		Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP	102	Page: 1 of 1
Environment - Health & Safety - Sus		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whall	ey		
	Trial Pit Log		Date:	11/07/	2018		Client:	Tra Tru		lousing
Description of	04		Strata	Reduced		Samp	le Details		Test	Details
Description of		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type R	ef Dej (n	pth n)	Results
TOPSOIL: Grass over brown slightly sand.	r clayey fine to mediur	n	0.26	53.54		0.26	В 1			
Brown slightly clayey slightly gravelly Gravel is subrounded fine to coarse [DEVENSIAN TILL]	of natural lithologies.		- - - - - - - - - - - - - - - - - - -	52.80		0.26 - 1.00	В1			
Brown slightly sandy gravelly CLAY. Gravel is subrounded fine to coarse [DEVENSIAN TILL]	of natural lithologies.		- - - - - - - - - - - -	52.00						
Brown slightly clayey sandy subroun GRAVEL of natural lithologies. Very t [DEVENSIAN TILL]	nded fine to coarse frequent cobbles.		2.30	51.50		2.30	В 2			
Trial pit complete at 2										
Dimensions and Orientation: Width = 0.50 m	Length = 3.30 m	Orientation:	2. Area 3. Grour 4. No vis 5. Hole 1	l cleared for s ndwater was sual or olfac terminated a backfilled w	services s not en ctory evi at 2.3 m	prior to countere dence of due to ir	excavatior d during e contamina stability.	is. xcavatic ation wa	n. s encou	
Coordinates: E373623.00 N436222.00	Elevation (mAOD): 53.80	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: Cł RR	necked: MB	Approve RJS	

		Head Office Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP103	Page: 1 of 1
deltasimc Environment - Health & Safety - Sustain	ons	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalley	/	
Tr	ial Pit Log		Date:	11/07/	2018		Client:	Traffor Trust	d Housing
			Strata	Reduced	Water	Samp	le Details	Te	est Details
Description of Str		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly cla fine to medium sand. Gravel is subroun natural lithologies. Orangish brown slightly clayey gravelly	ided fine to coarse o	f	0.27	53.98					
Gravel is subrounded fine to coarse of Frequent cobbles. [DEVENSIAN TILL]	natural lithologies.		 	53.25					
Soft to firm dark brown slightly sandy g fine to medium. Gravel is subrounded f mudstone and other natural lithologies.	ine to coarse of					2.00 -	В 1	2.00	HV=101 kPa
At 2.0 m: Stiff. Dark brown slightly clayey sandy subro	unded to subangular		2.10	52.15	-	3.00 -	БІ	2.00	
fine to coarse GRÁVEL of mudstone an lithologies. Very frequent cobbles. [DEV	/ENSIAN TILL]			50.45					
That pit complete at 3.00	o m bgi.		-						
			- - - - - - - - - - - - - - - - - - -						
Dimensions and Orientation:	ength = 3.10 m	Orientation:	cleared encount contami	eer verified for services ered during nation was	prior to excava encoun	excavati tion. 4. N tered. 5.	ons. 3. Grou lo visual or ol Hole terminat	ndwater w factory ev ed at 3.8	idence of
Coordinates: E	Elevation (mAOD):	Excavated By:	Plant Use	ad:			iged: Chec	ked: Ann	roved: Scale:

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP	104	Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe l	Road,	Whall	ey		
Trial Pit Log		Date:	12/07/	2018		Client:	Tra Tru	fford st	lousing
Description of Strata	Legend	Strata Depth	Reduced Level	Water Strike		le Details	;	Test	Details
		(m)	(mAOD)	(m)	Depth (m)	Type R		pth n)	Results
TOPSOIL: Grass over brown sandy clay. Sand is fine to coarse.		0.30	54.49						
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		- - - 0.80	53.99						
Orangish brown sandy gravelly CLAY. Sand is fine to coars Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL	يد از المعنى المحمد (المعنى المحمد (المحمد) المحمد (المحمد) والمحمد (الله المحمد) والمحمد (الله المحمد) والمحمد (المحمد)								
Orangish brown slightly clayey slightly gravelly fine to coar		1.50	53.29	-					
SAND. Gravel is subrounded to subangular fine to coarse natural lithologies. [DEVENSIAN TILL]	to the second seco		52.19	2.60 🗸	0.00				
Trial pit complete at 2.60 m bgl.		-			2.60 - 3.60	B 1			
Dimensions and Orientation: Length = 4.30 m	Orientation:	Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 2.6 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.6 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.							
Coordinates: Elevation (mAOD): E373625.60 N436269.42 54.79	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: C	hecked: MB	Approve RJS	

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.0	3	Hole ID:	TP105	Page: 1 of
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	/	
Trial Pit Log		Date:	11/07/	2018	-	Client:	Trafford Trust	l Housing
		Strata	Reduced		Samp	le Details	Te	st Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse sand. Soft to firm orangish brown slightly sandy slightly gravelly		0.40	55.58	_				
CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]					1.00 - 2.50	B 1		
Orangish brown very clayey slightly gravelly fine to coarse			53.48	_				
SAND. Gravel is subrounded to subangular fine to coarse nudstone, shale and other natural lithologies. [DEVENSIA FILL]	of AN		52.58		3.00 - 3.40	В 2		
Trial pit complete at 3.40 m bgl.								
imensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	2. Area 3. Grou 4. No vi 5. Hole	eer verified cleared for ndwater was sual or olfac terminated	services s not en ctory evi at 3.4 m	s prior to countere idence of due to ir	al accordanc excavations. d during exc contamination istability. verse order o	avation. on was enc	ountered.
oordinates: Elevation (mAOD): E373663.77 N436275.24 55.98	Excavated By: Clive Hurt Limited	Plant Use	JCB 30	x		gged: Chec MB F		oved: Scale: JS 1:3

	Head Office ley Way, Doddington Road Lincoln, LN6 3QR	Project N	° [:] 18-08	86.0	3	Hole ID:	TP106	Page: 1 of 2
	II: +44 (0) 1522 882555 il: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	у	
Trial Pit Log		Date:	12/07/2018			Client:	Trafford Trust	d Housing
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Samp Depth (m)	le Details Type Ref	Te Depth (m)	st Details Results
TOPSOIL: Grass over brown clayey fine to coarse sand.		- 0.50	55.07		(,		(,	
Firm orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		- - - - - - - - - - - - - - - - - - -	54.17					
Orangish brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine coarse of mudstone and other natural lithologies. Occasional pockets of orange and black fine to medium sand. [DEVENSIAN TILL]		3.60	51.97		2.00 - 2.10	B 1		
Trial pit complete at 3.60 m bgl.								
Dimensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	2. Area 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac terminated a	services s not en ctory evi at 3.6 m	s prior to countere idence of due to ir	al accordanc excavations. d during exc contaminati istability. verse order c	avation. on was end	ountered.
Coordinates: Elevation (mAOD): Exc E373678.54 N436214.60 55.57 Exc	avated By: Clive Hurt Limited	Plant Use	JCB 3C	x				oved: Scale:

	Lincoln, LN6 3QR Fel: +44 (0) 1522 882555 iail: info@deltasimons.com	Project: Date: Strata Depth (m) - - - - - - - - - - - - -	Clithe 12/07/ Reduced Level (mAOD) 55.12	2018		Whalley Client: De Details Type Ref	Trafford Trust	d Housing st Details Results
Description of Strata TOPSOIL: Grass over brown clayey fine to coarse sand. Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL] Orangish brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies.		Strata Depth (m) 	Reduced Level (mAOD)	Water Strike	Depth	le Details	Trust Tes Depth	st Details
TOPSOIL: Grass over brown clayey fine to coarse sand. Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL] Orangish brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies.		Depth (m)	Level (mAOD)	Strike	Depth		Depth	
TOPSOIL: Grass over brown clayey fine to coarse sand. Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL] Orangish brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies.		(m) 	(mAOD)			Type Ref	Depth (m)	Results
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL] Orangish brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies.		- - -	55.12	_				
[DEVENSIAN TILL] Orangish brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies.		 				1		
subrounded to subangular fine to coarse of natural lithologies.			54.52		1.00 -	В 1		
Brown sandy subrounded fine to coarse GRAVEL of natural			<u>51.52</u> 51.42	4.00 🗸	4.00			
lithologies. Sand is fine to coarse. [DEVENSIAN TILL] Trial pit complete at 4.10 m bgl. Dimensions and Orientation: Length = 5.00 m Width = 0.70 m	Orientation: Inclination:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac terminated a	services s encour ctory evi- at 4.1 m	prior to e ntered at dence of due to in	al accordance excavations. 4.0 m during contaminatic instability. verse order of	g excavation on was enc	n. countered.
Coordinates: Elevation (mAOD): Ex E373660.03 N436243.40 55.52	cavated By:							

3 H	Head Office enley Way, Doddington Road	Project N	° [:] 18-08	86.0	3	Hole ID:	TP108	Page: 1 of
	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalley	y	
Trial Pit Log		Date:	12/07/	2018		Client:	Trafford Trust	Housing
Description of Strata	Legend	Strata Depth	Reduced Level	Strike	Samp Depth	le Details	Tes Depth	st Details
TOPSOIL: Grass over brown clayey fine to coarse sand.		(m)	(mAOD)	(m)	(m)	Type Ref	(m)	Results
Orangish brown clayey silty fine to coarse SAND. [DEVENSIAN TILL] Orangish brown slightly clayey slightly gravelly fine to coarse		2.30	55.64		1.20 - 1.30 1.50 - 2.30	B 1 B 2		
SAND. Gravel is subrounded fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]					3.30 - 3.40	В 3		
Trial pit complete at 4.50 m bgl.	<u> 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>	<u>4.50</u>	53.44					
Dimensions and Orientation: Length = 4.80 m Width = 0.70 m	Orientation:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac erminated a	services s not en ctory evi at 4.5 m	s prior to e countere dence of due to ir	al accordanc excavations. d during exci contaminatio istability. erse order o	avation. on was enco	ountered.
Coordinates: Elevation (mAOD): E: E373707.75 N436241.96 57.94	cavated By: Clive Hurt Limited	Plant Use	d: JCB 3C	x		iged: Chec MB F		JS Scale:

	3	Head Office Henley Way, Doddington Road	Project N	° [:] 18-08	86.0	3	Hole ID:	TP109	Page: 1 of 1
deltasimo Environment - Health & Safety - Sustain		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	у	·
Tri	al Pit Log		Date:	11/07/	2018		Client:	Traffor Trust	d Housing
Description of Stra	ata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	-	le Details Type Ref	Danth	est Details Results
TOPSOIL: Grass over brown clayey fine	e to coarse sand.		0.50	54.90		0.50	В 1		
Orangish brown sandy slightly gravelly (coarse. Gravel is subrounded to subang mudstone, shale and other natural lithole TILL]	ular fine to coarse o	f	2.10	53.30		0.50 - 2.00			
Brown clayey gravelly fine to coarse SA subrounded to subangular fine to coarse and other natural lithologies. [DEVENSI/	e of mudstone, shale		3.70	51.70		3.50 - 3.70	В 2		
Trial pit complete at 3.70	m bgl.								
Dimensions and Orientation: Le	ngth = 4.50 m	Orientation:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac erminated s	services s not en ctory evi at 3.7 m	s prior to o countere idence of o due to ir	al accordance excavations. d during exc contaminati nstability. verse order c	avation. on was end	countered.
Coordinates: EI E373645.06 N436292.25	evation (mAOD): 55.40	Excavated By: Clive Hurt Limited	Plant Use	d: JCB 30	x				roved: Scale: CJS 1:30

	Head Office nley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP110	D Page: 1 of 1
	Lincoln, LN6 3QR el: +44 (0) 1522 882555 ail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	у	
Trial Pit Log		Date:	11/07/	2018		Client:	Traffor Trust	d Housing
		Strata	Reduced	Water	Samp	le Details	Т	est Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Brown clayey fine to coarse sand.		-	57.00					
Firm orange and grey mottled slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		0.40	57.33		1.00 -	B 1		
					1.90	ВТ		
Soft orangish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]		<u>1.90</u>	55.83	1.90	2.00 - 2.50	B 2		
Brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		2.50	55.23	_	2.50 - 3.80	В 3		
Trial pit complete at 3.80 m bgl.				-				
Dimensions and Orientation: Length = 4.40 m Width = 0.70 m	Orientation:	2. Area 3. Grour 4. No vis 5. Hole 1	eer verified cleared for ndwater was sual or olfac terminated	services s encou ctory evi at 3.8 m	prior to entered at dence of due to ir	al accordance excavations. 1.9 during e contaminati nstability. verse order o	excavation on was en	countered.
Coordinates: Elevation (mAOD): Ex E373703.11 N436290.52 57.73	cavated By: Clive Hurt Limited	Plant Use	JCB 30	x				oroved: Scale: RJS 1:30

		Head Office 3 Henley Way, Doddington Road	Project N	° [:] 18-08	86.03	;	Hole ID	ТР	111	Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainability		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe F	Road,	Whal	ley		
Trial Pit	Log		Date:	11/07/	2018		Client:	Tra Tru		ousing
			Strata	Reduced		Samp	le Detail	6	Test E	Details
Description of Strata		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type F		pth n)	Results
TOPSOIL: Brown slightly clayey fine to medium			_ _ 0.22	54.80						
Light brown slightly sandy gravelly CLAY. Sand coarse. Gravel is subrounded to subangular fine natural lithologies. Frequent cobbles. [DEVENS	e to coarse IAN TILL]		- - - - - - 1.00	54.02		1.00 -	В 1			
Soft to firm brown slightly sandy gravelly CLAY. coarse. Gravel is subrounded fine to coarse of r other natural lithologies. [DEVENSIAN TILL]			- - 1.40	53.62		1.40				
Soft to firm dark brown sandy gravelly CLAY. Sa coarse. Gravel is subrounded to subangular fine mudstone and other natural lithologies. [DEVEN Dark brown slightly clayey sandy subrounded to fine to coarse GRAVEL of mudstone and other r	e to coarse ISIAN TILL	of	 	52.52						
lithologies. [DEVENSIAN TILL] Trial pit complete at 3.00 m bgl.			- - - 3.00	52.02						
Dimensions and Orientation: Length = 3 Width = 0.60 m	.40 m	Orientation:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac erminated a packfilled w	services s not end tory evid at 3.0 m	prior to e countered dence of due to in	excavatio d during e contamir istability.	ns. excavatio ation wa	on. Is encour	
Coordinates: Elevation (E373612.75 N436342.00 55	mAOD): .02	Excavated By: Clive Hurt Limited	Plant Use	d: JCB 3C	x		ged: C RR	hecked: MB	Approve RJS	

	Head Office nley Way, Doddington Road	Project N	° [:] 18-08	86.03	3	Hole ID:	TP112	Page: 1 of ^r
	Lincoln, LN6 3QR el: +44 (0) 1522 882555 ail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	/	U
Trial Pit Log		Date:	12/07/	2018		Client:	Trafford Trust	Housing
Description of Strata	Legend	Strata Depth	Reduced Level	Strike	Samp Depth	le Details	Tes Depth	t Details
TOPSOIL: Grass over brown clayey fine to coarse SAND.		(m) 	(mAOD)	(m)	(m)	Type Ref	(m)	Results
Orangish brown slightly sandy gravelly CLAY. Sand is fine to		0.30	55.84					
coarse. Gravel is fine to coarse subangular to subrounded mudstone, shale and sandstone. Occasional coal gravel. [DEVENSIAN TILL] Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is		0.80	55.34	-				
fine to coarse subrounded to subangular sandstone and mudstone. [DEVENSIAN TILL]				1.20 🗸				
					1.50 - 2.50	В 1		
Orangish brown slightly clayey gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded shale and mudstone. [DEVENSIAN TILL]		2.60	53.54	-	3.00 - 4.00	B 2		
		4.00	52.14					
Trial pit complete at 4.00 m bgl.		_						
Dimensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac erminated a	services s encou ctory evi at 4.0 m	prior to ntered at dence of due to ir	al accordanc excavations. 1.2 m bgl du contaminatio istability. verse order o	iring excava	tion. untered.
Coordinates: Elevation (mAOD): Exc E373664.32 N436324.86 56.14 Exc	cavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: Chec MB F	ked: Appro	ved: Scale: IS 1:30

3 Henle	Head Office ey Way, Doddington Road	Project N	° [:] 18-08	86.0	3	Hole ID:	TP113	Page: 1 of 1
	Lincoln, LN6 3QR +44 (0) 1522 882555 : info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	y	
Trial Pit Log		Date:	12/07/	2018		Client:	Trafford Trust	l Housing
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Samp Depth	le Details	Depth	st Details Results
TOPSOIL: Grass over brown clayey fine to coarse SAND.			(IIIAOD)	(11)	(m)	туре кет	(m)	Results
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		0.30	57.79					
		- 1.50	56.59	1.50	0.80 - 0.90	B 1		
Greyish orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded sandstone, shale and mudstone. Frequent sandstone cobbles. [DEVENSIAN TILL]			00.00	1.50	2.00 - 3.00	B 2		
			55.09					
Orangish brown clayey slightly gravelly fine to coarse SAND. Gravel is fine to coarse subrounded to subangular of sandstone and mudstone. [DEVENSIAN TILL]				-				
Trial pit complete at 4.30 m bgl.		4.30	53.79	_				
		- - 						
Dimensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac terminated a	services s encou ctory evi at 4.3 m	s prior to o ntered at idence of o due to ir	al accordance excavations. 1.5 m during contaminati nstability. verse order c	g excavation on was enc	n. ountered.
	vated By: Clive Hurt Limited	Plant Use	d: JCB 3C	x				oved: Scale: JS 1:30

		Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP	118	Page: 1 of 1
deltasimo Environment - Health & Safety - Sustain	ns	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe F	Road,	Whall	ey		
Tri	al Pit Log		Date:	10/07/	2018		Client:	Traf Trus	ford Ho st	using
Description of Otor	-4-	land	Strata	Reduced		Samp	le Details		Test De	tails
Description of Stra		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Dep (m		esults
TOPSOIL: Grey brown slightly silty claye SAND with numerous rootlets and rare g quartzite.	ey fine to medium gravel of subrounde	ed	0.30	69.26						
Stiff orange brown slightly gravelly silty (orange fine to medium sand partings. Gr subangular to subrounded quartzite and cobbles of sandstone. [DEVENSIAN TIL	ravel is fine to med sandstone. Rare	Image: Second			-	0.70	B 1			
<u>At 1.2 m: Becomes firm and dark g</u> rey.			1.60	67.96				1.3 1.5		=62 kPa =60 kPa
Dark grey slightly sandy gravelly CLAY. subangular to subrounded fine to coarse siltstone. Occasional subrounded cobble [DEVENSIAN TILL]	e sandstone and			07.90	-					
Trial pit complete at 2.75	m bgl.	مان میکند. از بایین با میکند از بایین میکند. [ماین میکند] (میکند] (میکند] (میکند] (میکند] (میکند] (میکند] 	- 2.75 -	66.81						
Dimensions and Orientation:	ngth = 3.50 m	Orientation:	2. Area 3. Groun 4. No vis 5. Hole	eer verified cleared for s ndwater was sual or olfac terminated a backfilled w	services s not eno ctory evic at 2.75 n	prior to countere dence of n due to	excavation d during ex contamina instability.	s. cavatior tion was	n. s encounte	
Coordinates: EI E373894.46 N436412.43	evation (mAOD): 69.56	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: Ch	ecked: MB	Approved: RJS	Scale: 1:30

3+	Head Office lenley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	Page: 1 of	
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 mail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalley	/	
Trial Pit Log		Date:	12/07/	2018		Client:	Trafford Trust	d Housing
Description of Strate	Logond	Strata	Reduced		Samp	le Details	Те	st Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over sandy CLAY.		0.20	66.79	-				
Firm greyish brown slightly slity slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse								
subangular to subrounded mudstone and sandstone. DEVENSIAN TILL]								
		<u>_</u>						
	X— — X — X — X — X — X — X — X — X — X	-						
	X X -X X	1-						
	X							
	× × × × × × × × × × × × × × × × × × ×	• -						
		-						
		ł						
		Ē.						
	X X - X X X X X X -	ł		1.60				
		}						
	X—, —x – X—, —x – X—,	t		Ì				
	X X X X	1			2.00 -	В 1		
		+			2.90			
		4- 1						
		ł						
		<u> </u>					2.50	HV=49 kP
	XX_XX_X	-						
	××	1						
	<u> </u>	2.90	64.09					
Soft to firm grey slightly silty gravelly CLAY. Gravel is fine to coarse subrounded mudstone and sandstone. Occasional	× × × × ×	-			3.00 -	B 2		
ounded mudstone cobbles and boulders. [DEVENSIAN TILL	' I <u>^</u> , <u>_</u> , <u>_</u> , <u>_</u> , <u>_</u> ,	-			3.70			
		€ -						
		-						
		-					3.50	HV=52 kP
Trial pit complete at 3.70 m bgl.		3.70	63.29	-				
		-						
		-						
		-						
		-						
		F						
		F						
		-						
		-						
		-						
		t						
		F						
		╞						
		F						
imensions and Orientation:		Remarks	:					
Length = 4.60 m	Orientation:	2. Area	cleared for s	services	prior to	al accordanc excavations.		
Width = 0.70 m	Inclination:	4. No vis 5. Hole	sual or olfac terminated a	tory evi at 3.7 m	dence of due to ir	1.6 m during contamination istability. rerse order o	on was end	ountered.
			- d.					
oordinates: Elevation (mAOD): E E373844.21 N436424.98 66.99	ixcavated By: Clive Hurt Limited	Plant Use	JCB 3C			iged: Chec MB F		oved: Scale: JS 1:3

3+	Head Office lenley Way, Doddington Road Lincoln, LN6 3QR	Project N	86.03	3	Hole ID:	TP120	Page: 1 of 1		
deltasimons Environment - Health & Safety - Sustainability	Tel: +44 (0) 1522 882555 mail: info@deltasimons.com	Project:	Clithe	eroe	Road,	l, Whalley			
Trial Pit Log		Date:	10/07/	2018		Client:	Traffor Trust	d Housing	
		Strata	Reduced	Water	Samp	le Details		est Details	
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results	
TOPSOIL: Grass over brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to medium subangular to subrounded sandstone.		- 0.30	64.87						
Firm orangish brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded sandstone and mudstone. [DEVENSIAN TILL]				2.00			2.00	HV=50 kPa	
Soft to firm grey slightly slightly slightly sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		3.00	62.17				4.50	HV=47 kPa	
Dimensions and Orientation: Length = 4.60 m Width = 0.70 m	Orientation:	2. Area 3. Grou 4. No vi 5. Hole	eer verified cleared for s ndwater was sual or olfac terminated a	services s encou tory evi at 4.6 m	prior to ntered at dence of due to ir	al accordanc excavations. 2.0 m bgl di contaminati istability. rerse order c	uring exca on was en	vation. countered.	
Coordinates: Elevation (mAOD): E E373811.58 N436466.16 65.17 E	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: Chec MB F		roved: Scale: RJS 1:30	

		Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03		Hole ID:	TP1	22	Page: 1 of 1
deltasimor Environment - Health & Safety - Sustainat		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe F	Road,	Whall	əy		
Tria	I Pit Log		Date:	12/07/	2018		Client:	Traffe Trust	ord Hou	using
			Strata	Reduced	Water	Samp	le Details		Test Det	ails
Description of Strat		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Depti (m)	R	esults
TOPSOIL: Grass over brown sandy CLAY coarse.			0.30	66.06						
Brown slightly sandy slightly gravelly CLA coarse. Gravel is fine to coarse subangula sandstone and mudstone. [DEVENSIAN]	ar to subrounded		1.10	65.26						
Firm to stiff brownish grey slightly sandy s Sand is fine to coarse. Gravel is fine to co sandstone and mudstone. Frequent cobbl [DEVENSIAN TILL]	arse subrounded	د العلي الحدي العدي العلي الجدي العدي العدي المحدي الحال العدي الحديث المحدي الحديث العدي				1.80	В 1	1.80	HV	107 kPa
			3.00	63.36	3.00 🗸	1.00		1.00		107 кга
Trial pit complete at 3.00 m	г од.									
Dimensions and Orientation:	gth = 3.10 m	Orientation:	2. Area 3. Groun 4. No vis 5. Hole	: leer verified cleared for s ndwater enc sual or olfac terminated a backfilled w	services countered ctory evid at 3.0 m	prior to d d at 3.0 d lence of due to ir	excavation m during e contamina istability.	s. xcavation. tion was e	encounter	
Coordinates: Elev E373859.57 N436445.11	vation (mAOD): 66.36	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: Ch MB	ecked: A	pproved: RJS	Scale: 1:30

3 Не	Head Office enley Way, Doddington Road	Project N	^{o:} 18-08	86.0	3	Hole ID:	3 Page: 1 of 2			
	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	Vhalley			
Trial Pit Log		Date:	12/07/	2018		Client:	Traffor Trust	rd Housing		
		Strata	Reduced			le Details	Т	est Details		
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results		
TOPSOIL: Grass over brown sandy CLAY. Sand is fine to coarse.		0.40	69.30							
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]										
Soft dark brown slightly silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded sandstone and mudstone.		0.90	68.80	-						
[DEVĔNSIAN TILL]										
					1.90	B 1				
Firm to stiff grey slightly silty gravelly CLAY. Gravel is fine to coarse subangular sandstone and mudstone. [DEVENSIAN		2.60	67.10				2.60	HV=96 kPa		
TILL]										
Brown slightly slity slightly sandy clayey GRAVEL. Gravel is fine to coarse subrounded sandstone and mudstone. [DEVENSIAN TILL]		3.30	66.40	3.30	3.30 - 3.90	B 2				
Trial pit complete at 3.90 m bgl.		3.90	65.80	_						
Dimensions and Orientation: Length = 3.30 m Width = 0.50 m	Orientation: Inclination:	2. Area 6 3. Grour 4. No vis 5. Hole 1	eer verified cleared for ndwater was sual or olfac terminated	services s encou ctory ev at 3.9 m	s prior to intered at idence of i due to ir	al accordance excavations 3.3 m durin contaminati stability. verse order of	g excavati on was en	on. countered.		
Coordinates: Elevation (mAOD): E: E373896.76 N436438.62 69.70	xcavated By: Clive Hurt Limited	Plant Use	JCB 30	cx				oroved: Scale: RJS 1:30		

	Head Office 3 Henley Way, Doddington Road	Ad Project No: 18-0886.03 Hole ID: TP124				124	Page: 1 of 1			
deltasimons Environment - Health & Safety - Sustainability		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe F	Road,	Whall	ey		
Trial Pit	Log		Date:	10/07/	2018		Client:	Trat Tru:	fford Ho st	using
			Strata	Reduced	Water	Samp	le Details	5	Test De	tails
Description of Strata		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type R	ef Dep (m		esults
TOPSOIL: Grey brown slightly gravelly silty sand numerous fine rootlets. Sand is fine to medium. O subangular to subrounded fine guartzite and san	Gravel is		0.20	68.14						
Stiff orange brown and grey slightly gravelly sligh CLAY. Sand is fine. Gravel is fine to medium sub rounded shale. [DEVENSIAN TILL]	itly sandy rounded to		 	67.34						
Firm to stiff orange brown and grey clayey slightly slightly gravelly SILT with occasional orange fine sand partings. Sand is fine. Gravel is fine to med subangular to subrounded sandstone and quartz rounded quartzite cobbles. [DEVENSIAN TILL]	to mediun	n $(\frac{1}{2},\frac$		66.04		1.40	В 1			
Stiff to very stiff grey brown slightly gravelly slight silty CLAY. Sand is fine. Gravel is fine to coarse s subrounded sandstone. Rare orange fine to med partings and bands of grey silt. [DEVENSIAN TIL Wet orange and greyish brown clayey gravelly fir	subangula ium sand .L]	r to \overline{X} $$	- - - 2.80	65.54		2.35	В 2			
SAND. Gravel is subangular to rounded quartzite sandstone. [DEVENSIAN TILL] Trial pit complete at 3.00 m bgl.	e and		- 3.00 	65.34		2.90	В 3			
Dimensions and Orientation: Length = 3.1 Width = 0.70 m	10 m	Orientation:	2. Area 3. Grour 4. No vis 5. Hole t	eer verified cleared for s ndwater was sual or olfac terminated a packfilled w	services s not eno tory evic at 3.0 m	prior to o countere dence of due to ir	excavation d during e contamin nstability.	ns. excavatio ation was	n. s encounte	
Coordinates: Elevation (m E373818.47 N436507.47 68.3		Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		ged: C	hecked: MB	Approved: RJS	Scale: 1:30

	Head Office enley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP12	5 Page: 1 of 1
	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle		
Trial Pit Log		Date:	13/07/	2018		Client:	Traffor Trust	d Housing
		Strata	Reduced		Samp	le Details	Т	est Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Depth (m)	Results
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		0.30	64.16					
Soft to firm orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIAN TILL]		3.80	60.66	1.80	3.00 - 3.80	В		
Dimensions and Orientation:	Orientation:	2. Area o 3. Grour	eer verified cleared for s ndwater was	services s encou	prior to ontered at	excavations 1.8 m bgl o	luring exca	vation.
Width = 0.70 m	Inclination:	4. No vis 5. Hole t	idwater was sual or olfac terminated a backfilled w	ctory evi at 3.8 m	dence of due to ir	contaminat	ion was en	countered.
Coordinates: Elevation (mAOD): E373749.36 N436545.56 64.46 E	cavated By: Clive Hurt Limited	Plant Use	JCB 3C	x				oroved: Scale: RJS 1:30

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID: TP126			Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe l	Road,	Whalle	èy		1
Trial Pit Log		Date:	10/07/	2018		Client:	Traf Trus	ford Ho st	using
		Strata	Reduced	Water	Samp	le Details		Test De	tails
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Dep (m		esults
TOPSOIL: Grey brown slightly gravelly silty sandy CLAY w numerous fine rootlets. Sand is fine to medium. Gravel is subangular to subrounded fine quartzite and sandstone. [DEVENSIAN TILL] Firm to stiff orange brown slightly sandy slightly gravelly to gravelly silty CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse sandstone, siltstone and quartz		0.30	72.05						
Between 2.7 m and 2.8 m: Band of wet grey brown clayey fine to coarse sandstone. [DEVENSIAN TILL] Between 2.7 m and 2.8 m: Band of wet grey brown clayey fine to coarse sandstone. [DEVENSIAN TILL] Between 2.7 m and 2.8 m: Band of wet grey brown clayey fine to coarse sandstone. [DEVENSIAN TILL] Trial pit complete at 2.90 m bgl.	ly		71.65 69.55 69.45	2.60	1.30	Β1			
Dimensions and Orientation:	Orientation:	2. Area 3. Grour	eer verified cleared for s ndwater was	services s encour	prior to ontered at	excavations 2.6 m durii	s. ng exca	vation.	
Width = 0.50 m	Inclination:	5. Hole 1 6. Hole 1	sual or olfac terminated a backfilled w	at 2.9 m	due to ir	nstability of verse order	pit. of exca	vation.	1
Coordinates: Elevation (mAOD): E373866.30 N436522.54 72.35	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x	-		ecked: MB	Approved: RJS	Scale: 1:30

	Head Office nley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP12	27 Page: 1 of
	Lincoln, LN6 3QR el: +44 (0) 1522 882555 ail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	ey.	
Trial Pit Log		Date:	13/07/	2018		Client:	Traffo Trust	ord Housing
		Strata	Reduced	Water	Samp	le Details	-	Test Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike	Depth (m)	Type Re	Depth (m)	Results
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		- - 0.30	66.39		0.00	P		
Firm orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIAN TILL]		<u>2.00</u>	64.69	1.20	0.30 - 0.60	В		
Trial pit complete at 3.90 m bgl. Dimensions and Orientation: Length = 4.50 m	Orientation:	2. Area 3. Grour	eer verified cleared for ndwater wa	services s encou	prior to entered at	excavations 1.2 m bgl c	Iuring exca	avation.
Width = 0.70 m	Inclination:	5. Hole	sual or olfac terminated backfilled w	at 3.9 m	due to ir	istability.		ncountered. tion.
Elevation (mAOD): Ex E373775.31 N436567.62 66.69	cavated By: Clive Hurt Limited	Plant Use	JCB 3C			-		proved: Scale: RJS 1:3

3	Head Office Henley Way, Doddington Road	Project N	^{o:} 18-08	86.0	3	Hole ID:	TP128	B Page: 1 of f
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalley	/	
Trial Pit Log		Date:	09/07/	2018		Client:	Traffor Trust	d Housing
		Strata	Reduced	Water	Samp	le Details	Те	est Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey SAND. Sand is fine to coarse. At 0.2 m: Becomes orangish brown. Firm to stiff brownish grey slightly silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse.		0.40	71.40	_				
subangular to subrounded mudstone and sandstone. [DEVENSIAN TILL]								
					1.20 - 1.30	B 1	1.20	HV=128 kPa HV=75 kPa
					2.20 - 2.30	В 2	2.20	HV=96 kPa
					2.30			
				3.10				
Trial pit complete at 3.60 m bgl.		3.60	68.20	-				
		- - - -						
		- - - -						
		-						
Dimensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	2. Area 3. Grour 4. No vis 5. Hole	eer verified cleared for ndwater was sual or olfac terminated	services s encou ctory evi at 3.6 m	prior to ntered at dence of due to ir	al accordanc excavations. 3.1 m bgl du contaminatio istability. rerse order o	ring exca on was en	vation. countered.
Coordinates: Elevation (mAOD): E373833.35 N436598.33 71.81	Excavated By: Clive Hurt Limited	Plant Use	ed: JCB 30	cx		iged: Chec MB F		roved: Scale: RJS 1:30

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP12	29	Page: 1 of 1	
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	у			
Trial Pit Log		Date:	09/07/	2018		Client:	Traffo Trust	ord Ho	using	
		Strata	Reduced	Water	Samp	le Details		Test Det	tails	
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	ר R	esults	
TOPSOIL: Grass over brown clayey SAND. Sand is fine to coarse. [At 0.3 m: Becomes orangish brown. Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL] Greyish brown sandy gravelly CLAY. Sand is fine to coarse Gravel is fine to coarse subangular to subrounded mudsto and sandstone. Frequent cobbles throughout. [DEVENSIA] TILL] Between 1.3 m and 1.4 m: Band of fine to medium brown SAND Trial pit complete at 2.60 m bgl.	e. NN	(m)	(mAOD) 69.17 68.57 66.97	(m)	(m) 1.00 - 2.60	Type Ref			esults	
Dimensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	2. Area 3. Groun 4. No vis 5. Hole	eer verified cleared for s ndwater was sual or olfac terminated a	services s encou ctory evi at 2.6 m	prior to ntered at dence of due to ir		g excava on was e	ation. encounte		
Coordinates: Elevation (mAOD): E373770.31 N436630.94 69.57	Excavated By: Clive Hurt Limited	6. Hole backfilled with arisings in reverse order of excavation. Plant Used: Logged: Checked: Approved: Scal d JCB 3CX RR MB RJS 1								

		Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03		Hole ID:	TP	130	Page: 1 of 1
deltasim Environment - Health & Safety - Sus		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe R	Road,	Whall	ey		
	Trial Pit Log		Date:	10/07/	2018		Client:	Trat Tru	ford Ho st	using
			Strata	Reduced		Samp	le Details	5	Test De	tails
Description of \$		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type R	ef Dep (m		Results
TOPSOIL: Grass over brown clayey coarse.	SAND. Sand is fine to		0.30	69.95						
Firm orange brown becoming dark gi gravelly CLAY with several subangul sandstone and quartzite. Sand is fine angular to subrounded fine to coarse sandstone and quartzite. [DEVENSI/ Wet very stiff dark grey silty very san fine to medium. Gravel is angular to natural lithologies. Occasional cobble rounded sandstone and quartzite. [D Trial pit complete at 3	ar to rounded cobbles a to medium. Gravel is a siltstone, mudstone, AN TILL] ady gravelly CLAY. San rounded fine to coarse es of subangular to EVENSIAN TILL]	s X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	2.90	67.35		2.00	B 1	2.5	ю н v	∕=67 kPa
Dimensions and Orientation:	Length = 5.00 m	Orientation:		eer verified					S 5930:20	15.
Width = 0.70 m		Inclination:	2. Area o 3. Grour 4. No vis 5. Hole t 6. Hole I	cleared for s ndwater was sual or olfac erminated a backfilled w	services p s not enc ctory evid at 3.5 m c	prior to e ountered lence of due to in gs in rev	excavation d during o contamin stability. rerse orde	ns. excavatio ation was	on. s encounte vation.	ered.
Coordinates: E373898.98 N436396.15	Elevation (mAOD): 70.25	Excavated By: Clive Hurt Limited	Plant Use	JCB 30	x		ged: C	hecked: MB	Approved: RJS	Scale: 1:30

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP131	Page: 1 of r
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	у	
Trial Pit Log		Date:	09/07/	2018		Client:	Traffor Trust	d Housing
Description of Strata	Legend	Strata Depth	Reduced Level	Strike	Samp Depth	ole Details	Danth	est Details
TOPSOIL: Grass over brown clayey SAND. Sand is fine	to	(m)	(mAOD)	(m)	(m)	Type Ref	(m)	Results
coarse.		0.40	67.68					
Orange sandy CLAY. Sand is fine to coarse. [DEVENSIA TILL]	N	 	67.38					
Firm brown slightly sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]							0.80	HV=48 kPa
t 2.0 m: Soft.				2.00	2.00 - 2.50	B 1	2.00	HV=17 kPa
		2.90	65.18					
Trial pit complete at 2.90 m bgl.			05.10	_				
		-						
		-						
		-						
		-						
		_						
		-						
		-						
		_						
		_						
		-						
		- -						
Dimensions and Orientation: Length = 4.80 m	Orientation:	2. Area 3. Grou 4. No vi	leer verified cleared for s ndwater was	services s encou ctory evi	prior to ntered at dence of	al accordance excavations 2.0 m durin contaminat	g excavatio	on.
Width = 0.70 m	noniauon.	6. Hole	backfilled w	rith arisir	ngs in rev	verse order o	of excavation	on.
Coordinates: Elevation (mAOD):	Excavated By:	Plant Use	ad.			ged: Che		roved: Scale:

3	Head Office Henley Way, Doddington Road	Project N	^{o:} 18-08	86.0	3	Hole ID:	TP13	2 Page: 1 of <i>r</i>
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle		
Trial Pit Log		Date:	09/07/	/2018		Client:	Traffor Trust	rd Housing
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Strike	Depth	ole Details Type Ref	Depth	est Details Results
TOPSOIL: Grass over brown clayey SAND. Sand is fine to coarse.		-		(,	(m)		(m)	
Stiff brownish grey slightly sandy slightly gravelly CLAY. San is fine to medium. Gravel is fine to coarse subrounded sandstone and mudstone. [DEVENSIAN TILL]	Id	0.40	71.88	1.20	0.60 - 0.70	В 1	0.60	HV=7140 kP
							1.50	HV=102 kPa
etween 3.5 m and 3.6 m: Becomes wet and recovered as clayey andy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse		3.60	68.68					
ib ^a ngular to subrounded mudstone, shale and sandstone. <u>EVENSIAN TILL]</u> Trial pit complete at 3.60 m bgl.								
Dimensions and Orientation: Length = 4.50 m	Orientation:	2. Area 6 3. Grour 4. No vis 5. Hole 1	eer verified cleared for ndwater wa sual or olfac terminated	services s encou ctory ev at 3.6 m	s prior to intered at idence of i due to ir	al accordance excavations. 1.2 m bgl du contaminationstability. verse order c	uring exca on was en	vation. countered.
Elevation (mAOD): E373832.66 N436627.13 72.28	Excavated By: Clive Hurt Limited	Plant Use	ed: JCB 30	cx				proved: Scale: RJS 1:3

		Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03		Hole ID	TP	133	Page: 1 of 1
deltasime Environment - Health & Safety - Sust	ons	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe R	Road,	Whal	ley		
1	Frial Pit Log		Date:	13/07/	2018		Client:	Tra Tru		lousing
			Strata	Reduced		Samp	le Detail	s	Test	Details
Description of S		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type F		pth n)	Results
TOPSOIL: Brown sandy CLAY. Sand Orangish brown sandy CLAY. Sand is [DEVENSIAN TILL]			0.20	70.93						
Firm to stiff brown slightly silty sandy fine to coarse. Gravel is subrounded t coarse of natural lithologies. [DEVEN	to subangular fine to	IS	2.50	68.63		1.90	В	1. 1. 1.	90 1	IV=103 kPa IV=86 kPa IV=89 kPa
Firm grey slightly silty gravelly CLAY. fine to coarse of natural lithologies. For rounded cobbles and boulders of muc TILL] Trial pit complete at 2.	requent subrounded t dstone. [DEVENSIAN		2.90	68.23		2.50 - 2.90	В			
Dimensions and Orientation: Width = 0.70 m	Length = 4.60 m	Orientation:	2. Area 3. Groun 4. No vis 5. Hole	eer verified cleared for s ndwater was sual or olfac terminated a backfilled w	services p s not enco story evid- at 2.9 m c	prior to e ountere ence of due to ir	excavatio d bgl duri contamir istability.	ns. ng excav nation wa	vation. Is encoul	
Coordinates: E373872.17 N436496.48	Elevation (mAOD): 71.13	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		iged: C MB	hecked:	Approve RJS	

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	Hole ID:	34 ^{Page:} 1 of					
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	l, Whalley					
Trial Pit Log		Date:	09/07/	2018		Client:	Traffo Trust	ord Housing			
		Strata	Reduced		Samp	le Details		Test Details			
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Depth (m)	Results			
TOPSOIL: Grass over brown clayey SAND. Sand is fine t coarse.		0.30	69.35								
Very stiff grey mottled light grey gravelly CLAY. Gravel is subrounded fine to coarse sandstone and mudstone. [DEVENSIAN TILL]											
					0.70 -	B 1					
		4			0.80						
		-									
		-									
		+									
		1									
		+-									
		-									
		+									
				2.00							
2.0 m: Occasional lenses of fine to medium sand.		-									
		1									
		-									
		-									
		-									
		1									
		<u>+</u>									
		-									
		+									
		-									
		1									
		-									
		-									
		4.00	65.65								
Trial pit complete at 4.00 m bgl.		_									
		_									
		-									
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		-									
		Ē									
		\vdash									
		È									
		-									
		-									
		F									
		-									
Dimensions and Orientation:		Remarks									
	Orientation:	1. Engin	leer verified cleared for	logged	in gener	al accordar	ce to BS	5930:2015.			
		3. Grou	ndwater was	s encou	ntered at	2.0 m bgl o	luring exc	avation.			
	Inclination:	 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 4.0 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation. 									
	Excavated By:		ed:								

		Head Office 3 Henley Way, Doddington Road	Project N	^{°:} 18-08	86.0	3	Hole ID:	TP13	5 Page: 1 of 1
deltasim Environment - Health & Safety - Susta		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	ey	
Т	rial Pit Log		Date:	09/07/	2018		Client:	Traffor Trust	d Housing
			Strata	Reduced			ole Details	Т	est Details
Description of S		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Depth (m)	Results
TOPSOIL: Grass over brown clayey S	AND.								
At 0.3 m: Becomes orangish brown.			0.50	74.74					
Firm brown slightly sandy CLAY. Sand	t is fine to medium.		0.00	14.14	-			0.50	HV=75 kPa
[DEVENSIAN TILL]									
				70.04					
Stiff dark grey CLAY with occasional fi DEVENSIAN TILL]	ine partings of sand.		2.60	72.64	_			2.60	HV=97 kPa
]						
At 3.0 m: Firm.			-			3.00 - 3.10	B 1	3.00	HV=72 kPa
			<u>+</u>						
			- -						
Trial pit complete at 3.6	60 m bal.		3.60	71.64				3.60	HV=60 kPa
	oog		_						
			-						
			-						
			L						
			Ē						
			-						
			_						
			-						
			_						
			-						
			_						
			-						
			_						
			-						
Dimensions and Orientation:	Length = 4.40 m	Orientation:	Remarks 1. Engin	eer verified	logged	in gener	al accordan	ce to BS 59)30:2015. 2. Area
Width = 0.70 m		Inclination:	encount contami	ered during nation was	excava encoun	tion. 4. N tered. 5.	lo visual or Hole termin	olfactory ev ated at 3.6	vidence of
Coordinates: E373881.46 N436593.54	Elevation (mAOD): 75.24	Excavated By: Clive Hurt Limited	Plant Use	JCB 30	:x				roved: Scale: RJS 1:30
E313001.40 N430333.34	/ 3.24			JOD 30	~			1.30	

	Head Office enley Way, Doddington Road Lincoln, LN6 3QR	Project N	° [:] 18-08	86.03	3	Hole ID:	TP136	Page: 1 of 1
	Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	/	
Trial Pit Log		Date:	09/07/	2018		Client:	Traffor Trust	d Housing
		Strata	Reduced		Samp	le Details	Te	est Details
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly clayey fine to medium SAND.		0.60	79.66					
Orange slightly sandy CLAY. Sand is fine to medium. [DEVENSIAN TILL]		0.80	79.46					
Grey clayey very sitly very sandy subangular to rounded fine to coarse GRAVEL of sandstone and mudstone with frequent thin bands of soft clay. [DEVENSIAN TILL]			/9.40		1.10 - 1.20	B 1	1.00	HV=30 kPa
Trial pit complete at 3.30 m bgl.		- 3.30	76.96	2.60	2.50 - 2.60	В 2	2.60	HV=25 kPa
, ··		- -						
Dimensions and Orientation: Length = 3.40 m	Orientation:	cleared t at 2.6 m contamin	eer verified for services bgl during nation was y of pit. 6. H	prior to excavat encoun	excavat ion. 4. No tered. 5.	al accordanc ions. 3. Grou o visual or ol Hole termina th arisings in	ndwater w factory evid ted at 3.3	m due to
Coordinates: Elevation (mAOD): E: E373935.51 N436600.55 80.26 E:	xcavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		gged: Chec MB F		roved: Scale: RJS 1:30

3 Не	Head Office enley Way, Doddington Road	Project N	^{o:} 18-08	86.0	3	Hole ID: TP137				
	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle				
Trial Pit Log		Date:	09/07/	2018		Client:	Trafford Housin Trust			
		Strata	Reduced	Water	Samp	le Details	Те	est Details		
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ref	Depth (m)	Results		
TOPSOIL: Grass over brown slightly clayey SAND.		-								
At 0.25 m: Becomes orangish brown.		0.40	81.86							
Stiff orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium subangular to subrounded mudstone and sandstone. Occasional sandstone cobbles. [DEVENSIAN TILL]		 	81.56				0.50	HV=131 kPa		
Soft dark brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded mudstone. [DEVENSIAN TILL]					0.90 - 1.00	В 1				
		 	80.06							
Dark grey and black clayey angular fine to coarse GRAVEL of mudstone. [DEVENSIAN TILL]		2.30	79.96							
Dimensions and Orientation: Length = 4.50 m	Orientation:	cleared encount contami	eer verified for services ered during nation was	eprior to excava encoun	excavati tion. 4. N tered. 5. I	ons. 3. Grou o visual or o Hole termina	ndwater w lfactory ev ted at 2.3	vidence of		
Coordinates: Elevation (mAOD): Ex E373961.40 N436580.60 82.26 52	cavated By: Clive Hurt Limited	Plant Use	JCB 30	x		iged: Chec MB F		roved: Scale: RJS 1:30		

		Head Office enley Way, Doddington Road	Project N	^{o:} 18-08	86.0	3	Hole ID:	TP13	8	Page: 1 of 1
deltasime Environment - Health & Safety - Sust		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	eroe	Road,	l, Whalley			
1	Frial Pit Log		Date:	10/07/	2018		Client:	Trafford Housing Trust		
			Strata	Reduced		Samp	le Details	Т	est De	tails
Description of S		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Ret	Depth (m)	R	esults
TOPSOIL: Grass over grey brown slig CLAY with numerous rootlets. Gravel	is subangular to		- 0.15	78.40						
subrounded fine to medium quartzite, mudstone.										
Grey clayey gravelly SAND. Gravel is subangular to subrounded of sandsto	s fine to medium ne, quartzite and		0.50	78.05	_					
mudstone. [SUB-SOIL] Firm orange brown slightly sandy slig Sand is fine to medium. Gravel is ang sandstone and mudstone. [DEVENSI	ular to subrounded		┯ ╱┍┈╎╱┍╵╷╱┍			0.70 - 0.80	B 1			
Firm to atiff about your appointed area	na hanna aliabht aithr		1.80	76.75	-			1.70	нv	=91 kPa
Firm to stiff dark grey occasional orar sandy gravelly friable CLAY. Gravel is mudstone, quartzite and sandstone. [angular to subrounded					2.30 - 2.40	В 2			
Trial pit complete at 2.	70 m bgl.		<u>2.70</u>	75.85	_					
Dimensions and Orientation: Width = 0.70 m	Length = 4.50 m	Orientation:	cleared encount contami	eer verified for services ered during nation was	excava encoun	excavat ition. 4. N tered. 5.	al accordan ions. 3. Gro lo visual or Hole termin ings in reve	undwater v olfactory ev ated at 2.7	vas not vidence m due	e of to
Coordinates:		xcavated By:	Plant Use						proved:	Scale:
E373931.28 N436530.33	78.55	Clive Hurt Limited		JCB 30	X		RR	MB I	RJS	1:3

	Head Office B Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03	3	Hole ID:	TP139	Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	/	
Trial Pit Log		Date:	10/07/	2018		Client:	Traffor Trust	d Housing
Description of Strata	Legend	Strata Depth	Reduced Level	Water Strike	-	le Details		st Details
		(m)	(mAOD)	(m)	Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over greyish brown slightly slity slightly gravelly CLAY with numerous rootlets. Gravel is subangular subrounded fine to medium quartzite, sandstone and mudstone. [DEVENSIAN TILL] Soft to firm orange brown slightly slity gravelly friable CLAY. Sand is fine. Gravel is angular to subrounded fine to coarse mudstone and sandstone. Occasional cobbles of subround.		0.25	79.50	-	0.50 -	В 1		
to rounded sandstone. [DEVENSIAN TILL]		1.00	78.75	-	0.60		1.00	HV=43 kPa
sandy silty gravelly friable CLAY. Sand is fine. Gravel is angular to subrounded fine to coarse Mudstone and Sandstone, Numerous subangular to rounded cobbles of Mudstone and Sandstone.					1.50 - 1.60	B 2		
					1.00			
Stiff dark grey slightly silty gravelly CLAY with several cobbl and boulders of sandstone, siltstone and mudstone. Gravel		2.20 2.30	77.55 77.45	-				
fine to medium subangular to subrounded quartzite. [DEVENSIAN TILL] Dark grey clayey GRAVEL with several boulders of sandsto		2.50	77.25	-				
Trial pit complete at 2.50 m bgl.								
Dimensions and Orientation: Length = 3.50 m Width = 0.60 m	Orientation:	cleared encount contami	eer verified for services ered during nation was	prior to excava encount	excavat tion. 4. N ered. 5.	ions. 3. Grou lo visual or o Hole termina	ndwater w lfactory ev ted at 2.5	idence of
Coordinates: Elevation (mAOD): E373954.78 N436507.89 79.75	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	×		gged: Chec RR N		roved: Scale: 2JS 1:30

	3 Henle	Head Office ey Way, Doddington Road	Project No: 18-0886.03				Hole ID:	TP1	40	Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainability	Tel:	Lincoln, LN6 3QR : +44 (0) 1522 882555 : info@deltasimons.com	Project:	Clithe	eroe l	Road,	Whall	еу		I
Trial Pit Log			Date:	10/07/	2018		Client:	Traff Trus	ord Ho t	using
Description of Strata		Legend	Strata Depth	Reduced Level	Water Strike	-	le Details		Test De	tails
	<u> </u>		(m)	(mAOD)	(m)	Depth (m)	Type R	ef Dept (m)		lesults
TOPSOIL: Grass over grey silty slightly gravelly clayey medium SAND. Gravel is angular to rounded fine to me quartzite and sandstone. Numerous rootlets throughout	dium		0.30	74.80						
Firm orange brown becoming brown with depth slightly silty gravelly friable CLAY. Sand is fine to medium. Grav angular to subangular fine to coarse sandstone, quartzi siltstone. [DEVENSIAN TILL]	/el is			14.00		0.90 - 1.00	В 1	1.30	HV	′=62 kPa
Soft to firm grey and dark brown friable sandy silty CLA several subangular to rounded fine to coarse cobbles o quartzite, sandstone and siltstone. [DEVENSIAN TILL]				73.40		1.80	В 2	1.80	HV	′=38 kPa
Very stiff dark grey silty sandy very gravelly CLAY. Grav angular to subangular fine to coarse grey sandstone. S		X X	2.90 3.10	72.20	-					
fine to medium. [DEVENSIAN TILL] Trial pit complete at 3.10 m bgl.										
Dimensions and Orientation: Length = 4.60 m Width = 0.70 m		Orientation:	2. Area o 3. Grour 4. No vis 5. Hole t	eer verified cleared for s adwater was sual or olfac erminated a packfilled w	services s not en tory evi- at 3.1 m	prior to countere dence of due to ir	excavatior d during e contamin nstability o	is. xcavation ation was f pit.	encounte	
Coordinates: Elevation (mAOD): E373918.61 N436477.00 75.10		vated By: Clive Hurt Limited								Scale: 1:30

	Head Office 3 Henley Way, Doddington Road	Project N	^{o:} 18-08	86.03		Hole ID	тр	141	Page: 1 of 1		
deltasimons Environment - Health & Safety - Sustainability	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe R	load,	Whal	ley				
Trial Pit Log		Date:	13/07/:	2018		Client:	Tra Tru	fford H	ousing		
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Chrilton	Samp Depth (m)	le Detail	Def De	Test D pth n)	etails Results		
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		0.30			(11)						
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		0.80									
Orangish brown sandy gravelly CLAY. Sand is fine to coars Gravel is subrounded to subangular fine to coarse of natura lithologies. Frequent subrounded to rounded cobbles of mudstone and sandstone. [DEVENSIAN TILL]	e										
Stiff grey sandy gravelly CLAY. Sand is fine to coarse. Gra is subrounded to subangular fine to coarse of natural lithologies. Frequent rounded cobbles of mudstone. [DEVENSIAN TILL]	vel				2.70 -	В					
Trial pit complete at 2.80 m bgl.	2. Sector Sciences Print Sciences Sciences Print Sciences Print Print Sciences Print Print Print Print Print Print Print Print Print Pr	2.80			2.70 - 2.80	В					
Dimensions and Orientation: Length = 4.50 m Width = 0.70 m	Orientation:	 Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.8 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation. 									
Coordinates: Elevation (mAOD):	Excavated By: Clive Hurt Limited	Plant Use	d: JCB 3C	x		iged: C MB	hecked: RR	Approved RJS	: Scale: 1:30		

	Project N	^{o:} 18-08	3	Hole ID: TP142			Page: 1 of 1		
deltasimons Environment - Health & Safety - Sustainability	3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe	Road,	Whalle	əy		
Trial Pit Log		Date:	13/07/	2018		Client:	Traffo Trust	rd Ho	using
		Strata	Reduced		Samp	le Details	-	Fest Det	ails
Description of Strata	Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Type Re	f Depth (m)	R	esults
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		- 0.25							
Grey clayey sandy subrounded to rounded fine to coarse GRAVEL of natural lithologies with frequent bands of firm stiff clay. Sand is fine to coarse. Frequent subrounded to rounded cobbles of mudstone and sandstone. [DEVENSI TILL] Stiff brownish grey CLAY with roots.Very dry breaking up fragments at top and becomes maleable at 0.9m bgl.At 0 bgl becomes slightly sandy and slightly gravelly. Sand is to coarse. Gravel is sunrounded fine to coarse of natural lithologies. Trial pit complete at 3.00 m bgl.	to AN	2.50		2.50	1.70 2.50 - 3.00	В	1.70 1.70 1.70 1.70	HV= HV: HV:	:103 kPa 122 kPa =70 kPa =89 kPa =97 kPa
Dimensions and Orientation: Length = 4.30 m Width = 0.70 m	Orientation:	2. Area 3. Groun 4. No vis 5. Hole	eer verified cleared for s ndwater was sual or olfac terminated a backfilled w	services s encou ctory evi at 3.0 m	prior to ntered at dence of due to ir	excavation 2.5 m duri contamina stability.	s. ng excavat tion was e	ion. ncounter	
Coordinates: Elevation (mAOD):	Excavated By: Clive Hurt Limited	Plant Use	JCB 3C	x		gged: Ch		proved: RJS	Scale: 1:30

ЗН	Head Office enley Way, Doddington Road	Project N	^{o:} 18-088		Hole ID:	TP1	43	Page: 1 of 1		
deltasimons	Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 nail: info@deltasimons.com	Project:	Clithe	roe F	Road,	Whalle	у			
Trial Pit Log		Date:	13/07/2	Trust Test Details Sample Details Test Details Depth (m) Type Ref Depth (m) Results Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image: Sample Details Image:					using	
Description of Strata	Legend	Strata Depth						le Details	B 1 1 of Units of Uni	tails
		(m)	Level (mAOD)		Depth (m)	Type Ref			esults	
TOPSOIL: Grass over brown sandy CLAY. Sand is fine to coarse.		0.30								
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]										
Firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to rounded sandstone an mudstone. [DEVENSIAN TILL]	 A second sec second second sec	0.60								
		2.20			2 20	B 1				
Soft to firm grey gravelly CLAY. Gravel is fine to coarse subrounded to rounded sandstone and mudstone. Frequent rounded to subrounded mudstone cobbles. [DEVENSIAN TILL]					3.00					
Trial pit complete at 3.00 m bgl.		3.00								
		- - -								
		- - - -								
		- - -								
		-								
		_ _ _								
		 - -								
Dimensions and Orientation: Length = 4.60 m Width = 0.70 m	Orientation:	2. Area 3. Grour 4. No vis 5. Hole t	eer verified l cleared for s ndwater was sual or olfact terminated a	ervices not enc ory evic t 3.0 m	prior to e counteree lence of due to in	excavations d during exo contaminat istability.	cavation ion was	encounte		
Coordinates: Elevation (mAOD): E	xcavated By: Clive Hurt Limited	Plant Use	d: JCB 3C	x			cked: /	Approved: RJS	Scale: 1:30	

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD AINLEYS INDUSTRIAL ESTATE ELLAND WEST YORKSHIRE HX5 9JP

Instrumented Rod Data

Diameter d _r (mm):	54
Wall Thickness tr (mm):	6.3
Assumed Modulus E _a (GPa):	200
Accelerometer No.1:	7080
Accelerometer No.2:	11609

SPT Hammer Ref:	DART239
Test Date:	21/06/2018
Report Date:	21/06/2018
File Name:	DART239.spt
Test Operator:	BH

SPT Hammer Information

Hammer Mass	m (kg):	63.5
Falling Height	h (mm):	760
SPT String Leng	gth L (m):	10.0

Comments / Location

3.5

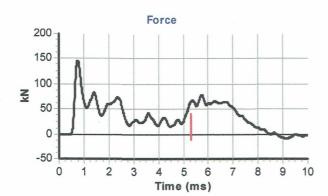
3

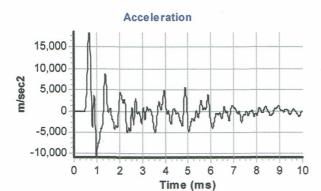
2.5

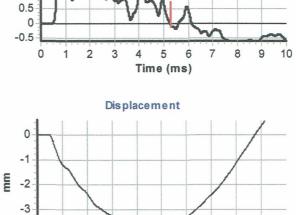
1.5

1

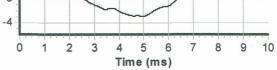
m/sec







Velocity



Calculations

Area of Rod A (mm2):944Theoretical Energy E
theor(J):473Measured Energy E
meas(J):290

Energy Ratio E_r (%):

61

The recommended calibration interval is 12 months

Signed: M.GARDNER Title: FITTER

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Appendix C – Geotechnical Analysis Results



Environment | Health & Safety | Sustainability



Delta-Simons

Barclay House

Rachel Stringer

Not Given

35 Whitworth Street West

Clitheroe Road, Whalley

Manchester, M1 5NG

Suite GB

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 11/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

Client:

Contact:

Site Name:

Site Address:

Client Address:

Laboratory Reference:1006188Hole No.:TP102Sample Reference:Not GivenSoil Description:Dark brown gravelly clayey SANDSample Preparation:Tested after washing to remove >425um

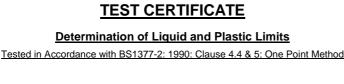
Depth Top [m]: 0.26 Depth Base [m]: Not Given Sample Type: B

s Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µn BS Test Sieve			
16	34	NP	NP	43			
100							
90				A line			
80							
70			CE				
60							
0 50		cv	ME				
		СН					
		MV					
2 0	СІ						
10	CL	MH					
•••••	MI MI						
0 + +	20 30 40 50	60 70 80 9 LIQUID LIMIT	0 100 110 120	130 140 150			
	Legend, based on BS 5930:2015						
	C Clay	Plasticity L Low	Liquid Limit below 35				
	M Silt	I Medium	35 to 50				
		H High V Very high	50 to 70 70 to 90				
		E Extremely high	exceeding 90				
	Organic	O append to classification for	or organic material (eg CHO)				
emarks: NP – non plas	tic						
proved:		Sign	ed:				

Dariusz Piotrowski PL Laboratory Manager Date Reported: 02/08

•••
02/08/2018

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Delta-Simons

Barclay House

Rachel Stringer

Not Given

35 Whitworth Street West

Clitheroe Road, Whalley

Manchester, M1 5NG

Suite GB

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 12/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

Client:

Contact:

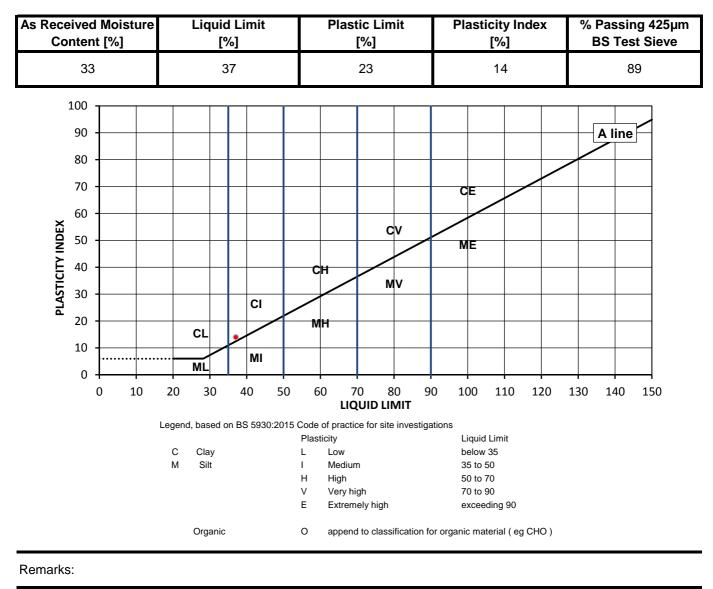
Site Name:

Site Address:

Client Address:

Laboratory Reference:1006192Hole No.:TP108Sample Reference:Not GivenSoil Description:Yellowish brown slightly gravelly slightly silty clayey SANDSample Preparation:Tested after >425um removed by hand

Depth Top [m]: 1.20 Depth Base [m]: Not Given Sample Type: B



Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

02/08/2018

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Darren Berrill Geotechnical General Manager

for and on behalf of i2 Analytical Ltd



Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



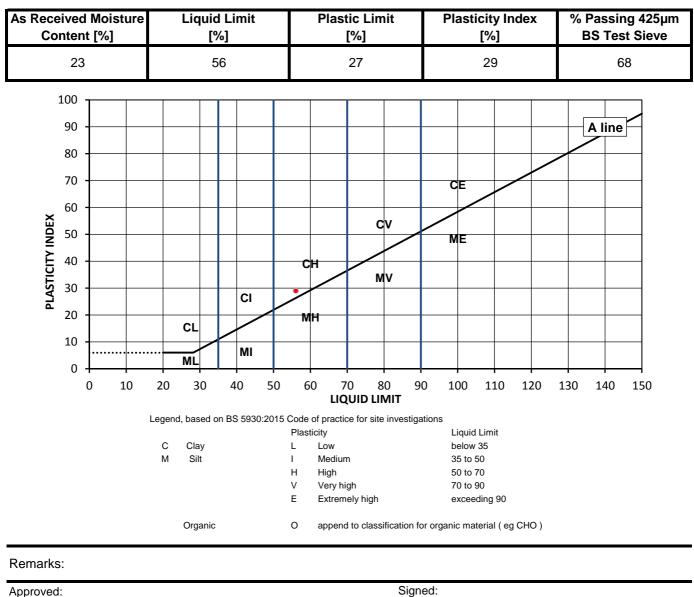
Client:	Delta-Simons
Client Address:	Suite GB
	Barclay House
	35 Whitworth Street West
	Manchester, M1 5NG
Contact:	Rachel Stringer
Site Name:	Clitheroe Road, Whalley
Site Address:	Not Given

Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 11/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

1006193 Laboratory Reference: TP109 Hole No .: Sample Reference: Not Given Soil Description: Yellowish brown slightly gravelly slightly sandy CLAY Sample Preparation: Tested after washing to remove >425um

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Dariusz Piotrowski PL Laboratory Manager Date Reported:

02/08/2018

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Signed:

Darren Berrill Geotechnical General Manager



Client Address:

Client:

Contact:

Site Name:

Site Address:

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

Watford Herts WD18 8YS

Croxley Green Business Park

Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 12/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

i2 Analytical Ltd

7 Woodshots Meadow

Depth Top [m]: 0.80 Depth Base [m]: Not Given Sample Type: B

Test Results	
Laboratory Reference:	1006194
Hole No.:	TP113
Sample Reference:	Not Given
Soil Description:	Yellowish brown sandy CLAY
Sample Preparation:	Tested in natural condition

Delta-Simons

Barclay House

Rachel Stringer

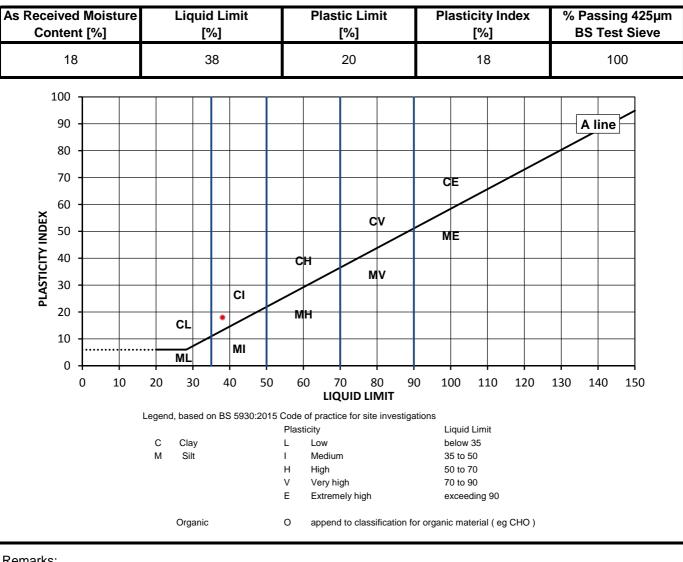
Not Given

35 Whitworth Street West

Clitheroe Road, Whalley

Manchester, M1 5NG

Suite GB



Remarks:

Approved:

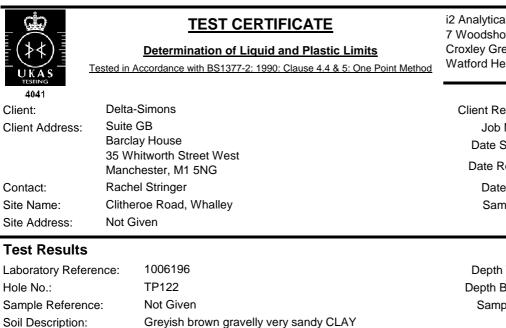
Dariusz Piotrowski PL Laboratory Manager Date Reported:

02/08/2018

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Signed:

Darren Berrill Geotechnical General Manager



Tested after washing to remove >425um

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 12/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Depth Top [m]: 3.00 Depth Base [m]: Not Given Sample Type: B

As Received MoistureLiquid LimitPlastic LimitPlasticity IndContent [%][%][%]	lex % Passing 425µm BS Test Sieve
9.2 29 16 13	58
100 90 90 80 70 0 60 0 50 0 40 0 30 Cl 20 Cl ML MI	A line

Legend, based on BS 5930:2015 Code of practice for site investigations

60

50

Plasticity L Low Т Medium

70

н High V Very high Е

Extremely high

80

LIQUID LIMIT

0 append to classification for organic material (eg CHO)

90

100

Liquid Limit

below 35

35 to 50

50 to 70

70 to 90

exceeding 90

110

120

130

140

150

Remarks:

Client:

Contact:

Hole No .:

Sample Preparation:

Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

0 -0

10

20

С

М

30

Clay

Silt

Organic

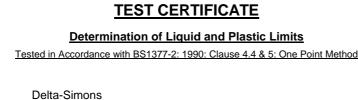
40

02/08/2018

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Signed:

Darren Berrill Geotechnical General Manager



35 Whitworth Street West

Clitheroe Road, Whalley

Manchester, M1 5NG

Suite GB

Barclay House

Rachel Stringer

Not Given

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 12/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

Client:

Contact:

Site Name:

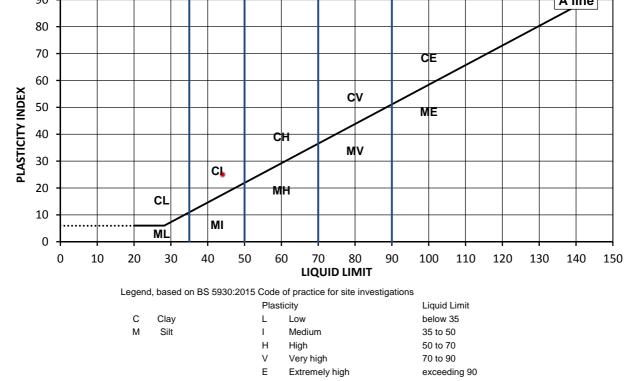
Site Address:

Client Address:

Laboratory Reference:1006197Hole No.:TP123Sample Reference:Not GivenSoil Description:Mottled brown gravelly very sandy SILT and CLAYSample Preparation:Tested after washing to remove >425um

Depth Top [m]: 1.90 Depth Base [m]: Not Given Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve			
27	44	19	25	77		
100						
90 -				A line		
80						



0

append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

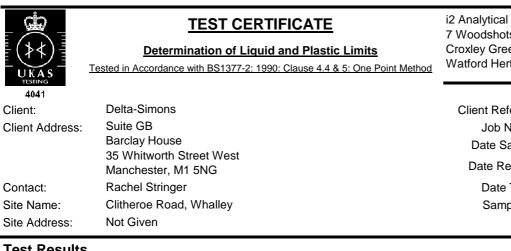
02/08/2018

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Organic

Signed:

Darren Berrill Geotechnical General Manager



i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 10/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

404

Client:

Contact:

1006198 Laboratory Reference: TP124 Hole No .: Sample Reference: Not Given Soil Description: Dark brown slightly gravelly slightly sandy very clayey SILT Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 1.40 Depth Base [m]: Not Given Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve			
27	69	30	39	95			
100 90 80 70 60 50 40 30 20 10 0 0 10	CL CL MI 20 30 40		CE ME 00 100 110 120	95			
		H High V Very high E Extremely high	50 to 70 70 to 90 exceeding 90				
	Organic	O append to classification f	or organic material (eg CHO)				

Remarks:

Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

02/08/2018

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Signed:

Darren Berrill Geotechnical General Manager



Delta-Simons

Barclay House

Rachel Stringer

Not Given

35 Whitworth Street West

Clitheroe Road, Whalley

Manchester, M1 5NG

Suite GB

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 09/04/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

404

Client Address:

Client:

Contact:

Site Name:

Site Address:

Laboratory Reference:1006199Hole No.:TP128Sample Reference:Not GivenSoil Description:Dark brown slightly gravelly slightly sandy very silty CLAYSample Preparation:Tested after >425um removed by hand

Depth Top [m]: 2.20 Depth Base [m]: Not Given Sample Type: B

As Received Moisture Content [%]			ure Liquid Limit [%]					Plastic Limit [%]				Plas	ticity l [%]	ndex	9	% Passing 425µ BS Test Sieve			
	27			58					25				33					93	
	100 -					1		-		-									
	90 -					-				-		_					A lin	e	
	80 -					╞						_							
	70 -												CE		\checkmark				
	60 -					╞								\checkmark					
PLASTICITY INDEX	50 -										cv	\downarrow	ME						
ZI ≻II	40 -								сн		\checkmark								
STIC	30 -									1	мν								
PLA	20 -						CI		мн										
	10 -				CL														
	0 -	•••••	•••••		ML		мі												
		0 1	10	20	30	Z	40	50	60 LI	70 QUID	80 LIMIT	90	100	110	120	130) 140	150	
			I	Legen	d, based	on B	S 5930:	2015 Cod		tice for	site inve	stigatio							
				С	Clay			Pla L	sticity Low				Liqui belo	id Limit					
				м	Silt			I	Medi	um			35 to						
								н	High				50 to						
								V	Very	high			70 to	90					
								E	Extre	mely hi	gh		exce	eding 90					
					Organi	с		0	appe	nd to cl	assificati	on for o	rganic m	aterial (e	g CHO)				

Remarks:

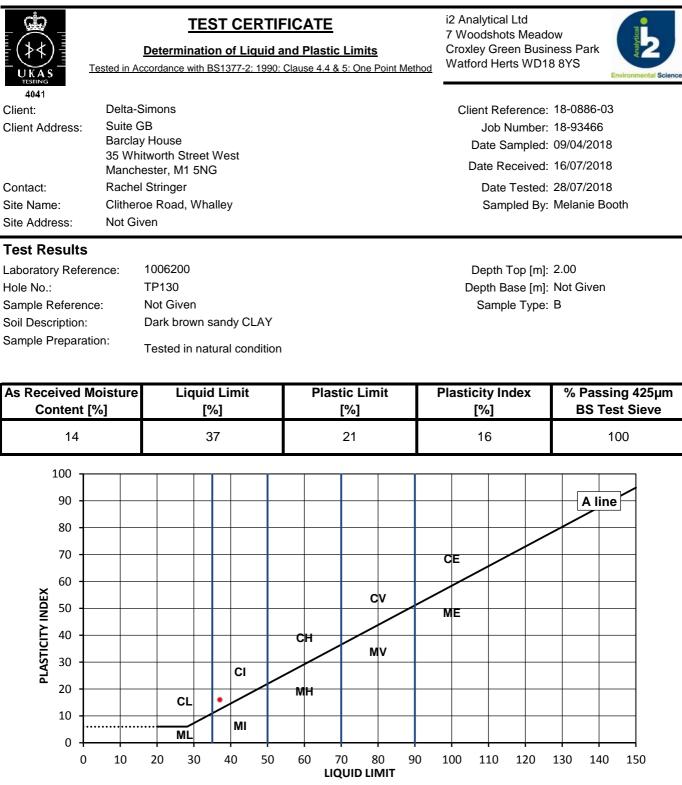
Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

02/08/2018

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Darren Berrill Geotechnical General Manager



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity L Low I Medium

H High V Very high E Extremely high

Organic

Clay

Silt

С

М

O append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

02/08/2018

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Darren Berrill Geotechnical General Manager

Liquid Limit

below 35

35 to 50 50 to 70

70 to 90

exceeding 90





Client:

Contact:

Site Name:

Site Address:

Client Address:

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 09/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test Results

1006202 Laboratory Reference: **TP136** Hole No .: Sample Reference: Not Given Soil Description: Greyish brown clayey very silty SAND and GRAVEL Sample Preparation: Tested after >425um removed by hand

Delta-Simons

Barclay House

Rachel Stringer

Not Given

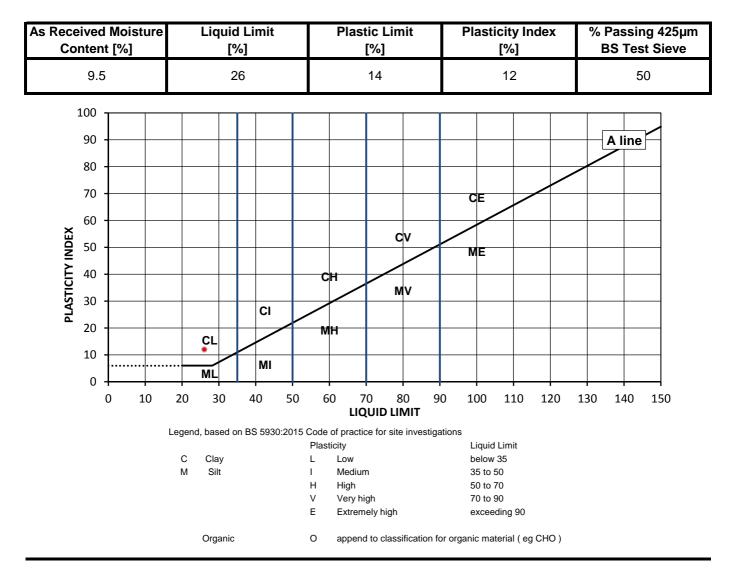
35 Whitworth Street West

Clitheroe Road, Whalley

Manchester, M1 5NG

Suite GB

Depth Top [m]: 2.50 Depth Base [m]: Not Given Sample Type: B



Remarks:

Approved:

Dariusz Piotrowski PL Laboratory Manager Date Reported:

			0	0.
(02	2/08	3/2(018

Signed:

Darren Berrill Geotechnical General Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Summary of Classification Test Results

Client:	Delta-Simons
Client Address:	Suite GB
	Barclay House
	35 Whitworth Street West
	Manchester, M1 5NG
Contact:	Rachel Stringer
Site Name:	Clitheroe Road, Whalley
Site Address:	Not Given

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 09/04 - 12/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test results

			Sar	mple					Atter	berg	-	Der	nsity	Tatal
Laboratory Reference	Hole No.	Reference	Top depth [m]	Base depth [m]	Туре	Soil Description	M/C	% Passing 425um	LL	PL	PI	bulk	PD	Total Porosity
							%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3
1006188	TP102	Not Given	0.26	Not Given	В	Dark brown gravelly clayey SAND	16	43	34	NP	NP			
1006190	TP105	Not Given	3.00	Not Given	В	Dark brown slightly gravelly clayey SAND							2.64	
1006192	TP108	Not Given	1.20	Not Given	В	Yellowish brown slightly gravelly slightly silty clayey SAND	33	89	37	23	14			
1006193	TP109	Not Given	0.50	Not Given	В	Yellowish brown slightly gravelly slightly sandy CLAY	23	68	56	27	29		2.68	
1006194	TP113	Not Given	0.80	Not Given	В	Yellowish brown sandy CLAY	18	100	38	20	18			
1006196	TP122	Not Given	3.00	Not Given	В	Greyish brown gravelly very sandy CLAY	9.2	58	29	16	13		2.69	
1006197	TP123	Not Given	1.90	Not Given	В	Mottled brown gravelly very sandy SILT and CLAY	27	77	44	19	25			
1006198	TP124	Not Given	1.40	Not Given	В	Dark brown slightly gravelly slightly sandy very clayey SILT	27	95	69	30	39			
1006199	TP128	Not Given	2.20	Not Given	В	B Dark brown slightly gravelly slightly sandy very silty CLAY		93	58	25	33			
1006200	TP130	Not Given	2.00	Not Given	В	Dark brown sandy CLAY	14	100	37	21	16			

Comments: NP - Non Plastic

Approved:

Dariusz Piotrowski PL Laboratory Manager Geotechnical Section

02/08/2018 Date Reported:

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Piotuli

Signed:

Darren Berrill



TEST CERTIFICATE

Summary of Classification Test Results

Client:	Delta-Simons
Client Address:	Suite GB
	Barclay House
	35 Whitworth Street West
	Manchester, M1 5NG
Contact:	Rachel Stringer
Site Name:	Clitheroe Road, Whalley
Site Address:	Not Given

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Client Reference: 18-0886-03 Job Number: 18-93466 Date Sampled: 09/07/2018 Date Received: 16/07/2018 Date Tested: 28/07/2018 Sampled By: Melanie Booth

Test results

			Sa	mple		Soil Description			Atte	rberg		Der	nsity	
Laboratory Reference	Hole No.	Reference	Top depth [m]	Base depth [m]	Туре	Soil Description		% Passing 425um	LL %	PL %	PI %	bulk Mg/m3	PD Mg/m3	Total Porosity Mg/m3
1006201	TP132	Not Given	0.60	Not Given	В	Dark brown CLAY		70	70	70	70	Mg/115	2.68	Mg/IIIS
1006202	TP136	Not Given	2.50	Not Given	В	Greyish brown clayey very silty SAND and GRAVEL	9.5	50	26	14	12			
														í

Comments:

Approved:

Dariusz Piotrowski PL Laboratory Manager Geotechnical Section

Date Reported: 02/08/2018

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Piotuli

Signed:

Darren Berrill



Geotechnical General Manager

			TES	ST CERT	IFIC	CATE						7 V	Anal Voo	dsho	ots I	Mea			_			alytical	5	
		Deter	mination	of Partic	cle S	Size	Dist	rib	utic	<u>n</u>			oxley							rk	Er	Wironm	ental	Science
4	041 T	ested in	Accordance w	ith BS1377:F	Part 2:	1990, (clause	s 9.2	and	9.5														
Clie	ent: ent Address	_	Delta-Simons Suite GB									Cli	ent		erer uml									
CIIE	ent Address	•	Barclay House	e									Jc Date											
			5 Whitworth		t								Date		-									
Cor	ntact:		/lanchester, N Rachel String									L			Cerv Fest									
	Name:		Clitheroe Roa														-		-	Boot	h			
	Address:		lot Given																					
TES	ST RESULT	ſS		ry Referen		1006			Park 0		S	Sam	ple	Refe	erer	ice:	Ste	ock	oile	•				
Sar	nple descri	ption:	Clayey S	wn very gra ILT	avelly	slight	iy sar	idy s	siighti	y			Sa	mple	э Ту	vpe:	В							
Loc	ation:	AP01											Dep											
Sup	oplier:	Not Gi	iven									D	epth	n Ba	ise	[m]:	Nc	ot G	ive	n				
	CLAY		SILT	2	- .		AND	-			- .	1		AVEL		_		С	OBBI	LES	В	OULDI	ERS	
	100	Fine	Medium	Coarse	Fine	M	edium		oarse		Fine	•	Me	dium		Coar	rse		•					<u> </u>
	90 -									T			1	-										
	80										\prec					+					\square			
.0	70									-					-	-			-	-				
% ɓu	60					/									_									
assir	50				T																			
ge P				_																				
Percentage Passing	40									$^{+}$									1					
Perc	30														+						\vdash			
	20									╀					_									
	10																							
	0																							
	0.001		0.01		0.1		Par	ticle	1 Size	mm	1		1	0					100)				1000
		Sievi	ng	s	edim	entatic]		/ Mas	ss o	f san	nple	[g]:						1449)		
	Particle S	Size	% Passing	Particle S	Size	%	Passir	ng																
	125		100	0.053	-		54		1		mple			tion	s					0	∕₀ dr		SS	
	90 75		100 100	0.038			52 49		-		ry co avel	arse	;					_				.00 I.70		
	63		100	0.019	8		49		1	Sar											21	.60		
	50 37.5		100 100	0.014			47 47		1	Silt Cla												3.50 5.20		
	28 20		100 97	0.001	5		9		1		adin	a A.	halve	ie				-					_	
	14		93						1	D1(00	y Al	arys				mn	n				28		
	10 6.3		91 87	┨────					4	D60							mn mn	_				145 0431		
	5		84	-					1	D1(0						mn	_			0.0	0153		
	3.35		80 75	┨────					-		iform rvatu	-						+				95 083		
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	0.6	5	69 67	Particle de 2.65		(assu Mg/m]				ind te	sting	in ad	ccord	lanc	e wit	h BS	S1377	7 unle	ss no	ted I	oelow
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	0.15		60	1																				
	0.063	3	54						J															
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Piotuli

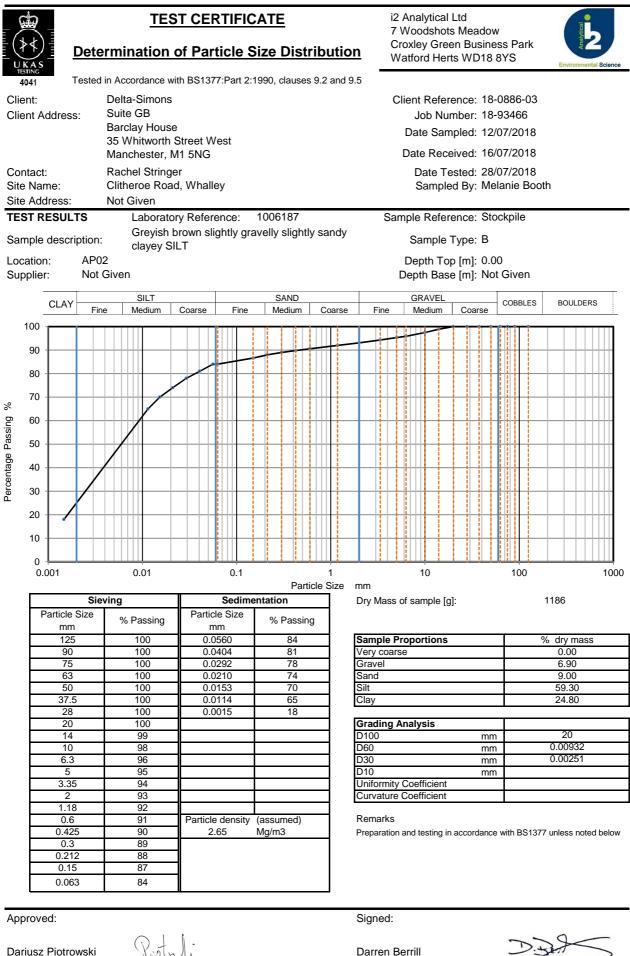
Date Reported:

02/08/2018

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Darren Berrill Geotechnical General Manager

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for and on behalf of i2 Analytical Ltd

Geotechnical General

Manager

		D	eter		ST CER		ATE ize Distributi	
U 4 Clie	KAS ESTING 4041 ent:			ted in Accorda Delta-Simons		1377:Par	t 2:1990, clause 9.2	Client Reference: 18-0886-03
		ddress:	:	Suite GB				Job Number: 18-93466
				Barclay Hous				Date Sampled: 12/07/2018
				35 Whitworth		est		Date Received: 16/07/2018
~				Manchester,				
	ntact: e Nar			Rachel String Clitheroe Roa		v		Date Tested: 28/07/2018 Sampled By: Melanie Booth
		lress:		Not Given		,		Campied By: Molano Booki
_		ESULT			ory Refere	nce: ´	1006189	Sample Reference: Not Given
	-	descrip	-		-		GRAVEL with col	
Ιo	cation	n:	TP10	4				Depth Top [m]: 2.60
	pplier		Not G					Depth Base [m]: Not Given
	-	CLAY	Fine	SILT Medium	Coarse	Fine	SAND Medium Coars	GRAVEL COBBLES BOULDERS
	100 -							
	90 -					<i>/</i> /		
	80 -							
	70 -							
б 8	60 -							
assin								
ge P	50 -							
Percentage Passing	40 -							
Pero	30 -							
	20 ·							
	10 -							
	0 -							
	0.0	001		0.01		0.1	1 Particle Size	10 100 1000 mm
			Siev	ing		Sedimer	ntation	Dry Mass of sample [g]: 13658
	P	article S mm	ize	% Passing	Particle		% Passing	
		125		100				Sample Proportions % dry mass
		90 75		85 79				Very coarse 54.90
	-	63		45				Gravel 26.50 Sand 13.60
		50		45				
		37.5		43				Fines <0.063mm 5.00
		28		40				
		20 14		31 28				Grading Analysis D100 mm 125
	-	14	-+	25				D60 mm 68.1
		6.3		23				D30 mm 18
		5		22				D10 mm 0.386
	<u> </u>	3.35 2		20 19				Uniformity Coefficient 180 Curvature Coefficient 12
	1	1.18		19				
		0.6		14		1		Remarks
				11				Preparation and testing in accordance with BS1377 unless noted below
		0.425						The material submitted - fails to meet the minimum mass requirements
		0.425 0.3		9				
		0.425 0.3 0.212		8				as stated in BS1377 Part 2 Table 3
		0.425 0.3 0.212 0.15		8 7				
		0.425 0.3 0.212		8				



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Page 1 of 1

GF 100.8

Darren Berrill Geotechnical General Manager

			Det	erm	<u>TE:</u> ination	ST CEF				rib	utic	<u>n</u>	7 C	Wc Crox	oods ley	tical shot Gree Her	s M en E	ead 3usi	nes	ss F			Environ	Analytical	Science
Site Address: Not Given TEST RESULTS Laboratory Reference: 1006190 Sample description: Dark brown slightly gravelly clayey SAND Sample Type: B Location: T195 Supplier: Not Given Depth Top (m): 3.00 Depth Top (m): 3.00 Depth Base (m): Not Given Depth Base (m): Not Given Depth Top (m): 3.00 Depth Base (m): Not Given Depth Base (m): Not Given Depth Base (m): Not Given Depth Top (m): 3.00 Depth Base (m): Not Given Depth Base (m): Not Given Depth Base (m): Not Given Depth Top (m): 3.00 Depth Base (m): Not Given Depth Top (m): 3.00 Depth Base (m): Not Given Depth Top (m): 3.00 Depth Top (m): 3.00 Depth Top (m): 3.00 </td <td>Clie Clie Clie</td> <td>nt: nt Addre</td> <td>ess:</td> <td>De Sui Bai 35 Ma Ra</td> <td>Ita-Simons ite GB rclay Hous Whitworth inchester, chel String</td> <td>e Street W M1 5NG jer</td> <td>est</td> <td>art 2:<i>*</i></td> <td>1990, cli</td> <td>ause</td> <td>9.2</td> <td></td> <td>(</td> <td>Da Da</td> <td>Job ate ate F Dat</td> <td>o Nui Sarr Rece :e Te</td> <td>mbe nple eive este</td> <td>er: 1 ed: 1 ed: 1 ed: 2</td> <td> 8-9 1/0 6/0 28/0</td> <td>934)7/2)7/2)7/2</td> <td>66 2018 2018 2018 2018</td> <td></td> <td></td> <td></td> <td></td>	Clie Clie Clie	nt: nt Addre	ess:	De Sui Bai 35 Ma Ra	Ita-Simons ite GB rclay Hous Whitworth inchester, chel String	e Street W M1 5NG jer	est	art 2: <i>*</i>	1990, cli	ause	9.2		(Da Da	Job ate ate F Dat	o Nui Sarr Rece :e Te	mbe nple eive este	er: 1 ed: 1 ed: 1 ed: 2	8-9 1/0 6/0 28/0	934)7/2)7/2)7/2	66 2018 2018 2018 2018				
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CLAY Fine Medum Coarse Fine Medum Coarse Fine Medum Coarse Medum Medum Coarse Medum M					SILT				SAND					C	GRA	VEL									
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90 100 Very coarse 0.00 75 100 63 5.30 63 100 65.50 5.30 50 100 65.50 5.30 37.5 100 65.50 5.30 28 100 65.50 5.30 20 100 65.50 5.30 14 99 63 6.3 98 6.3 98 60 7.5 100 10 99 60 7.5 100 110 99 60 7.5 100 10.0 2 95 60 7.5 100 10.0 10.0 10.0 1.18 93 93 10.0						m	m	,		.9	-	Sam	ple F	Prop	orti	ons				Т		% 0	lry m	ass	
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Date Reported:

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Darren Berrill

Manager

Geotechnical General

Tested in Accordance with BS197:Part 2:1900, clause 9.2 Client Date Simons Client Reference: 18-0886-03 Jack Markenses Suite GB Barclay House Date Sampled: 12/07/2018 Jack Markenses Manchester, MI SNG Date Sampled: 12/07/2018 Sampled By: Melanie Booth Site Adress: Criteric Road, Whalley Date Received: 18/07/2018 Sampled By: Melanie Booth Site Adress: Criteric Road, Whalley Sampled By: Melanie Booth Sample description: Light brown slightly gravelly slightly clayey SAND Sample Type: 8 Suppler: Not Given Daph Base [m]: Not Given Dout Frag Booth Type: 8 Suppler: Not Given Doph Base [m]: Not Given Doph Base [m]: Not Given Dout Description: Light brown slightly gravelly slightly clayey SAND Sample dys: 8/10 Suppled: Not Given Doph Base [m]: Not Given Doph Base [m]: Not Given Dout Description: Not Given Stering Stering Particle Size nm Not Given Dout Description: Not Given Stering Stering Particle Size nm Not Given Not Given		Det		T CERTIFIC	CATE Bize Distribu	<u>tion</u>	i2 Analytical Ltd 7 Woodshots Meado Croxley Green Busir Watford Herts WD1	ess Park	Environmental Science
Site Name: Cilteriore Read, Whalley: Sampled By: Melanie Booth TEXTRESULTS Laboratory Reference: 1006191 Sample Agterence: Not Given Supple description: Light brown slightly gravelly slightly clayey SAND Sample Type: B Depth Top [m]: 1.00 Supple description: TP107 Depth Top [m]: Not Given Depth Top [m]: Not Given Vertice Site Address Medium Coarse Pent Medium Coarse ROULDERS Vertice Site Address Image	Clie Clie	nt: nt Address:	Delta-Simons Suite GB Barclay House 35 Whitworth S Manchester, M	e Street West 11 5NG	rt 2:1990, clause 9	.2	Job Number: 1 Date Sampled: 1 Date Received: 1	3-93466 2/07/2018 6/07/2018	
Sample description: Light brown slightly gravelly slightly clayey SAND Sample Type: B Sample description: P107 South Green Light Top (m): Not Green Light Top (m): Not Green CLAY Fire Madum Coarse Fire Madum Coarse Fire Madum Coarse (COBLES) SOULDERS CLAY Fire Madum Coarse Fire Madum Coarse Fire Madum Coarse (COBLES) SOULDERS CLAY Fire Madum Coarse Fire Madum Coarse (COBLES) SOULDERS CLAY Fire Madum Coarse Fire Madum Coarse (COBLES) SOULDERS CLAY Fire Madum Coarse Fire Madum Coarse (COBLES) SOULDERS Top (COBLES) South Company (COBLES) SOULDERS Sample description (COBLES) South Company (COBLES) SOULDERS Particle Size Market South Company (COBLES) S	Site Site	Name: Address:	Clitheroe Road	d, Whalley			Sampled By: M	elanie Boot	h
Lottime Triff Spenden CLAV Tried Medium Coarse Free Medium Coarse Coefficient Coarse Co	TES	T RESULTS	Laborato	ry Reference:	1006191		Sample Reference: N	ot Given	
Supplier: Not Given Depth Base [m]; Not Given	San	nple descriptior	n: Light brov	wn slightly grave	lly slightly clayey	SAND	Sample Type: B		
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mm % Passing mm % Passing 125 100		Si	ieving	Sedime					824
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75 100 Gravel 5.60 63 100 Sand 87.10 50 100 Fines <0.063mm		125						C	
63 100 Sand 87.10 50 100									
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28 100 Image: Constraint of the second						Fin	005 <0.063mm		7 20
14 98						1 11			1.20
10 97						Gra	ading Analysis		20
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3.35 95 Image: Stress of the stress of		6.3	96			D3	0 m		0.208
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Darren Berrill

Manager

Geotechnical General

Autor 4041 Tested in Accordance with BS1377:Part 2:199 Client: Delta-Simons Client Address: Suite GB Barclay House 35 Whitworth Street West	00, clauses 9.2 and 9.	5 Client Reference: 18-	
Manchester, M1 5NG Contact: Rachel Stringer Site Name: Clitheroe Road, Whalley Site Address: Not Given		Job Number: 18- Date Sampled: 12/ Date Received: 16/ Date Tested: 28/ Sampled By: Me	93466 07/2018 07/2018 07/2018
TEST RESULTS Laboratory Reference: 10	006192	Sample Reference: Not	t Given
Sample description: Yellowish brown slightly grav	velly slightly silty	Sample Type: B	
Location: TP108 Supplier: Not Given		Depth Top [m]: 1.2 Depth Base [m]: No	
CLAY SILT Fine Medium Coarse Fine	SAND Medium Coarse	GRAVEL Fine Medium Coarse	COBBLES BOULDERS
	Medidini Coarse		
90			
80			
× 70 -	/		
8			
bu do			
S 30			
20			
10			
0.001 0.01 0.1	1 Desting 2	10	100 1000
Sieving Sedimenta	Particle Size	mm Dry Mass of sample [g]:	498
Particle Size % Passing Particle Size	% Passing		
125 100 0.0651	Ũ	Sample Proportions	% dry mass
90 100 0.0467	27	Very coarse	0.00
75 100 0.0333 63 100 0.0239		Gravel Sand	0.00 71.50
50 100 0.0172		Silt	16.90
37.5 100 0.0128		Clay	11.60
28 100 0.0014 20 100	10	Grading Analysis	
14 100		D100 mm	2
10 100		D60 mm	0.296
6.3 100		D30 mm	
5 100 3.35 100		D10 mm Uniformity Coefficient	
2 100		Curvature Coefficient	1
1.18 97			-
0.6 92		Remarks	
0.425 85 0.3 61		Preparation and testing in accordance	with BO1317 Unless noted below
0.212 46			
0.15 35			
0.063 29			
Approved:		Signed:	
Dariusz Piotrowski		Darren Berrill	Digit

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Manager

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			mination			512		/151		u				Wa	atfo	rd I	Her	ts \	ND)18	8Y	′S			Enviro	nment	al Science	•
	•••	ested	in Accordance w	rith BS137	7:Part 2	2:199	90, cla	ause	s 9.2	2 an	d 9.	5																
Clie			Delta-Simons Suite GB											Cli									6-03					
Clie	ent Address		Barclay House	Э											-		Nu						018					
			35 Whitworth		est													•										
0.	- 1 1		Manchester, N											L									018					
	ntact: e Name:		Rachel String Clitheroe Roa		ev																		018 e Boo	oth				
	Address:		Not Given	-,	- 5										-				- , .			-						
TE	ST RESULT	S	Laborato	ory Refer	ence:	10	0061	97					S	am	ple	Re	efer	en	ce:	No	ot C	Siv	en					
Sa	mple descrip	otion:	Mottled b	orown gra	avelly \	very	sand	dy S	ILT	and	d CL	AY			Sa	amp	ble	Ту	be:	в								
Loc	cation:	TP12	23											I	Dep	oth	То	p [ı	m]:	1.9	90							
Su	oplier:	Not (Given												ept							Siv	en					
	CLAY		SILT				SA	ND	1						GF	RAV	EL					OB	BLES		BOUL		s	
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	0.001		0.01		0.1			Par	ticle	•	ə r	nm				10						I.	50				100	0
		Siev	/ing		Sedin	nenta	ation				[Dry I	Mas	s of	fsa	mpl	e [g]:						22	73			
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	125		100	0.0	626			58				Sam				rtic	ns							%	dry n			
	90 75		100 100)450)323			55 52				√ery Grav		arse	;						_				0.00			_
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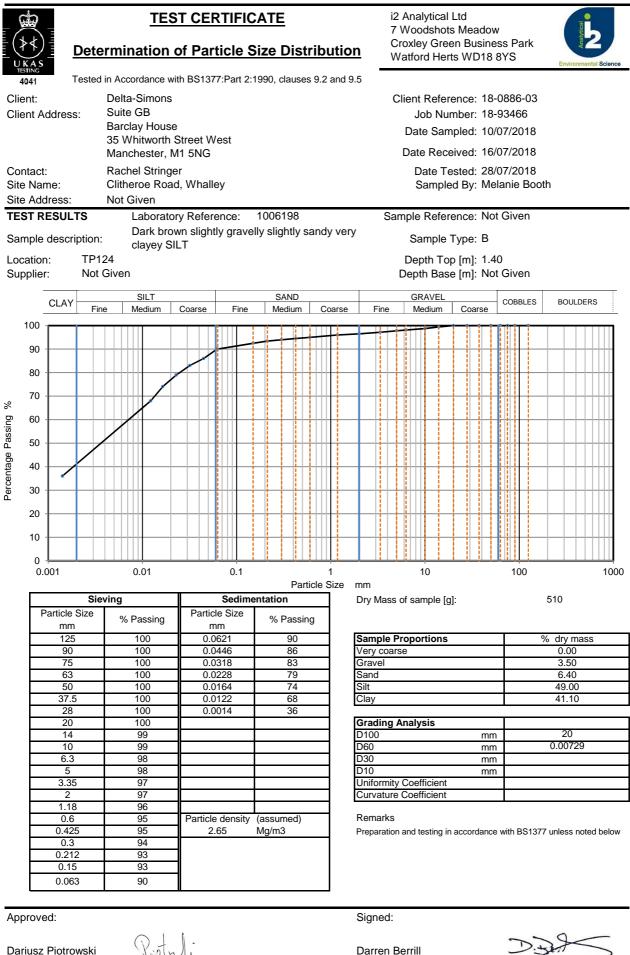
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for and on behalf of i2 Analytical Ltd

Geotechnical General

Manager



Postali

Date Reported:

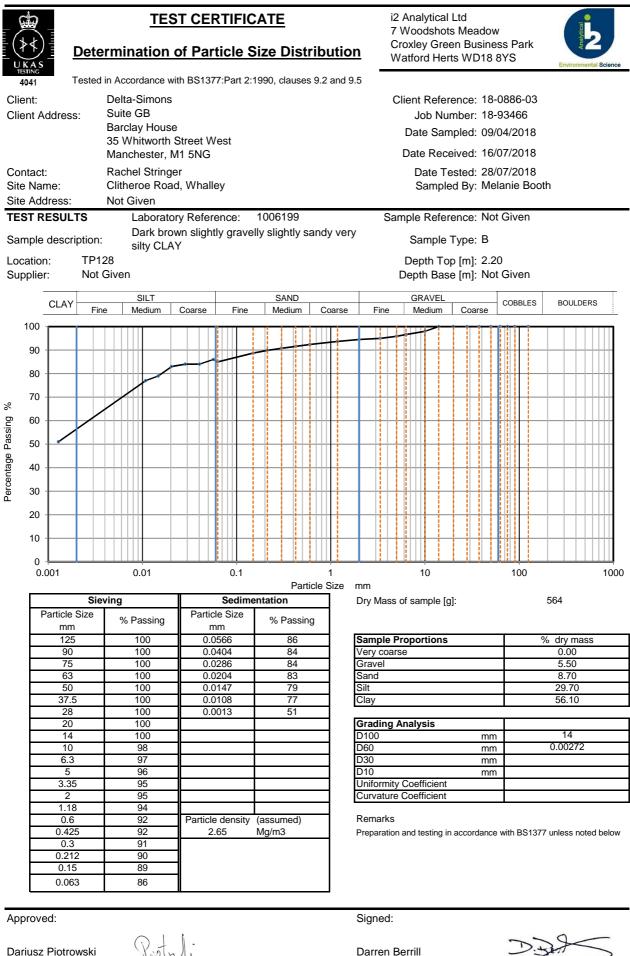
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