SITE INVESTIGATION
FACTUAL REPORT

Report No: [redacted]

Client: Sedgwick International UK - Maidstone

Site: 18-18A Rona Road

Client Ref: [redacted]

Date of Visit: 02/01/2020

[redacted]

Investigation Layout Plan

Sheet: 1 of 1

Job No: [redacted]

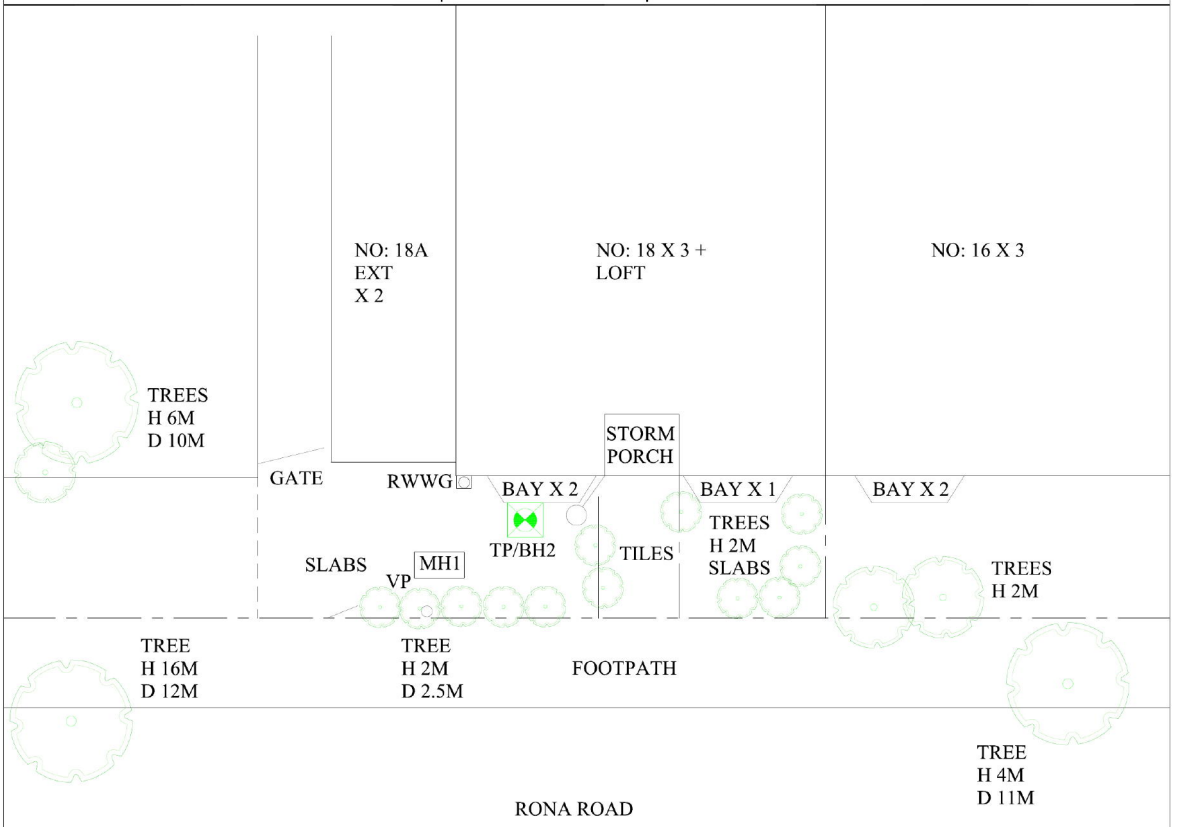
Date: 02/01/2020

Site: 18/18A Rona Road N2

Work carried out for: Sedgwick International UK

Weather: DRY

(SI) PS (Checked) CFT (Drawn)



Water Supply : Inhouse - outside Tap
Power : Internal - External - None
Parking : Onsite - Road - red Route - Metered - Permit - Other
Site Access : Good - Bad (explain)

FRONT OF PROPERTY
ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks:

Scale: N.T.S.

Key:

Combined Gulley	RWWG
Manhole	MH
Rain Water Pipe	RWP
Rain Water Gulley	RWG
Soil Vent Pipe	SVP
Waste Gulley	WG
Waste Pipe	WP

Surface Water Drain

Foul Water Drain

Tree / Bush (approx. ht in m)

Trial Pit

Borehole

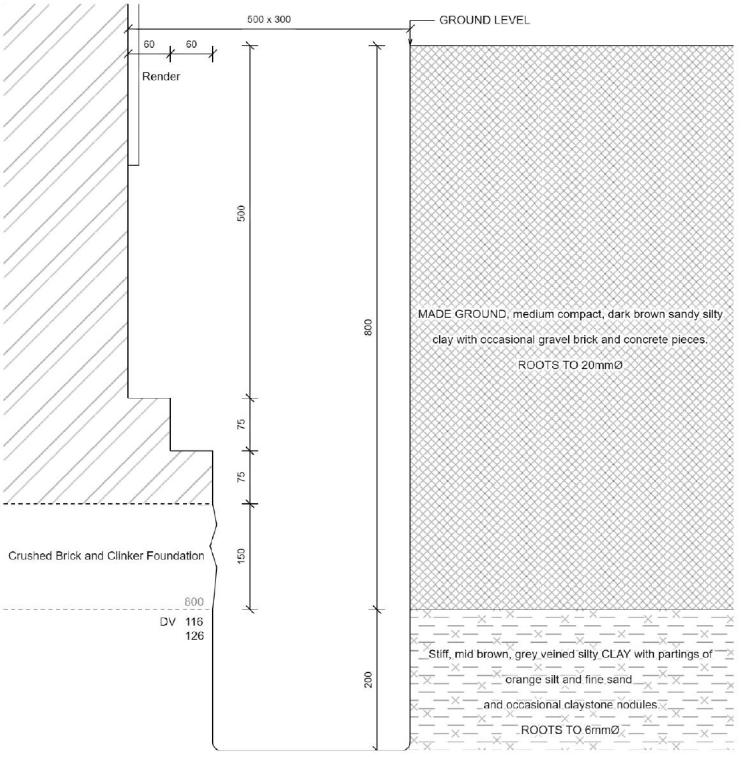
O/D - Open Discharge

PROPERTY ASSURANCE
Giving our all

TEST REPORT: **Trial Pit**

REPORT NUMBER: [redacted]

TRIAL PIT REF:	TP2	DATE:	02/01/2020
CLIENT:	Sedgwick International UK	SITE:	18-18a Rona Road
JOB NO:	[redacted]	WEATHER:	Dry
EXCAVATION METHOD:	Hand tools		



For Strata below 1000mm see Bore Hole log

Key:

D	Small disturbed sample	J	Jar sample
B	Bulk disturbed sample	V	Pilcon vane (kPa)
W	Water sample	M	Mackintosh probe
TDTD	Too dense to drive		

Remarks:
Test results reported relate only to the items tested.
This report shall not be reproduced except in full without approval of the Laboratory.

For and on behalf of CET
Phil Snowden - Geotechnical Manager

[redacted]

Approved Signatory
02-Jan-20

Report Format:

[redacted]

[redacted]

[redacted]

Borehole	2		Sheet:	1 of 1	Site:	18-18A Rona Road
			Job No:	[redacted]		
			Date:	02/01/2020		
Boring Method:	Hand Auger		Ground Level:		Client:	Sedgwick International UK - Maidstone
Diameter (mm):	75	Weather:	Dry			

Depth	Soil Description	Thickness	Legend	Samples and Tests		
(m)				Depth	Type	Result
0.00	See Trial Pit	1.00				
1.00	Very stiff mid brown, grey veined silty CLAY with partings of orange silt and fine sand and occasional claystone nodules.	2.00		1.00	DV	140+
						140+
				1.50	DV	140+
						140+
				2.00	DV	140+
						140+
				2.50	DV	140+
						140+
3.00	Very stiff mid brown, grey veined silty CLAY with partings of orange silt and fine sand , claystone nodules and crystals.	2.00		3.00	DV	140+
						140+
				3.50	DV	140+
						140+
				4.00	DV	140+
						140+
				4.50	DV	140+
						140+
				5.00	DV	140+
5.00	End of BH					140+

Remarks:
BH ends at 5m. BH dry and open on completion. Dead and decomposing root fragments to 3.0m. First attempt to auger BH2 we appeared to encounter a previous BH from 2.7m-4.5m.

Key:
D - Disturbed Sample
B - Bulk Sample
W - Water Sample
J - Jar Sample
V - Pilcon Shear Vane (kPa
M - Mackintosh Probe
TDTD - Too Dense To Drive

Roots
Roots
Roots
Depth to Water (m)

To Depth (m)	Max Dia (mm)
1.50	4
1.90	2
2.40	1

Logged:	AC	PS	Checked:	Approved:	Version	V1.0 28/01/16	N.T.S.

Laboratory Summary Results

Our Ref : [redacted]

Location : 18-18A, Rona Road, London

Client: Sedgwick International UK - Maidstone

Address: [redacted]

Date Sampled: 02/01/2020

Date Received : 02/01/2020

Date Tested : 03/01/2020

Date of Report : 13/01/2020

Sample Ref. TP/BH No	Depth (m)	Type	Moisture Content (%) [1]	Soil Fraction > 0.425mm (%) [2]	Liquid Limit (%) [3]	Plastic Limit (%) [4]	Plasticity Index (%) [5]	Liquidity * Index [5]	Modified * Plasticity Index (%) [6]	Soil * Class [7]	Filter Paper Contact Time (h)	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated Heave Potential (Dd) (mm) [10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH * Value [13]	Sulphate Content * (g / l) SO_3 [14]	Sulphate Content * (g / l) SO_4 [15]	* Class [16]
2	U/S 0.80	D	33	<5	81	27	54	0.11	54	CV	168	217			121					
	1.0	D	32	<5	79	24	55	0.14	55	CV	168	232			> 140					
	1.5	D	31	<5											> 140					
	2.0	D	30	<5	78	25	53	0.09	53	CV	168	256			> 140					
	2.5	D	33	<5											> 140					
	3.0	D	32	<5	73	26	47	0.13	47	CV	168	210			> 140					
	3.5	D	32	<5											> 140					
	4.0	D	32	<5							168	244			> 140					
	4.5	D	51	<5											> 140					
	5.0	D	39	<5							168	44.1			> 140					

Test Methods / Notes

[1] BS 1377 : Part 2 : 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377 : Part 2 : 1990, Test No 4.4

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4

[6] BRE Digest 240 : 1993

[7] BS 5930 : 2018 : Figure 8 - Plasticity Chart for the classification of fine soils

[8] In-house method S5a adapted from BRE IP 4/93

[9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CET using a Pilcon hand vane or Geonor vane (GV).

[12] BS 1377 : Part 3 : 1990, Test No 4

[13] BS 1377 : Part 2 : 1990, Test No 9

[14] BS 1377 : Part 3 : 1990, Test No 5.6

[15] $SO_3 = 1.2 \times SO_4$

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005 Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4M or DS-5M class respectively unless water soluble magnesium testing is undertaken to prove otherwise.

* These tests are not UKAS accredited

Full reports can be provided upon request.

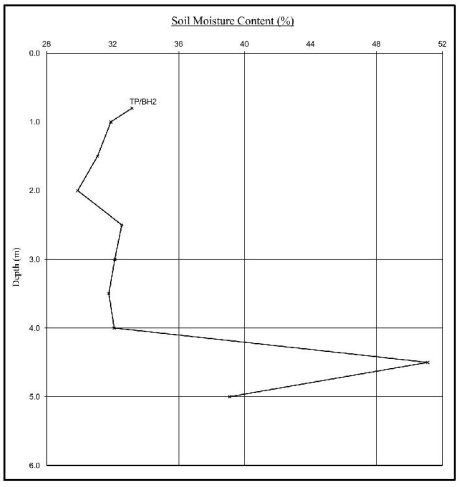
Key

D	Disturbed sample (small)
B	Disturbed sample (bulk)
U	Undisturbed sample
W	Groundwater sample
ENP	Essentially Non-Plastic by inspection
UIS	Underside of Foundation

[redacted]

Moisture Content Profiles

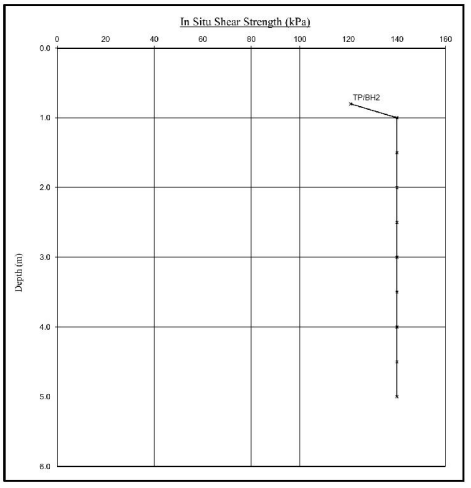
Our Ref : [redacted]
Location : 18-18A, Rona Road, London
Work carried out for: Sedgwick International UK - Maidstone



Notes
1. If plotted, 0.4 LL and PI/2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Shear Strength Profiles

Date Sampled : 02/01/2020
Date Received : 02/01/2020
Date Tested : 03/01/2020
Date of Report : 13/01/2020



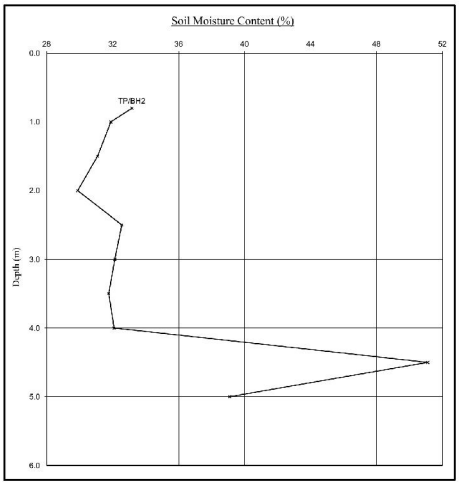
Note
1. Unless otherwise stated, values of Shear Strength were determined in situ by CUT using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

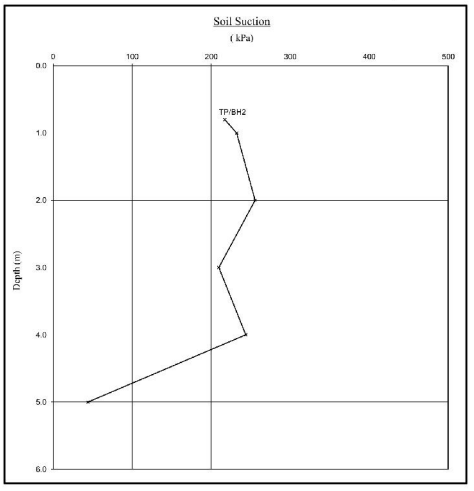
Moisture Content Profiles

Soil Suction Profiles

Our Ref : [redacted]
Location : 18-18A, Rona Road, London
Work carried out for: Sedgwick International UK - Maidstone

Date Sampled : 02/01/2020
Date Received : 02/01/2020
Date Tested : 03/01/2020
Date of Report : 13/01/2020





Notes
1. If plotted, 0.4 LL and PI/2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Note
When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BRE on the basis of their limited number of tests on recompacted samples. This may or may not be appropriate in this instance and judgement should be exercised.

EPSL ***European Plant Science Laboratory***	Sheet: 1 of 1 Job No: [redacted] Date: **08/01/2020** Order No: [redacted] EPSL Ref: [redacted]	Site: **18 & 18a Rona Road,** Work carried out for: **Sedgwick International UK**

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.
The results were as follows -

Trial pit/ Borehole number	**Root diameter (mm)**	**Tree, shrub or climber from which root originates**	**Result of starch test**
TP2 (USF)	4 mm	Fagus spp.	Positive
TP2 (USF)	1 mm	Hedera or Fatsia spp. 3 roots	Positive
BH2 (to 2.4m)	3 mm	Rosa spp. 2 roots	Positive
BH2 (to 2.4m)	1 mm	Fagus spp.	Positive
BH2 (to 2.4m)	1 mm	Prunus spp.	Positive

Fagus spp. include common beech and copper beech.
Hedera spp. include ivy; Fatsia spp. are shrubs closely related to ivy.
Rosa spp. are roses.
Prunus spp. include blackthorn, cherry, cherry-laurel, Portuguese laurel, peach, plum, and related species.

[redacted]

RJS

[redacted]

Head of Laboratory Services : M D Mitchell B.Sc. (Hons), M.Phil.
Plant Anatomist : Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D
Plant Anatomist : Dr R J Shaw B.Sc. (Hons), Ph.D
Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D

[redacted]