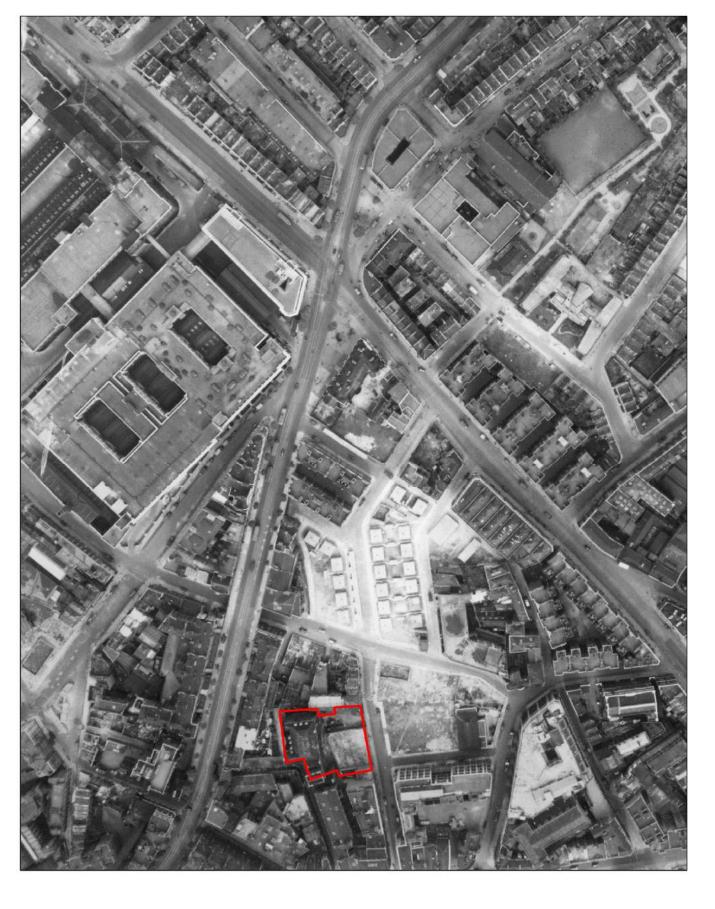
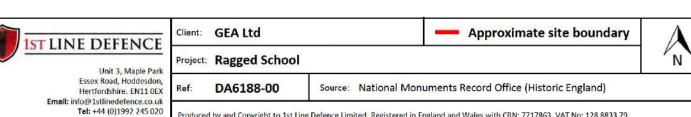


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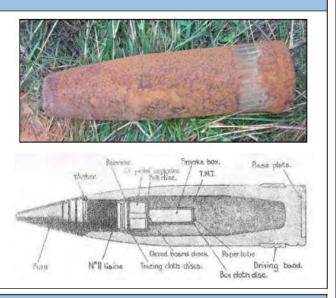
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Examples of Anti-Aircraft Projectiles

P

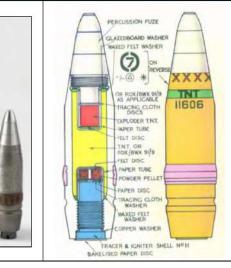
3.7 Inch QF Anti-Aircraft Projectile 28lb (12.6 kg) Projectile Weight Explosive Weight Fuze Type Mechanical Time Fuze Dimensions 3.7in x 14.7in (94mm x 360mm) Rate of Fire 10 to 20 rounds per minute Use The 3.7in AA Mks 1-3 were the standard Heavy Anti-Aircraft guns of the British Army. Ceiling 30,000ft to 59,000ft





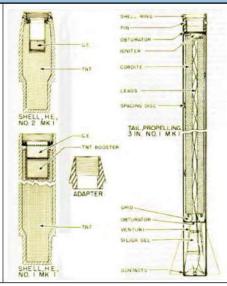
40mm Bofors Projectile 1.96lb (0.86kg) Weight Explosive 300g (0.6lb) Weight Fuze Type Impact Fuze Rate of Fire 120 rounds per minute Projectile 40 x 180mm Dimensions Ceiling 23,000ft (7000m) Remarks Light quick fire high explosive antiaircraft projectile. Each projectile fitted with small tracer element. If no target hit, shell would explode when tracer burnt out. Designed to engage aircraft flying below 2,000ft





3in Unrotated Projectile (UP) Anti-Aircraft Rocket ("Z" Battery) HE Projectile 3.4kg (7.6lb) Weight Explosive 0.96kg (2.13lb) Weight Filling High Explosive - TNT. Fitted with aerial burst fuzing Dimensions of 236 x 83mm (9.29 x 3.25in) projectile As a short range rocket-firing anti-Remarks aircraft weapon developed for the Royal Navy. It was used extensively by British ships during the early days of World War II. The UP was also used in ground-based single and 128-round launchers known as Z Batteries. Shell consists of a steel cylinder reduced in diameter at the base and threaded externally to screw into the shell ring of the rocket motor





	1ST LINE DEFENCE
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APPENDIX - PART 1B

Ground Investigation

Borchole Records

Trial Pit Records

SPT/Cohesion vs Depth plot

Geotechnical Laboratory Test Results

Chemical Analyses (Soil)

Generic Risk Based Screening Values

Site Plan

G GEA

25

Ref J18042 Issue No 3 7 November 2018

Cable Percussion		GEA			& Environment ury Hill Ware SG12 7QE		iates	The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	BH'	
Description Description	CONTRACTOR		20	0mm cas	ed to 17.00m	17.34.31.79			Numb	
Name Name			72.1 000		20.0011	21				
D1	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	d
3.92 9.70 Stiff becoming very stiff brown mottled grey and red slightly silty CLAY. Becoming multicoloured at a depth of 13.5 m. Remarks Service pit excvated to a depth of 1.2 m; 1 hour 30 minutes standing	.50	D2 D3 D4 SPT(C) N60=5 D5 D6 SPT(C) N60=5 D7 D8 SPT N60=9 D9 U10 D11 SPT N60=18 D12 D13 U14 D15 D16 SPT N60=32	2.00 3.00 4.00	DRY	1,0/1,1,1,1 1,1/2,1,2,2 20 blows 1,2/3,3,3,5	9.62 8.12	3.50 (0.50) 4.00 (1.50)	silt with fragments of ash, concrete, chalk, pottery, coal and brick) Soft greyish brown mottled dark grey very silty CLAY with occasional gravel of flint and rare pockets of organic material Soft becoming firm brown mottled dark grey slightly fissured very silty CLAY with abundant selenite crystals and occasional partings of fine sand. Firm becoming stiff fissured dark blueish grey very silty CLAY with with abundant selenite crystals and occasional partings of fine sand. Sand partings becoming more	xx	
3.92 9.70 Stiff becoming very stiff brown mottled grey and red slightly silty CLAY. Becoming multicoloured at a depth of 13.5 m. Remarks Service pit excvated to a depth of 1.2 m; 1 hour 30 minutes standing	.00	D18							x x x x x x x x x x x x x x x x x x x	
Remarks Service pit excvated to a depth of 1.2 m; 1 hour 30 minutes standing Scale (approx) RV	.50-9.95	U19			30 blows			Stiff becoming very stiff brown mottled grey and red slightly silty CLAY. Becoming multicoloured at a depth of 13.5 m.	x x	2000
1 hour 30 minutes standing for occupants to move cars	ervice pit ex	minated at a depth of	f 27.5 m c	n hard st	rata	1		Scale (approx)	Logge	ed

J18042.BH1

	ing Method Casing Diameter Die Percussion 200mm cased to 17.00m 150mm cased to 25.00m		г	Ground	Level (mOD)	-st and saves	Job Number	
	ssion	200 150	0mm cas 0mm cas	ed to 17.00m ed to 25.00m		13.62	Clerkenwell Lifestyle (UK) Ltd	Number J18042
		Locatio	n		Dates	//05/2018-	Engineer	Sheet
					23	3/05/2018	Heyne Tillett Steel	2/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
10.00	D20						Occasionally thinly laminated partings of fine sand from a depth of 16.0 m.	××
10.50	D21					E E		xx
11.00-11.45 11.00-11.50	SPT N60=40 D22	6.00	DRY	3,5/7,7,8,8		لالمتعلمات أداما		××
11.50	D23							× × ×
12.00	D24							××
12.50-12.95	U25			21/05/2018:DRY		(7.00)		××
12.50-12.95	U26			22/05/2018:DRY 50 blows		(7.00)		xx
13.50	D27					(7.50)		x x x x x x x x x x x x x x x x x x x
14.00-14.45	SPT N60=67	6.00	DRY	4,7/10,12,13,16				хх
14.00-14.50	D28							×x
15.00	D29					receptore		× × ×
15.00-15.50	U29			80 blows				××
16.00	D30							××
16.50	D31							xx
		47.00		25/52	-3.08	16.70	Very dense cemented brown SAND with fine gravel sized fragments of cemented sand	
17.00-17.05 17.00-17.50	SPT(C) 25*/30 50/15 D32	17.00		25/50	-3.88	(0.80)		
					-0.00	17.50	Very dense dark grey mottled brown very clayey very silty fine to medium SAND with abundant partings of greyish brown clay. Becoming fine to medium sand with rare fine gravel of lignite and cemented sand fragments from a depth	
18.00 18.00-18.45	D34 D33						of 20.0 m.	
18.50-18.95	SPT N60=59	17.00		5,7/9,10,10,16				
19.50	D35							
		47.00		6 9/44 44 47 00		Ē		<u></u> -
20.00-20.45 Remarks	SPT N60=82	17.00		6,8/11,14,17,20			Scale	Logged
Service pit e: Borehole terr 1 hour 30 mi	xcvated to a depth ominated at a depth of nutes standing for o	of 27.5 m o	n hard st	rata			(approx)	Logged By
Standpipe in:	stalled to a depth of	7.0 m		er added from 17.00n	1.		1:50	JD

Boring Metho	GEA	Widbury I		& Environment ury Hill Ware SG12 7QE	Tae :s	Level (mOD)	The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ Client	Number BH1
Cable Percus		200	0mm cas	ed to 17.00m ed to 25.00m	Control of the Contro	13.62	Clerkenwell Lifestyle (UK) Ltd	Number J18042
		Locatio	n)			1/05/2018- 3/05/2018	Engineer House Tillett Steel	Sheet 3/3
Lancing T			Tau anno 11			n was write and	Heyne Tillett Steel	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	(mOD)	Depth (m) (Thickness)	Description	Legend
0.00-20.45	D36					(5.20)		
1.00	D37							
21.50-21.95 11.50-21.95	SPT N60=125 D38	17.00		8,12/17,21,27,30		المساملين		
2.50	D39				-9.08	22.70	Very stiff occasionally friable brownish mottled grey silty	×
3.00-23.45 3.00-23.45	SPT(C) N60=76 B40	22.00		1,10/12,14,15,17		(1.20)	CLÁY with occasional bands of siltstone	x x x x x x x x x x x x x x x x x x x
4.00	D41				-10.28	23.90	Very dense cemented very clayey medium SAND with abundant fine to coarse rounded gravel of mottled red claystone	
4.50	D42			22/05/2018:				
4.50-24.58	SPT(C) 25*/45 50/30	23.00		23/05/2018: 25/50				
5.50	D43					(3.60)		
6.00-26.27 6.00	SPT(C) 50/120 D44	23.00		10,15/50				
7.00-27.21 7.00-27.45	SPT(C) 50/60 D45	23.00		5,20/50				
				23/05/2018:	-13.88	27.50	Complete at 27.50m	
Remarks ervice pit ex	cvated to a depth o	f 1.2 m: 1	hour 30 i	minutes standing		=	Scale (approx)	Logged By
hour 30 min	ninated at a depth of outes standing for or stalled to a depth of	ccupants t 7.0 m	o move o	ars			1:50	JD
.50m. Wate	m 24.20m to 24.50n er added from 27.50	n tor 1 hou m.	ur. Chisel	ling from 26.00m to 2	1.50m for	o nours. Wate	er added from 23.90m. Water added from Figure J180	

C	GEA			& Environment ury Hill Ware SG12 7QE		ciates	The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	Number BH2
Boring Meth Cable Percus		Company of the second	Diameter 0mm case	ed to 7.60m	Contract of the Contract of th	Level (mOD) 13.44	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Locatio	n		Dates 22	2/05/2018	Engineer	Sheet
-					1.000		Heyne Tillett Steel	1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	(mOD)	Depth (m) (Thickness)	Description	Legend
0.30	D						Made ground (tarmac over dark brown silty clayey sand with fragments of ash, concrete, coal, masonry and brick)	
1.20-1.65 1.20	SPT(C) N60=9 B			2,1/3,2,2,1				
1.75	D					E		
2.00-2.45 2.00	SPT(C) N60=6 D	2.00		1,0/1,1,2,1		(5.00)		
2.75	D							
3.00-3.45 3.00-3.45	SPT(C) N60=1 D	3.00		1,0/0,1,0,0				
3.75 3.75 4.00-4.45 4.00-4.45	D D SPT(C) N60=1 D	4.00		1,0/0,0,0,1		(5.00)		
4.75	D							
5.00-5.45 5.00-5.45 5.00-5.95	SPT(C) N60=4 D D	5.00		1,1/1,0,2,1	8.44	5.00	Soft to firm dark brownish grey very sandy very clayey slightly gravelly SILT with fragments of brick, flint, bone and pottery and rare pockets of organic content.	N
6.00	D							* × × × × × × × × × × × × × × × × × × ×
0.00						(2.50)		X X X X X X X X X X X X X X X X X X X
6.50-6.95	D							N N N N N N N N N N N N N N N N N N N
7.50	D				5.94	7.50	Firm grey mottled brown very silty CLAY with abundant layers of fine sand and rare angular flint gravel.	хх
8.00-8.45	U			30 blows	5.44	(0.50)	Firm becoming stiff slightly fissured greyish brown silty slightly sandy CLAY with abundant selenite crystals and occasional pockets of fine to medium sand.	X X X
9.00	D					(2.10)		X X X X X X X X X X X X X X X X X X X
9.50-9.95 9.50-9.95	SPT N60=31 D	7.60		3,5/6,7,7,8				× × × ×
Remarks Service pit ex Groundwater	xcavated to a depth	of 1.2 m:	1 hour 30	minutes standing tin	ne		Scale (approx)	Logged By
1 hour standi Standpipe in	ing for UXO testing stalled to a depth of	7.5 m					1:50	JD
							Figure	No. 042.BH2

S	GEA			& Environment pury Hill Ware SG12 7QE		iates	Site The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	Borehole Number BH2
Boring Metho Cable Percus		Casing 150		r ed to 7.60m	TO SHOW WAY	Level (mOD) 13.44	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Location	n		Dates 22	/05/2018	Engineer Heyne Tillett Steel	Sheet 2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
10.50	D				3.34	10.10	Firm becoming stiff brown mottled grey and red slightly silty CLAY. Becoming multicoloured and stiff at a depth of 14.5 m.	x x
11.00-11.45	U			60 blows				× × × × × × × × × × × × × × × × × × ×
12.00	D							× × × × × ×
12.50-12.95 12.50-12.95	SPT N60=33 D	7.60		1,5/7,7,7,9		(4.90)		xx
13.50	D					(4.90)		X X X X X X X X X X X X X X X X X X X
14.55-15.00 14.55-15.00	SPT N60=40 D	7.60		4,6/7,8,10,11 22/05/2018:DRY	-1.56	15.00		xx
					-		Complete at 15.00m	
				5 5				
Remarks						<u> </u>	Scale (approx)	Logged By
							1:50	JD
							Figure I	No. 042. <mark>B</mark> H2

U	GEA	Widbury	Barn Widb	& Environment ury Hill Ware SG12 7QE		us sees		The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	BH3
Boring Meth Cable Percus		20	0mm cas	r ed to 18.00m ed to 27.00m ed to 35.00m	Ground	13.41	mOD)	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Locatio	n x			9/05/201 1/06/201		Engineer Heyne Tillett Steel	Sheet 1/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Der (m (Thick	oth i) ness)	Description	Legend
1.20-1.65	SPT(C) N60=5		DRY	1,0/1,1,1,1		(Made ground (tarmac over grey silty sand clay with fragments of brick, coal, ash and concrete).	
1.20-1.60	B D								
2.00-2.45 2.00-2.45	SPT(C) N60=7 B		DRY	1,0/1,1,1,2			4.00)		
2.75 3.00-3.45 3.00-3.45	D SPT(C) N60=9 B	3.00	DRY	1,1/1,2,2,2					
3.75	D					-			
4.00-4.45	SPT(C) N60=13	4.00	DRY	1,1/2,2,3,3	9.41		4.00	Soft greyish brown mottled dark grey very silty sandy CLAY with occasional flint gravel and rare pockets of organic content and brick fragments	*
4.45	В					= (1.00)		××
4.75	D				1000000	E	152 520 5111		*
5. <mark>0</mark> 0-5.45	U			20 blows	8.41		5.00	Firm grey mottled orange-brown slightly fissured very silty CLAY with abundant selenite crystals and occasional partings of fine sand <10 mm in thickness. Sand partings become more frequent and >20 mm thickness from a depth	*x
5.50	D							of 8.0 m.	xx
6.00	D								××
6.50-6.95 6.50-6.95 6.50-6.95	SPT N60=21 D U	6.00	DRY	1,2/3,3,4,6 25 blows	3.51				X
7.50	D						4.90)		xx
8.00-8.45	U								××
8.50	D								××
9.00	D								××
9.50-9.95 9.50-9.95	SPT N60=33 D	6.00	DRY	3,4/5,6,7,7	31205 2272				××
1 <u>20</u> 42				X	3.51	E_	9.90	1 == =	×
Groundwater 5 hours stand	not encountered	k of spoil		minutes standing tir	ne			Scale (approx)	Logged By
1 hours stand	ding to wait for tenar	nt car to b	e cleared					1:50	JD
								Figure N	lo. 142.BH3

	GEA	Widbury I	Barn Widb	& Environmenta oury Hill Ware SG12 7QE			The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	BH3
Soring Metho Cable Percus		20	0mm cas	r ed to 18.00m ed to 27.00m ed to 35.00m		Level (mOD) 13.41	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J1804
		Locatio	n	60 1 (Stanova Affector (1) 4 o 10 (1) (1)	Dates	0/05/2018-	Engineer	Sheet
						/06/2018	Heyne Tillett Steel	2/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
						Ē	Stiff becoming very stiff slightly fissured pale blueish grey mottled brown silty CLAY. Becoming multicoloured from a depth of 12.0 m.	×x
0.50	D					E E	departer rate in	xx
1.00-11.45	U			30 blows				
.50	D					E E		x x
2.00	D					(5.10)		×x
2.50-12.95 2.50-12.95	SPT N60=40 D	6.00	DRY	3,4/6,7,8,9		(5.10)		xx
								xx
						Ē		xx
								xx
.50	D							×x
i.00	D				-1.59	15.00	very stiff pale grey very slity sandy CLAY with occasional	××
5.50-15.95	D						partings of sand	к
				29/05/2018:DRY		(1.50)		*
5.50	D			30/05/2018:15.90m	-3.09	16.50	very dense pale grey very slity very clayey fine to medium	*
2.00-17.45	SPT N60=86	6.00	DAMP	5,10/12,15,17,21			SAÑD	
7.00-17.45	D					(1.50)		
3.00	D				-4.59	18.00	Very dense dark grev mottled brown very clavey very silty	
3.00-18.95 3.50-18.95	B SPT N60=53	18.00	ADD	4,6/8,10,11,11		Ē	Very dense dark grey mottled brown very clayey very silty fine to medium SAND	
	30 1.105.51			3.000		Ē Ē		
0.50	D					(2.50)		
0.00-20.45	SPT N60=57	20.00	ADD	5,7/10,11,10,12		Ē		
Remarks	5. 1.1100-01	25.00	. 100	5,1110,112			Scale (approx)	Logged
							1:50	JD
							Figure	1355

S	GEA			ll & Environmenta oury Hill Ware SG12 7QE	al Assoc	iates	Site The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	Borehole Number BH3
Boring Metho Cable Percus		20	0mm cas	r ed to 18.00m ed to 27.00m ed to 35.00m	Contrasting to	Level (mOD) 13.41	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Locatio	n			9/05/2018- 1/06/2018	Engineer Heyne Tillett Steel	Sheet 3/4
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
20.00-20.45	D				-7.09	20.50	Very stiff occasionally fissured multicoloured silty sandy CLAY with occasional claystone fragments	* — d
21.50-21.95 21.50-21.95	D SPT(C) N60=65 B	20.00	ADD	6,9/10,12,13,14		(2.00)		* * * * * * * * * * * * * * * * * * *
22.50	D				-9.09	22.50	Very dense cemented multicoloured clayey sandy GRAVEL	X X X
23.00-23.45	В					(1.50)		9
24.00 24.00-24.95 24.50-24.95	D B SPT(C) N60=99	23.00	ADD	8,11/14,17,20,24	-10.59	E	Very stiff slightly fissured multicoloured very silty very sandy gravelly CLAY with abundant partings of fine to medium sand. Gravel is of claystone.	×
25.00	D	20.00	700	0,11114,17,20,24		(2.00)		X X X X X X X X X X X X X X X X X X X
26.00-26.50 26.00-26.45	D SPT(C) N60=76	26.00	ADD	30/05/2018:25.90m 31/05/2018:25.90m 5,8/11,13,15,19	-12.59		Very stiff greenish grey very sandy very gravelly CLAY. Gravel is rounded and of flint.	X
27.00	D					(1.50)		× × ×
27.45-27.95 27.50-27.95	D SPT(C) N60=84	26.00	DAMP	5,10/12,15,17,20	-14.09	27.50	Very dense slightly cemented grey fine to medium silty SAND	
28.50	D					E_ E_ E_		X
29.00-29.45 29.00-29.50	SPT N60=79 D	27.00	ADD	5,10/15,45				
Remarks Chiselling from Water added	m 23.00m to 23.50n from 26.00m to 35.	n for 1 hr:	30 min ho	our. Chiselling from 26	3.50m to 2		ours. Water added from 23.00m to 26.00m. Scale (approx)	Logged By
							1:50	JD
							Figure J18	No. 042.BH3

S	GEA	Geote	echnica Barn Widb	& Environmenta oury Hill Ware SG12 7QE	al Assoc	iates	The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	Numb BH:	er
Soring Meth		Casing 25 20 15	Diamete 0mm cas 0mm cas 0mm cas	r ed to 18.00m ed to 27.00m ed to 35.00m	Decision of the Contract of th	Level (mOD) 13.41	Client Clerkenwell Lifestyle (UK) Ltd	Job Numb	
		Locatio		94 10 95199111	Dates 29 01	0/05/2018- 1/06/2018	Engineer Heyne Tillett Steel	Sheet	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00 0.50-30.71 0.50-30.95 2.00-32.23 2.00-32.50 3.50-33.65 3.50-33.95	D SPT(C) 25*/120 50/90 SPT(C) 50/75 D D SPT(C) 25*/75 50/75 D	27.50 27.50	ADD	25/50 25/50	-21.59	(7.50)			
5.00-35.45 5.00-35.35	D SPT(C) 25*/120 50/225	34.00	ADD	31/05/2018:34.99m 25/50			Complete at 35.00m		
Remarks		1	l	<u> </u>	l		Scale (approx)	Logge By	ed
							1:50	JD	
							Figure J18	No. 042. <mark>B</mark> H3	

-	GEA	Geotech	nnical & Environme	ntal Assoc	iates	Site	Number
	GLA		Widbury Hill Ware SG12 7			The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	BH4
Excavation Drive-in Wir	Method ndow Sampler	Dimension	s	Ground	Level (mOD)	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Location		Dates 12	2/05/2018	Engineer Heyne Tillett Steel	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend la
					2.80 (2.80)	Made ground (Concrete screed over dark brown silty sandy gravelly clay with fragments of brick, flint, coal, ash, shell, glass, chalk, charcoal and clinker) Soft to firm orange-brown mottled grey very silty sandy CLAY with rare gravel of flint Soft to firm grey occasionally fissured very silty sandy CLAY with occasional selenite crystals and rare partings of fine sand Complete at 5.40m	<u>マデカ</u> 第一名 第一名
Remarks Borehole ad Groundwate	vanced through baser not encountered	e of Trial Pit N	No 10	· · · · · · · · · · · · · · · · · · ·	di	Scale (approx)	Logged By
Groundwate	inot encountered					1:50	JD
						Figure i180	No. 042.BH4
						1100	20000000000000

		n:	_			01:1	200	_
Excavation Window San		Dimension	is	Ground	Level (mOD)	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042	
		Location As pe	r separate plan	Dates 12	2/05/2018	Engineer Heyne Tillett Steel	Sheet 1/1	_
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
2.60					(9.13) (0.27) 0.40 (4.10) (4.10) (4.50 (0.90) 5.40 (0.60) 6.00	MADE GROUND (concrete screed over rough concrete between 100 mm and 130 mm thick. No reinforcement) MADE GROUND (brown and light grey sand and gravel of compacted concrete and brick fill) MADE GROUND (dark brown sandy gravelly clay with flint gravel and fragments of coal and ash, frequent fragments of brick and occasional concrete. Clayey with fragments of slate and burnt brick from 2.5 m to 2.7 m. Becoming silty from 4.4 m) Dark brown and black silty CLAY with occasional fine sand and medium subangular gravel Soft dark grey slightly silty CLAY. Rare medium subangular gravel at 5.5 m. Becoming brown mottled grey from 5.7 m Complete at 6.00m		
Remarks						Scale (approx)	Logged	
						1:50	КМ	
						Figure	4.53	

Site

C	GEA		nnical & Environme		iates	Site The Former Ragged School, 15-29 Eyre Street Hill, London	Number BH6
Excavation Window San		Dimension		Tipe on	Level (mOD)	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Location As pe	r separate plan	Dates 12	/05/2018	Engineer Heyne Tillett Steel	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend base
					(0.20) (0.37)	MADE GROUND (frown and light grey sand and gravel of compacted concrete and brick fill) MADE GROUND (dark brown sandy gravelly clay with flint gravel and fragments of coal and ash, frequent fragments of brick including half bricks and occasional slate and concrete. Becoming grey mottled brown from 1.0 m. Poor sample recovery) MADE GROUND (brown silty sand and gravel with frequent fragments of brick, occasional grey clay and rare fragments of glass and ceramic. Damp with fine to medium rounded flint gravel from approximately 4.0 m. Poor sample recovery) Complete at 5.10m	
Remarks Borehole ter Borehole dri	minated on refusal, wen through base of	Collapsed on Trial Pit No 9	withdrawal of rods to 3. Refer also to trial pit lo	50 m. Backfill g.		1:50 Figure	КМ

GEA

Sample / Tests

D1

D2

Excavation Method

Window Sampler

0.90

2.60

Geotechnical & Environmental Associates

Ground Level (mOD) Client

Depth (m) (Thickness)

(0.13) (0.27) 0.40

(4.10)

(0.90)

Dates 12/05/2018

Level (mOD)

Widbury Barn | Widbury Hill | Ware | SG12 7QE

As per separate plan

Field Records

Dimensions

Location

Number

BH8

Job Number

J18042

1/1

Legend by

Logged By

KM

Figure No. J18042.BH8

Sheet

The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ

Description

MADE GROUND (concrete screed over rough concrete between 100 mm and 130 mm thick. No reinforcement)

MADE GROUND (brown and light grey sand and gravel of compacted concrete and brick fill)

MADE GROUND (dark brown sandy gravelly clay with flint gravel and fragments of coal and ash, frequent fragments of brick and occasional concrete. Clayey with fragments of slate and burnt brick from 2.5 m to 2.7 m. Becoming silty from 4.4 m)

Dark brown and black silty CLAY with occasional fine sand

and medium subangular gravel

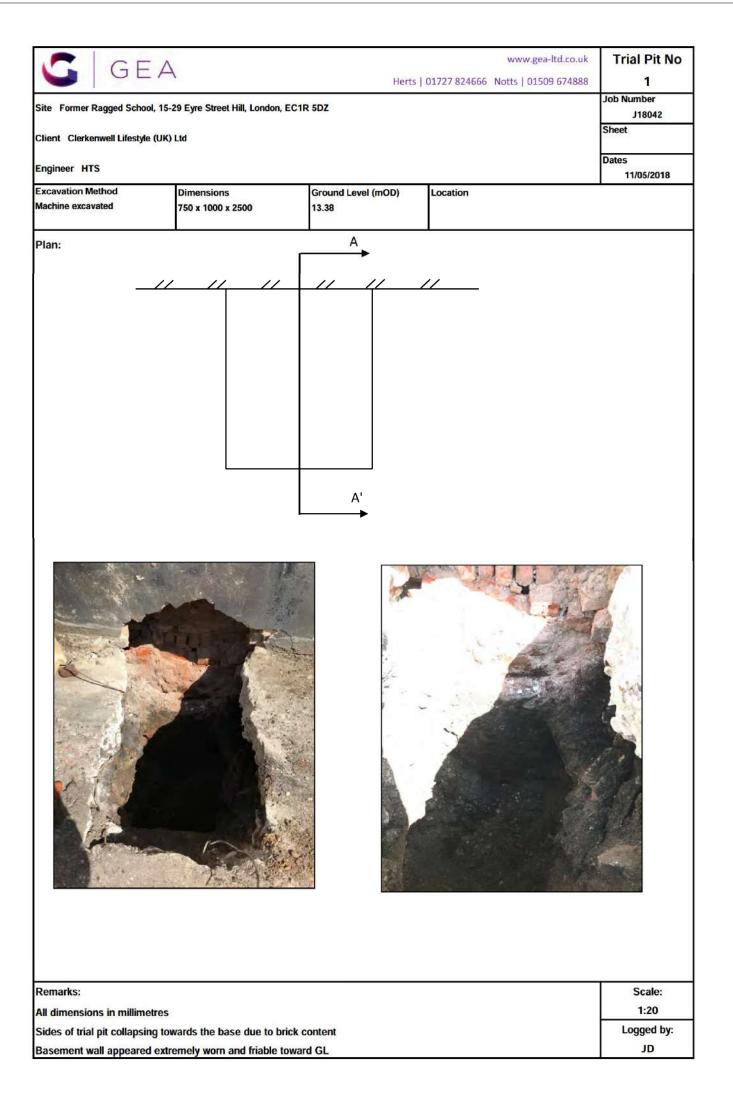
Clerkenwell Lifestyle (UK) Ltd

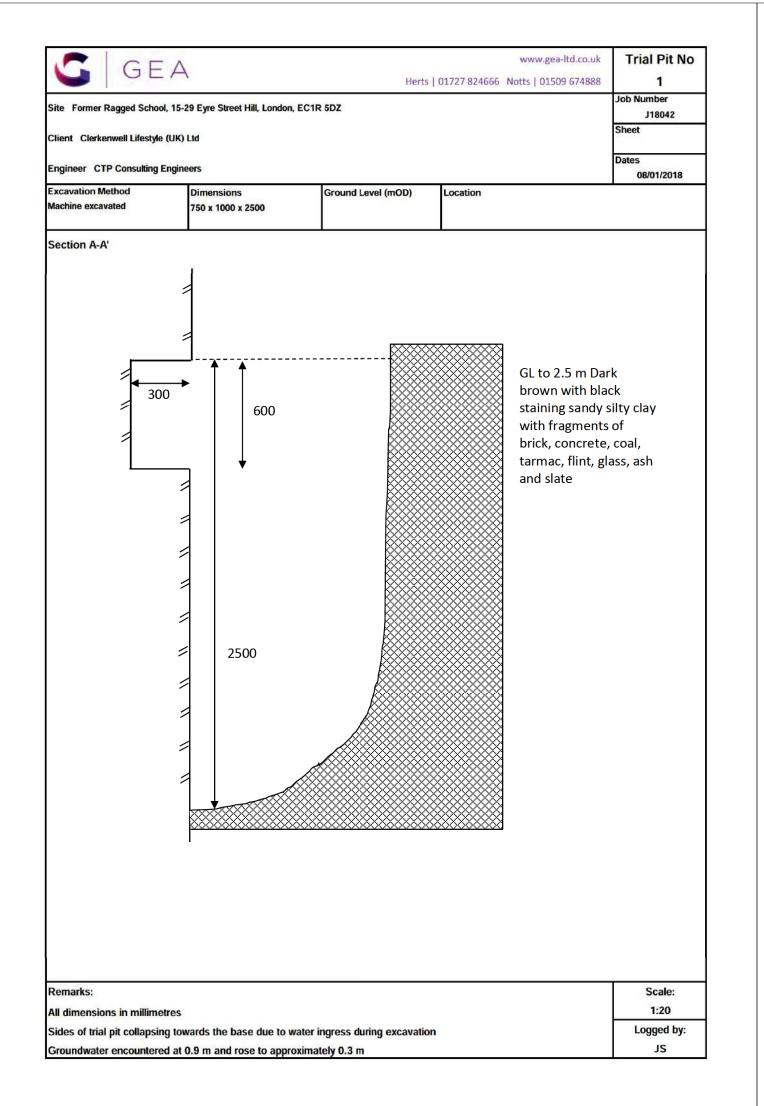
Engineer

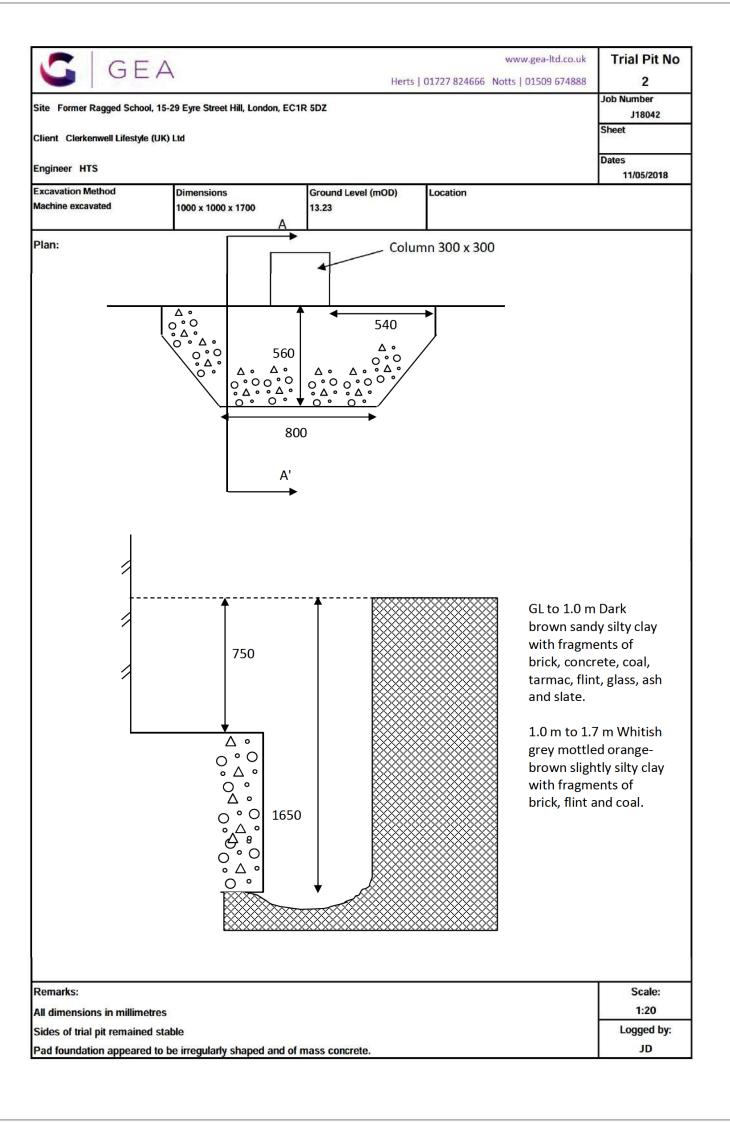
Heyne Tillett Steel

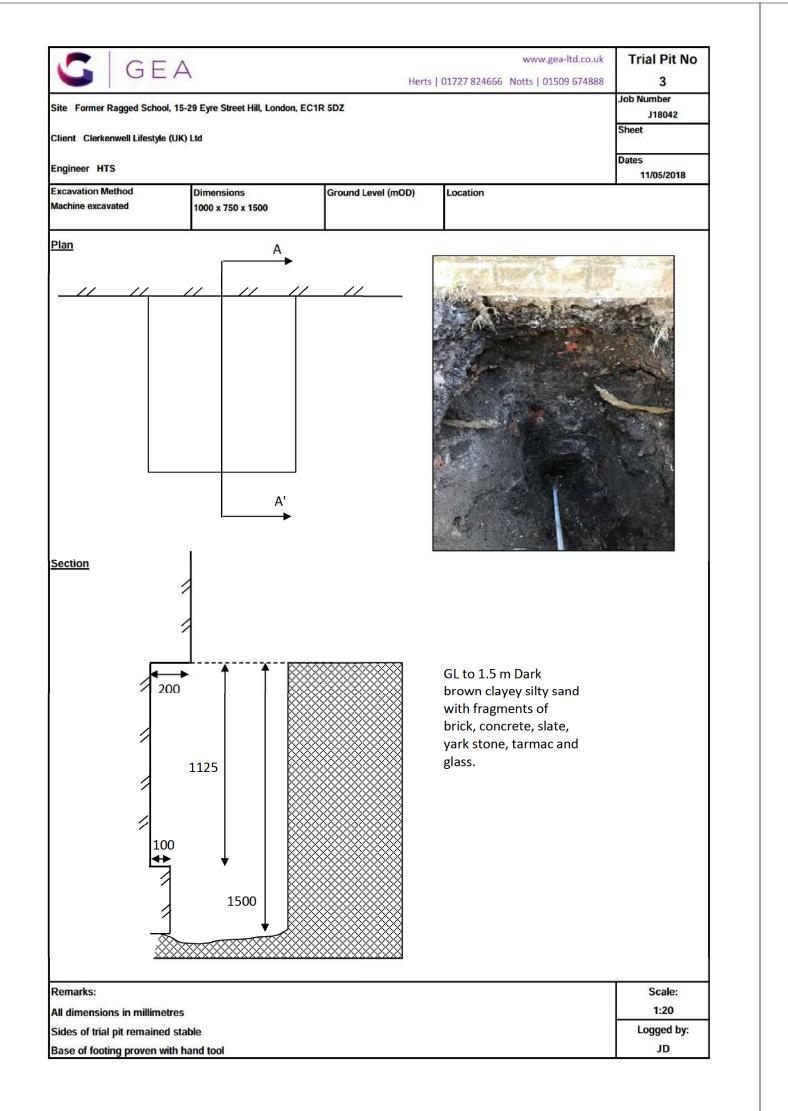
S	GEA		nnical & Environme		iates	Site The Former Ragged School, 15-29 Eyre Street Hill, London EC1R 5DZ	Number BH9
Excavation Window Sar		Dimension	s	Ground	Level (mOD)	Client Clerkenwell Lifestyle (UK) Ltd	Job Number J18042
		Location As pe	r separate plan	Dates 12	2/05/2018	Engineer Heyne Tillett Steel	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
					(2.63) (2.63) (2.10) (2.10)	MADE GROUND (brown and light grey sand and gravel of compacted concrete and brick fill) MADE GROUND (dark brown sandy gravelly clay with flint gravel and fragments of coal and ash, frequent fragments of brick including half bricks and occasional slate and concrete. Becoming grey mottled brown from 1.0 m. Poor sample recovery) MADE GROUND (brown silty sand and gravel with frequent fragments of brick, occasional grey clay and rare fragments of glass and ceramic. Damp with fine to medium rounded flint gravel from approximately 4.0 m. Poor sample recovery. Complete at 5.10m	
Remarks Borehole ter Borehole dri	rminated on refusal. (iven through base of	Collapsed on Trial Pit No 9	withdrawal of rods to 3.5 Refer also to trial pit lo	50 m. Backfille g.		s on completion. Scale (approx	Logged By
						1:50 Figure	KM No.
							042.BH9

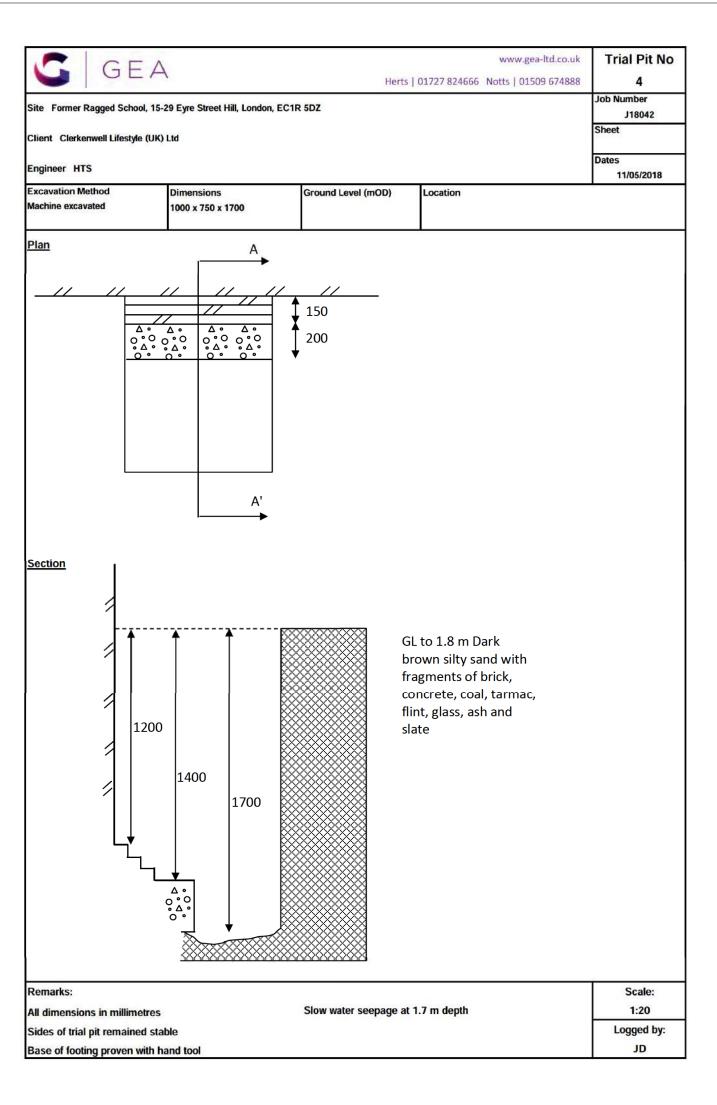
Produced by the GEOtechnical DAtabase SYstem (GEODASY) (C) all rights reserved

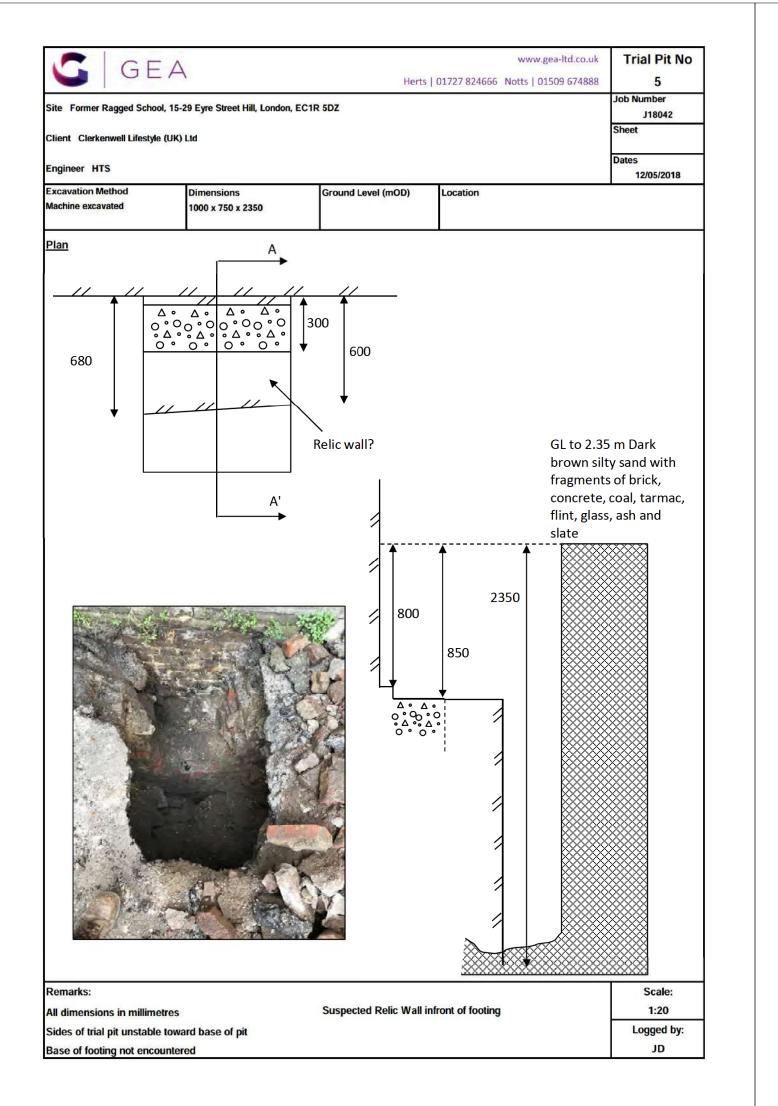


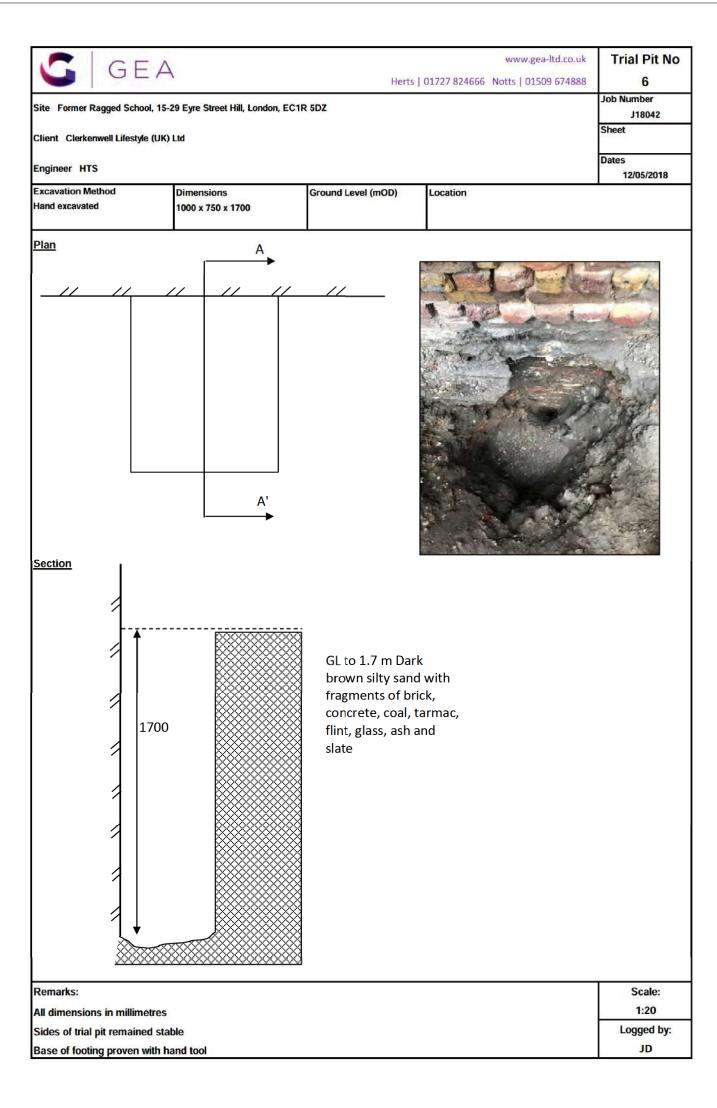


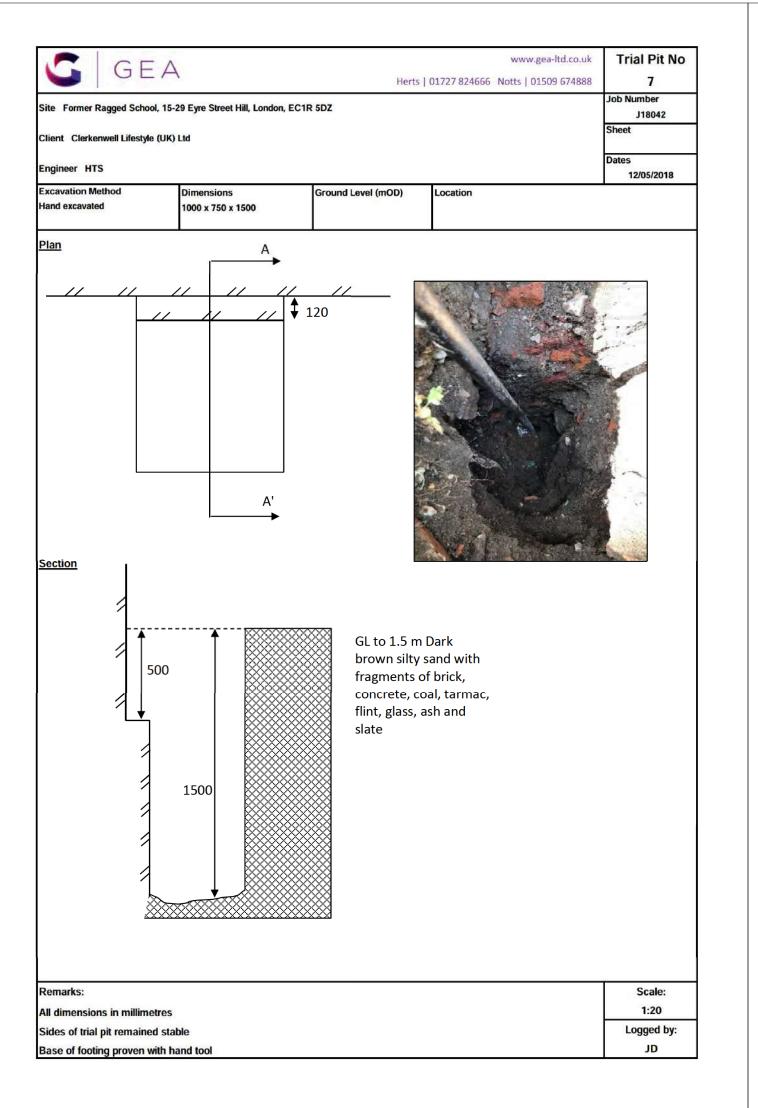












		The Former Ragged EC1R 5DZ	School, 15-2	9 Eyre Street Hill	, London,					Job Number
nt		Clerkenwell Lifestyle	(UK) Ltd							J17017A
inee		нтѕ	(0.0, 1.0							Sheet 1 / 1
mee										<u> </u>
					(Cohesion kN/m	2			
0	0	50	100	150	200	250	300	350	400	450
		++ +			37 .4					
	-	+								-
	+	+								
5	+	+	+							
	-	•	+							_
	-		т.							-
				+						
10	_			+						_
	-				+					-
				+	+					
							+			
15				+			·			-
-	2									
Deput (m)									+	1
Ce	£.					+ +				_
20	-					+		4	-	-
							+			
	-							+		-
	_									+
25										'-
								+		1
									+	
•	-							+		-
30										
	-						+			
0-	-		2_7/_X_W ***			<u> </u>		<u> 13</u> 31 32 00 00	2 TA 2 2 A A A A A A A A A A A A A A A A	
35	0	10	20	30	40	50 60	70	80	90	100

SUMMARY OF GEOTECHNICAL TESTING

		_			k	k						
	Other tests and comments							Particle Size Distribution		Particle Size Distribution		
sts	W/S	(mg/L)	el								1	
Chemical Tests	2:1 W/S SO4	(g/L)	0.04	et i	20	0:30					0.01	
ð	표		7.9			8.4					8.5	
ession	Shear	kPa		53	69	125	191					107
axial Compr	Deviator	kPa	-	105	138	250	381				,	215
Undrained Triaxial Compression	Cell	kPa		80	130	190	250					160
5	notibne	00		bedrutsibnU	Und <mark>i</mark> sturbed	DechutsibnU	bedrutsibnU					bedrutsibnU
Density Tests	Dry	Mg/m³		1.38	1.46	1.65	1.71					1.64
Density	Bolk	Mg/m²		1.94	1.94	2.04	2.11					2.01
	425 Jm	(%)		66		86	100		98			66
Tests	ā	(%)		35		37	42		31			37
Classification Tests	4	(%)		24	8	21	27		20			22
Class	4	(%)		59		58	69		51			29
	wc	(%)		38.4	32.6	23.8	23.1		26.0			22.5
etails	Description			Stiff fissured multicoloured silty CLAY.	Firm dark grey CLAY.	Very siff fissured dark brown silty CLAY.	Very stiff fissured brown mottled grey CLAY.	Brownish grey clayey silty SAND.	Yellowish brown mottled dark brown and light gray CLAY with rare fine gravel.	Greenish grey clayey sandy GRAVEL.		Very siff fissured dark brown silty CLAY.
Sample details	Type		۵	ם	n	n	ם	۵	В	D	O	ם
exten and	Depth (m)		2.00	4.00	6.50	9.50	12.50	18.00	23.00	25.50	3.75	8.00
	Sample Ref	3										
	Borehole / Trial Pit		BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH2	BH2

Project Number:

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042

GEOLABS "

Page 1 of 3 (Ref 1530271710)

Test Report By GEOLABS Limited Buc Client : Geotechnical & Environmental Asso

SUMMARY OF GEOTECHNICAL TESTING

	Other tests and comments							Particle Size Distribution		Particle Size Distribution	Particle Size Distribution	Particle Size Distribution
ts	W/S Mg	(mg/L)										
emical Tes	2:1 W/S SO4	(a/L)										
Che	Æ							_				
ression	Shear	kPa	120	8	96	99	245					
Triaxial Comp	Deviator	kPa	241	69	191	132	491					
Undrained	Cell	kPa	220	100	160	220	130					
	notibnoc)	Undisturbed	Dechutalibn U	Undisturbed	Undisturbed	DednutsibnU					
y Tests	Dry	Mg/m³	1.73	1.36	1.53	1.55	1.77					
Densit	Bulk	Mg/m³	2.10	1.86	1.99	2.00	2.13					
ts.		(%)	100	35					100			
n Tes		_	36						28			
ification			24		4				21			
Class	di diamento di		09	D:	<i>y;</i>	7			49			
	wc	(%)	21.8	37.0	30.0	29.2	20.5		17.2			
tails	Description		Very stiff fissured brown mottled grey CLAY.	Soft dark grey mottled brown CLAY.	Firm dark brown mottled dark grey CLAY.	Firm brown mottled grey CLAY.	Firm brown mottled grey CLAY.	Light brownish grey clayey slity SAND.	Yellowish brown and light grey CLAY.	Multicoloured clayey silty SAND and GRAVEL.	Dark bluish grey slightly gravelly sandy CLAY.	Grey silty SAND.
Sample de	Type		ם	כ	n	ם	ם	۵	Q	Q	٥	Q
	Depth (m)		11.00	2.00	8.00	11.00	14.00	15.50	21.00	24.00	27.00	30.50
	Sample Ref											
	Borehole / Trial Pit		BH2	BH3	ВНЗ	ВНЗ	ВНЗ	ВНЗ	ВНЗ	ВНЗ	ВНЗ	ВНЗ
	Sample details Classification Tests Density Tests Undrained Triaxial Compression Chemical Tests	Sample Ref (m) Type Description (m) Type Descriptio	Sample Ref (m) Type Description (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	Sample Ref	Sample Ref	Sample Ref	Sample Ref (m) Type Description Class (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	Sample Ref Dueph Type Duescription Type Duescription Dueph Type Duescription Type Duescription Type Dueph Type T	Sample Ref	Sumple Right	Sumple Red Depth Type Description Type Ty	Sample Red Diagril Type Description Type Type

imple type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Project Number:

5 Burke

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042

GEOLABS

SUMMARY OF GEOTECHNICAL TESTING

Survive Net Outstand Treats Outstand Treat																
35.00 D Dark gray Calegos SAND. 1988 1984 19				Sample	etails	Classification Tests	Density 7	ests	Undraine	ed Triaxial Co	mpression	Ü	hemical Te	sts		
D Dark growy SAND.	ā	e Ref	Depth (m)	Type	Description	LL PL PI (%) (%)	Bulk Mg/m³					五	2:1 W/S SO4 (g/L)	W/S Mg (mg/L)	Other tests and comments	
	H		35.00	٥	Dark grey clayey SAND.					-					Particle Size Distribution	
	1								1:				20	(1)		
	1															
		V.														

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

BH / TP No. Depth (m) Sample Type BH1 18.00 D

Description

Brownish grey clayey silty SAND.

BS EN ISO 17892-4: 2016: Clause 5.2 - Wet Sieve

Sieve	е		CLAY		SII	LT					SA	ND					(GRAVE	EL			COBBLES
Size	% Pass		ر ا	Fine	Med	ium	Coarse	е	Fin	ne	Medi	um	Co	arse	F	ine		Medium	С	oarse		8
200.0 mm	100		0.002	mm (0.0063 mm	0.02 m	nm	0.063 n	nm	0.2 n	nm	0.63	mm	2 r	nm	6	.3 mm	. :	 20 mm		63 m	m
125.0 mm	100	100							Ш		-	* 1	Ш	•		\top	1	1	*			
90.0 mm	100									1												
75.0 mm	100	90						Ш	Ш			Ш	Ш				T					Ħ
63.0 mm	100	00																				
50.0 mm	100	80								7												\prod
37.5 mm	100	70																				
28.0 mm	100																					П
20.0 mm	100	ssing 60							$\square /$													
14.0 mm	100	Percentage Passing							11/													
10.0 mm	100	ntage 05						Ш				Ш	Ш				Ш					Щ
6.30 mm	100) cen																				
5.00 mm	100	Бе 40							$/\!\!\perp$								Ш					Щ
3.35 mm	100								/													
2.00 mm	100	30						$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$									Ш					Ш
1.18 mm	99							4														
600 µm	99	20															Ш					#
425 µm	99																					
300 µm	99	10															1					#
212 µm	94																					
150 µm	76	0													Ш							
63 µm	27	0.0	001		0.0	1			0.1				1					10				10

Particle Size (mm)

Particle P	roportions
Cobbles	0
Gravel	0
Sand	72
Silt & Clay	28

roject Name:

Project Number:

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042

GEOLABS

Test Report By GEOLABS Limited Client : Geotechnical & Environmental Associates Limited, Widbury Barn, Widbury Hill, Ware, Hertfordshire, SG12 7QE

PARTICLE SIZE DISTRIBUTION

BH / TP No. Depth (m) Sample Type

BH1

D

25.50

Description

Greenish grey clayey sandy GRAVEL.

Insuffcient sample supplied to comply with BS EN ISO 17892-4 : 2016 minimum

BS EN ISO 17892-4: 2016: Clause 5.2 - Wet Sieve

		I .	DO 1		,	,,,	92-4	. 20	10.		laa	00 0.	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 01	CVC									
Siev	e		CLAY			5	SILT						S	AND)					G	RA\	/EL			
Size	% Pass		C	Fin	е	М	ledium	Co	arse		F	ine	Ме	dium		Coarse)	Fin	ie	N	1ediur	m	Coa	ırse	
200.0 mm	100		0.002	mm	0.006	3 mm	0.0	2 mm	0.	 063 r	nm	0.2	mm	0.	63 mr	n	2 mn	n	6.3	 3 mm		20 m	m		63
125.0 mm	100	100								П	Ш			П	П									/	Π
90.0 mm	100																							<i>[</i>	
75.0 mm	100	90								П	Ш				\top					Ш			1	П	П
63.0 mm	100	00																							
50.0 mm	100	80									Ш												1	П	П
37.5 mm	96	70																					/		
28.0 mm	80																					1		П	
20.0 mm	69	issing 0																							
14.0 mm	59	Pas																			/				
10.0 mm	49	ntage 05																							
6.30 mm	42	Percentage Passing																			1				
5.00 mm	41	Бе 40				Ш				Ш	Ш				Ш				_	/				Ш	Ц
3.35 mm	40														+	#	7								
2.00 mm	39	30									Ш													Ш	Ц
1.18 mm	38																								
600 µm	37	20				Ш				Щ				\perp					Ш					Ш	
425 μm	36																								
300 µm	34	10								\perp	Ш													\perp	Н
212 µm	31																								
150 µm	24	0								Ш	Ш									Ш				Ш	Ц
63 µm	18	0.0	01			0	.01				0.	1				1					10				
	·	•									Р	article	Size	e (mr	n)										

Particle P	roportions
Cobbles	0
Gravel	61
Sand	21
Silt & Clay	18

Checked and Approved by Project Number:

roject Name:

EYRE STREET, RAGGED SCHOOL J18042

GEO / 27587



(Ref 1530271720)

BS EN ISO 17892-4: 2016

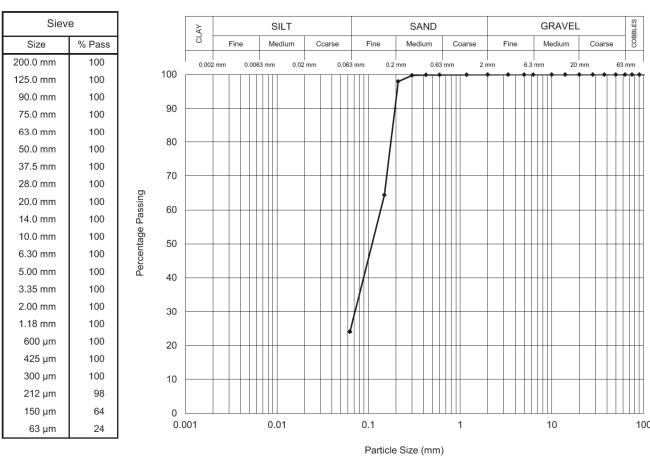
PARTICLE SIZE DISTRIBUTION

BH / TP No. Depth (m) Sample Type

BH3 15.50 Description

Light brownish grey clayey silty SAND.

BS EN ISO 17892-4: 2016: Clause 5.2 - Wet Sieve



Particle P	roportions
Cobbles	0
Gravel	0
Sand	76
Silt & Clay	24

Checked and Approved by

Project Number:

Project Name:

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042

GEOLABS

PARTICLE SIZE DISTRIBUTION

ВН3 BH / TP No. 24.00 Depth (m) D Sample Type

Sieve

Size 200.0 mm

125.0 mm

90.0 mm

75.0 mm

63.0 mm

50.0 mm 37.5 mm

28.0 mm

20.0 mm

14.0 mm 10.0 mm

6.30 mm 5.00 mm

3.35 mm

2.00 mm

1.18 mm 600 µm

> 425 µm 300 µm

212 µm

150 µm

63 µm

% Pass

100

100

100

100

100 100

100

98

94 86

80 73

72

69 66

65

63 63

61

58 37

30

Description

Multicoloured clayey silty SAND and GRAVEL.

BS EN ISO 17892-4: 2016: Clause 5.2 - Wet Sieve

		CLAY			SI	LT						S	AND					G	RAVEL			10000	DELEC
		<u></u>	Fir	ne	Med	dium	Coa	arse		F	ine	Med	dium	(Coarse	Fine	Э	N	ledium	Coa	arse	5	3
	100	0.002	? mm	0.006	33 mm	0.02	? mm	0.0)63 m	nm	0.2	mm	0.6	3 mm	2 n	nm	6.3	mm	20	mm	6	3 mm	1 T †
																			,				
	90								Ħ										1			T	T
	80			+															/				
	70																						
ñ.														\coprod									
rercentage rassing	60								\parallel														H
ritage	50			\square				+	\parallel		-		+	#								+	\parallel
i S	40																						
	40																						
	30																					H	
	20																						
	10																						H
	0.0	01			0.0	1				0.	1				1			Ш	10				1
	0.0	υı			0.0	1				U.	1				1				10				11

Particle Proportions					
Cobbles	0				
Gravel	34				
Sand	36				
Silt & Clay	30				

Checked and Approved by Project Number:

roject Name:

EYRE STREET, RAGGED SCHOOL J18042

GEO / 27587



(Ref 1530271726)

BS EN ISO 17892-4: 2016

PARTICLE SIZE DISTRIBUTION

BH / TP No. Depth (m) Sample Type

BH3 27.00 Description

Dark bluish grey slightly gravelly sandy CLAY.

BS EN ISO 17892-4: 2016: Clause 5.2 - Wet Sieve

Siev	е		CLAY		SILT			SAND)		GRAVEI	L	COBBLES
Size	% Pass		5	Fine	Mediur	m Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	8
200.0 mm	100		0.002	 2 mm)63 mm	0.02 mm	0.063 mm	0.2 mm 0.	63 mm 2	mm 6.3	 mm 20) mm = 6	33 mm
125.0 mm	100	100											
90.0 mm	100										,	*	
75.0 mm	100	90											
63.0 mm	100												
50.0 mm	100	80									•		
37.5 mm	100	70											
28.0 mm	100	70											
20.0 mm	94	Percentage Passing											
14.0 mm	85	Pas						1					
10.0 mm	81	ntage 05											
6.30 mm	79	cent						*					
5.00 mm	78	ъе 40											
3.35 mm	78	40											
2.00 mm	76	30											
1.18 mm	75												
600 µm	73	20											
425 µm	68												
300 µm	62	10											
212 µm	59												
150 µm	49	0											
63 µm	30	0.0	001		0.01		0.1		1		10		10
		•					Part	icle Size (mr	n)				

Particle Proportions				
Cobbles	0			
Gravel	24			
Sand	46			
Silt & Clay	30			

Checked and Approved by

Project Number:

Project Name:

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042



BS EN ISO 17892-4: 2016

PARTICLE SIZE DISTRIBUTION

BH / TP No. Depth (m) Sample Type

Sieve

Size

200.0 mm

125.0 mm

90.0 mm

75.0 mm

63.0 mm

50.0 mm

37.5 mm

28.0 mm

20.0 mm

14.0 mm

10.0 mm

6.30 mm

5.00 mm

3.35 mm

2.00 mm

1.18 mm

600 µm

425 µm

300 µm

212 µm

150 µm

63 µm

% Pass

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

99

95

67

6

BH3

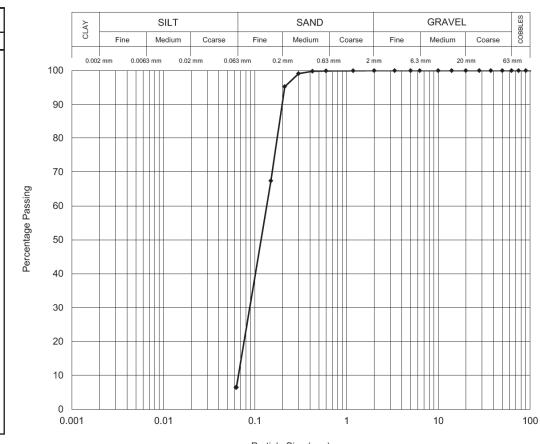
30.50

D

Description

Grey silty SAND.

BS EN ISO 17892-4: 2016: Clause 5.2 - Dry Sieve



Particle Size (mm)

Particle Proportions					
Cobbles	0				
Gravel	0				
Sand	94				
Silt & Clay	6				

Checked and Approved by Project Number:

roject Name:

EYRE STREET, RAGGED SCHOOL J18042

GEO / 27587



(Ref 1530271733)

BS EN ISO 17892-4: 2016

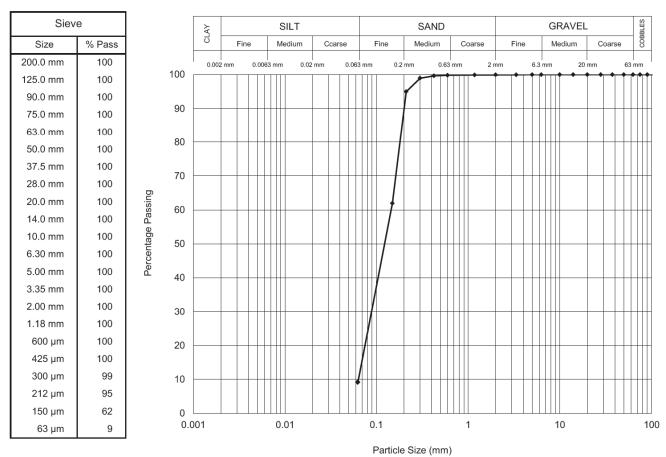
PARTICLE SIZE DISTRIBUTION

BH / TP No. Depth (m) Sample Type

BH3 35.00 Description

Dark grey clayey SAND.

BS EN ISO 17892-4: 2016: Clause 5.2 - Wet Sieve



Particle Proportions Cobbles 0 Gravel 91 Silt & Clay

Checked and Approved by

Project Number:

Project Name:

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042



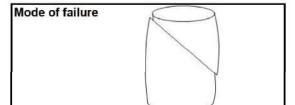
BH/TP No BH1 Depth (m) 4.00 Sample Type U

Description:

Stiff fissured multicoloured silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.0
Diameter	(mm)	103.3
Moisture Content	(%)	38.4
Bulk Density	(Mg/m³)	1.91
Dry Density	(Mg/m³)	1.38
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	80
Strain at failure	(%)	19.8
Maximum Deviator Stress	(kPa)	105
Shear Stress Cu	(kPa)	53



Orientation of the sample	Vertical
Distance from top of tube mm	45

Checked and Approved by: Project Number:

Project Name:

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EYRE STREET, RAGGED SCHOOL J18042



(Ref 1530271739)

BS 1377 : Part 7 : 1990 Clause 8

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

BH/TP No Depth (m) Sample Type Description:

Firm dark grey CLAY.

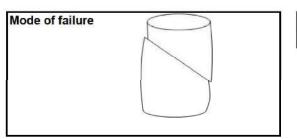
Specimen Details

BH1

6.50

U

Specimen conditions		Undisturbed
Length	(mm)	203.6
Diameter	(mm)	103.4
Moisture Content	(%)	32.6
Bulk Density	(Mg/m³)	1.94
Dry Density	(Mg/m³)	1.46
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.2
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	130
Strain at failure	(%)	2.7
Maximum Deviator Stress	(kPa)	138
Shear Stress Cu	(kPa)	69



Orientation of the sample Vertical Distance from top of tube mm 50

Checked and Approved by: Project Number:

GEO / 27587

Project Name:

EYRE STREET, RAGGED SCHOOL J18042



 BH/TP No
 BH1

 Depth (m)
 9.50

 Sample Type
 U

Description:

Very stiff fissured dark brown silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.2
Diameter	(mm)	102.8
Moisture Content	(%)	23.8
Bulk Density	(Mg/m³)	2.04
Dry Density	(Mg/m³)	1.65
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.8
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	190
Strain at failure	(%)	12.9
Maximum Deviator Stress	(kPa)	250
Shear Stress Cu	(kPa)	125



Orientation of the sample	Vertical
Distance from top of tube mm	

Checked and Approved by: Project Number:

Burke

Project Name:

GEO / 27587

EYRE STREET, RAGGED SCHOOL J18042



Page 1 of 1 (Ref 1530271745) BS 1377 : Part 7 : 1990 Clause 8

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

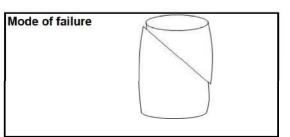
BH/TP No Depth (m) Sample Type

BH1 12.50 U Description:

Very stiff fissured brown mottled grey CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.9
Diameter	(mm)	103.1
Moisture Content	(%)	23.1
Bulk Density	(Mg/m³)	2.11
Dry Density	(Mg/m³)	1.71
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.7
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	250
Strain at failure	(%)	10.8
Maximum Deviator Stress	(kPa)	381
Shear Stress Cu	(kPa)	191



Orientation of the sample Vertical

Distance from top of tube mm 45

Checked

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Project Name:

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EYRE STREET, RAGGED SCHOOL J18042



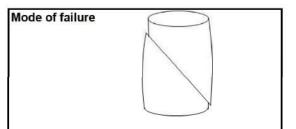
BH/TP No BH2 Depth (m) Sample Type 8.00 U

Description:

Very stiff fissured dark brown silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.3
Diameter	(mm)	102.7
Moisture Content	(%)	22.5
Bulk Density	(Mg/m³)	2.01
Dry Density	(Mg/m³)	1.64
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	160
Strain at failure	(%)	19.8
Maximum Deviator Stress	(kPa)	215
Shear Stress Cu	(kPa)	107



Orientation of the sample	Vertical
Distance from top of tube mm	30

Checked and Approved by: Project Number:

Project Name:

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EYRE STREET, RAGGED SCHOOL J18042



(Ref 1530271750)

BS 1377 : Part 7 : 1990 Clause 8

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

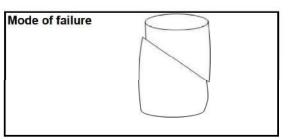
BH/TP No Depth (m) Sample Type BH2 11.00 U

Description:

Very stiff fissured brown mottled grey CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.6
Diameter	(mm)	102.7
Moisture Content	(%)	21.8
Bulk Density	(Mg/m³)	2.10
Dry Density	(Mg/m³)	1.73
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.3
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	220
Strain at failure	(%)	3.2
Maximum Deviator Stress	(kPa)	241
Shear Stress Cu	(kPa)	120



Orientation of the sample Vertical Distance from top of tube mm

Checked and Approved by: Project Number:

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Project Name:

EYRE STREET, RAGGED SCHOOL J18042



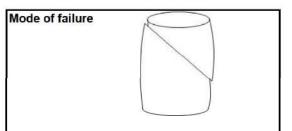
BH/TP No ВН3 Depth (m) 5.00 Sample Type U

Description:

Soft dark grey mottled brown CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	203.3
Diameter	(mm)	101.9
Moisture Content	(%)	37.0
Bulk Density	(Mg/m³)	1.86
Dry Density	(Mg/m³)	1.36
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	100
Strain at failure	(%)	19.7
Maximum Deviator Stress	(kPa)	69
Shear Stress Cu	(kPa)	34



Orientation of the sample	Vertical
Distance from top of tube mm	40

Checked and Approved by: Project Number:

Project Name:

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EYRE STREET, RAGGED SCHOOL J18042



(Ref 1530271755)

BS 1377 : Part 7 : 1990 Clause 8

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

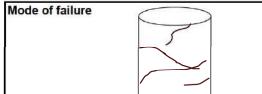
BH/TP No ВН3 Depth (m) 8.00 Sample Type U

Description:

Firm dark brown mottled dark grey CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	203.0
Diameter	(mm)	103.3
Moisture Content	(%)	30.0
Bulk Density	(Mg/m³)	1.99
Dry Density	(Mg/m³)	1.53
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	160
Strain at failure	(%)	19.7
Maximum Deviator Stress	(kPa)	191
Shear Stress Cu	(kPa)	96



Orientation of the sample Vertical Distance from top of tube mm 25

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Project Name:

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EYRE STREET, RAGGED SCHOOL J18042



BH/TP No ВН3 Depth (m) 11.00 Sample Type U

Description:

Firm brown mottled grey CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	203.6
Diameter	(mm)	103.2
Moisture Content	(%)	29.2
Bulk Density	(Mg/m³)	2.00
Dry Density	(Mg/m³)	1.55
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.3
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	220
Strain at failure	(%)	4.4
Maximum Deviator Stress	(kPa)	132
Shear Stress Cu	(kPa)	66





Orientation of the sample	Vertical
Distance from top of tube mm	30

Checked and Approved by: Project Number:

Project Name:

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EYRE STREET, RAGGED SCHOOL J18042



(Ref 1530271760)

BS 1377 : Part 7 : 1990 Clause 8

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

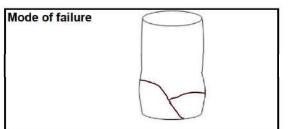
BH/TP No Depth (m) Sample Type ВН3 14.00 U

Description:

Firm brown mottled grey CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	203.6
Diameter	(mm)	103.2
Moisture Content	(%)	20.5
Bulk Density	(Mg/m³)	2.13
Dry Density	(Mg/m³)	1.77
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.5
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	130
Strain at failure	(%)	7.9
Maximum Deviator Stress	(kPa)	491
Shear Stress Cu	(kPa)	245



Orientation of the sample	Vertical
Distance from top of tube mm	30

Checked and Approved by: Project Number:

Project Name:

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EYRE STREET, RAGGED SCHOOL J18042

