



NB: Positions of Boreholes and/or Trial Pits are only indicative unless dimensioned

Site: Hope and Anchor Pub, 74 Crowndale Road, Camden

STL: J11708 Fig No: 2

Date: 21 March 2014

Southern Testing Southern Testing: Keeble House, Stuart Way, East Grinstead, West Sussex RH19 40A ST Consult: Twigden Barns, Brixworth Road, Creaton, Northampton NN6 8NN

S	out	hern Te	esting	g ST	Con	sult =	Tel: 013	342 3331	00		Project No. <b>J11708</b>	Hole Type WS	Borehole No WS1 Sheet 1 of 1	
Project N	lame:	Hope and	l Ancho	or, 74 Cro	owndale l	Road ( Ca	mden )				Dates: 18/03/	2014	1 111 1	
Location	:	Camden									NGR: -			
Client:		Vidacraft	Ltd								Level: -		Logged By AW	
	Vater Strikes	Samp Depth (m)	ples & I	In Situ Te	esting esults	Level (m AOD	Thickness	Legend	Depth (m)		Stratum	Description		
							0.16		0.16		crete floor slab			-
		0.30	D				0.24			Firn fine	n, grey brown, CLA` to coarse sub angu	Y MADE GROUN ılar brick fragmen	D with frequent ts.	
		0.50		UCS	S = 180				0.40		n to stiff, high streng	th,brown mottled	grey	+
		0.50	D						6	TISS	ured CLAY.			_
								===						
		1.00 1.00	D	UCS	S = 160									1.
		1.00						<u> </u>						
														_
1		1.50 1.50	D	UCS	S = 240		2.20	<u> </u>		\_1	.50m: Turning to st	iff, high strength (	CLAY.	_
														_
		2.00		LICS	S = 250									
		2.00	D		7 – 200									
								====						
		2.50		UCS	S = 280									-
		2.50	D				0.10		2.60 2.70	Yell	ow brown, CLAYST	ONE		_
										Stiff	f, high strength, gre	y brown, CLAY		
		3.00 3.00	D	UCS	S = 280		0.73	<u> </u>						-3.
		0.00												
									3.43					-
											End of E	Borehole at 3.43 n	1	_
														- 41
														_
														F
														Ė
														F
														L
														5.
														Ė
														L
														E
														ŀ
			Tuna	-	Paculto	-								
Hol	e Dia	ameters	Туре	<u> </u>	Results	W	ater Strik	res			General Rema	arks:		
Depth (m)	Hole (	mm) Casing	(mm)	Date V	Water (m)	Casing (m)	Time (mins)	Rose to	(m) S	ealed (m)	Sample moist from	2.5m to base.		
	1	1												

PT = Equivilant Standard Penetration Test , UCS = Unconfined Compressive Strength (kN/m2) by Hand Penetrometer , HV = Hand Vane Result (kPa)

	Sout	hern T	esting	g   ST Con	sult =	Tel: 013	342 3331	00		Project No. <b>J11708</b>	Hole Type WS	Borehole N WS2 Sheet 1 of
oject	Name:	Hope an	d Ancho	or, 74 Crowndale F	Road ( Ca	mden )				Dates: 18/03/2	2014	
catio	n:	Camden								NGR: -		
ient:		Vidacrafi	t Ltd							Level: -		Logged By AW
/ell	Water Strikes	Sam Depth (m)	nples &	In Situ Testing Results	Level (m AOD	Thickness	Legend	Depth (m)		Stratum	Description	
411	1	. , ,				0.15		0.15		ete floor slab		
	20 (IC)	0.40 0.40	D	UCS = 150		0.25	<u> </u>	0.40	freque and fir	o firm, grey brown ent fine to coarse s ne to medium flint	sub angular brick gravel.	fragments
								0 0 8	fissure	o stiff, high streng ed CLAY.	th, brown mottled	grey
	100 Police and	1.00 1.00	D	UCS = 200								
	SALE AND MINE	1.50		UCS = 200		2.15						
	ALC: NA PARK	1.50	D									
	000000000000000000000000000000000000000	2.00 2.00	D	UCS = 220								
	WILLIAM TO VICE	2.50 2.50	D	UCS = 300		0.10		2.55	Vallan	, hassar Ol AVCT	ONE	
	***************************************					0.10		2.65		v brown, CLAYST nigh strength, grey		
	2000 UNIV. 2005	3.00 3.00	D	UCS = 290		0.79			,	3 - 1 - 1 - 3 - 7 - 3 - 7	, -	
	40 M25 AES							3.44			orobolo et 2.44 m	
										Elid Ol B	orehole at 3.44 m	ı
			-									
Н	ole Dia	ameters	Туре	Results	Wa	ater Stril	kes		10	General Rema	ırks:	
oth (m	$\overline{}$		_	Date Water (m)	Casing (m)	Time (mins)	Rose to	(m) Sea	_	Sample moist from		

	Sout	thern Te	estin	g ST Cons	sult =	Tel: 013	342 33310	00		Project No. <b>J11708</b>	Hole Type WS	WS3 Sheet 1 of 1
Project	Name:	: Hope and	J Anch	or, 74 Crowndale Ro	.oad ( Car	mden )				Dates: 18/03/2	2014	
Locatio	n:	Camden								NGR: -		
Client:		Vidacraft I	Ltd							Level: -		Logged By AW
Well	Water Strikes	Samp Depth (m)	ples & Type	In Situ Testing Results	Level (m AOD)	Thickness	Legend	Depth (m)		Stratum	Description	
						0.12		0.12	-	rete floor slab		20:10:10
	ACD ACRD (1900) (1900)	0.50	D						freque: fragme	o firm, grey brown, ent fine to coarse s ents, occasional c ravels. Occasional	sub angular brick clinker, ceramic, g	-
	Aland Mirror Branco muses	1.00 1.00	D	UCS = 60								
	Control of the contro	1.50 1.50	D	UCS = 40		2.78						- - - - - - - - - -
	Soldin and University and American	2.50		UCS = 120								-
	A ALEX WORK INC.	3.00 3.00	D	UCS = 170				2.90	grey C	to stiff, high streng CLAY with occasio tite crystals.	th, grey brown, m onal areas of sand	nottled
	Man Africa and Africa	3.50 3.50	D	UCS = 260								-  -  -  -
	ME form tensor	4.00 4.00	D	UCS = 270								- 4.0  
	CONTINUE OF THE STATE OF THE ST	4.50 4.50	D	UCS = 200		3.14						-  -  -  -
	120	5.00 5.00	D	UCS = 220			7-7-7- 7-7-7- 7-7-7- 7-7-7-					- 5.0 - - -
	ALL Williams seems	5.50 5.50	D	UCS = 220								-  -  -  -
	Hills and	6.00 6.00	D	UCS = 240	'			6.04				
Нс	Die Die	ameters	Туре	Results	\\/:	ater Strik	kac			End of Bo General Rema	Borehole at 6.04 m	
Depth (m)	) Hole (	(mm) Casing (		Date Water (m) C	Casing (m)	Time (mins)	Rose to (		aled (m) S	Sample moist from 2		

Sou	thern Testing	ST Consul	t Tel: (	01342	333100	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP1</b> Sheet 1 of 1
roject Nam	e: Hope and Anchor,	74 Crowndale Road	( Camder	n )		NGR: - Level: -		Date: 18/03/2014
ocation:	Camden					Dimensions:	0.40m	1
Client:	Vidacraft Ltd					1.40m & 8.0		Logged By AW
Sample	s & In Situ Testing	Level (m AOD) Thickness	Logond	Depth (m)				1 / / / /
Depth (m)	Гуре Results	(m AOD) Thickness	Legend	(m)	CONCRETE flo	Stratum Des	scription	
1.00 1.00	D UCS = 80	1.25		1.40	Dense, yellow he sized sub angulation fine to coarse s	llar to angular brick fi sub angular flint grav	MADE GROUND. Fine grave ragments, with occasional sals.	I to cobble ands and
Remarks:								
Pit Stability:	Stable to base							

So	uthe	ern Testing	ST Co	onsul	Tel:	: 01342 :	333100	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP2</b> Sheet 1 of 1
Project Na	me: H	ope and Anchor, 74	4 Crownda	ale Road	( Camde	en)		NGR: - Level: -		Date:
Location:	C	amden						Dimensions:	0.45m	18/03/2014
Client:	V	idacraft Ltd						. 1.00m ₹.7		Logged By AW
Samp Depth (m)	les & Ir	Situ Testing Results	Level (m AOD)	Thickness	Legend	Depth (m)		Stratum Des	cription	
0.50 1.00	D			0.20		0.20 0.21	Damp Proof M Brown, silty si sized brick an glass pieces.	Membrane  andy CLAY MADE GRO d concrete fragments.	DUND with frequent fine to o	oarse gravel and
Pit Stability	y: Stab	le to base								
		water encountered								
PPT = Perth	Penetrat	ion Test 'N' Value, UCS	= Unconfined	Compressi	ve Strength	(kN/m2)	by Hand Penetrome	eter, HV= Hand Vane Resu	ılt (kPa)	

So	uther	n Testing	ST C	onsul B Geotechnica	t Tel	: 01342	333100	Project No. <b>J11708</b>	Machine Type Hand Dug	Trialpit No <b>TP3</b> Sheet 1 of 1
		pe and Anchor, 7						NGR: -		Date:
ocation:	Ca	mden						Level: - Dimensions:	0.50m	18/03/2014
Client:		acraft Ltd						Depth 5.0		Logged By
		Situ Testing	Level			Denth	I			AW
Depth (m)	Туре	Results	(m AOD)	Thickness	Legend	Depth (m)	CONCRETE	Stratum Des	scription	
0.60	D			0.12		0.12		to black silty sandy C bled sized brick fragme ceramic, glass and oc	LAY MADE GROUND with fights. Frequent fine to coarse casional fine to medium sub	requent fine gravel
1.25 1.25	D	UCS = 100		0.78		0.72	Firm to stiff, it coarse grave	nigh strength, grey brod	wn CLAY MADE GROUND was fragments.	vith fine to
						1.50		Trial Pit C	omplete at 1.50 m	

Remar	ks:

Pit Stability: Stable to base

Groundwater:No water encountered

PPT = Perth Penetration Test 'N' Value , UCS = Unconfined Compressive Strength (kN/m2) by Hand Penetrometer, HV= Hand Vane Result (kPa)

South	nern Testing   ST Consult Tel: 01342 333100	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP4</b> Sheet 1 of 1
Project Name:	Hope and Anchor, 74 Crowndale Road ( Camden )	NGR: - Level: -		Date: 14/03/2014
_ocation:	Camden	Dimensions:	0.67m	
Client:	Vidacraft Ltd	1.00m 48.0		Logged By AW

		Situ Testing	Level_  <sub>Thi</sub>	ckness	Legend	Depth	Stratum Description
epth (m)	Туре	Results	Level (m AOD) Thi	CKI 1022	Legenu	Depth (m)	Stratum Description
				0.15		20 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	CONCRETE floor slab
						0.15	Soft to firm, brown to black CLAY MADE GROUND with frequent fine to coarse gravel sized brick, ceramic, clinker, concrete and glass fragments. Occasional sub angular brick fragments.
0.40 0.40	D	UCS = 60		0.30			
				and		0.45	Stiff, high strength, grey brown, slightly fissured CLAY.
0.70 0.70	D	UCS = 200	C	0.55			
				VI.		1.00	Trial Pit Complete at 1.00 m
	1						

Remarks:

Pit Stability: Stable to base

Groundwater:No water encountered

PPT = Perth Penetration Test 'N' Value , UCS = Unconfined Compressive Strength (kN/m2) by Hand Penetrometer, HV= Hand Vane Result (kPa)

Environment	nern Testing	ST Consu	t el:	01342	333100 Project No <b>J11708</b>	Machine Type Hand Dug	Trialpit No <b>TP5</b> Sheet 1 of 1
Project Name: I	Hope and Anchor, 7	4 Crowndale Road	d ( Camde	n)	NGR: - Level: -		Date:
ocation: (	Camden				Dimensions:	0.50m	14/03/2014
	Vidacraft Ltd				Depth 0.70m	0.50m	Logged By AW
	In Situ Testing	Level (m AOD) Thicknes	s Legend	Depth	Stratum	Description	
0.40 D	e Results	(m AOD) Thicknes  0.10  0.55	s Legend  An and	0.10 0.65 0.70	CONCRETE floor slab  Soft to firm, brown to black CLA coarse gravel sized brick, ceran fragments. Occasional sub angular sub angular size of the coarse gravel sized brick, ceran fragments. Occasional sub angular size of the coarse gravel sized brick, ceran fragments. Occasional sub angular size of the coarse gravel sized brick, ceran fragments. Occasional sub angular sized brick, ceran fragments sized brick, ceran fragments. Occasional sub angular sized brick, ceran fragments sized	iic, clinker, concrete and glass	nt fine to
Remarks:							

Project Name: Hope and Anchor, 74 Crowndale Road (Camden)  Location:  Client: Videoral Ltd:  Samples & In Situ Testing Depth (n) Type: Results (In ACD) Tradiness Lagerd (In ACD) Tradiness Lagerd (In International Selection (International Selection (Internation (International Selection (International Selection (Internation (Intern	So	uthe	ern Testing	ST C	onsult	Tel:	01342	333100	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP6</b> Sheet 1 of 1
Client: Videoraft Ltd Samples & In Stut Testing Depth (m) Type Results (m ACO) Trickness (Legend Pepth (m))  Output (m) Type Results (m ACO) Trickness (m ACO)	Project Na	me: H	ope and Anchor, 74	Crownd	ale Road	( Camde	n)				
Samples & in Situ Testing   Level   Trickness   Legend   Open	Location:	C	amden							0.65m	
Depth (m) Type Results (m AOD) intollines legicity (m) Stratum Description (m)	Client:	Vi	dacraft Ltd						0.36m <u>6</u>		
0.12  0.12  0.12  0.12  0.15  0.16  0.17  0.18  0.18  0.19  0.19  0.19  0.10				Level (m AOD)	Thickness	Legend	Depth (m)		Stratum Desc	cription	
INGINAINS.	0.20	D			0.15	71.	0.12	Stiff to very st coarse gravel fragments.	iff, brown CLAY MADE sized brick fragments a iff, very high strength, bals	GROUND with frequent fine and occasional glass and ce brown CLAY with occasional	ramic
	remarks:										
Pit Stability: Stable to base  Groundwater: No water encountered											

PPT = Perth Penetration Test 'N' Value , UCS = Unconfined Compressive Strength (kN/m2) by Hand Penetrometer, HV= Hand Vane Result (kPa)

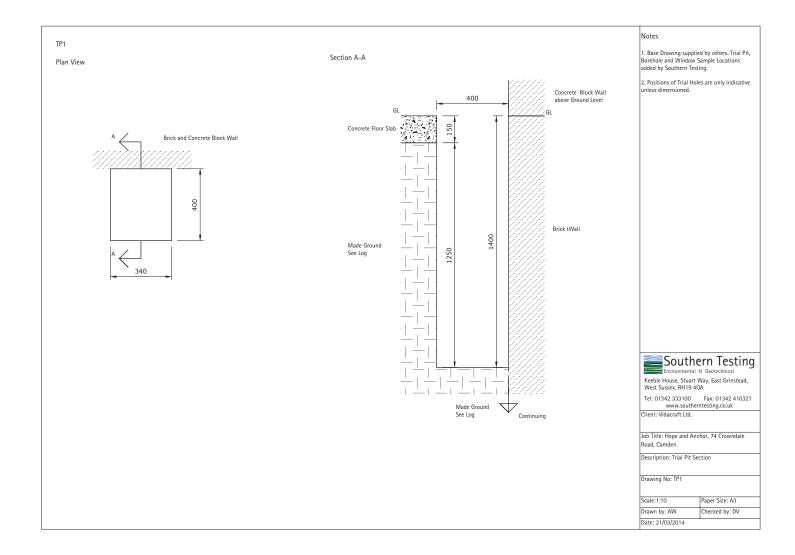
Samples & In Stru Testing   Love   Thickness   Logard   Popth   Stratum Description    Description   Thickness   Logard   Popth   Stratum Description    CONCRETE floor slab   CONCRETE floor slab   CONCRETE floor slab    DAGO   D   UCS * 240   O.14   CONCRETE floor slab   CONCRETE floor slab    UCS * 240   O.14   CONCRETE floor slab   CONCRETE floor slab   CONCRETE floor slab    UCS * 240   O.14   CONCRETE floor slab    UCS * 240   O.14   CONCRETE floor slab   CONCRETE floor slab	So	uther	n Testing	ST C	Consult	Tel	: 01342	333100	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP7</b> Sheet 1 of 1
cation: Carniden  The videorant Ltd  Samples & No filtur Testing  Depth (m) Type Results (m AOD)  O 16  O 16  O 18  UCS = 240  O 18	Project Nar	me: Ho	pe and Anchor, 7	74 Crowno	dale Road	( Camde	en )			•	Date:
Samples & In Situ Testing (In Machinest Logend By AW)  Stratum Description  CONCRETE foor state  0.16  Depth (In Machinest Logend By AW)  CONCRETE foor state  0.25  D UCS = 240  0.16  Siff, high entering, grey brown, CLAY with occasional lenses of sand and selentile crystals: throughout.  Thial Pit Complete at 0.48 m  Thial Pit Complete at 0.48 m										0.56m	14/03/2014
Samples & In Situ Testing  Dir (W) Type Results (M ACO)  Thickness Legend (M) Type Results (M ACO)  Directors (M ACO)  Director	_ocation:	Ca	mden						l =	moc.u	
pth (m)   Type   Results   m ACD)   months   Legent   CONCRETE floor slab	Client:	Vid	lacraft Ltd						0.48m ශ්ල ල ට		
0.16  0.16  0.16  0.16  0.16  0.16  0.16  0.16  0.16  0.16  0.17  Firm to stiff, grey brown CLAY MADE GROUND with fine to coarse gravel slied auth breaking thrick fingaments.  0.17  0.18  0.18  0.19				Level	Thickness	Legend	Depth (m)		Stratum Des	scription	
D UCS = 240  D UCS	Jeptn (m)	Туре	Results	(III AOD)	1		(111)	CONCRETE			
Stability: Stable to base	0.25 0.40 0.40		UCS = 240		0.18		0.34	sized sub ang	gular brick fragments. ength, grey brown, CLA crystals throughout.	AY with occasional lenses of	
	Remarks:										
	Pit Stability	y: Stable	to base								
				d							

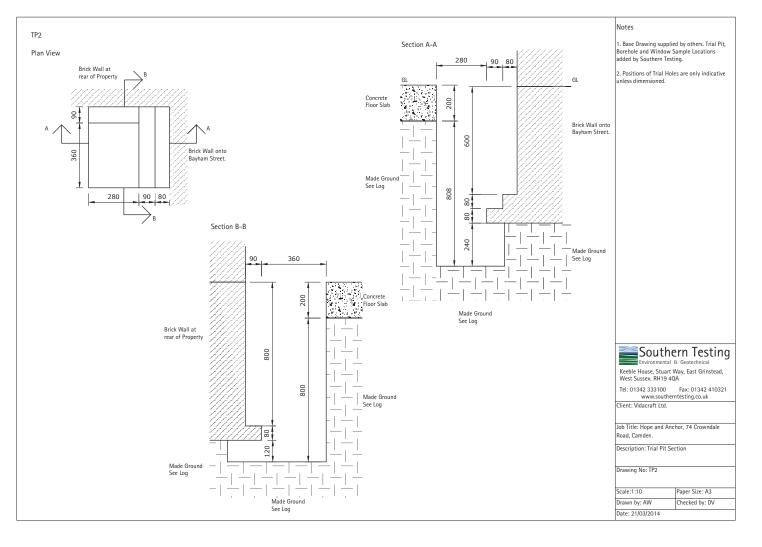
							•			_
Sol	uthe	ern Testing	ST Consu	t Tel	: 01342 :	333100	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP8</b> Sheet 1 of 1	
Project Nar	ne: H	ope and Anchor, 7	'4 Crowndale Road	d ( Camde	en)		NGR: - Level: -		Date: 14/03/2014	
Location:	C	amden					Dimensions:	0.73m	14/03/2014	
Client:		dacraft Ltd					0.70m & 60 0.70m		Logged By AW	
Sampl Depth (m)	es & In Type	Situ Testing Results	Level (m AOD) Thicknes	Legend	Depth (m)		Stratum Des	cription		
0.45 0.45 0.65	D D	UCS = 50  UCS = 140	0.18		0.18	coarse grave fragments. O	prown to black CLAY M. Il sized brick, ceramic, cecasional sub angular becasional sub angul	ADE GROUND with frequer		
Remarks:										
Pit Stability										
		water encountered on Test 'N' Value , UC		ive Strength	(kN/m2)	by Hand Penetron	neter, HV= Hand Vane Resu	ılt (kPa)		
				-						

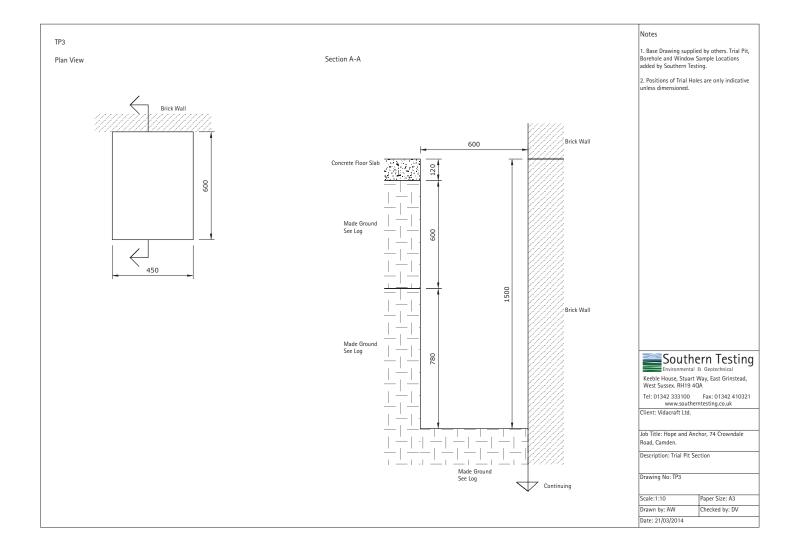
Sol	ither	n Testing	ST C	onsult	Tel	01342	333100	Project No. <b>J11708</b>	Machine Type Hand Dug	Trialpit No <b>TP9</b> Sheet 1 of 1
Project Nam	ie: Hop	oe and Anchor, 7	74 Crowno	lale Road	( Camde	en )		NGR: -	1	Date:
ocation:	Car	nden						Level: - Dimensions:	0.70m	14/03/2014
								Depth E 7.0.66m		Logged By
Client:		acraft Ltd		1			T	o [		AW
	Type	Results	Level (m AOD)	Thickness	Legend	Depth (m)		Stratum Des	scription	
							CONCRETE	floor slab		
				0.12						
						0.12	Firm to stiff, g	grey brown CLAY MAD	DE GROUND with frequent fi and sand with occasional m	ne to medium
							gravel to cob	ble sized sub angular l	brick fragments.	ledium
				0.40						
0.40		UCS = 80								
0.40	D									
0.55		UCS = 160		8		0.52	Stiff, high stre	ength, grey brown, CL/	AY with occasional lenses of	sand
0.55	D			0.14			and selenite	arystais trirougriout.		
				8		0.00				
						0.66		Trial Pit C	omplete at 0.66 m	
Remarks:	<u>'</u>		<u> </u>	•						
it Stability:	Stable	to base								

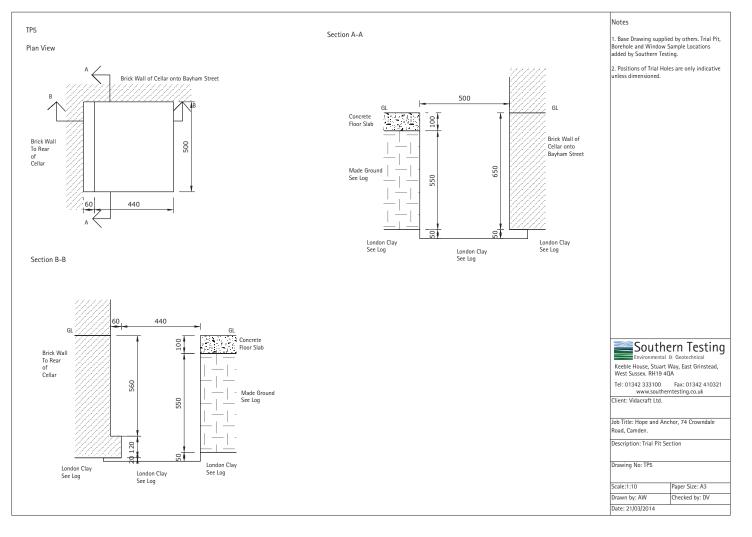
Cample   C	ation: Camden  To Viderant Lid  Samples A in Situ Testing Level  On 10 Type Results (m ACO) Thickness Legend (m)  On 10 Type Results (m ACO) Thickness (m ACO)	So	uthe	ern Testing	ST C	onsult	Project No. <b>J11708</b>	Machine Type <b>Hand Dug</b>	Trialpit No <b>TP10</b> Sheet 1 of 1			
Samples & In Stu Testing Level (m AOD) Thickness Legend (m) Stratum Description  Once the state of the state	Logged By AW  Samples & In Situ Testing University Conditions (In ACO) Thickness Legend Profit On Stratum Description  O.15  Simple Results (In ACO) Thickness Legend Profit On CONCRETE floor slab  O.15  Firm to saff, grey brown CLAY MADE GROUND with fine to coarse gravel street such angular birds fragments.  This Pit Complete at 0.55 m  This Pit Complete at 0.55 m				4 Crownd	ale Road	( Camde	en)			0.57m	
pth (m) Type Results (m AOD) Inconses Legend (m) Stratum Description  CONCRETE floor slab  Firmt to slift, grey brown CLAY MADE GROUND with fine to coarse gravel sized sub angular brick fragments.  Firmt, medium strength, brown, CLAY with occasional sand lenses and Selentite crystals.  Trial Pit Complete at 0.55 m	th (m)   Type   Results   (m ACD)   (nonness   Legero   (m)   Stratum Description	lient:								D "		
0.30 D UCS = 120 D UCS = 120 D Trial Pit Complete at 0.55 m	0.15  0.15  0.16  0.17  Firm to stiff, grey brown CLAY MADE GROUND with fine to coarse gravel sized sub angular brick fragments.  0.18  0.19  0.10  0.10  0.10  0.10  0.11  Firm, nedium strength, brown, CLAY with occasional sand lenses and Scientific crystals.  Trial Pit Complete at 0.55 m				Level	Thickness	Legend	Depth		Ctroture Dee	a visations	
marks:		0.30 0.50 0.50	Type D	Results	Level (m AOD)	0.15		0.15	Firm to stiff, g sized sub ang	rey brown CLAY MAD ular brick fragments. strength, brown, CLA	E GROUND with fine to coal	
	Stability: Stable to base	emarks:										

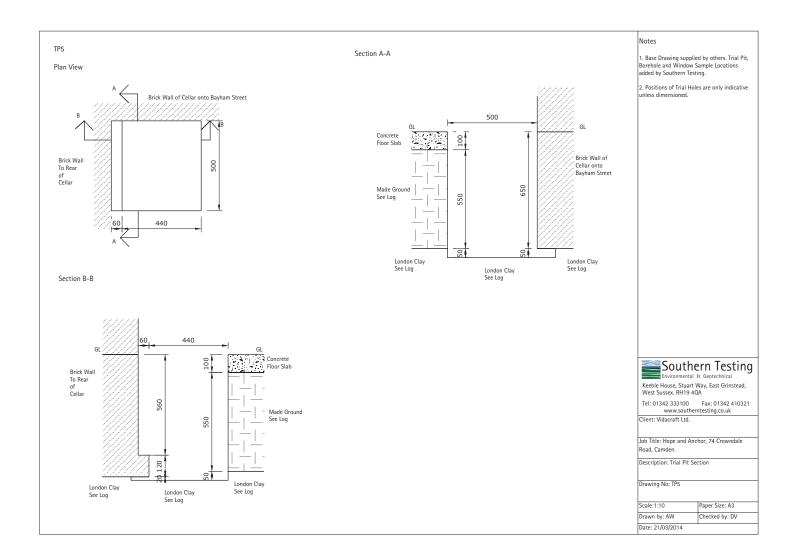
PPT = Perth Penetration Test 'N' Value , UCS = Unconfined Compressive Strength (kN/m2) by Hand Penetrometer, HV= Hand Vane Result (kPa)

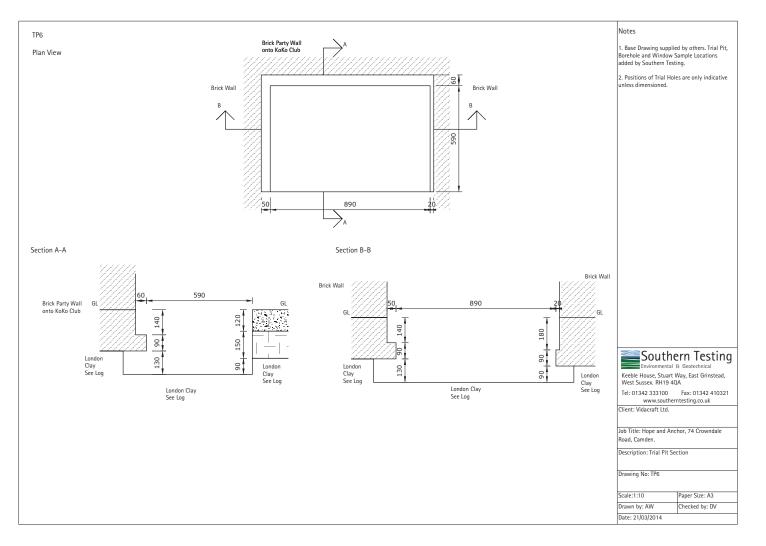


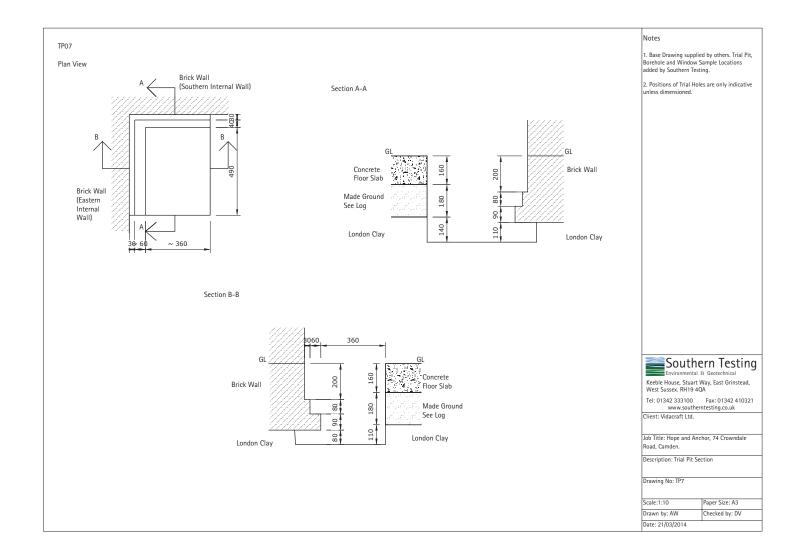


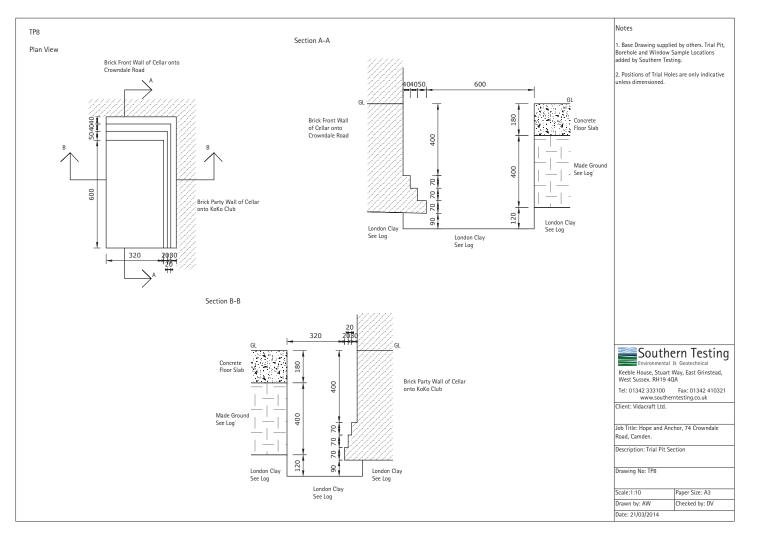


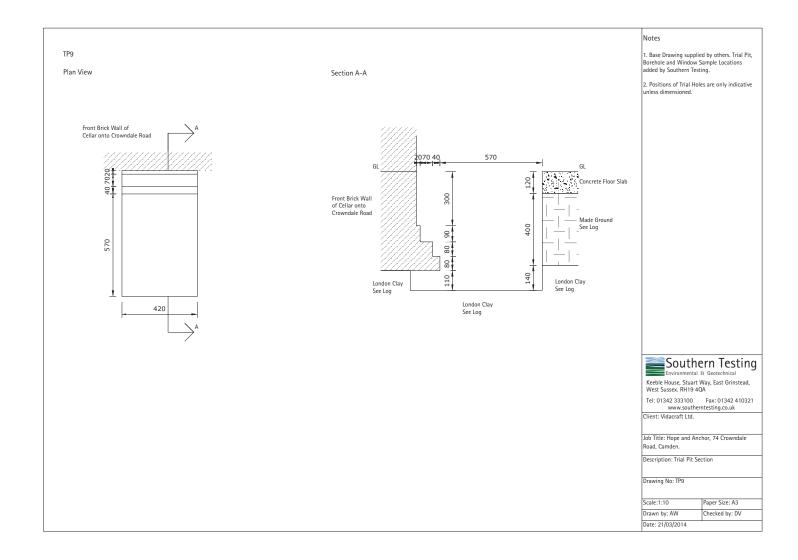


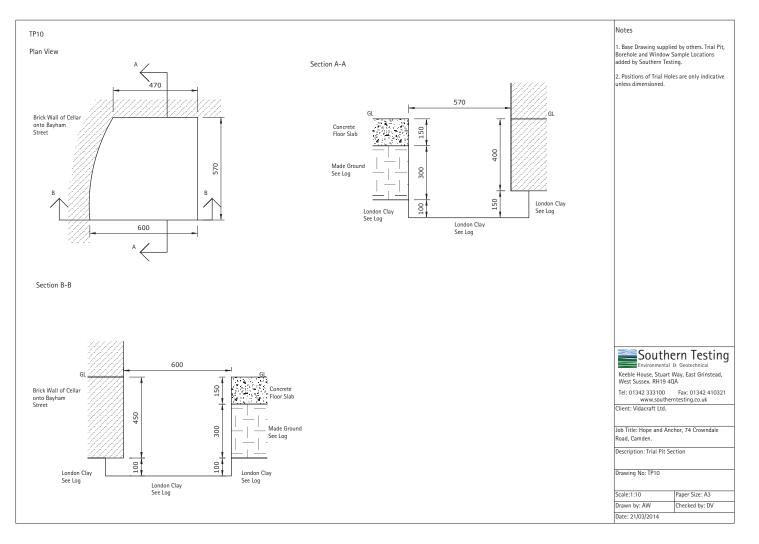








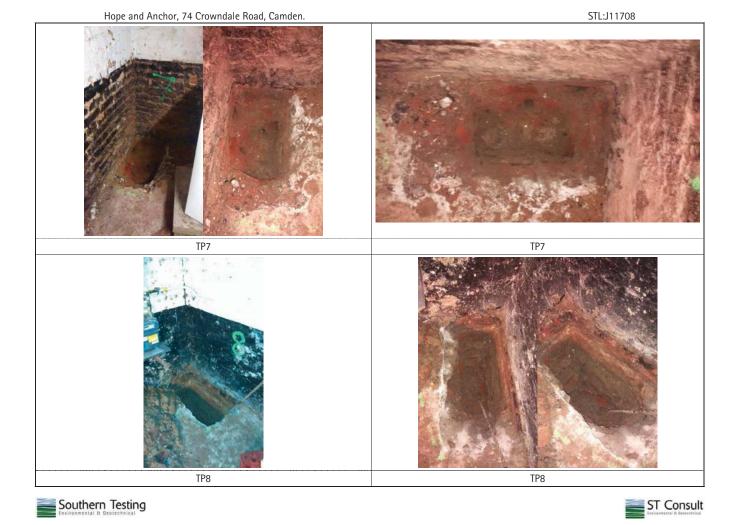


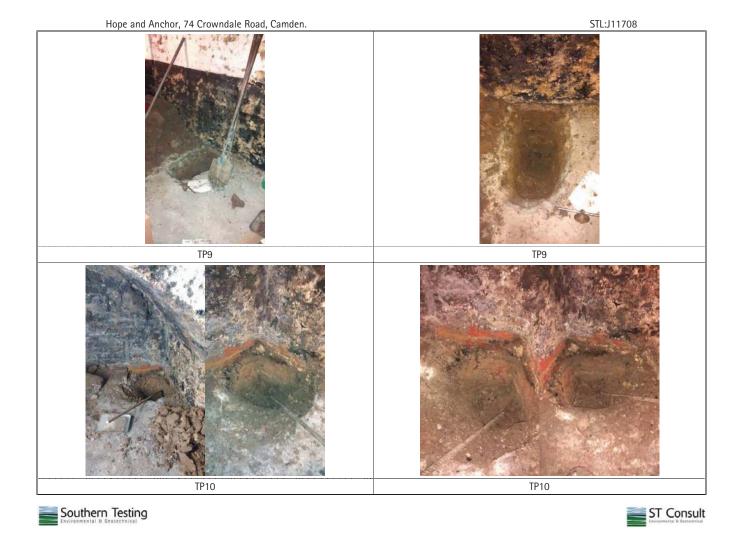














Field Sampling and in-situ Test Methods & Results

# Field Sampling and in-situ Test Methods

# **Disturbed Samples**

Disturbed samples were taken from the trial holes intervals and stored in sealed glass jars and polythene bags, as appropriate.

# **Hand Penetrometer Test**

The hand penetrometer consists of a spring loaded and calibrated plunger which is forced into the soil. A reading of unconfined compression strength (equal to twice cohesion) is given on a calibrated scale. In common with other hand methods of strength assessment (eg. the shear vane) it does not give an accurate indication of bearing capacity in stiff or fissured soils, because of the small test area. The figures are used for strength classification according to the table below

Hand Penetrometer Value (kPa)	Undrained Shear Strength cu (kPa)	Undrained Shear Strength of Clays
Less than 20	Less than 10	Extremely Low
20 to 40	10 to 20	Very Low
40 to 80	20 to 40	Low
80 to 150	40 to 75	Medium
150 to 300	75 to 150	High
300 to 600	150 to 300	Very High
More than 600	More than 300	Extremely High

# APPENDIX C

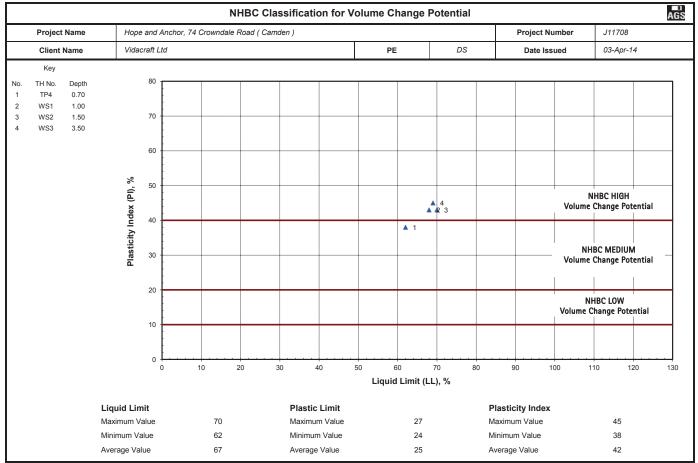
Geotechnical Laboratory Test Methods & Results

Southern Testing ST Consult To BS1377-2:1990(2003) cl.3.2, 3.3, 4.2, 4.3													
Project N	Project Name Hope and Anchor, 74 Crowndale Road ( Camden ) Project Number J11708												
Clien	it	Vidacraft L	Ltd		PE	DS	Date I	ssued	03-Apr-14				
Location	Depth m	Sample Type	Visual Description	Comments	Natural MC %	Liquid Limit %	Plastic Limit %	Plasticity Index	Classi- fication	Passing 425 micro %			
TP4	0.70	D	Stiff high strength light brown CLAY.		27	62	24	38	СН	100			
WS1	1.00	D	Firm medium strength light brown speckled orange slightly sandy CLAY.		30	68	25	43	СН	100			
WS2	1.50	D	Stiff high strength light brown mottled grey CLAY.		31	70	27	43	CH/CV	100			
WS3	3.50	D	Stiff high strength light brown slightly sandy CLAY.		30	69	24	45	СН	100			

Southern Testing Laboratories Limited, East Grinstead is registered under BS EN ISO 9001:2008 BSI ref: FS29280

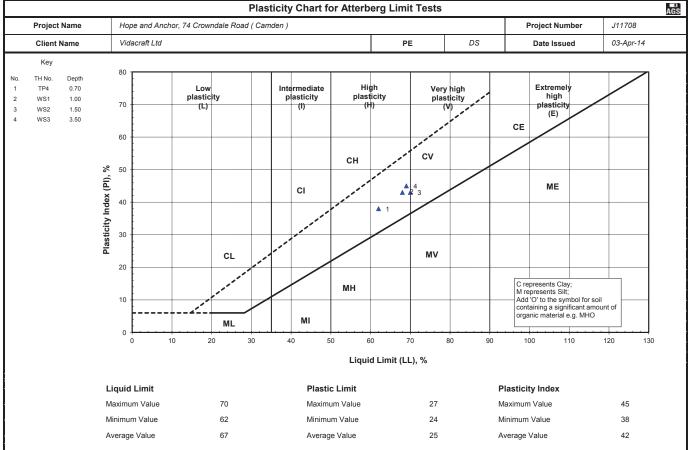
Jun 13

Page 1 of 1



Southern Testing Laboratories Limited, East Grinstead is registered under BS EN ISO 9001:2008 FS29280

Page 1



Southern Testing Laboratories Limited, East Grinstead is registered under BS EN ISO 9001:2008 FS29280



Scientific Analysis Laboratories is a

limited company registered in England and Wales (No 2514788) whose address is at

Hadfield House, Hadfield Street, Manchester M16 9FE

**Scientific Analysis Laboratories Ltd Certificate of Analysis** 

3 Crittall Drive Springwood Industrial Estate Braintree Essex CM7 2RT Tel: 01376 560120 Fax: 01376 552923

Report Number: 384508-1

Date of Report: 28-Mar-2014

**Customer:** Southern Testing Laboratories

Keeble House Stuart Way East Grinstead West Sussex RH19 4QA

Customer Contact: Mr David Vooght

Customer Job Reference: J11708 Customer Purchase Order: J11708 1

Customer Site Reference: Hope and Anchor, 74 Crowndale Road

(Camden) Date Job Received at SAL: 24-Mar-2014 Date Analysis Started: 24-Mar-2014 Date Analysis Completed: 28-Mar-2014

The results reported relate to samples received in the laboratory Opinions and interpretations expressed herein are outside the scope of UKAS accreditation This report should not be reproduced except in full without the written approval of the laboratory Tests covered by this certificate were conducted in accordance with SAL SOPs All results have been reviewed in accordance with QP22





Report checked and authorised by: Sarah Watt-Roy Project Manager

Issued by: Sarah Watt-Roy Project Manager



This document has been printed from a digitally signed master copy

SAL Reference: 384508

Project Site: Hope and Anchor, 74 Crowndale Road (Camden)

Customer Reference: J11708

Miscellaneous

Analysed as Soil

			SA	384508 001	384508 002	384508 003	384508 004	384508 005	
		Custon	ner Sampl	e Reference	TP3 @ 1.25m	TP7 @ 0.25m	TP8 @ 0.45m	WS1 @ 0.30m	WS2 @ 1.00m
			D	ate Sampled	14-MAR-2014	14-MAR-2014	14-MAR-2014	14-MAR-2014	14-MAR-2014
				Туре	Clay	Clay	Clay	Clay	Clay
Determinand									
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.17	1.7	0.69	2.1	1.9
рН	T7	A40			7.9	8.4	8.7	8.1	8.0
Moisture	T277	AR	0.1	%	23	16	24	15	18
Moisture @ 105 C	T162	AR	0.1	%	28	19	26	22	23
Retained on 2mm	T2	A40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 384508

Project Site: Hope and Anchor, 74 Crowndale Road (Camden)

Customer Reference: J11708

Analysed as Soil

Retained on 2mm

Miscellaneous						
			SA	L Reference	384508 006	384508 007
		Custon	ner Sampl	e Reference	WS3 @ 1.00m	WS3 @ 3.00m
			Da	ate Sampled	14-MAR-2014	14-MAR-2014
				Туре	Clay	Clay
Determinand	Method	Test Sample	LOD	Units	92.5	
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.23	2.0
рН	T7	A40			8.0	7.9
Moisture	T277	AR	0.1	%	22	19
Moisture @ 105 C	T162	AR	0.1	%	29	21

T2 A40 0.1 %

# Index to symbols used in 384508-1

<0.1

Value	Description
AR	As Received
A40	Assisted dried < 40C
M	Analysis is MCERTS accredited
N	Analysis is not UKAS accredited

# Notes

Retained on 2mm is removed before analysis

# **Method Index**

Value	Description
T277	Grav (1 Dec) (40 C)
T7	Probe
T162	Grav (1 Dec) (105 C)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T2	Grav

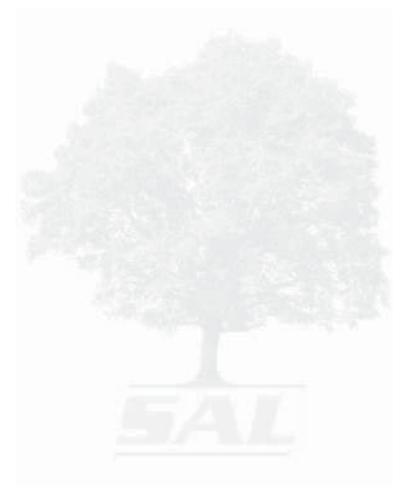
# **Accreditation Summary**

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	M	001-007
pH	T7	A40			М	001-007
Moisture	T277	AR	0.1	%	N	001-007
Moisture @ 105 C	T162	AR	0.1	%	N	001-007

Produced by Scientific Analysis Laboratories Ltd, 3 Crittall Drive, Springwood Industrial Estate, Braintree, Essex, CM7 2RT

Page 2 of 3

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Retained on 2mm	T2	A40	0.1	%	N	001-007



# APPENDIX D

Bomb Map



### Purple Damaged beyond repair

Dark Red Seriously damaged doubtful if repairable

### Light Red Seriously damaged but repairable at cost

Orange General blast damage - not structural

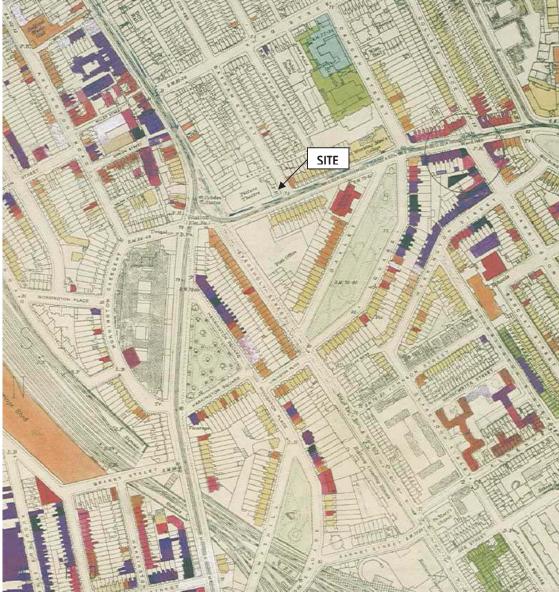
#### Yellow Blast damage, minor in nature

Light Blue Clearance areas

### Light Green Clearance







STL: J11708 Fig No: 3 Site: Hope and Anchor, 74 Crowndale Road, Camden Date: 26 March 2014 Bomb Map

Southern Testing: Keeble House, Stuart Way, East Grinstead, West Sussex RH19 40A ST Consult: Twigden Barns, Brixworth Road, Creaton, Northampton NN6 8NN



Southern Testing

# APPENDIX E

PDISP Output for heave displacements

Oasys
Hope and Anchor Public Ho
Undrained Displacements

Figure U1

Job No. Sheet No. Rev. J11708 Drg. Ref. Made by Checked Date 27-Mar-2014

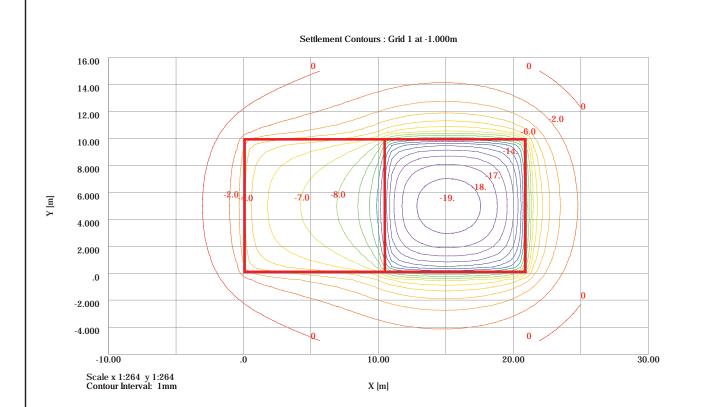
16.00 14.00 12.00		1			s : Grid 1 at -1.00	0m			
12.00									
							- 10		-
	í	1		-2.0			-1.0 -2.0		-
10.00						-8\			-
8.000 <u>E</u> 6.000						-10.			_
		-1.0	-3 0 -4	.0 -5.0		-11.			-
4.000									-
2.000									-
.0	1	1							-
-2.000									-
-4.000		1							-
	10.00		0	10.	.00	20.0	00	30	0.00
Con	le x 1:264 y 1:264 tour Interval: 1mm			ΧĮ	[m]				

Program Pdisp Version 19.2.0.11 Copyright © Oasys 1997-2012
S:\SI Data\Job\J11708 Camden\Undrained Displacements.pdd\Undrained Displacements.pdd

Page 1
Printed 02-Apr-2014 Time 15:20



Job No.	Sheet No.	Rev.		
J11708				
Drg. Ref.		-		
Made by	Date 27-Mar-2014	Checked		



Program Pdisp Version 19.2.0.11 Copyright © Oasys 1997-2012 S:\SI Data\Job\J11708 Camden\Drained Displacements.pdd\.pdd

Page 1
Printed 27-Mar-2014 Time 09:42