

SITE INVESTIGATION FACTUAL REPORT

Report No: 566801
Client: Sedgwick International UK - Morley (Leeds)
Site: 133 Long Lane, Hillingdon,
Client Ref: 6891233
Date of Visit: 15/02/19

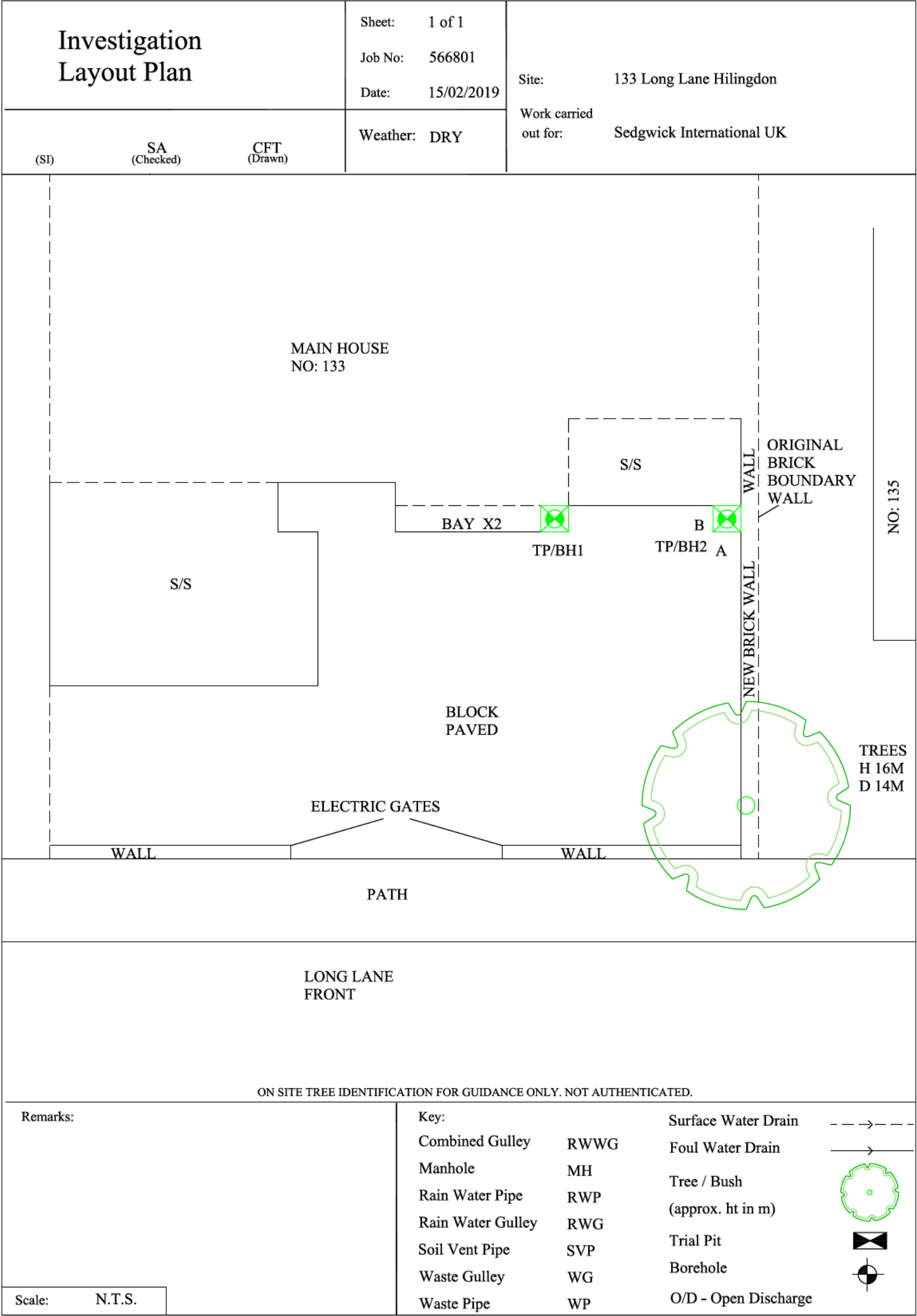


Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys

Unit E2 First Floor Suite, Boundary Court
Willow Farm Business Park, Castle Donington
Leicestershire, DE74 2NN

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CET is the trading name of CET Structures Ltd
Registered in England No. 02527130



TEST REPORT: Trial Pit

REPORT NUMBER: C989848 / 65367.1.1.1

TRIAL PIT REF: TP1

CLIENT: Sedgwick International UK

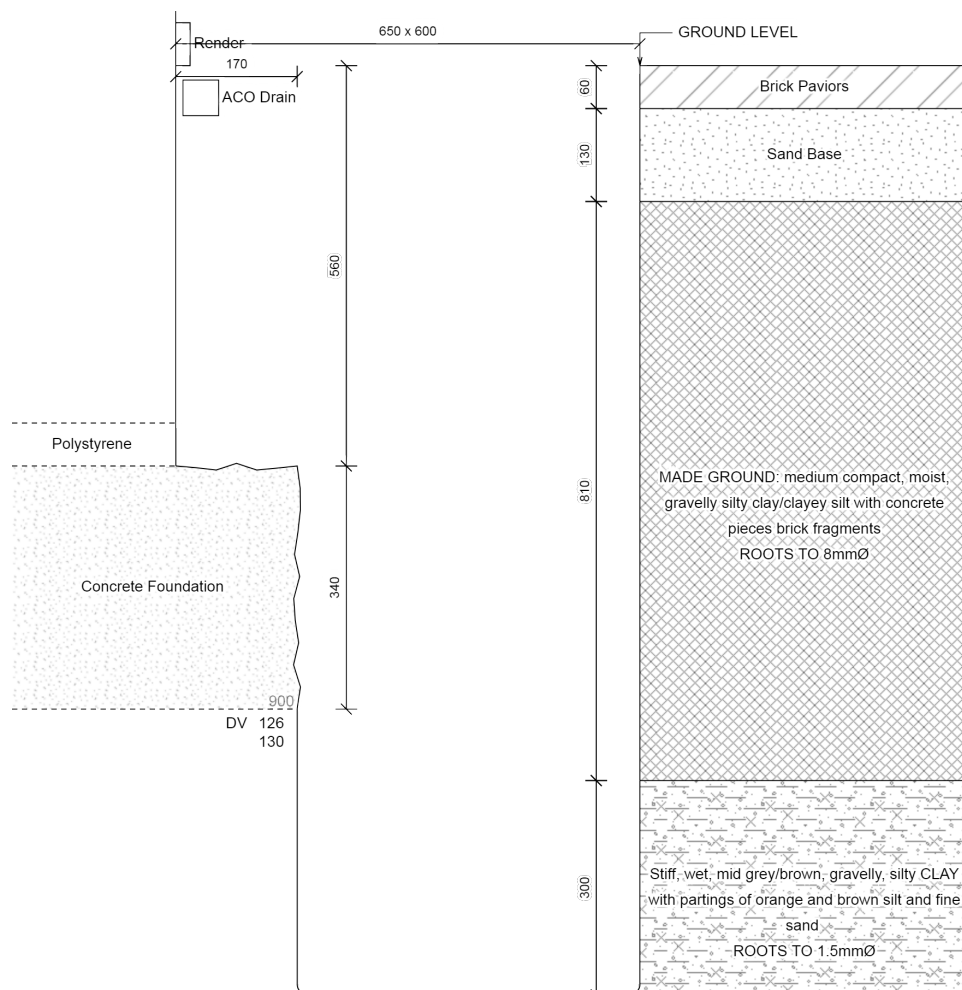
JOB NO: 566801

EXCAVATION METHOD: Hand tools

DATE: 07/03/2019

SITE: 133 Long Lane UB10 0AT

WEATHER: Dry



For Strata below 1200mm see Bore Hole log

Bay and house foundations are similar construction and same depth. Water strike at 900mm, unable to get dry BH in step at rear.

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:

For and on behalf of CET
Sophie Cahalane - Admin Assistant

Report Format:

Approved Signatory
07-Mar-19

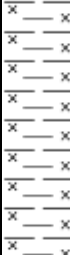
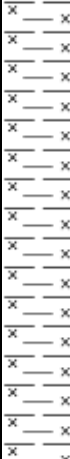
DE74 2UD

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Report version 1

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Borehole		1			Sheet:	1 of 1	Site:	133 Long Lane				
					Job No:	566801						
					Date:	15/02/2019						
Boring Method:		Hand Auger			Ground Level:			Client:	Sedgwick International UK - Morley (Leeds)			
Diameter (mm):		75	Weather:		dry							
Depth	Soil Description									Samples and Tests		
(m)								Thickness	Legend	Depth	Type	Result
0.00	See Trial Pit							1.20				
1.20	Stiff moist brown silty CLAY with partings of orange and brown silt and fine sand							0.90				
2.10	Stiff brown silty CLAY with partings of orange and brown silt and fine sand and stone nodules							1.60		1.50	DV	130+
												130+
3.70	End of BH											
Remarks: BH ends at 3.7m ,Obstruction thought to be claystone too dense to hand auger.BH moist but open on completion,no roots observed below 2.7m.							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)	
										2.70	1	
Logged:	MR	SA	Checked:	Approved:	Version	V1.0 28/01/16		N.T.S.				

TEST REPORT: Trial Pit

REPORT NUMBER: C989848 / 65367.1.1.2

TRIAL PIT REF: TP2A

CLIENT: Sedgwick International UK

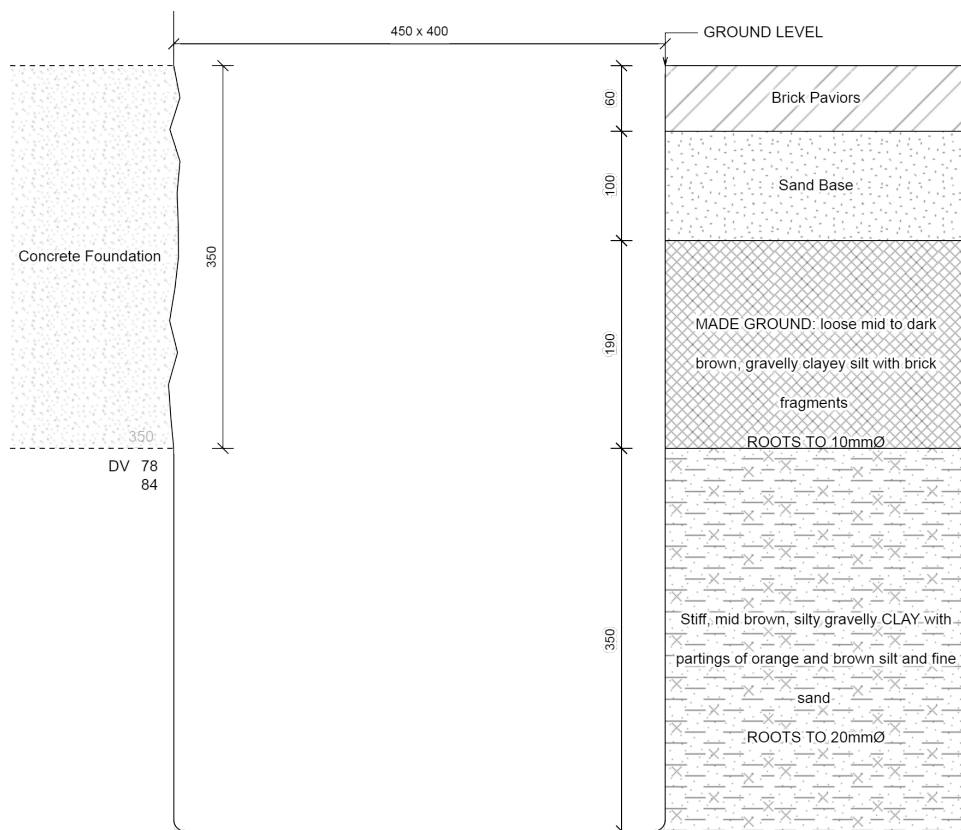
JOB NO: 566801

EXCAVATION METHOD: Hand tools

DATE: 07/03/2019

SITE: 133 Long Lane UB10 0AT

WEATHER: Dry



For Strata below 700mm see Bore Hole log

Gas pipe through foundation

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:

For and on behalf of CET
Sophie Cahalane - Admin Assistant

Report Format:

Approved Signatory
07-Mar-19

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Report version 1

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TEST REPORT: Trial Pit

REPORT NUMBER: C989848 / 65367.1.1.3

TRIAL PIT REF: TP2B

CLIENT: Sedgwick International UK

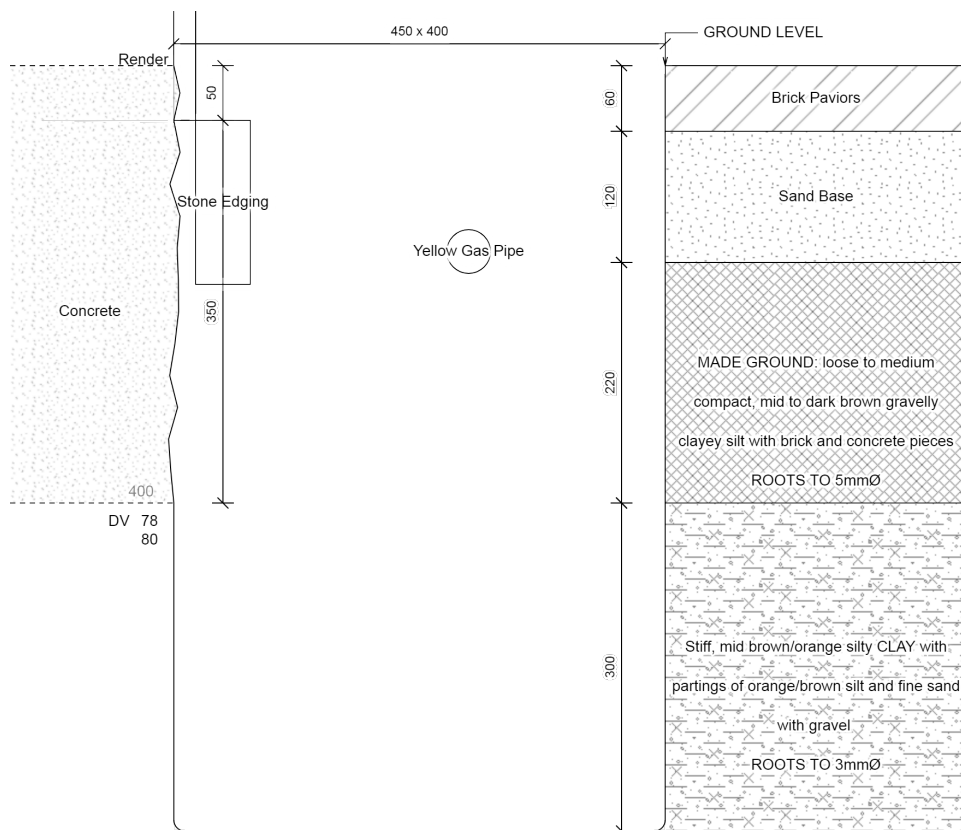
JOB NO: 566801

EXCAVATION METHOD: Hand tools

DATE: 07/03/2019

SITE: 133 Long Lane UB10 0AT

WEATHER: Dry



For Strata below 700mm see Bore Hole log

Old original wall only picked up in TP.

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:

For and on behalf of CET
Sophie Cahalane - Admin Assistant

Report Format:

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Borehole		2			Sheet:	1 of 1	Site:	133 Long Lane														
					Job No:	566801																
					Date:	15/02/2019																
Boring Method:		Hand Auger			Ground Level:			Client:	Sedgwick International UK - Morley (Leeds)													
Diameter (mm):		75		Weather:		DRY																
Depth	Soil Description							Samples and Tests														
(m)								Thickness	Legend	Depth	Type	Result										
0.00	See Trial Pit							0.70														
0.70	Stiff brown silty CLAY with partings of orange and brown silt and fine sand and stone nodules							2.70														
										3.40	Stiff brown silty CLAY with partings of orange and brown silt and fine sand and stone nodules							1.60				
End of BH																						
Remarks: BH ends at 5.0m .BH dry and open on completion,no roots observed below 3.5m.							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															
Logged:		MR	SA	Checked:	Approved:	Version	V1.0 28/01/16		N.T.S.													

Laboratory Summary Results

Our Ref : 566801

Date Sampled: 15/02/19

Location : 133, Long Lane, Hillingdon, Uxbridge

Date Received : 19/02/19

Client: Sedgwick International UK - Morley (Leeds)

Date Tested : 28/02/19

Address: Subsidence Scanning Centre, Ground Floor, Fountain Court, LS27 0JG

Date of Report : 09/03/19

Sample Ref		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)		* Class [16]
TP/BH No	Depth (m)																	SO ₃ [14]	SO ₄ [15]	
1	U/S 0.90	D	30	24	69	27	42	0.06	32	CH					128					
	1.5	D	30	<5	72	25	47	0.10	47	CV					> 130					
	2.0	D	34	<5											> 130					
	2.5	D	37	<5	76	32	44	0.11	44	CV					> 130					
	3.0	D	33	<5											> 130					
	3.5	D	33	<5	67	29	38	0.10	38	CH					> 130					

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 S9a 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] SO₄ = 1.2 x SO₃

[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
U/S	Underside of Foundation



Our Ref : 566801

Laboratory Testing Results

Date Sampled : 15/02/19

Location : 133, Long Lane, Hillingdon, Uxbridge

Date Received : 19/02/19

Client: Sedgwick International UK - Morley (Leeds)

Date Tested : 28/02/19

Address: Subsidence Scanning Centre, Ground Floor, Fountain Court, LS27 0JG

Date of Report : 09/03/19

Sample Ref		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)		* Class [16]
TP/BH No	Depth (m)																	SO ₃ [14]	SO ₄ [15]	
2	(B) U/S 0.35	D	25	23	55	23	32	0.08	25	CH					81					
	(A) U/S 0.40	D	27	15	60	23	37	0.11	31	CH					79					
	1.0	D	29	<5																
	1.5	D	23	<5	69	24	45	-0.01	45	CH										
	2.0	D	24	<5											> 130					
	2.5	D	31	<5	76	30	46	0.01	46	CV					> 130					
	3.0	D	30	<5											122					
	3.5	D	32	<5	64	29	35	0.07	35	CH					> 130					
	4.0	D	28	<5											> 130					
	4.5	D	30	<5											> 130					
	5.0	D	28	<5											> 130					

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 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils

[8] In-house method S94 adapted from BS 1377 4.9.3

[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] SO₄ = 1.2 x SO₃

[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
U/S Underside of Foundation



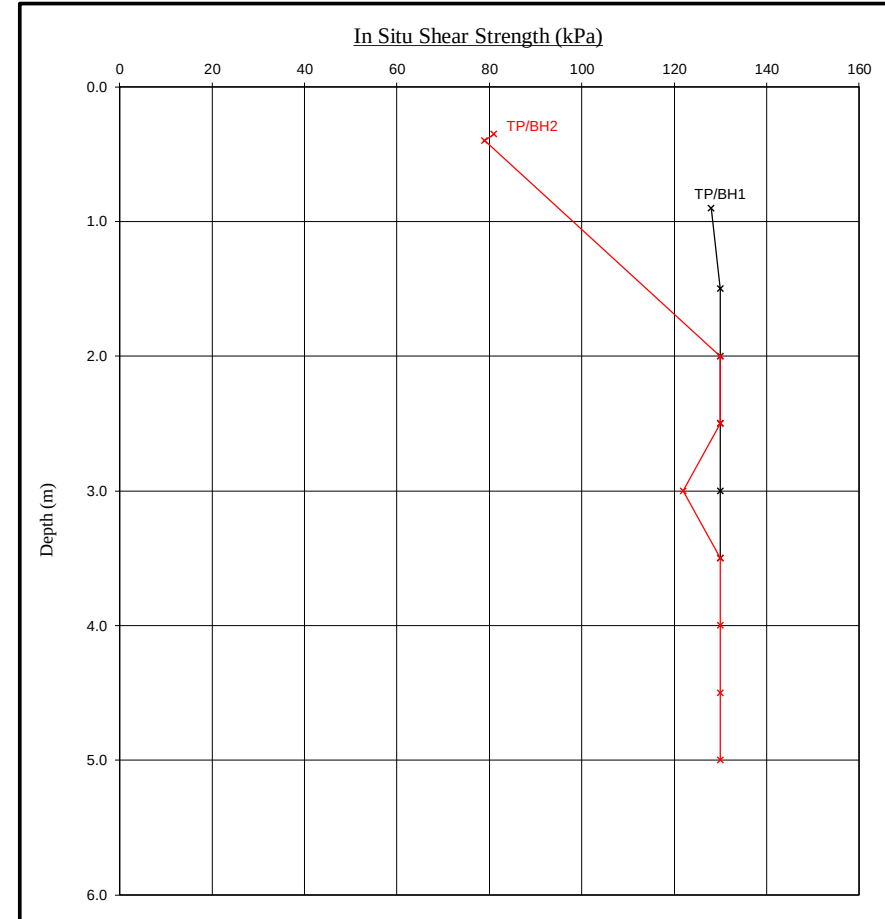
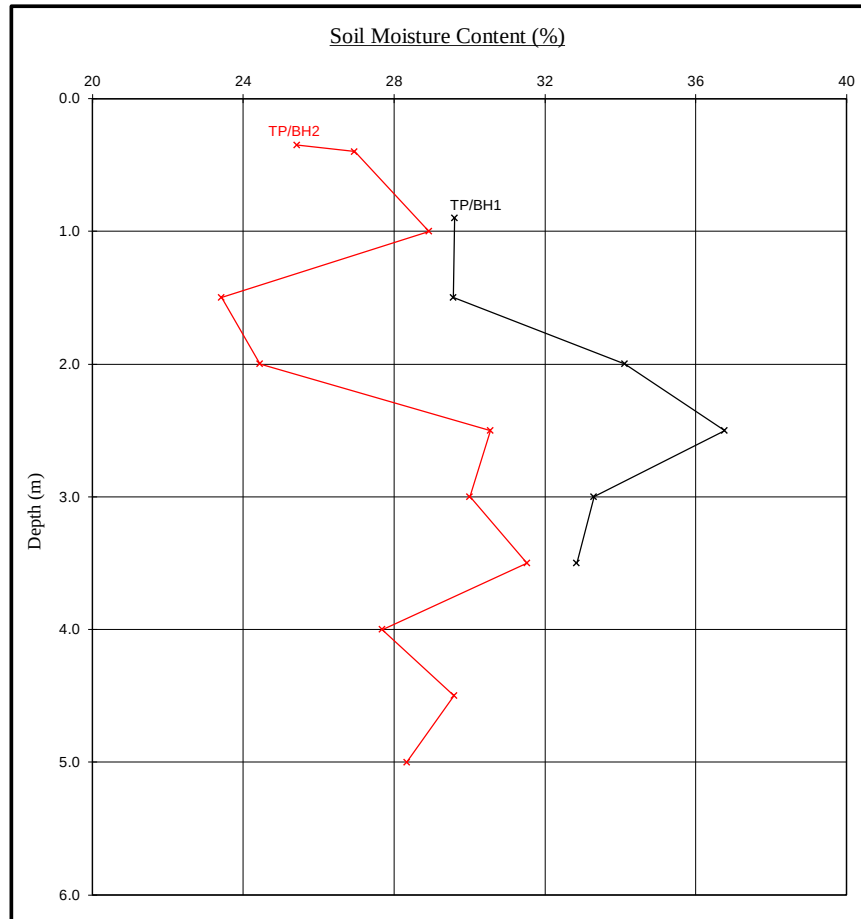
Version: 5BH V1 5 - 26 06 18

8618

Moisture Content Profiles

Our Ref : 566801
 Location : 133, Long Lane, Hillingdon, Uxbridge
 Work carried out for: Sedgwick International UK - Morley (Leeds)

Date Sampled : 15/02/19
 Date Received : 19/02/19
 Date Tested : 28/02/19
 Date of Report : 09/03/19



Notes

- 1 If plotted, 0.4 LL and PL+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 Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 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: **566801**Date: **28/02/2019**Order No: **1312782**EPSL Ref: **R28647**Site: **133 Long Lane, Hillingdon,**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)	1.5 mm	Quercus spp. 4 roots	Positive
TP1B (USF)	3 mm	Quercus spp. 4 roots	Positive
BH1 (to 2.7m)	1 mm	Quercus spp.	Negative
TP2A (USF)	20 mm	Quercus spp. 5 roots	Positive
BH2 (to 3.5m)	16 mm	Quercus spp. 4 roots	Positive

Quercus spp. are oaks (both deciduous and evergreen).



MDM

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Telephone: 01248 672 652

e-mail: lab@innovation-environmental.co.uk

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*

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