

Meridian Site Investigations Limited

20 Dukes Avenue

Southminster

Essex, CM0 7HA.

Paul: 07765353979

Jon: 07944599511

Web: <http://www.meridiansi.co.uk>

Email: meridiansiteinvestigation@gmail.com

Factual Report

Client: Neil Hawes Associates Limited

Site Address: 102 Florence Road, London, N4 4DR.

Date of site work: 21st January 2026

Meridian Site Investigations Limited

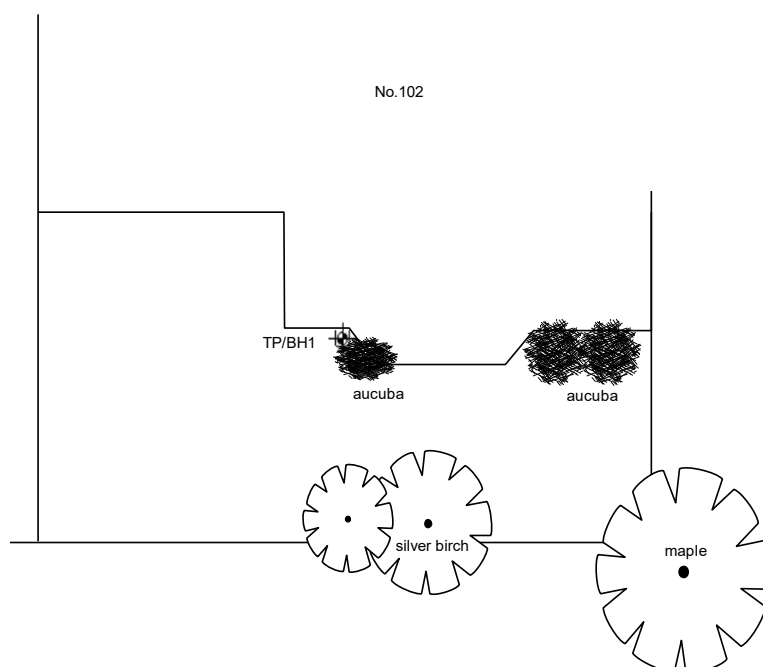
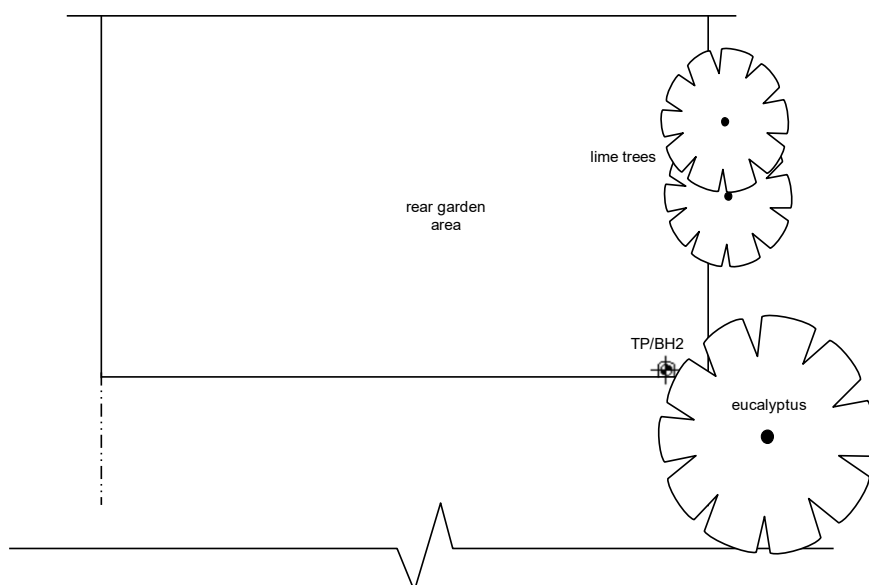
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Location:	102 Florence Road, London, N4 4DR.	Date:	January 2026
Title:	Site Location Plan	Ref:	MSI.1661



Scale: NTS

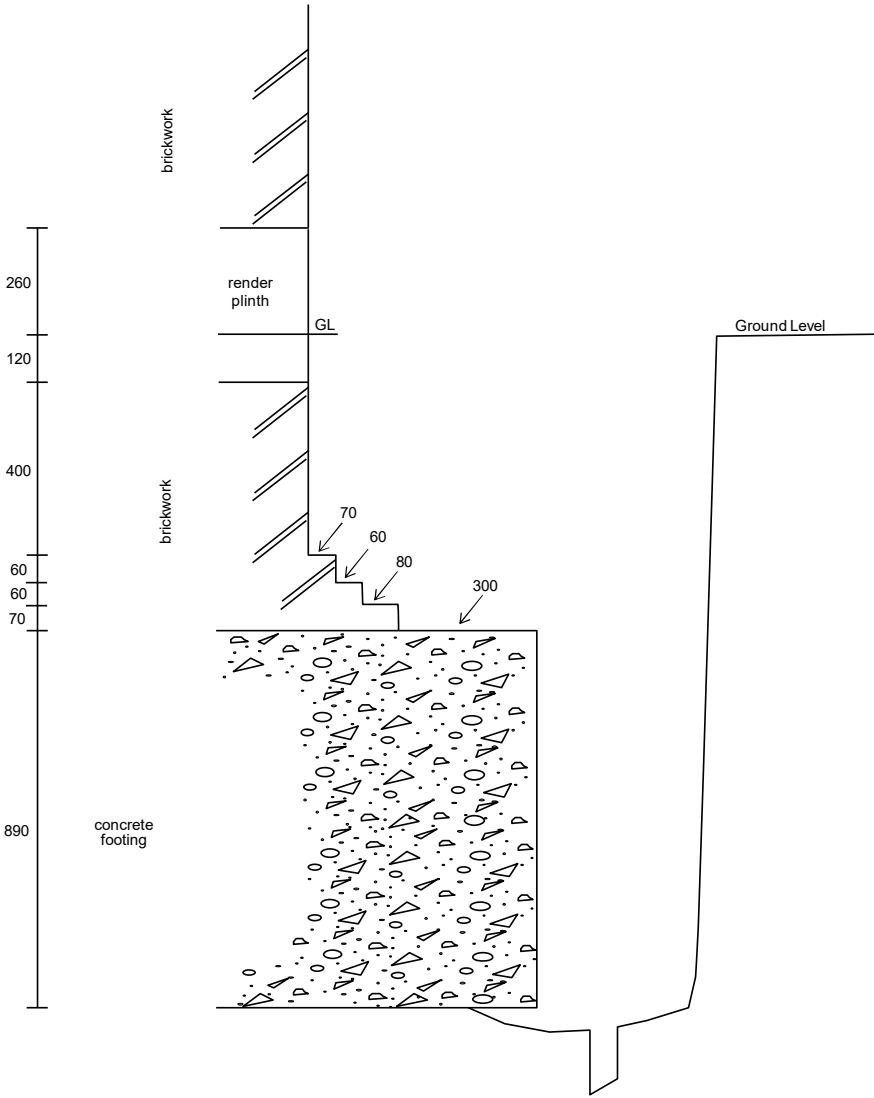
Meridian Site Investigations Limited			TP/BH Ref No.:-		1		Sheet 1 of :-		1		
			FOUNDATION DETAILS:-				Note:-				
			See attached sketch.								
JOB REF:-		MSI.1661									
LOCATION:-											
102 Florence Road, London, N4 4DR.											
METHOD OF EXCAVATION:-											
Hand Auger											
SITE WORK:-											
21.1.26											
Description			Legend	Depth	Root observations	Samples		Tests		Field observations	
						Type	Depth	Type	Depth		
Topsoil-MADE GROUND:				0.20							
MADE GROUND:											
Firm/stiff mottled brown silty CLAY, fine to medium sand, fine to medium gravel, fine brick, mortar, slate and concrete fragments.				0.1-0.8						Fine to coarse roots observed.	
U.S footing:				1.60	1.60	R.1-D.1	1.60	V.=92	1.60	Fine and fibrous roots, groundwater entering trial pit.	
					2.00	R.2-D.2	2.00	V.=103	2.00	Fine and fibrous roots.	
					2.50	D.3	2.50	V.=113	2.50	Fibrous roots observed.	
						D.4	3.00	V.=121	3.00		
Firm/stiff brown silty CLAY, partings and occasional pockets of fine silt and fine sand and ironstaining.						D.5	3.50	V.=129	3.50		
						D.6	4.00	V.=138	4.00		
						D.7	4.50	V.=140+	4.50		
						D.8	5.00	V.=140+	5.00		
END OF BOREHOLE.										Borehole dry on completion.	
Key to sample testing/collection.			R.	Root sample							
U. Undisturbed sample			D.	Disturbed bag sample							
B. Bulk disturbed sample			W.	Water sample							
			V.	Shear Vane test							
			P.	Mackintosh Probe/ blows per 75mm.							

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Paul: 0776535397 Jon: 07944599511 e-mail: meridiansiteinvestigation@gmail.com

Location:	102 Florence Road, London, N4 4DR.	Date:	January 2026
Title:	Trial Pit/Borehole 1 Main House	Ref:	MSI.1661

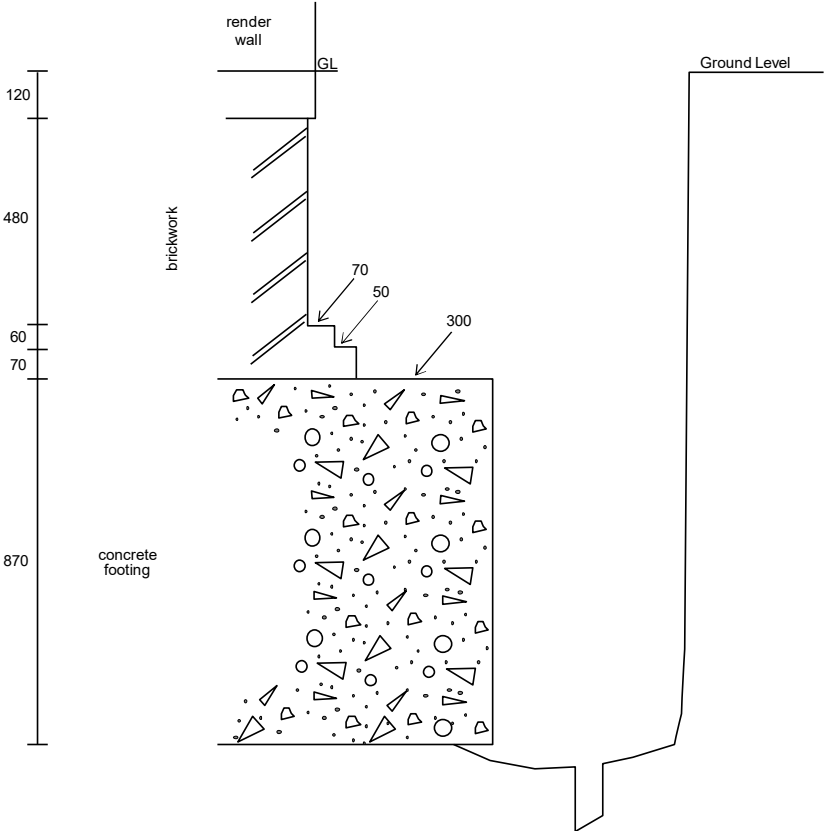


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Paul: 0776535397 Jon: 07944599511 e-mail: meridiansiteinvestigation@gmail.com

Location:	102 Florence Road, London, N4 4DR.	Date:	January 2026
Title:	Trial Pit/Borehole 1 Bay Window	Ref:	MSI.1661



Dimensions in mm.

1

Note:-

MSI.1661

LOCATION:-

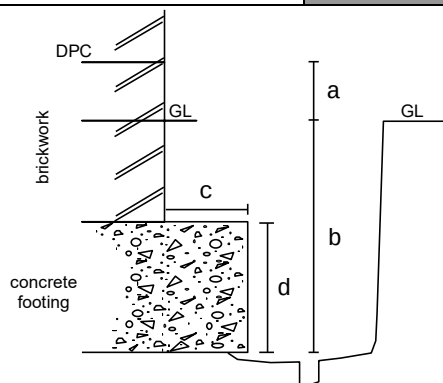
102 Florence Road, London, N4 4DR.

METHOD OF EXCAVATION:-

Hand Auger

SITE WORK:-

21.1.26



a= Depth to G.L

N/A

b= Depth to U/S

600

c= Projection

70

d= Thickness 1

500

Dimensions in mm.

Description	Legend	Depth	Root observations	Samples		Tests		Field observations					
				Type	Depth	Type	Depth						
50mm Block Paving over Builders SAND.		0.20											
Concrete.		0.50											
MADE GROUND: U.S footing:		0.60							R.1-D.1	0.60	V.=44	0.60	Fine and fibrous roots.
Firm mottled brown silty CLAY, fine to medium sand, fine to medium gravel, fine brick, mortar and concrete fragments.		1.20											
Firm becoing stiff brown silty CLAY, partings and occasional pockets of fine sand and ironstaining.		1.50							R.2-D.2	1.50	V.=56	1.50	Fine and fibrous roots.
									D.3	2.00	V.=79	2.00	
									D.4	2.50	V.=92	2.50	
									D.5	3.00	V.=108	3.00	
									D.6	3.50	V.=120	3.50	
									D.7	4.00	V.=134	4.00	
									D.8	4.50	V.=140+	4.50	
									D.9	5.00	V.=140+	5.00	
END OF BOREHOLE.								Borehole dry on completion.					
Key to sample testing/collection.													
U. Undisturbed sample B. Bulk disturbed sample	D. Disturbed bag sample W. Water sample	V. Shear Vane test P. Mackintosh Probe/ blows per 75mm.											

Meridian Soils Limited

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Tel: 01245 473113 E-mail: mail@meridiansoils.co.uk Web: www.meridiansoils.co.uk

Our Ref: S.16646

Location: 102 Florence Road, London, N4 4DR.

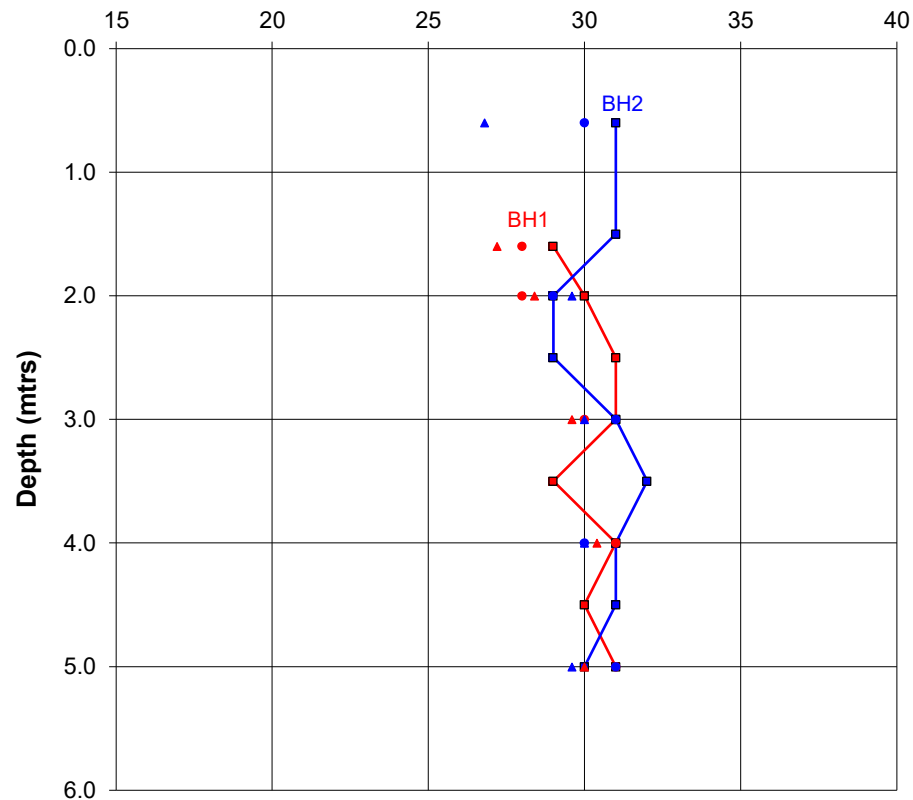
Client Ref: MSI.1661

Date: 9th February 2026

Moisture Content Profile

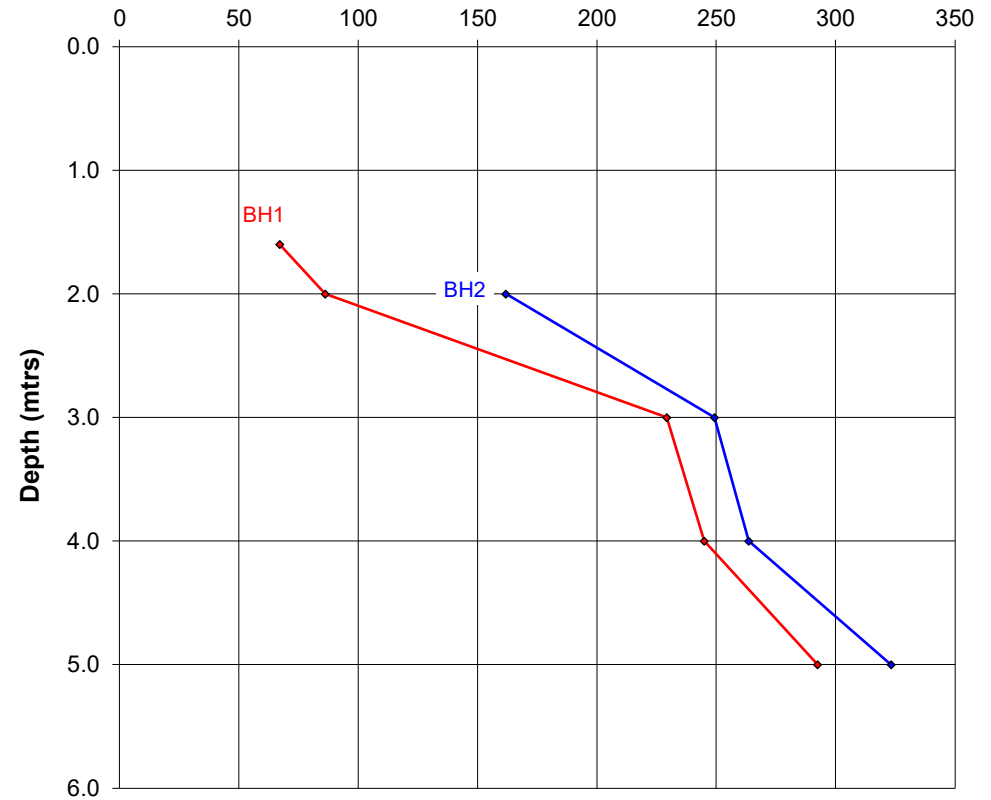
0.4 x LL = ▲
PL + 2% = ●

Natural Moisture Content



Suction Profile

Soil Sample Suction (kPa)



- 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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Our Ref: S.16646

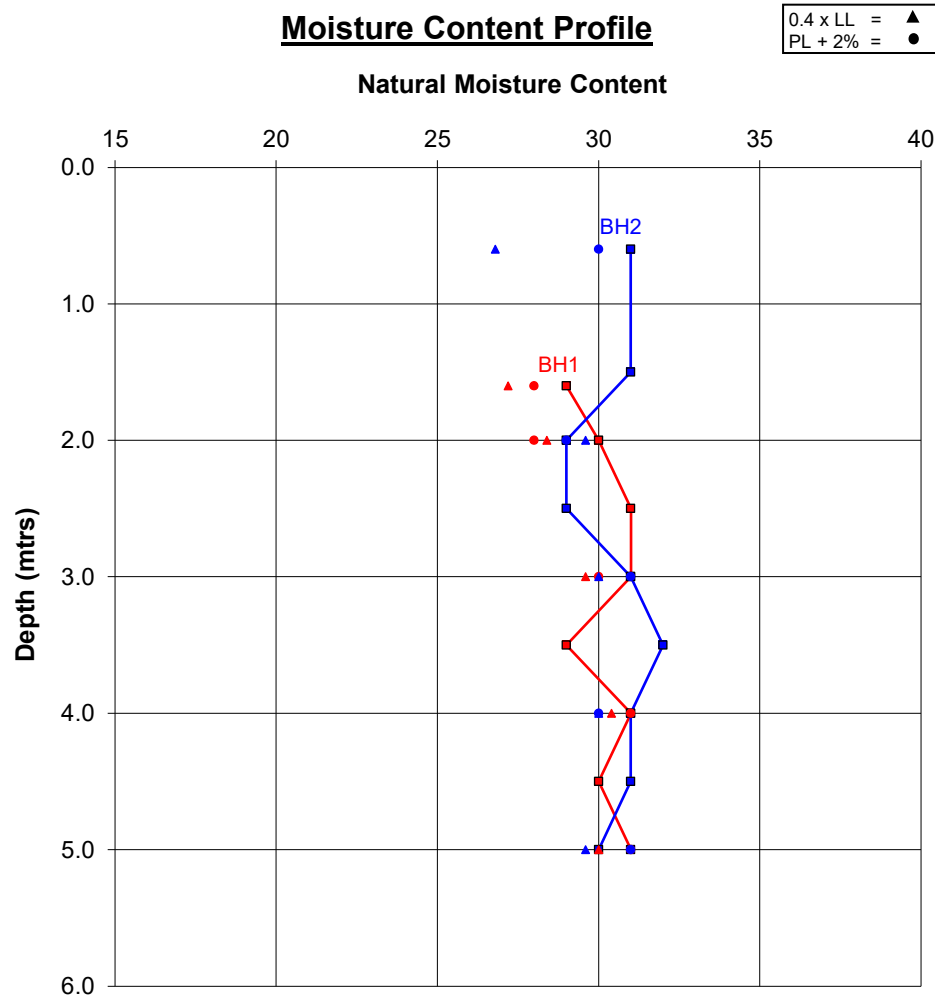
Location: 102 Florence Road, London, N4 4DR.

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Date: 9th February 2026

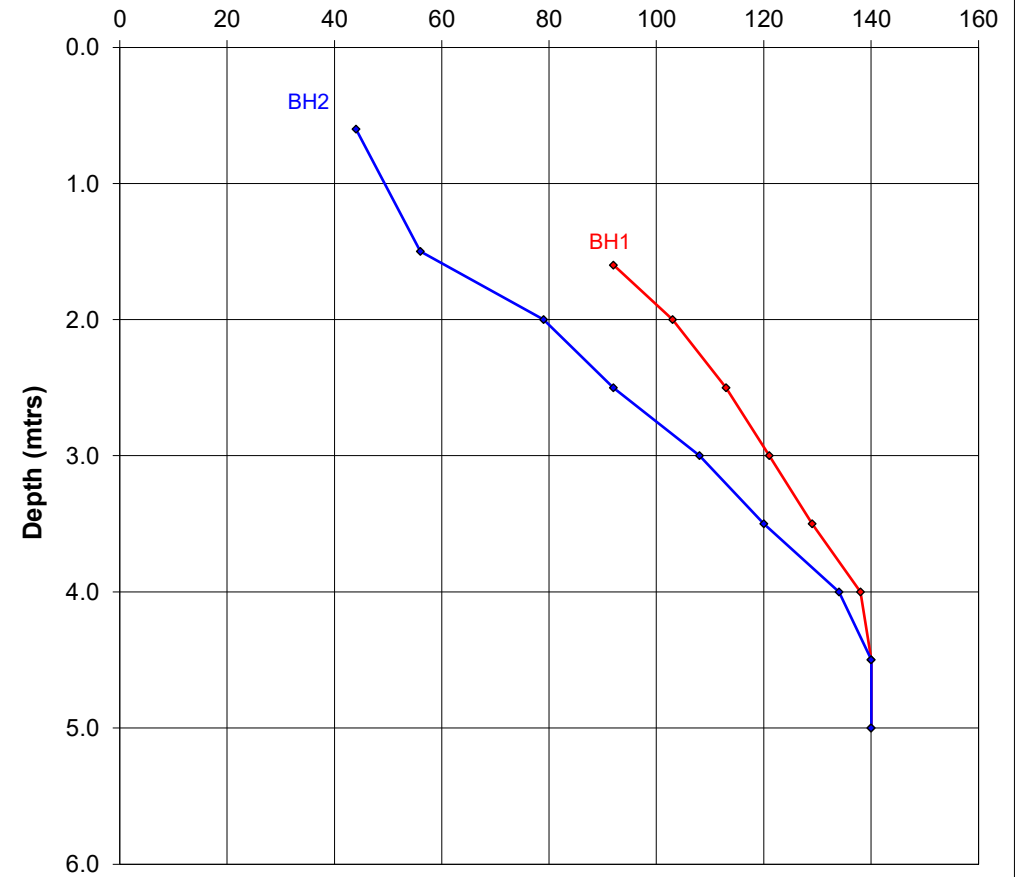
Moisture Content Profile

Natural Moisture Content



Shear Strength Profile

In-Situ Shear Strength (kPa)



- 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 Pilcon Hand Vane the calibration of which is limited to a maximum reading of 150 kPa

Meridian Soils Limited

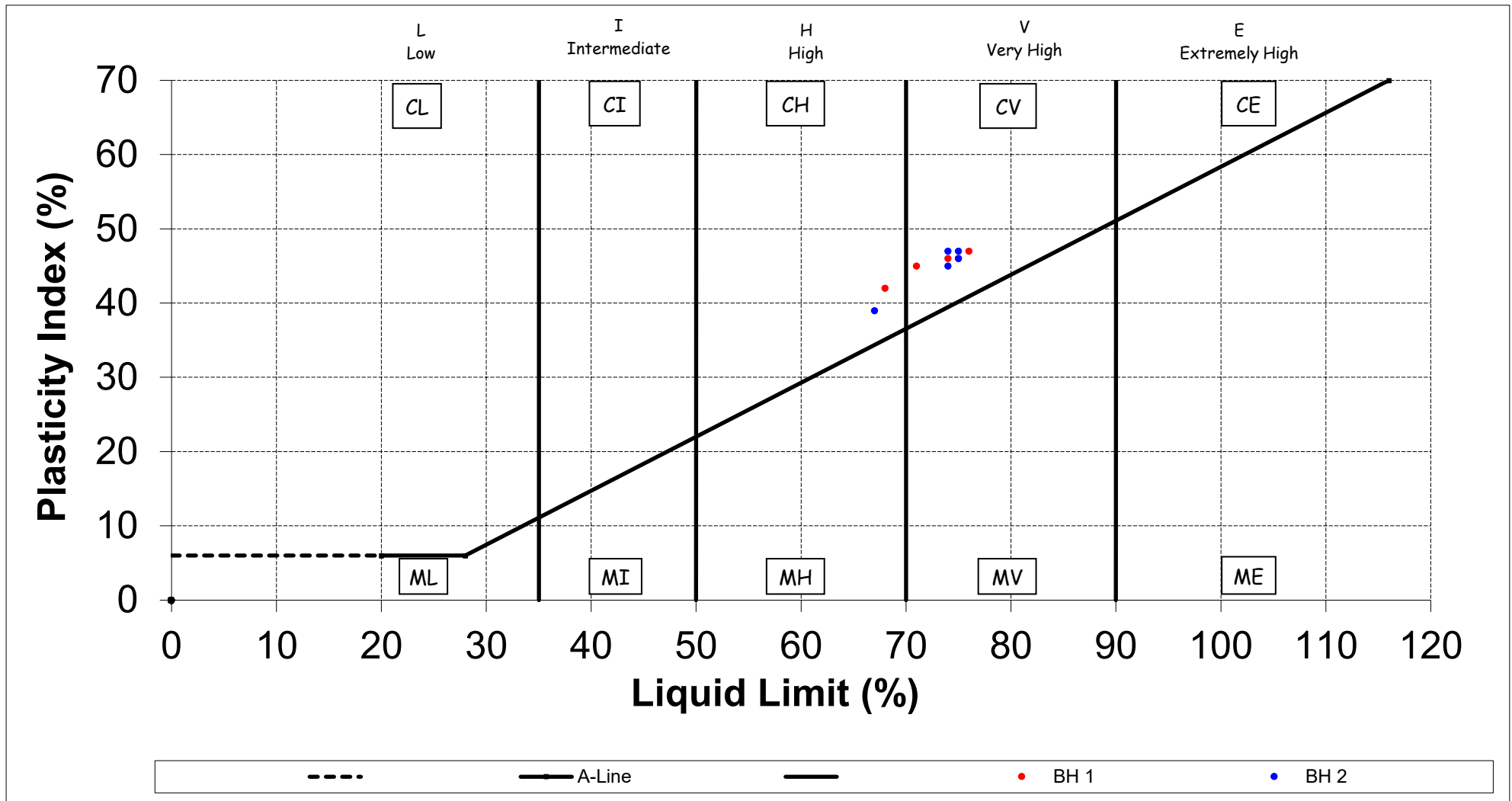
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Our Ref: S.16646

Location: 102 Florence Road, London, N4 4DR.

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In Compliance with BS. 5930: 1981

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Our Ref: S.16646

Client Ref: MSI.1661

Location: 102 Florence Road, London, N4 4DR.

Date: 9th February 2026

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	Insitu Shear Vane Strength (kPa) Mackintosh Probe (Blows Per 75mm)
1		1.60	29	98	30	68	26	42	CH	168	67				V.= 92
		2.00	30	98	31	71	26	45	CV	168	86				V.= 103
		2.50	31												V.= 113
		3.00	31	100	31	74	28	46	CV	168	229				V.= 121
		3.50	29												V.= 129
		4.00	31	100	31	76	29	47	CV	168	245				V.= 138
		4.50	30												V.= 140+
		5.00	31	100	31	75	29	46	CV	168	293				V.= 140+

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.

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Our Ref: S.16646

Client Ref: MSI.1661

Location: 102 Florence Road, London, N4 4DR.

Date: 9th February 2026

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	Insitu Shear Vane Strength (kPa) Mackintosh Probe (Blows Per 75mm)
2		0.60	31	97	32	67	28	39	CH						V.= 44
		1.50	31												V.= 56
		2.00	29	100	29	74	27	47	CV	168	162				V.= 79
		2.50	29												V.= 92
		3.00	31	100	31	75	29	46	CV	168	249				V.= 108
		3.50	32												V.= 120
		4.00	31	100	31	75	28	47	CV	168	264				V.= 134
		4.50	31												V.= 140+
		5.00	30	100	30	74	29	45	CV	168	323				V.= 140+

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, MSc, PhD, MRSB, FLS
James Richardson
BSc (Hons. Biology)

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Tel: (0118) 986 9552 *(Direct line)*

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Web: www.botanical.net

05/02/2026

Your ref: **MSI-1661**

Our ref: 90/7216

Dear Paul

102 Florence Road, London N4 4DR

The samples you sent in relation to the above on 22/01/2026 have been examined. Their structures were referable as follows:

TP/BH1, u/s footing - R.1		
2 no.	Examined root: ACER (Maples, Sycamores).	Alive, recently* .
3 no.	Examined sample: origin likely to be a SHRUB. We cannot rule out AUCUBA (a medium-sized evergreen bush with red berries and laurel-like leaves, often spotted). Tentative - unusual in structure - possibly a section of twig, rather than a root.	Dead* .
7 no.	Unfortunately all with insufficient cells for identification.	
BH1, 2.00 - R.2		
1 no.	Examined root: only 0.4mm in diameter. As above, we cannot rule out AUCUBA - possibly not a root - but a section of twig or sucker. Again, a tentative identification.	Alive, recently* .
TP/BH2, u/s footing - R.1		
1 no.	Examined root: TILIA (Lime).	Alive, recently* .
2 no.	Examined root: most like EUCALYPTUS (Gum). Under 0.4mm in diameter.	Alive, recently* .
1 no.	Microscopic examination showed insufficient cells for recognition.	
BH2, 1.50m - R.2		
2 no.	Examined root: EUCALYPTUS (Gum). 0.5mm in diameter.	Alive, recently* .
1 no.	Microscopic examination showed insufficient cells for recognition.	

Click here for more information: [ACER](#) [EUCALYPTUS](#) [TILIA](#)

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

Yours sincerely

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.







