FACTUAL REPORT OF TRIAL PIT & BOREHOLE INVESTIGATION

DATE: 15-08-2017.

SITE: 12, Akenside Road, London. NW3 5BT.

FOR: Richard F Gill & Associates.

REF:

BY ARKLEY SOIL INVESTIGATION LLP FOUNDATION INVESTIGATION & TEST DRILLING





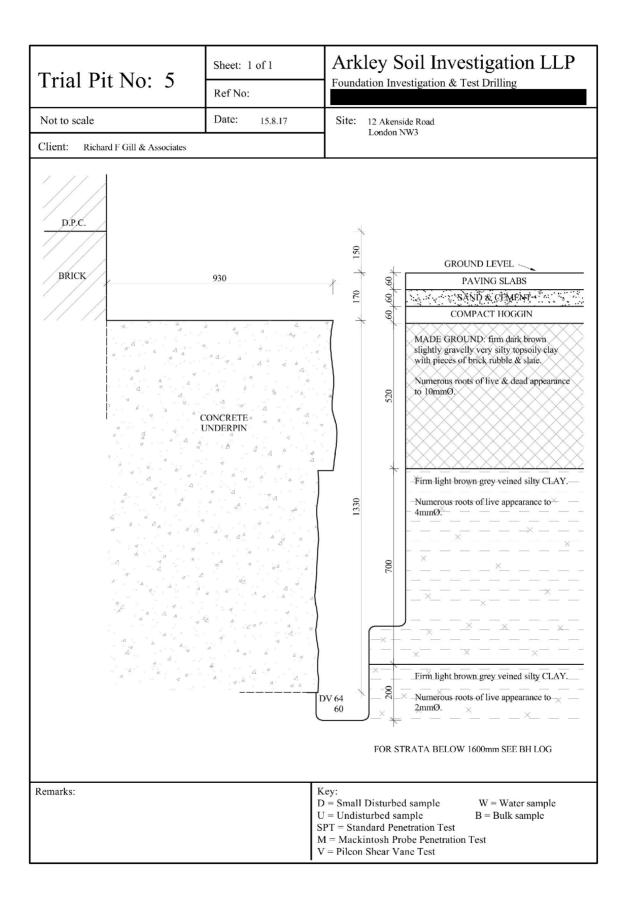




Site Plan	Sheet: 1 of 1	Arkley Soil Investigation LLP Foundation Investigation & Test Drilling
	Ref No:	
Not to scale	Date: 15-08-17	Site: 12 Akenside Road London NW3
Client: Richard F Gill & Associates		
MEDIUM TO LARGE LIME SMALL YEW LARGE ACERS MEDIUM BIRCH 32m S/S	MAGNOLIA NO.12 NO.12 AKENSIDE RO	MAGNOLIA CHERRY TP/ L7m BHS Approx 10m (Nor measured) GARAGE ELECTRICITY SUB STATION SHRUBS BUDDLEIA
Remarks:		Key: TP = Trial Pit IC = Inspection chamber
Tree identification not authenticated.		$\begin{aligned} TP &= Trial \ Pit & IC &= Inspection \ chamber \\ BH &= Borehole & IL &= Invert \ level \\ H &= Approximate \ Height & RWP &= Rain \ water \ pipe \\ G &= Gulley & SVP &= Soil \ vent \ pipe \end{aligned}$

T-'-1 D'(N - 4	Sheet: 1 of 1	Arkley Soil Investigation LLP					
Trial Pit No: 4	Ref No:	Foundation Investigation & Test Drilling					
Not to scale	Site: 12 Akenside Road London NW3						
Client: Richard F Gill & Associates		LORIGII NW3					
BRICK CONCRETE FOUNDATION A Remarks:	DV 40 40 FOR STRATA BELOW	Key:					
		D = Small Disturbed sample W = Water sample U = Undisturbed sample B = Bulk sample SPT = Standard Penetration Test M = Mackintosh Probe Penetration Test V = Pilcon Shear Vane Test					

Sheet: 1 of 1					Arkley Soil Investigation LLP								
Bo	rehole No: 4	Ref No:		Foundation Investigation & Test Drilling									
Borin	ng Method: Hand tools	Date: 15.8.17		Site: 12 Akenside Raod London NW3									
Clien													
Depth (m)	Description		Thick- ness	Legend		nples Depth	Insitu tests Type Result	Field comments	Vater Water				
1.05	As trial pit four.		1.05					As trial pit four.					
	Sift to firm light brown grey veined	0.45	 × _ ×				live & dead appearance to						
1.5	Firm light brown grey veined silty C	0.3	× X X	D	1.5	V 50 50	10 1.5m						
2.8	Firm to stiff light brown grey veined layers of orange silt.	1.0	X	D D	2.0	V 80 90 V 84 90							
2.0	Firm/medium dense mid brown-oran CLAY & silty SAND (CLAYGATE	1.2		D D	3.0	V 90 90							
4.0	BOREHOLE ENDS A	Г 4.0т			D	4.0	M 38 42 44 42						
B U S.						iple bed sa dard	ed sample ample Penetration T trobe Penetra						



D.	11. NI 5	Sheet: 1 of 1	Arkley Soil Investigation LLP Foundation Investigation & Test Drilling									
$ \mathbf{R}_0 $	orehole No: 5	Ref No:		Fo	toundation investigation & Test Diffilling							
Bori	ng Method: Hand tools	Date: 15.8.17		Si	Site:		kenside Raod					
Clien	t: Richard F Gill & Associates		1	London NW3								
Depth (m)	Description	- - -		Legend		nples Depth	Insitu tests Type Result	Field comments	Depth to Water			
1.6	As trial pit five.		1.6					As trial pit five.				
2.5	Firm light brown grey veined silty C	LAY.	0.9	X X X X X	D D	2.0	V 64 70 V 90	appearance to ImmØ To 2.0m				
2.5	Firm to stiff light brown grey veined layers of orange silt.	very silty CLAY with	0.2	×	D	2.5	90	Slight moisture @	2.7			
4.0	Firm/medium dense mid brown-oran CLAY & silty SAND (CLAYGATE		1.2		D D	3.5	V 80 90	Sign noisture (a)	2.7			
7.0	BOREHOLE ENDS A	T 4.0m					40 42 40					
B U S.						nple bed sa dard	ed sample ample Penetration Trobe Penetra					

SOIL INVESTIGATION PHOTO SHEET.

SITE: 12, Akenside Road, London. NW3 5BT. DATE: 15th August 2017.

CLIENT: Richard F Gill & Associates.

REF:



Borehole 5 Trial pit 4 complete Trial pit 5 complete

REPORT NOTES

Equipment Used:

Hand tools, mechanical concrete breaker & spade, hand augers and 100mm diameter open bored continuous flight auger (access permitting)

Insitu tests:

By Pilcon hand shear vane tester (KPa) in clay soils, and or Mackintosh probe penetration test(blows per 75mm) in granular soil or made ground.

Soil description:

Soil descriptions are on-site descriptions only.

Tree roots:

Tree roots relate to tree roots observed in trial pits and boreholes only.

Note:

Details reported in trial pits and boreholes relate to positions investigated only, as instructed by the client, on the date shown only. We therefore do not accept any responsibility for changes in soil conditions not investigated any variations due to climate, seasons, vegetation and varying ground water levels.

Full terms and conditions are available upon request.

By ARKLEY SOIL INVESTIGATION LLP FOUNDATION INVESTIGATION AND TEST DRILLING.



Arkley Soil Investigation LLP

25/08/2017

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



75/2110

Dear Sirs

12 Akenside Road, London

The samples you sent in relation to the above on 15/08/2017 have been examined. The structure was referable as follows:

1 root: similar in some ways to PLATANUS (Plane). Tentative - this was a very IMMATURE and POOR sample. A further sample, not examined in detail appeared similar under low magnification. Dead* (note this 'dead' result can be unreliable with such thin samples).

1 root: could be a SHRUB. Definitely NOT a conifer. Also a very immature root. Dead* (as above, this 'dead' result could be an unreliable one).

7 samples: unfortunately insufficient cells for identification.

1 root: most like TILIA (Lime). 14 further samples, not examined in detail appeared similar under low magnification. Alive, recently*.

1 piece of BARK only, insufficient material for identification.

12 samples: unfortunately insufficient cells for identification.

TP5, 1.0m

1 root: TILIA (Lime). 2 further samples, not examined in detail appeared similar under low magnification. Dead*.

TP5, 1.3m

1 root: TILIA (Lime). 5 further samples, not examined in detail appeared similar under low magnification. Dead*.

BH5, 1.6-2.0m

1 root: again, NOT coniferous. We cannot rule out TILIA (Lime). Again, this was a very IMMATURE sample. 8 further samples, not examined in detail appeared similar under low magnification. Dead* (again note that this 'dead' result could be unreliable).

19 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 lodine 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.

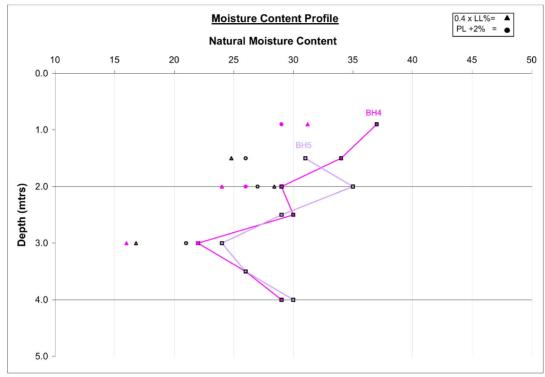


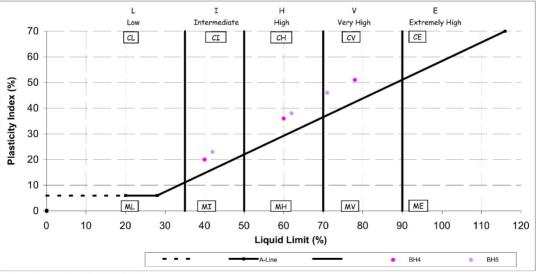
Meridian Soils Limited

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

Our Ref: S.9245 Client Ref:

Location: 12 Akenside Road, London, NW3 5BT. Date: 5th September 2017





In Compliance with BS. 5930: 1982

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.

Meridian Soils Limited

Our Ref: S.9245 Location: 12 Akenside Road, London, NW3 5BT.

Client Ref: Date: 5th September 2017

TP/BH	Sample	Depth	Moisture	Passing	Equivalent	Liquid	Plastic	Plasticity		Modified	Water Soluble		
No.	No.	mtrs.	Content	0.425um sieve		Limit	Limit	Index	Soil Class	Plasticity Index		pH value	Sulphate Class
			%	%	%	%	%	%		%	(g/l ⁻¹ SO ₄)		
4		0.90 (U.S)	37	100	37	78	27	51	CV	51			
		1.50	34										
		2.00	29	100	29	60	24	36	CH	36			
		2.50	30										
		3.00	22	98	22	40	20	20	CI	20			
		3.50	26										
		4.00	29										
1													
1													
1													
1													

References BS 1377:Part 2:1990 BS 5930:1981

Meridian Soils Limited

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TP/BH	Sample	Depth	Moisture	Passing	Equivalent	Liquid	Plastic	Plasticity		Modified	Water Soluble		
No.	No.	mtrs.	Content	0.425um sieve		Limit	Limit	Index	Soil Class	Plasticity Index		pH value	Sulphate Class
			%	%	%	%	%	%		%	(g/Г ¹ SO ₄)		
5		1.50 (U.S)	31	100	31	62	24	38	СН	38			
		2.00	35	100	35	71	25	46	CV	46			
		2.50	29										
		3.00	24	100	24	42	19	23	CI	23			
		3.50	26										
		4.00	30										
		10.00											
1													
1													
1													

References
BS 1377:Part 2:1990
BS 5930:1981