evelopment			t No 08		
							ge No			
Method: Trial					Logged By: CA		Check			
Client: Firetho	orn Bicest	ter Ltd		Co-ords: 457586.87, 225069.09	Stability: No C	ollapse	Dimer	1 <b>SION</b> 2.10m		cale:
Hydrock Proje	ect No: C	-13603	T	Ground Level: 87.92m OD	Plant: 8T Tracl	ked	0.70m			1:25
	amples / Tes		Water-	Stratum Descri	ption		£ =	ckness	le C	puel
Depth (m)	Туре	Results	Stikes			al rootlets. Grav	rel	ĒĒ	n Ce	Ĕ WWW
Depth (m)	Type	Results	Water- Strikes	Soft brown organic slightly sandy slightly gravelly is sub-angular to sub-rounded fine to coarse sand (TOPSOIL)  Soft orangish brown slightly sandy slightly gravelly rounded fine to coarse limestone. (HEAD DEPOSITS)  Becoming firm below 1.20m.  Moderately weak light yellowish grey LIMESTONE (FOREST MARBLE FORMATION)  Base of Excavation at	CLAY with occasions stone.		0.50	(0.50) (0.50)	87.42 885.62	Legend Control of the
							4 -			
Conoral Pomark							5 -			

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater encountered at 2.00m, flow rate slow. 3. Soil infiltration testing carried out in the trial pit (gravel installed from 1.50m to 2.30m), results reported seperately. 4. Trial pit backfilled with arisings on completion.

				Project: North West Bices Development	ster Eco		rna TF	-			
Hydro	ck			Development					ງອ 1 of	1	
Method: Tria	l Pit			Date(s): 05/01/2021	Logged By: C				ed By		3
Client: Firetho	orn Bices	ter Ltd		Co-ords: 457652.35, 225051.88	Stability: Colla			nen	sions		cale:
Hydrock Proj	ect No: C	-13603		Ground Level: 87.44m OD	Plant: 8T Trac	ked	0.70		2.80m	] ′	1:25
S	amples / Te	sts	Water-	Stratum Desc	rintion			£_	Thickness (m)	_	pue
Depth (m)	Туре	Results	Strikes	Soft brown organic slightly sandy slightly gravelly		al rootlets. Gra		Depth mbgl	H (E)	Level m OD	Legend
				is sub-angular to sub-rounded fine to coarse san (TOPSOIL)			-		(0.30)		
				Soft orangish brown slightly sandy slightly gravel ceramic fragments. Gravel is sub-angular to sub-(MADE GROUND)			i - -	0.30	(0.30)	87.14	
				Very weak light yellowish grey LIMESTONE.				0.60		86.84	
				(FÓREST MĂRBLE FORMAŤION)			-				
							1 -		(1.20)		
							-				
							-				
				Stiff dark bluish and greenish grey slightly gravel rounded fine to medium mudstone and limestone	ly CLAY. Gravel is su	b-angular to su	b- -	1.80		85.64	
				(FOREST MARBLE FORMATION)			2 -				
							-				
							-		(1.20)		
							-				
				Base of Excavation a	at 3.00m		з-	3.00		84.44	·
							-				
							-				
							4 -				
							-				
							-				
							- - -				
							5 -				

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.80m, flow rate slow. 3. Sidewalls collapsing locally in the trial pit between 1.40m and 1.80m. 4. Soil infiltration testing carried out in the trial pit (gravel installed from 1.60m to 3.00m), results reported seperately. 5. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bice Development	Trialpit No TP110						
						Page No. 1 of 1					
Method: Trial Pit				Date(s): 07/01/2021	Logged By: SI						
Client: Firethorn Bicester Ltd				Co-ords: 457857.29, 225163.93	Stability: No C	lo Collapse Dimensions				cale:	
Hydrock Project No: C-13603				Ground Level: 89.51m OD	Plant: 8T Trac	ked	0.70m 1:2				
Depth (m)	Samples / Tests         Water-           Depth (m)         Type         Results         Strikes			Stratum Desc	cription		Depth mbgl	Thickness (m)	Level m OD	Legend	
				Soft brown slightly gravelly slightly sandy CLAY angular to fine to coarse limestone.  (TOPSOIL)  Weak to moderately weak very thinly bedded fra (CORNBRASH FORMATION)  Base of Excavation	actured orangish brow		0.30	(0.30)	89.21	7	

General Remarks:

1. Trial pit mechanically excavated. 2. Groundwater was encountered at 0.50m rising to 0.20m after one hour and prior to carrying out infiltration testing. Infiltration test therefore cancelled due to shallow groundwater. 3. Trial pit backfilled with arisings on completion.

Uccelus als				Project: North West Bice Development	TP111						
Hydrock				Page No. 1 of 1							
Method: Trial Pit				Date(s): 07/01/2021	Logged By: SI		Checked By: CA			4	
Client: Firethorn Bicester Ltd				Co-ords: 457887.63, 225121.07	Stability: No C	Collapse Dimensions			S	cale:	
Hydrock Project No: C-13603				Ground Level: 88.86m OD	Plant: 8T Trac	cked 0.70m			20m	] 1	:25
Samples / Tests Water-				Stratum Desc	crintion		ء	Chess	(m)		pu
Depth (m)	Туре	Results	Strikes	Stratum Description  Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is si			Dept	mbgl	Œ .	m OD	Legend
				angular to fine to coarse limestone. (TOPSOIL)				(0	.30)	88.56	56
				Dark reddish brown slightly gravelly clayey SAND. Gravel is angular medium to coa limestone. (HEAD DEPOSITS)					.40)		
				Base of Excavation at 0.70m						88.16	ټ. ٠ <u>ټ.</u>
							-				
							-				
							2 -				
							-				
							-				
							3 -				
							-				
							4 -				
							5 —				

General Remarks:

1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported seperately. 3. Trial pit backfilled with arisings on completion.

Hydrock				Project: North West Bice: Development	TP112						
				Page No. 1 of 1					1		
Method: Trial Pit				Date(s): 07/01/2021	Logged By: SI	1			Α		
Client: Firethorn Bicester Ltd				Co-ords: 457951.97, 225210.89	Stability: No C	ollapse	Dime		s: S	cale:	
Hydrock Project No: C-13603				Ground Level: 88.94m OD	Plant: 8T Trac	ked	0.70m	0.70m		1:25	
Samples / Tests Water-				Stratum Desc	ription		£ -	Thickness (m)		pue	
Depth (m)	Туре	Results	Strikes	Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-				E E	Leve	Legend	
				angular to fine to coarse limestone. (TOPSOIL)				(0.30)	88.64		
				Dark reddish brown slightly gravelly clayey SAND. Gravel is angular medium to coars limestone. (HEAD DEPOSITS)				(0.40)			
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE.  (CORNBRASH FORMATION)  Base of Excavation at 0.90m					88.24 88.14		
							2-				
							4-				

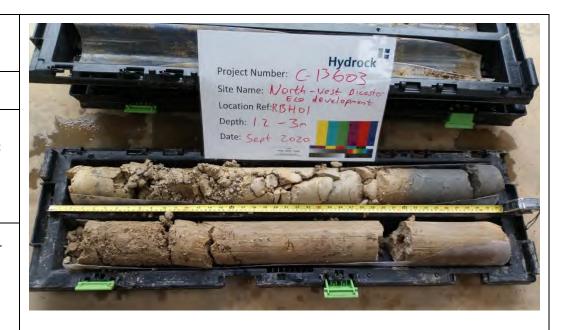


Date: Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** RBH01 1.20 – 2.00m (bottom); 2.00m to 3.00m (top).



#### Site Investigation Photograph 2

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** RBH01 3.00 – 4.00m (top); 4.00m to 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH02 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



Site Investigation Photograph 4

Date: Sept. 2020

Direction Photograph Taken:

n/a.

**Description:** RBH02 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH03 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



# Site Investigation Photograph 6

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH03 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** RBH04 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 8

Date: Sept. 2020.

Direction
Photograph Taken:

n/a.

**Description:** RBH04 3.00m – 4.00m (top); 4.00m – 5.00m (base).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH05 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 10

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH05 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).



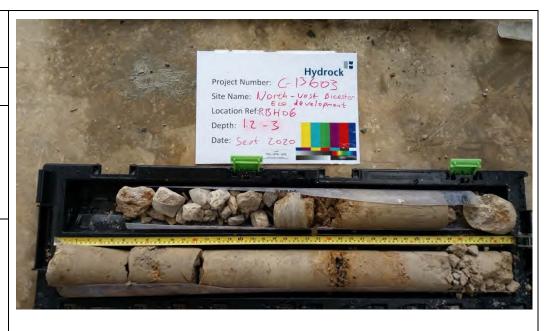


Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH06 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 12

Date: Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** RBH06 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH07 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 14

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH07 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH08 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



# Site Investigation Photograph 16

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH08 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH09 2.00m - 3.00m (bottom); 3.00m - 3.50m (top).



Site Investigation Photograph 18

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH09 3.50m – 5.00m.





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH10 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



## Site Investigation Photograph 20

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH10 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH11 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



## Site Investigation Photograph 22

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH11 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH12 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 24

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH12 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction

**Photograph Taken:** 

n/a

**Description:** RBH13 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 26

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH13 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH14 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



### Site Investigation Photograph 28

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH14 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).



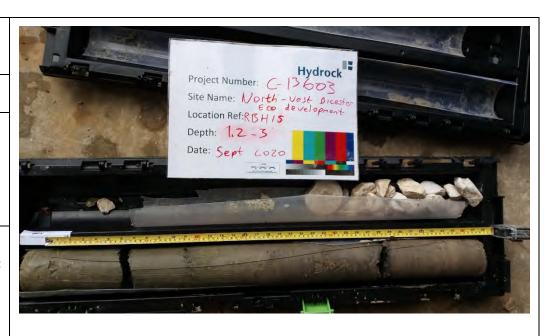


Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** RBH15 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).



#### Site Investigation Photograph 30

**Date:** Sept. 2020

Direction Photograph Taken:

n/a

**Description:** RBH15 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** TP10 trial pit in Site B.



Site Investigation Photograph 2

Date: Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** TP10 spoil heap.





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** TP15 showing groundwater entry (Site B).



Site Investigation Photograph 4

Date: Sept. 2020

Direction
Photograph Taken:

n/a.

**Description:** TP17 excavation and groundwater entry.





**Date:** Sept. 2020

Direction

**Photograph Taken:** 

n/a

**Description:** TP20 excavation and groundwater entry.



Site Investigation Photograph 6

Date: Sept. 2020

Direction

**Photograph Taken:** 

n/a

**Description:** TP22 excavation and groundwater entry.





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP23 excavation and groundwater entry.



Site Investigation Photograph 8

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP23 spoil heap.





Date: Sept. 2020.

Direction
Photograph Taken:

n/a

**Description:** TP05 excavation and groundwater.



Site Investigation Photograph 10

**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP05 spoil heap comprising limestone of the Cornbrash Formation.





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP52 excavations (Site A).



Site Investigation Photograph 12

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP52 spoil heap.





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP24 excavations.



Site Investigation Photograph 14

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** Spoil heap from TP24.





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP39 excavations.



Site Investigation Photograph 16

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP39 spoil heap.





Date: Sept. 2020

Direction

**Photograph Taken:** 

n/a

**Description:** TP27 excavations.



Site Investigation Photograph 18

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP27 spoil heap.





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP36 excavations.



Site Investigation Photograph 20

Date: Sept. 2020

**Direction Photograph Taken:**n/a.

**Description:** TP36 spoil heap.





**Date:** Sept. 2020

Direction

**Photograph Taken:** 

n/a

**Description:** TP72 excavations (Caverfield)



Site Investigation Photograph 22

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP72 spoil heap.





Date: Sept. 2020

Direction

**Photograph Taken:** 

n/a

**Description:** TP79 excavations.



Site Investigation Photograph 24

Date: Sept. 2020

Direction

**Photograph Taken:** 

n/a.

**Description:** TP81 excavations and groundwater entry.





Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP81 spoil heap.



Site Investigation Photograph 26

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP73 excavation and break out of limestone.





**Date:** Sept. 2020

Direction

Photograph Taken:

n/a

**Description:** TP88 excavations.



Site Investigation Photograph 28

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP88 spoil heap.





**Date:** Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP63 excavation and break out of limestone.



Site Investigation Photograph 30

Date: Sept. 2020

Direction
Photograph Taken:

n/a

**Description:** TP63 spoil heap.

