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Site Location Plan

Scale: NTS

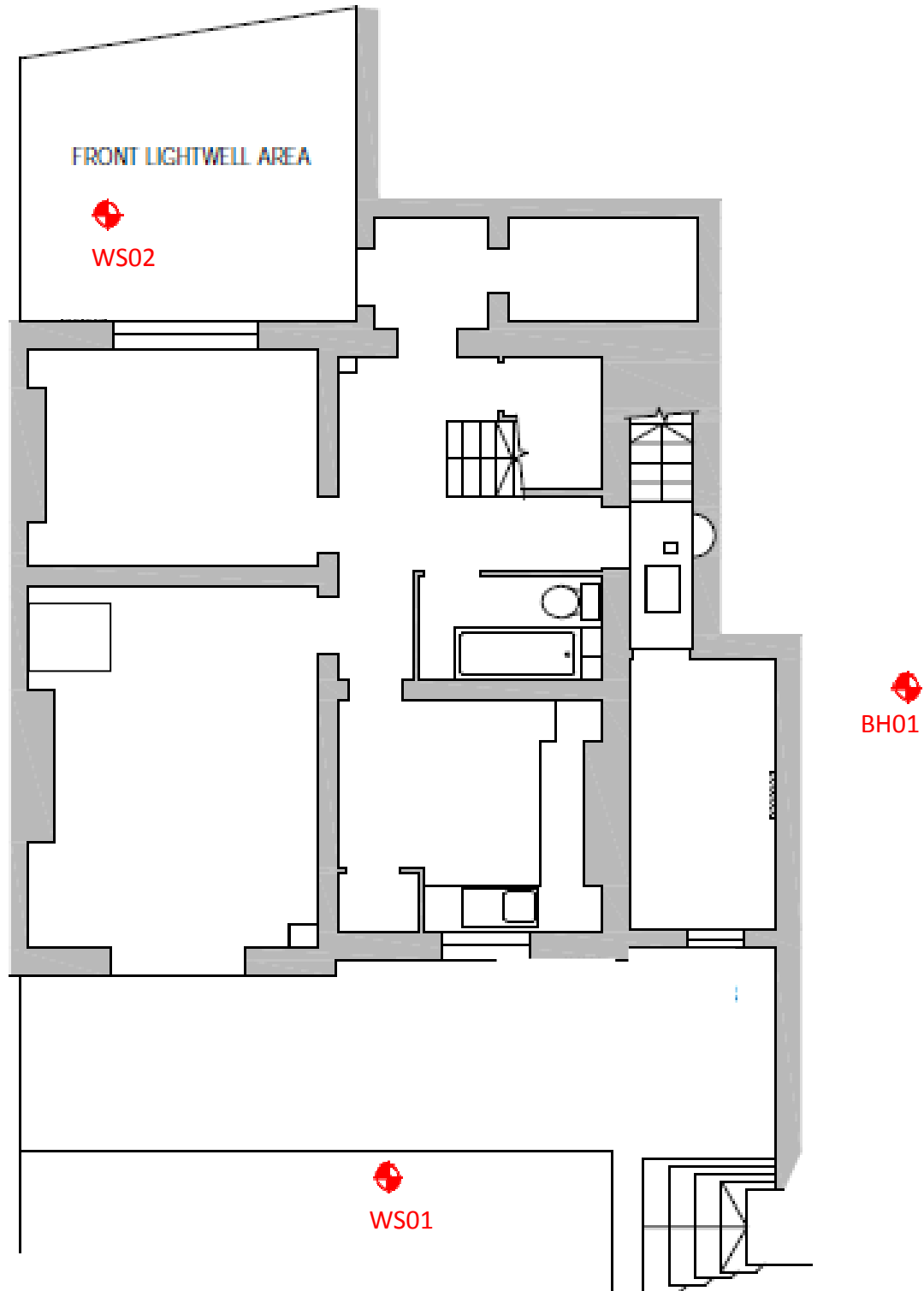
FIGURE 1

Created By:
JAA

Checked:
[Signature]

Approved:
[Signature]

Date:
March 2014



Approximate Exploratory Hole Location Plan

Scale: NTS

FIGURE 2



Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

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E-mail: richardsons@botanical.net
Web: www.botanical.net

Your ref: **J Connaughton**

Our ref: 73/3515

07/03/2014

Dear Sirs

24 Park Village East

The samples you sent in relation to the above on 25/02/2014 (received by us on 03/03/2014) have been examined. The structure was referable as follows:

BH01, 0.9m

1 root: PLATANUS (Plane). 3 further samples, not examined in detail appeared similar under low magnification.

1 root: FRAXINUS (Ash). A further sample, not examined in detail appeared similar under low magnification.

BH02, 1.0m

1 root: the family LEGUMINOSAE (a group of closely related trees: Robinia (False Acacia), Laburnum, Sophora (Pagoda tree), Gleditsia (Honey Locust), Cercis (Judas tree/Redbud), Albizia (Silk tree), Acacia (Mimosa), as well as such shrubs as Wisteria, Gorse and Brooms). 2 further roots, not examined in detail appeared similar under low magnification.

1 root: FRAXINUS (Ash). 4 further roots, not examined in detail appeared similar under low magnification.




I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.






Yours faithfully

Dr Ian B K Richardson


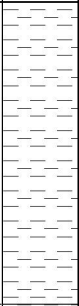



* * Try out our web site on www.botanical.net * *

Client: Michael Chester & Partners				Hole Diameter (mm): 150 to 20.00m				BOREHOLE NUMBER BH01 Sheet 1 of 3				
Method: Cable Percussion				Casing Dia. (mm): 150 to 2.50m								
Date Started: 03/02/14		Co-ordinates E N		Ground Level (m AOD)		Ref. No: 146100						
Backfill/Well		Water		Samples		In Situ Tests		Reduced	Depth & (Thickness)	Description of Strata		Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results	Level (mAOD)	(m)				
			0.50	D					(0.25) 0.25	Gravel driveway over compacted granular roadstone material - Driller's Description.		
			1.00	D					(0.95)	Firm, brown, slightly gravelly, slightly fine to coarse sandy CLAY with rare pockets/ lenses of light brown clay. Gravel is sub-angular to rounded, fine to coarse flint, chert, brick, tile and mortar.		
			1.20 - 1.65	U		U = 40			1.20	(Made Ground)		
			1.70	D					(0.65)	Firm, light brown, CLAY (Reworked London Clay Formation?)		
			2.00 - 2.45	D	S	N = 12			1.85	Stiff, light brown CLAY with traces of selenite of fine sand size.		
			2.50	D					(0.65)			
			3.00 - 3.10	U		U = 100			2.50 2.60	CLAYSTONE recoverd as yellow brown, angular and sub-angular, fine to coarse gravel size fragments with some yellow brown silt and occasional pockets/ lenses of stiff brown clay.		
			3.00 - 4.00	D					(0.45) 3.05 (0.25) 3.30	(Reworked London Clay Formation?)		
			4.00 - 4.45	D	S	N = 21			(1.20)	Stiff, light brown CLAY with traces of selenite of fine sand size. (Reworked London Clay Formation?)		
			4.50	D								
			5.00 - 5.45	U		U = 65			4.50	CLAYSTONE recoverd as yellow brown, angular and sub-angular, fine to coarse gravel size fragments with some yellow brown silt and occasional pockets/ lenses of stiff brown clay. (Reworked London Clay Formation?)		
			5.50	D						Very stiff, brown CLAY with rare medium gravel size pocket of orange brown mudstone with selenite up to medium sand size. (Weathered London Clay Formation)		
			6.00 - 6.45	D	S	N = 28				Stiff becoming very stiff from 7.5m, brown CLAY with some selenite up to fine gravel size. Medium gravel size pocket of claystone observed in SPT sample at 6.0-6.45m. Sub-rounded, fine gravel size pyrite observed in sample at 9.5m. (London Clay Formation)		
			6.50	D								
			7.00 - 7.45	U		U = 80						
			7.50	D					(6.50)			
			8.00 - 8.45	D	S	N = 29						
			8.50	D								
			9.00 - 9.45	U		U = 90						
			9.50	D								
Continued on next sheet												
General Remarks: 1. Hole remained dry and stable whilst open. 2. Chiselling techniques used for 30min to advance borhole from 3.05m to 3.3m below ground level. 3. Roots and rootlets observed to 2.45m below ground level and traces of decomposed root down to 4.5m below ground level.												
Driller:	IP	BOREHOLE RECORD Scale 1:50 See Key Sheet for explanation of symbols, etc.						CET INFRASTRUCTURE Giving our all				
Logged:	JAC											
Checked:		24 Park Village East						FIG A1				
Appr'd:												






Client: Michael Chester & Partners				Hole Diameter (mm): 150 to 20.00m				BOREHOLE NUMBER BH01 Sheet 2 of 3				
Method: Cable Percussion				Casing Dia. (mm): 150 to 2.50m								
Date Started: 03/02/14		Co-ordinates E N		Ground Level (m AOD)		Ref. No: 146100						
Backfill/Well		Water	Samples		In Situ Tests		Reduced	Depth & (Thickness) (m)	Description of Strata		Legend	
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results	Level (mAOD)					
			10.00 - 10.45	D	S	N = 30			Stiff becoming very stiff from 7.5m, brown CLAY with some selenite up to fine gravel size. Medium gravel size pocket of claystone observed in SPT sample at 6.0-6.45m. Sub-rounded, fine gravel size pyrite observed in sample at 9.5m.			
			10.50	D								
			11.00 - 11.45	U		U = 90		11.00	Very stiff becoming hard at 14.0m, grey CLAY with traces of selenite to fine sand size, medium gravel size pockets of claystone at 14.5m and rare sub-rounded coarse gravel size pyrite at 18.5m. (London Clay Formation)			
			11.50	D								
			12.00 - 12.45	D	S	N = 36						
			12.50	D								
			13.00 - 13.45	U		U = 100						
			13.50	D								
			14.00 - 14.45	D	S	N = 36						
			14.50	D								
			15.00 - 15.45	U		U = 100						
			15.50	D								
			16.00 - 16.45	D	S	N = 38		(9.45)				
			16.50	D								
			17.00 - 17.45	U		U = 100						
			17.50	D								
			18.00 - 18.45	D	S	N = 40						
			18.50	D								
			19.00 - 19.45	U		U = 100						
			19.50	D								
												Continued on next sheet
General Remarks:												
Driller:	IP	BOREHOLE RECORD Scale 1:50 See Key Sheet for explanation of symbols, etc.						 INFRASTRUCTURE Giving our all				
Logged:	JAC											
Checked:		24 Park Village East						FIG A1				
Appr'd:												

Client: Michael Chester & Partners				Hole Diameter (mm): 150 to 20.00m				BOREHOLE NUMBER BH01 Sheet 3 of 3			
Method: Cable Percussion				Casing Dia. (mm): 150 to 2.50m							
Date Started: 03/02/14		Co-ordinates E N		Ground Level (m AOD)		Ref. No: 146100					
Backfill/Well		Water	Samples		In Situ Tests		Reduced	Depth & (Thickness)	Description of Strata		Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results	Level (mAOD)	(m)			
20.45			20.00 - 20.45	D	S	N = 41		20.45	Very stiff becoming hard at 14.0m, grey CLAY with traces of selenite to fine sand size, medium gravel size pockets of claystone at 14.5m and rare sub-rounded coarse gravel size pyrite at 18.5m. End of Borehole at 20.45 m		
General Remarks:											
Driller:	IP	BOREHOLE RECORD Scale 1:50 <small>See Key Sheet for explanation of symbols, etc.</small>						 CET <small>INFRASTRUCTURE</small> Giving our all			
Logged:	JAC										
Checked:		24 Park Village East						FIG A1			
Appr'd:											

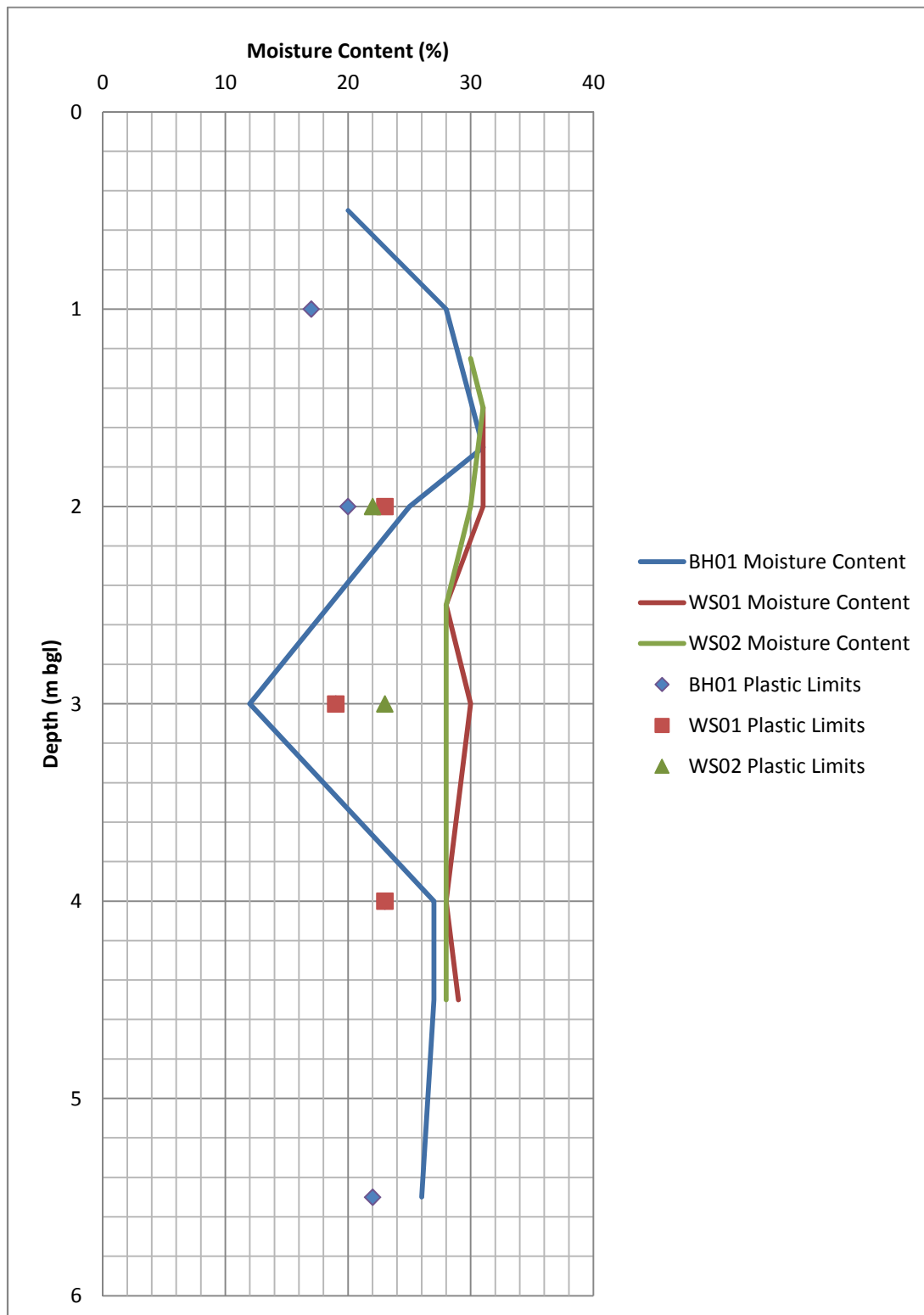
Client: Michael Chester & Partners				Hole Diameter (mm):				BOREHOLE NUMBER WS01 Sheet 1 of 2						
Method: Window Sampler				95 tapering with depth to 6.00m										
Date: 04/02/14		Co-ordinates ^E _N		Ground Level (m AOD)		Ref. No: 146100								
Backfill/Well	Water	Samples		In Situ Tests	Reduced	Depth & (Thickness) (m)	Description of Strata			Legend				
(m)	Legend	Depth (m)	Depth (m)	Type	Results	Level (m AOD)								
		0.90		D			(0.55)	Grass over firm brown, slightly fine sandy, slightly gravelly CLAY. Gravel consists of angular to sub-rounded, fine to coarse brick, concrete and rare yellow mortar. Concrete encountered, between 0.45 - 0.55m below ground level, covering 10% of the exploratory hole. (Made Ground)						
							0.55							
			0.90		D				Firm becoming stiff from 1.1m, fissured, brown CLAY with selenite to medium sand size from 1.1m and rare medium gravel size pocket of yellow brown sand. (Weathered London Clay Formation)					
			1.20 1.25		D	pp = 3.5 pp = 3.8								
			1.50		D	pp = 3.8			(5.45)					
			1.75		D	pp = 4.2								
			2.00		D	pp = 4.0								
			2.25		D	pp = 3.0								
			2.50		D	pp = 3.0								
			3.00		D	pp = 3.9								
			3.25		D	pp = 3.8								
			3.50		D	pp = 4.0								
			3.75		D	pp = 4.2								
			4.00		D	pp = 4.2								
			4.25		D	pp = 4.5								
	4.50		D	pp = 3.7										
	4.75		D	pp = 3.8										
							Continued on next sheet							
General Remarks: 1. Borehole remained stable whilst open. 2. Water ingress noted at 0.55m below ground level. 3. Roots and rootlets observed to 2.0m below ground level.														
Driller: CB		BOREHOLE RECORD Scale 1:25 See Key Sheet for explanation of symbols, etc.					CET INFRASTRUCTURE Giving our all							
Logged: JAC														
Chked:		24 Park Village East					FIG A2							
Appr'd:														

Client: Michael Chester & Partners					Hole Diameter (mm):			BOREHOLE NUMBER WS01 Sheet 2 of 2	
Method: Window Sampler					95 tapering with depth to 6.00m				
Date: 04/02/14		Co-ordinates ^E _N		Ground Level (m AOD)		Ref. No: 146100			
Backfill/Well	Water	Samples		In Situ Tests	Reduced	Depth & (Thickness)	Description of Strata		Legend
(m)	Legend	Depth (m)	Type	Results	Level (m AOD)	(m)			
6.00		5.00	D	pp = 4.2		6.00	Firm becoming stiff from 1.1m, fissured, brown CLAY with selenite to medium sand size from 1.1m and rare medium gravel size pocket of yellow brown sand.		
		5.25	D	pp = 4.6					
		5.50	D	pp = 4.3					
		5.75	D	pp = 4.3					
		6.00	D	pp = 4.2					
							End of Borehole at 6.00 m		
<div>General Remarks: 1. Borehole remained stable whilst open. 2. Water ingress noted at 0.55m below ground level. 3. Roots and rootlets observed to 2.0m below ground level.</div>									
Driller:	CB	BOREHOLE RECORD Scale 1:25 <small>See Key Sheet for explanation of symbols, etc.</small>							
Logged:	JAC								
Chked:		24 Park Village East					FIG A2		
Appr'd:									

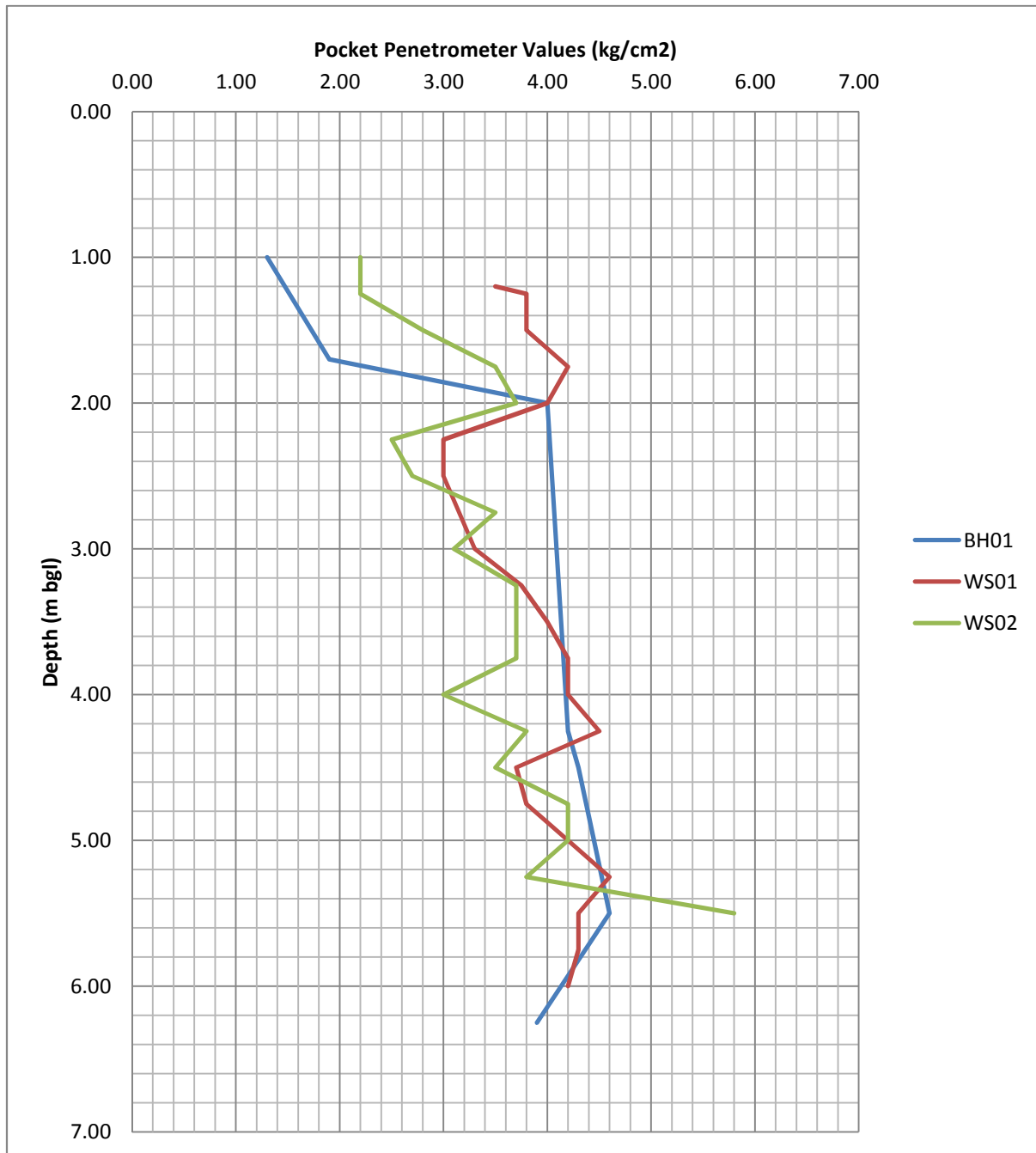
Client: Michael Chester & Partners						Hole Diameter (mm):			BOREHOLE NUMBER WS02 Sheet 1 of 2	
Method: Window Sampler						95 tapering with depth to 5.60m				
Date: 04/02/14		Co-ordinates ^E _N		Ground Level (m AOD)		Ref. No: 146100				
Backfill/Well	Water	Samples		In Situ Tests		Reduced	Depth &			
(m)	Legend	Depth (m)	Depth (m)	Type	Results	Level (m AOD)	(Thickness) (m)	Description of Strata		Legend
								York stone paving over concrete. (Made Ground)		
								Firm brown, slightly gravelly, slightly fine and medium sandy CLAY. Gravel consists of angular to sub rounded, fine and medium brick, flint, concrete mortar and slate. (Made Ground)		
		1.00		D	pp = 2.2			Firm becoming stiff from 1.9m, brown CLAY with rare medium gravel size pockets of yellow brown silt/ fine sand at 0.3m and rare rounded medium gravel size pyrite at 4.0m. Some medium sand size selenite from 1.9m. (Weathered London Clay Formation)		
		1.25		D	pp = 2.2					
		1.50		D	pp = 2.8					
		1.75		D	pp = 3.5					
		2.00		D	pp = 3.7					
		2.25		D	pp = 2.5					
		2.50		D	pp = 2.7					
		2.75		D	pp = 3.5					
		3.00		D	pp = 3.1		(5.30)			
		3.25		D	pp = 3.7					
		3.50		D	pp = 3.7					
		3.75		D	pp = 3.7					
		4.00		D	pp = 3.0					
		4.25		D	pp = 3.8					
		4.50		D	pp = 3.5					
		4.75		D	pp = 4.2					
Continued on next sheet										
General Remarks: 1. Borehole remained dry whilst open. 2. Hole terminated at 5.6m below ground level due to collapse. 3. Roots and rootlets observed to 2.5m below ground level.										
Driller:		CB		BOREHOLE RECORD Scale 1:25 <small>See Key Sheet for explanation of symbols, etc.</small>				CET INFRASTRUCTURE Giving our all		
Logged:		JAC								
Chked:				24 Park Village East				FIG A3		
Appr'd:										

Client: Michael Chester & Partners					Hole Diameter (mm):			BOREHOLE NUMBER WS02 Sheet 2 of 2
Method: Window Sampler					95 tapering with depth to 5.60m			
Date: 04/02/14		Co-ordinates ^E _N		Ground Level (m AOD)		Ref. No: 146100		
Backfill/Well	Water	Samples		In Situ Tests	Reduced	Depth & (Thickness)	Description of Strata	Legend
(m)	Legend	Depth (m)	Type	Results	Level (m AOD)	(m)		
5.60		5.00	D	pp = 4.2		5.60	Firm becoming stiff from 1.9m, brown CLAY with rare medium gravel size pockets of yellow brown silt/ fine sand at 0.3m and rare rounded medium gravel size pyrite at 4.0m. Some medium sand size selenite from 1.9m.	
		5.25	D	pp = 3.8				
		5.50	D	pp = 5.8				
<i>End of Borehole at 5.60 m</i>								
<div>General Remarks: 1. Borehole remained dry whilst open. 2. Hole terminated at 5.6m below ground level due to collapse. 3. Roots and rootlets observed to 2.5m below ground level.</div>								
Driller:	CB	BOREHOLE RECORD Scale 1:25 <small>See Key Sheet for explanation of symbols, etc.</small>					 INFRASTRUCTURE Giving our all	FIG A3
Logged:	JAC							
Chked:		24 Park Village East						
Appr'd:								

Moisture Content and Plastic Limit Vs. Depth



Pocket Penetrometer Vs. Depth Profiles



Triaxial Summery Table

BH No.	Depth (m)	MC (%)	Density Test (Mg/m ³)		Cell Pressure (kN/m ²)	Shear Stress (kN/m ²)
			Bulk	Dry		
BH01	1.2	31	1.95	1.48	25	61
BH01	5.0	27	2.02	1.59	100	127
BH01	7.0	30	1.92	1.48	140	68
BH01	9.0	27	2.00	1.58	180	138
BH01	11.0	28	2.04	1.60	220	144
BH01	13.0	28	1.98	1.54	260	128
BH01	15.0	25	2.01	1.61	300	125
BH01	17.0	22	2.05	1.68	340	265
BH01	19.0	25	2.03	1.62	380	233

SITE INVESTIGATION FACTUAL REPORT

Report No: 146100
Client: Michael Chester & Partners
Site: 24 Park Village East, Regents Park

Client Ref: -Michael Chester
Date of Visit:



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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✉ enquiries@cet-uk.com
💻 www.cet-uk.com

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

Our Ref : 146100

Location : 24, Park Village East

Work carried
out for:

Laboratory Testing Results

Date Sampled: Unknown

Date Received : 13/03/2014

Date Tested : 14/03/2014

Date of Report : 21/03/2014

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) [8]	Soil Sample Suction (kPa) [9]	In situ Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	pH Value [11]	Sulphate Content (g / l)		Class [14]
TP/BH No	Depth (m)															SO3	SO4	
																[12]	[13]	
WS01	1.2	D									168	73						
	1.75	D									168	415						
	2.25	D									168	256						
	4.875	D									168	582						
2.25m was used as a mean depth of 2.0m -2.5m sample																		
4.875m was used as a mean depth of 4.75m -5.0m sample																		

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 S9a adapted from BRE IP 4/93

[9] Values of shear strength were determined in situ by CET using

a Pilcon hand vane or Geonor vane (GV).

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

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

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

[13] SO₄ = 1.2 x SO₃

[14] 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

Key

D Disturbed sample (small)

B Disturbed sample (bulk)

U Undisturbed sample

W Groundwater sample

ENP Essentially Non-Plastic by inspection

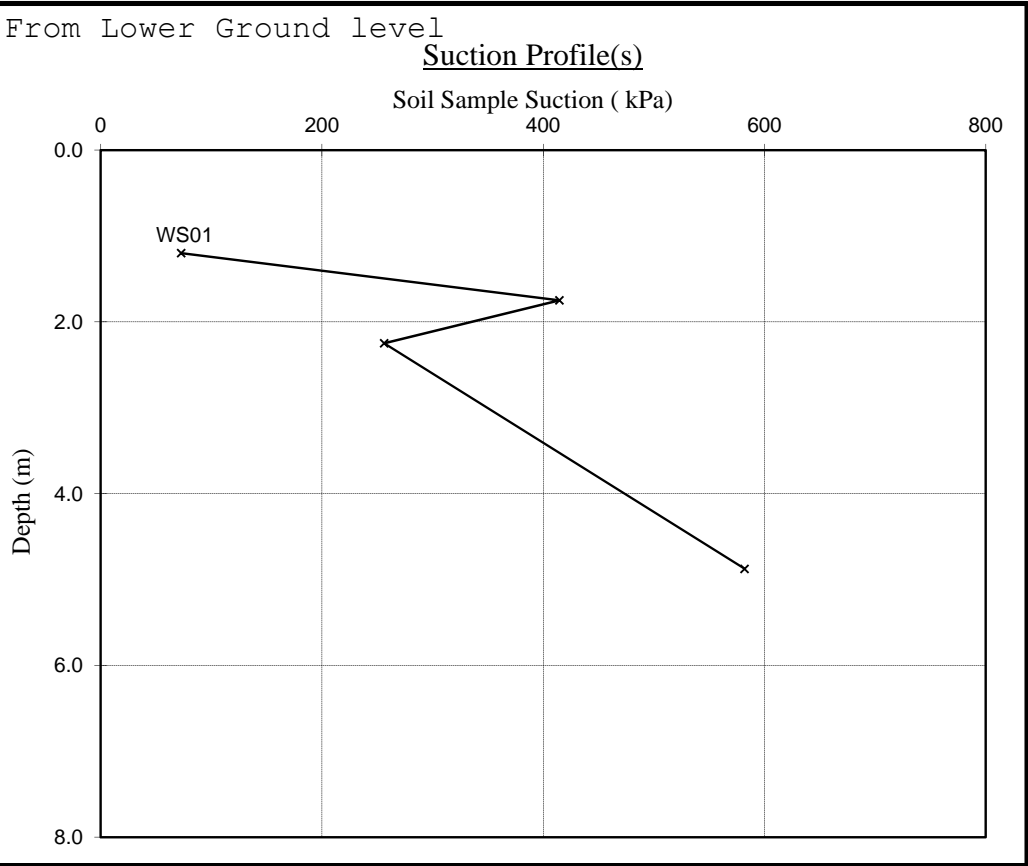
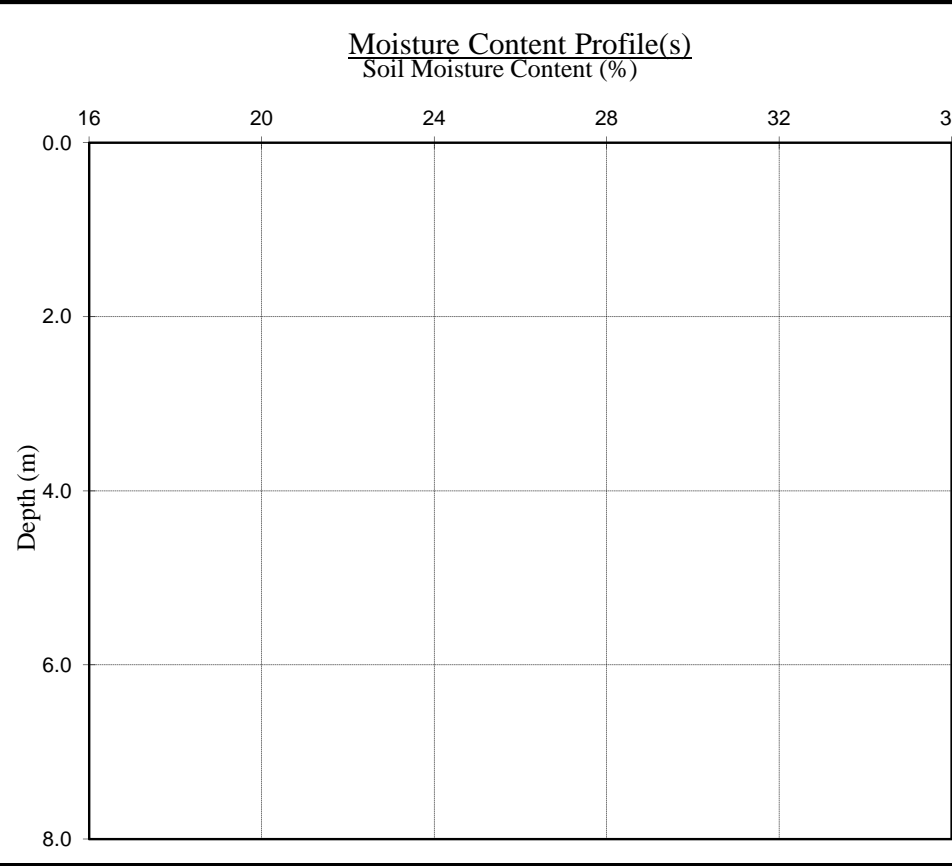
U/S Underside of Foundation

Our Ref : 146100
Location : 24, Park Village East
Work carried out for:

Moisture Content and Suction Profiles

Date Sampled : Unknown
Date Received : 13/03/2014
Date Tested : 14/03/2014
Date of Report : 21/03/2014

Note : Unless specifically noted the profiles have not been related to a site datum.



Notes
1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

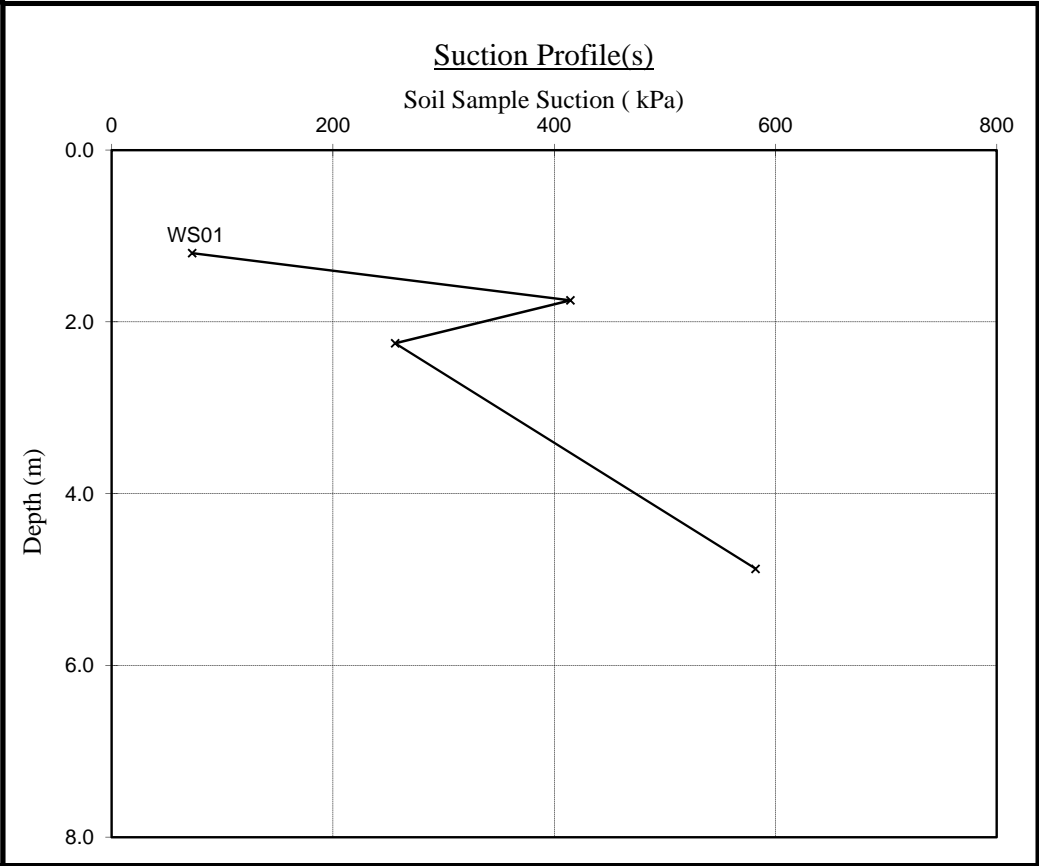
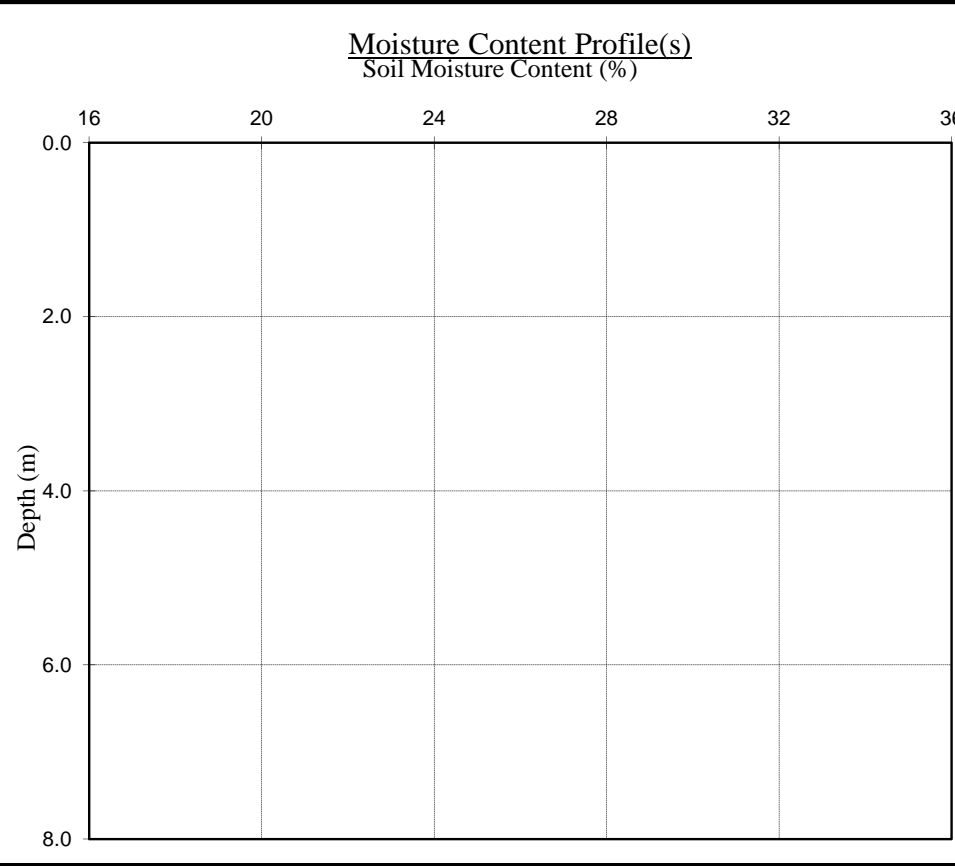
Note
When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. 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.

Our Ref : 146100
Location : 24, Park Village East
Work carried out for:

Moisture Content and Suction Profiles

Date Sampled : Unknown
Date Received : 13/03/2014
Date Tested : 14/03/2014
Date of Report : 21/03/2014

Note : Unless specifically noted the profiles have not been related to a site datum.



Notes
1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

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.

Our Ref : 146100

Location : 24, Park Village East

Work carried
out for:

Laboratory Testing Results

Date Sampled: Unknown

Date Received : 13/03/2014

Date Tested : 14/03/2014

Date of Report : 21/03/2014

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) [8]	Soil Sample Suction (kPa)	In situ Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	pH Value [11]	Sulphate Content (g / l)		Class [14]
TP/BH No	Depth (m)															SO3 [12]	SO4 [13]	
BH01	1.425	D									168	627						
	5.225	D									168	759						
	7.225	D									168	528						
	1.425m was used as a mean depth of 1.2m - 1.65m sample																	
5.225m was used as a mean depth of 5.0m - 5.45m sample																		
7.225m was used as a mean depth of 7.0m -7.45m sample																		

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 S9a adapted from BRE IP 4/93

[9] Values of shear strength were determined in situ by CET using

a Pilcon hand vane or Geonor vane (GV).

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

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

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

[13] SO₄ = 1.2 x SO₃

[14] 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

Key

D Disturbed sample (small)

B Disturbed sample (bulk)

U Undisturbed sample

W Groundwater sample

ENP Essentially Non-Plastic by inspection

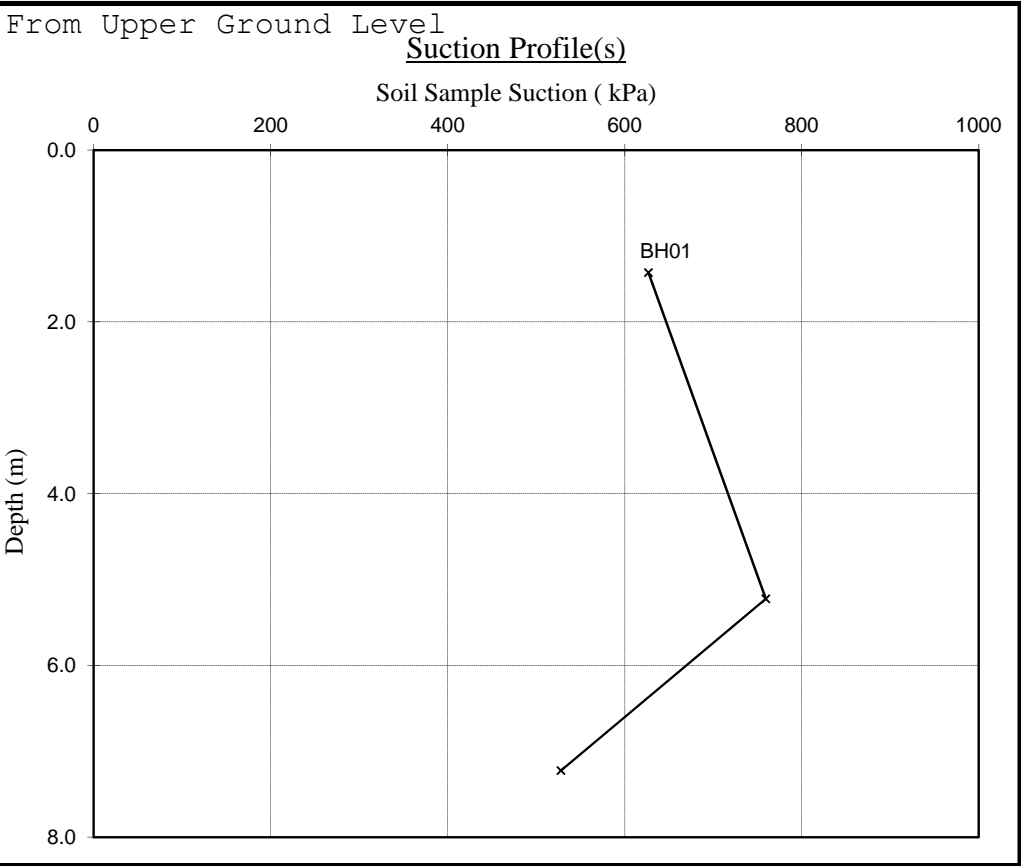
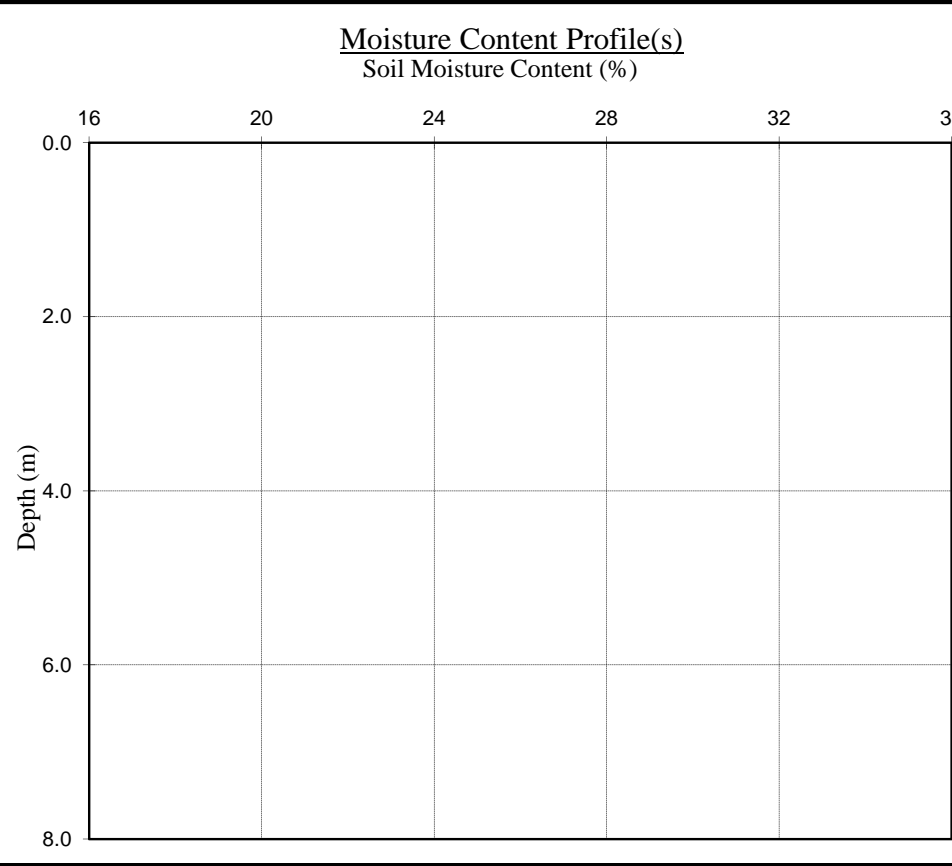
U/S Underside of Foundation

Our Ref : 146100
Location : 24, Park Village East
Work carried out for:

Moisture Content and Suction Profiles

Date Sampled : Unknown
Date Received : 13/03/2014
Date Tested : 14/03/2014
Date of Report : 21/03/2014

Note : Unless specifically noted the profiles have not been related to a site datum.



Notes
1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

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.