

RESULTS OF SUBSOIL INVESTIGATION

ADDRESS:

58 Gloucester Crescent
London
NW1 7EG

CLIENT:

Redbourne Consultants
3 Redbourne Avenue
Finchley
London
N3 2BP

OUR REF: A.3681

YOUR REF: RC 1541/16

DATE: 24th February 2017

MERIDIAN SOILS LIMITED

Electron House
Office & Technology Centre
West Hanningfield Road
Great Baddow
Chelmsford
Essex
CM2 8JT

Tel: 01245 473113

Email: mail@meridiansoils.co.uk Web: www.meridiansoils.co.uk

Meridian Soils Limited

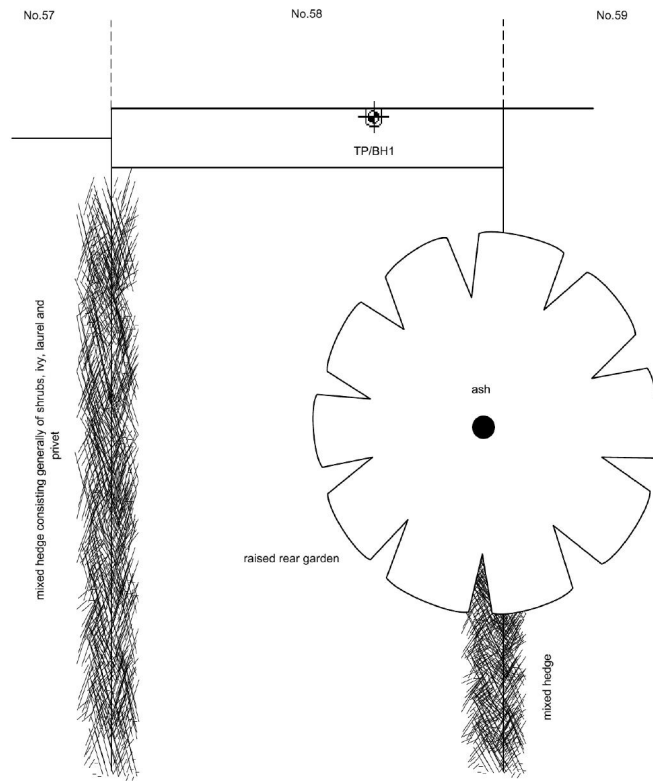
Office & Technology Centre, West Hanningfield Road, Great Baddow, Essex. CM2 8JT

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Location:	58 Gloucester Crescent, London, NW1 7EG	Date:	February 2017
Title:	Site Location Plan	Ref:	A.3681



Scale: NTS

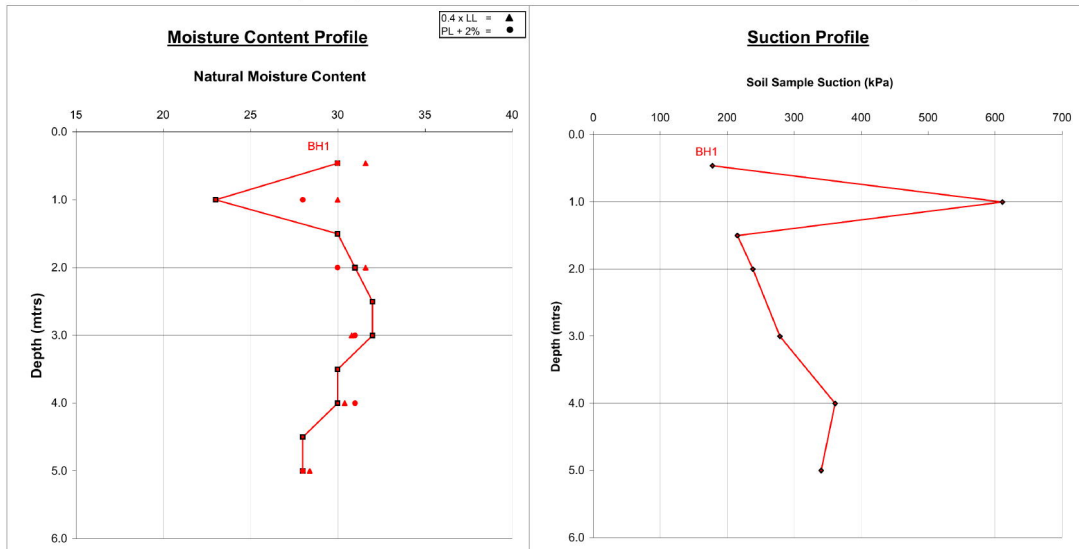
Meridian Soils Limited		TP/BH Ref No.:-	1		Sheet 1 of :-	1		
		FOUNDATION DETAILS:-				Note:-		
JOB REF:-	A.3681							
LOCATION:-	58 Gloucester Crescent, London, NW1 7EG							
METHOD OF EXCAVATION:-	Hand Auger							
SITE WORK:-	1.2.17							
Description	Legend	Depth	Root observations	Samples		Tests		Field observations
70mm brick paviors over Builders Sand.		0.15						
MADE GROUND: Firm mottled dark brown silty CLAY, fine to medium sand, fine to medium gravel, brick, mortar, coal and clinker fragments.		4.60	0.46	R.1-D.1	0.46	V.=63	0.46	Abundant fine and fibrous roots.
			1.00	D.2	1.00	V.=150+	1.00	Slight fibrous roots, sample appears friable.
				D.3	1.50	V.=104	1.50	Fine crystal deposits.
				D.4	2.00	V.=128	2.00	Fine crystal deposits.
				D.5	2.50	V.=150+	2.50	
Firm/stiff becoming very stiff to stiff brown silty CLAY, partings and occasional pockets of fine sand and ironstaining.				D.6	3.00	V.=144	3.00	Slight fine crystal deposits.
				D.7	3.50	V.=150	3.50	
				D.8	4.00	V.=150+	4.00	
				D.9	4.50	V.=150+	4.50	
				D.10	5.00	V.=150+	5.00	
END OF BOREHOLE.		5.00						Borehole dry on completion.
Key to sample testing/collection.								
U. Undisturbed sample	D. Disturbed bag sample	R. Root sample						
B. Bulk disturbed sample	W. Water sample	V. Shear Vane test						
P. Mackintosh Probe/ blows per 75mm.								

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 Location: 58 Gloucester Crescent, London, NW1 7EG.

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 Date: 1st February 2017



NOTES

- 1 Unless specifically noted, the profiles have not been related to a site datum.
- 2 If plotted, 0.4 LL and PL +2 (after Driscoll, 1983) should only be applied to London Clay (and similar overconsolidated clays) at shallow depths.

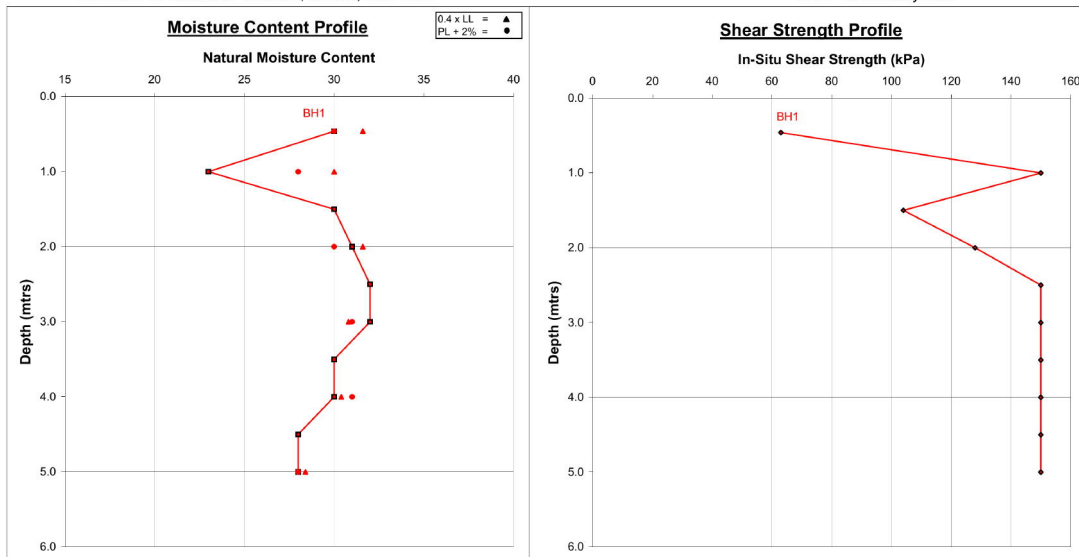
- 3 If shown, the theoretical equilibrium profiles (defining the assumed typical range for the value of $K_o=1.0$ and $K_o=2.5$) are based on conventional assumptions associated with London Clay and other similarly overconsolidated clays at shallow depths and include a component of sample disturbance appropriate to the method of soil sampling and any recompaction. The theoretical equilibrium profile lines are only set as a guide and would be subject to change dependant upon the subsoil conditions.

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- NOTES
- 1 Unless specifically noted, the profiles have not been related to a site datum
 - 2 If plotted, 0.4 LL and PL +2 should only be applied to London Clay (and similar overconsolidated clays) at shallow depths. (Driscoll, 1983).
 - 3 Unless otherwise stated, values of Shear Strength were determined in situ using a Pilon Hand Vane the calibration of which is limited to a maximum reading of 150 kPa

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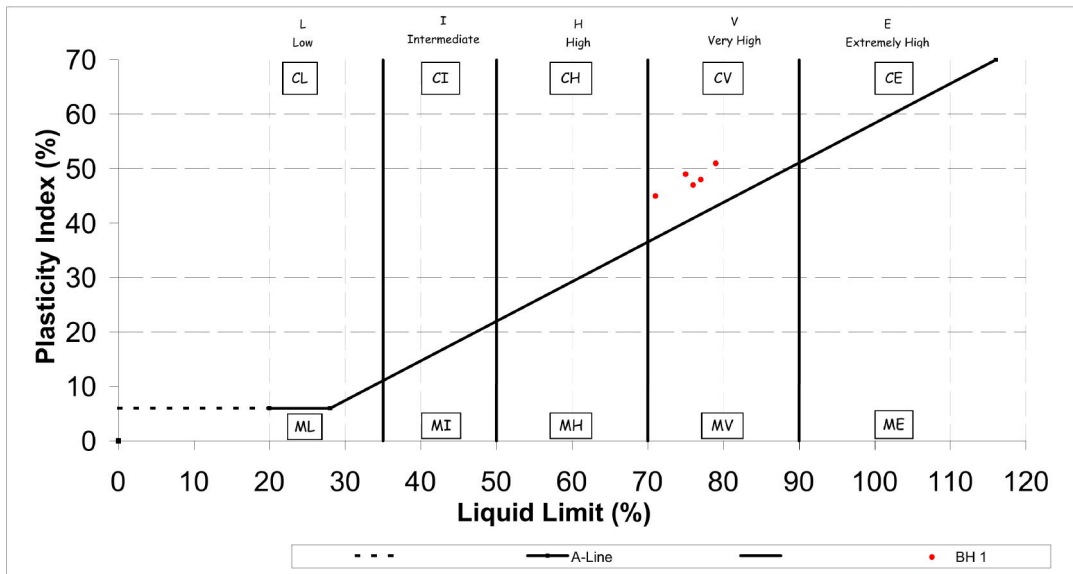
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In Compliance with BS. 5930: 1981

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TP/BH No.	Sample No.	Depth mtrs.	Moisture Content %	Passing 0.425um sieve %	Equivalent Moisture %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Soil Class	Filter Paper contact time (Hours)	Soil Sample Suction (kPa)	Water Soluble Sulphate	Class	pH value	In situ Shear Vane Strength (kPa) Mackintosh Probe (Blows Per 75mm)
1	D.1	0.46 (U.S)	30	100	30	79	28	51	CV	168	178				V.= 63
	D.2	1.00	23	100	23	75	26	49	CV	168	611				V.= 150
	D.3	1.50	30							168	215				V.= 104
	D.4	2.00	31	100	31	79	28	51	CV	168	238				V.= 128
	D.5	2.50	32												V.= 150
	D.6	3.00	32	100	32	77	29	48	CV	168	279				V.= 150
	D.7	3.50	30												V.= 150
	D.8	4.00	30	100	30	76	29	47	CV	168	361				V.= 150
	D.9	4.50	28												V.= 150
	D.10	5.00	28	100	28	71	26	45	CV	168	340				V.= 150

References

BS 1377:Part 2:1990

BS 5930:1981

BRE IP 4/93

Shear strength values determined in-situ using a pilcon direct reading hand vane tester unless stated otherwise.



Root identification
Vegetation surveys
Tree-Building investigations
Plant taxonomy

Richardson's Botanical Identifications

Dr Ian B K Richardson
BSc, PhD, CBiol, MiBiol, MiHort, FLS
James Richardson
BSc (Hons. Biology)

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

Your ref: **A-3681**

Our ref: 74/8902

14/02/2017

Dear Sirs

58 Gloucester Crescent, Camden

The samples you sent in relation to the above on 03/02/2017 (received by us on 06/02/2017) have been examined. The structure was referable as follows:

TP1, u/s footing - R.1

1 root: FRAXINUS (Ash). 14 further samples, not examined in detail appeared similar under low magnification. Alive, recently*.

15 samples: unfortunately insufficient cells for identification.

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

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

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Identified with no information on vegetation, on or off site.

Report commissioned by





