

SITE INVESTIGATION FACTUAL REPORT

Report No: [REDACTED]
Client: Sedgwick International UK - Maidstone
Site: 9 Woodchurch Road
Client Ref: [REDACTED]
Date of Visit: 05/07/2019



Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys



Investigation Layout Plan

Sheet: 1 of 1

Job No: [REDACTED]

Date: 05/07/2019

Site: 9 Woodchrch Road, NW6

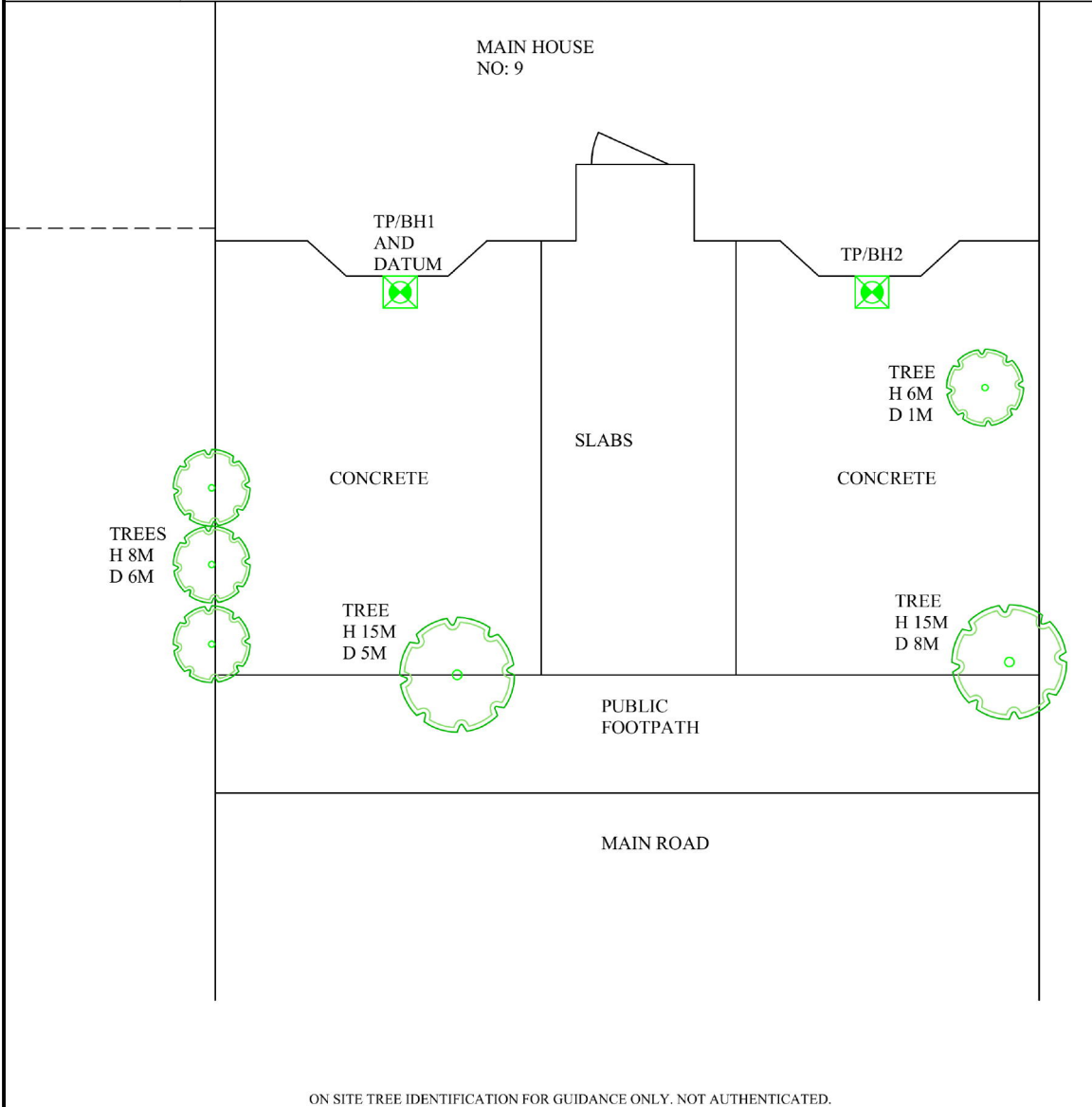
Work carried out for: Sedgwick International UK

(SI)

PS
(Checked)

CFT
(Drawn)

Weather: DRY

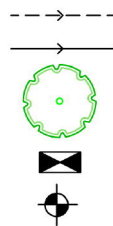


Remarks:

Key:

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

Surface Water Drain
 Foul Water Drain
 Tree / Bush
 (approx. ht in m)
 Trial Pit
 Borehole
 O/D - Open Discharge



Scale: N.T.S.

TEST REPORT: Trial Pit

REPORT NUMBER: [REDACTED]

TRIAL PIT REF: TP1

CLIENT: Sedgwick International UK

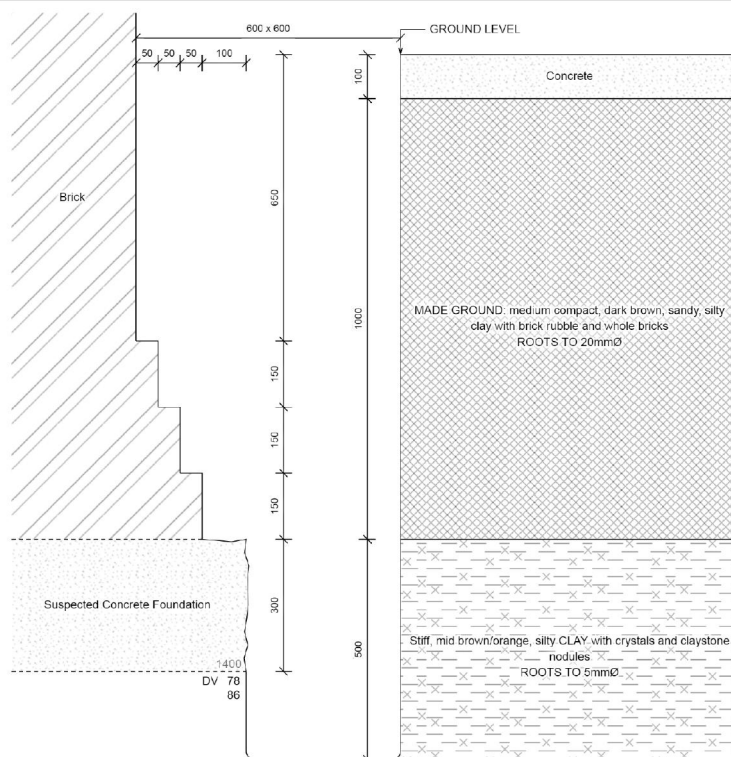
JOB NO: [REDACTED]

EXCAVATION METHOD: Hand tools

DATE: 05/07/2019

SITE: 9 Woodchurch Road, NW6 3PL

WEATHER: Dry



For Strata below 1600mm see Bore Hole log

Curved steel pin driven 100mm under suspected concrete foundation at 1400mm below ground level

- 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 in full without approval of the Laborator.y

For and on behalf of CET
Sophie Cahalane - Admin Assistant

Report Format:

[REDACTED]

[REDACTED]

Approved Signatory
16-Jul-19

[REDACTED]

| Borehole | | 1 and Datum | | Sheet: 1 of 1 | Site: 9 Woodchurch Road | |
|---|---|--------------------|---|---|-------------------------|--------|
| Boring Method: Hand Auger | | Date: 05/07/2019 | | Client: Sedgwick International UK - Maidstone | | |
| Diameter (mm): 75 | Weather: dry | | Ground Level: | | | |
| Depth (m) | Soil Description | Thickness | Legend | Depth | Type | Result |
| 0.00 | See Trial Pit | 1.60 | | | | |
| 1.60 | Stiff orange-brown silty CLAY with crystals and claystone nodules | 3.40 | | 2.00 | DV | 98 |
| | | | | | | 104 |
| | | | | 2.50 | DV | 120+ |
| | | | | | | 120+ |
| | | | | 3.00 | DV | 120+ |
| | | | | | | 120+ |
| | | | | 3.50 | DV | 120+ |
| | | | | | | 120+ |
| | | | | 4.00 | DV | 120+ |
| | | | | | | 120+ |
| | | | | 4.50 | DV | 120+ |
| | | | | | | 120+ |
| 5.00 | End of BH | | | 5.00 | DV | 120+ |
| Remarks: BH ends at 5m. BH dry and open on completion. Datum intalled at 5m. No roots observed below 2.8m. | | | Key: D - Disturbed Sample B - Bulk Sample W - Water Sample Roots J - Jar Sample Roots V - Pilcon Shear Vane (kPa) Roots M - Mackintosh Probe Depth to Water (m) IDTD - Too Dense To Drive | | To Max Depth (m) | 2.80 |
| | | | | | 1 | |
| Logged: DP | PS | Checked: | Approved: | Version V1.0 28/01/16 | N.T.S. | |

TEST REPORT: Trial Pit

REPORT NUMBER: [REDACTED]

TRIAL PIT REF: TP2

DATE: 16/07/2019

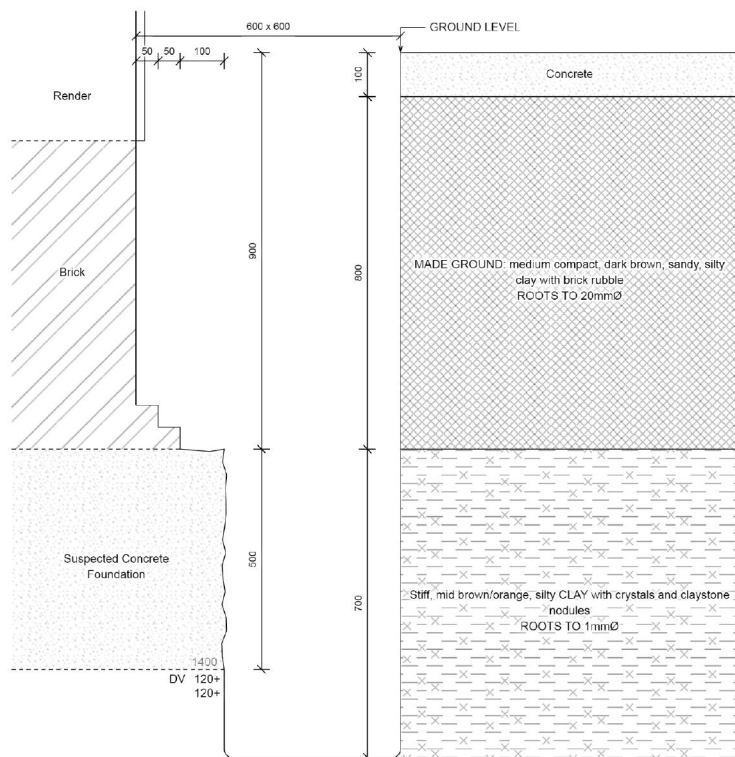
CLIENT: Sedgwick International UK

SITE: 9 Woodchurch Road, NW6 3PL

JOB NO: [REDACTED]

WEATHER: Dry

EXCAVATION METHOD: Hand tools



For Strata below 1600mm see Bore Hole log

Curved steel pin driven 100mm under suspected concrete foundation at 1400mm below ground level

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.
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For and on behalf of CET
Sophie Cahalane - Admin Assistant

Report Format:

[REDACTED]

Approved Signatory
16-Jul-19

[REDACTED]

[REDACTED]

| Borehole | | 2 | Sheet: 1 of 1 | Site: 9 Woodchurch Road | |
|--|---|--|---------------|---|-------------|
| Job No: [REDACTED] | | | | | |
| Date: 05/07/2019 | | | | | |
| Boring Method: Hand Auger | Weather: Dry | | Ground Level: | Client: Sedgwick International UK - Maidstone | |
| Diameter (mm): 75 | | | | | |
| Depth (m) | Soil Description | Thickness | Legend | Samples and Tests | |
| 0.00 | See Trial Pit | 1.60 | | Depth | Type Result |
| 1.60 | Stiff orange-brown silty CLAY with crystals and claystone nodules | 1.70 | | 2.00 | DV 120+ |
| | | | | | 120+ |
| | | | | 2.50 | DV 120+ |
| | | | | | 120+ |
| | | | | 3.00 | DV 120+ |
| | | | | | 120+ |
| 3.30 | End of BH | | | | |
| Remarks: BH ends at 3.3m, too stiff / hard to hand auger. BH dry and open on completion. No roots observed below 2.6m. | | Key: D - Disturbed Sample B - Bulk Sample W - Water Sample Roots J - Jar Sample Roots V - Pilcon Shear Vane (kPa) Roots M - Mackintosh Probe Depth to Water (m) TDTD - Too Dense To Drive | | To | Max |
| | | | | Depth | Dia |
| | | | | (m) | (mm) |
| | | | | 2.60 | 1 |
| | | | | | |
| | | | | | |
| Logged: DP | PS | Checked: | Approved: | Version V1.0 28/01/16 | N.T.S. |

Our Ref : [REDACTED]

Laboratory Testing Results

Date Sampled : 05/07/2019

Location : 9 Woodchurch Road

Date Received : 09/07/2019

Client : Sedgwick International UK - Maidstone

Date Tested : 10/07/2019

Address : [REDACTED]

Date of Report : 15/07/2019

| Sample Ref. TP/BH No. | Depth (m) | Type | Moisture Content (%) [11] | Soil Fraction >0.425mm (%) [12] | Liquid Limit (%) [13] | Plastic Limit (%) [14] | Plasticity Index (%) [15] | Liquidity Index [15] | Modified* Plasticity Index (%) [16] | Soil* Class [17] | Filter Paper Contact Time (h) | Soil Sample Suction (kPa) [8] | Oedometer Strain [9] | Estimated Heave Potential (DE) (mm) [10] | In situ* Shear Vane Strength (kPa) [11] | Organic* Content (%) [12] | pH* Value [13] | Sulphate Content* (g/l) | | * Class [16] |
|--------------------------|-----------|------|---------------------------|---------------------------------|-----------------------|------------------------|---------------------------|----------------------|-------------------------------------|------------------|-------------------------------|-------------------------------|----------------------|--|---|---------------------------|----------------|-------------------------|-----|--------------|
| | | | | | | | | | | | | | | | | | | SO3 | SO4 | |
| 2 | U/S 1.40 | D | 22 | <5 | 73 | 25 | 48 | -0.06 | 48 | CV | | | | | > 120 | | | | | |
| | 2.0 | D | 29 | <5 | 74 | 27 | 47 | 0.03 | 47 | CV | | | | | > 120 | | | | | |
| | 2.5 | D | 31 | <5 | | | | | | | | | | | > 120 | | | | | |
| | 3.0 | D | 31 | <5 | 77 | 27 | 50 | 0.08 | 50 | CV | | | | | > 120 | | | | | |

Test Methods / Notes

[11] BS 1377: Part 2: 1990, Test No 3.2
 [12] Estimated (if <5%, otherwise measured)
 [13] BS 1377: Part 2: 1990, Test No 4.4
 [14] BS 1377: Part 2: 1990, Test No 5.3
 [15] BS 1377: Part 2: 1990, Test No 5.4
 [16] BS 1377: Part 2: 1990, Test No 5.4
 [17] BS 5939: 1981: Figure 31 - Plasticity Chart for the classification of fine soils

[18] BS 1377: Part 2: 1990, Test No 4.4
 [19] In-house Test Procedure SI 7e, One Dimensional Swell/Shrink Test
 [20] Estimated Heave Potential (DE)
 [21] Values of shear strength were determined in situ by CPT using a Pileon hand vane or Greater vane (GV).
 [22] BS 1377: Part 1: 1990, Test No 4.4
 [23] BS 1377: Part 1: 1990, Test No 9
 [24] BS 1377: Part 1: 1990, Test No 5.6
 [25] SO₃ = 1.2 x SO₄

[10] BRE Special Digest One (Concrete in Aggressive Grounds) August 2006
 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 (b.R.)
 U Undisturbed sample
 W Groundwater sample
 ENP Essentially Non-Plastic by inspection
 US Underside of Foundation

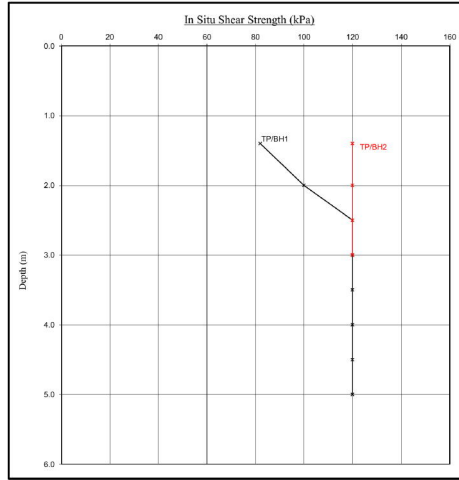
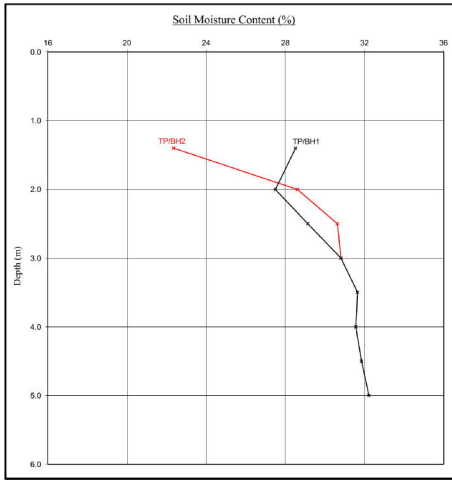
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Moisture Content Profiles

Our Ref: [REDACTED]
 Location: 9 Woodchurch Road
 Work carried out for: Sedgwick International UK - Maidstone

Date Sampled: 05/07/2019
 Date Received: 09/07/2019
 Date Tested: 10/07/2019
 Date of Report: 15/07/2019



Notes
 1. If plotted, $0.4LL$ 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
 1. Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Picon Hand Vane the calibration of which is limited to a maximum reading of 120 kPa.
 2. Unless specifically noted the profiles have not been related to a site datum.

EPSL

European Plant Science Laboratory

Sheet: 1 of 1

Job No: [REDACTED]

Date: 22/07/2019

Order No: [REDACTED]

EPSL Ref: [REDACTED]

Site: 9 Woodchurch 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 -

| <u>Trial pit/ Borehole number</u> | <u>Root diameter (mm)</u> | <u>Tree, shrub or climber from which root originates</u> | <u>Result of starch test</u> |
|---|-------------------------------|--|----------------------------------|
| TP1 (USF) | 4 mm | Tilia spp. 2 roots | Negative |
| BH1 (2.8m) | 1 mm | Tilia spp. 2 roots | Negative |
| TP2 (USF) | 1 mm | Tilia spp. 2 roots | Positive |
| BH2 (2.6m) | <1 mm | probably Tilia spp. * 2 roots | Positive |

* Both rather juvenile.

Tilia spp. are limes.

[REDACTED]
MDM

[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