GEO Site & Testing Services Ltd
Unit 4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire
SA15 8QN
Tel: 01554 784 040
Fax: 01554 784 041

Testing on Behalf of

Report of Analysis

Contract No: 25492-191214

Client: Auger Solutions
Scotia House,
Kelvinside, Wallasey,
Merseyside
CH44 7JY

Claim Details

Policy Holder [redacted]

Risk Address	14a Downshire Hill London NW3 1NR
SI Date	18/12/2014
Issue Date	18/12/2014
Report Date	07/01/2015
Auger Ref	49998.1.2.RSS
Insurance Company	[redacted]
LA Claim Reference	SU1403227
LA Co.	Crawford & Co

Notes:

Contents

Approved By:

Authorised Signatories: Paul Evans, Quality Manager; Emma Williams, Office Manager

Hole Number	Sample Number	Depth	Description of Sample*
1		1.00	Brown sandy gravelly (fine) silty CLAY
1		1.50	Brown gravelly (fine) silty CLAY
1		2.00	Brown silty CLAY
1		2.50	Brown gravelly (fine) silty CLAY
1		3.00	Brown sandy gravelly (fine) silty CLAY

Summary of Soil Classification Tests

BS 1377:Part 2:1990 3.2 4.4 5.0

Hole/ Sample Number	Sample Type	Depth m	Moisture Content % Cl. 3.2	Liquid Limit % Cl. 4.3/4.4	Plastic Limit % Cl. 5.	Plasticity Index % Cl. 6.	% Passing .425mm	Remarks	NHBC Chapter 4.2
1	D	1.00	34	67	31	36	88	CH High Plasticity	MEDIUM VCP
1	D	1.50	28	59	23	36	94	CH High Plasticity	MEDIUM VCP
1	D	2.00	27	58	20	38	100	CH High Plasticity	MEDIUM VCP
1	D	2.50	31	67	26	41	90	CH High Plasticity	HIGH VCP
1	D	3.00	28	58	25	33	94	CH High Plasticity	MEDIUM VCP

Symbols: **NP : Non Plastic** **# : Liquid Limit and Plastic Limit Wet Sieved**

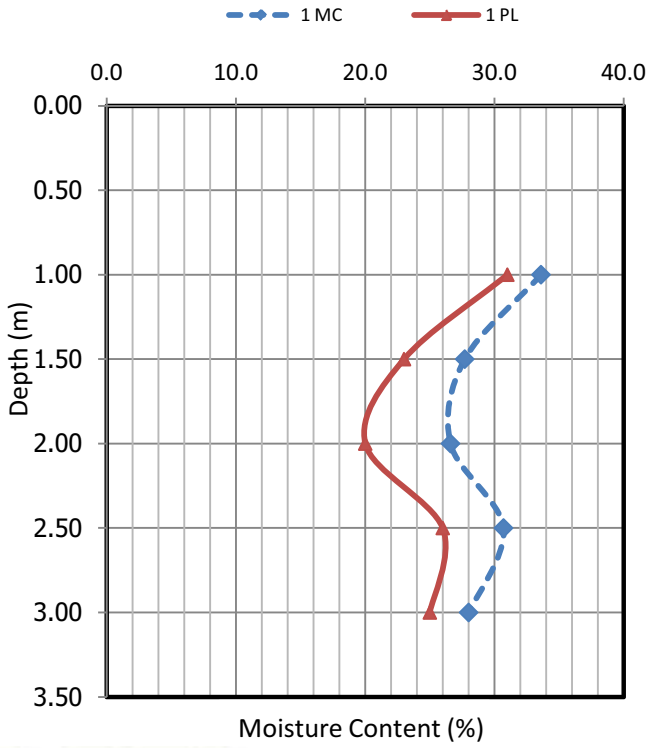
The Atterburg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

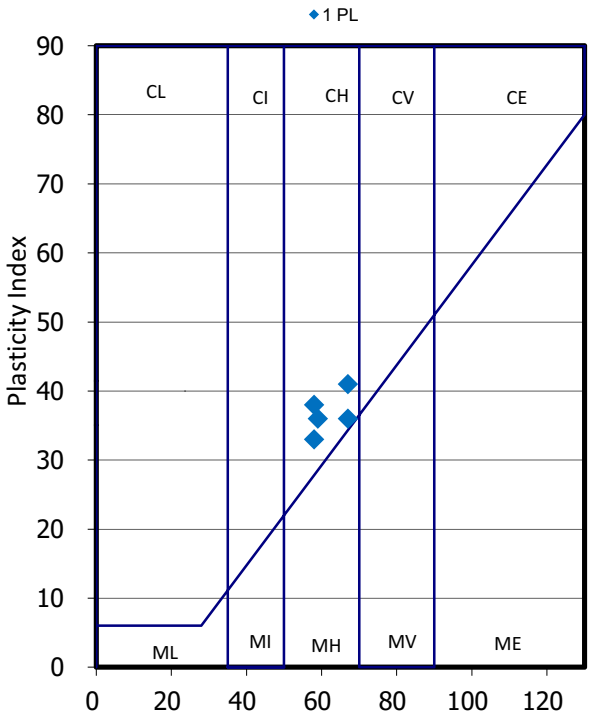
Modified Plasticity Index (PI) <10 : Non Classified

Modified PI = 10 to <20 : Low volume change potential (LOW VCP)

Modified PI = 20 to <40 : Medium volume change potential (Medium VCP)

Modified PI = 40 or greater : High volume change potential (HIGH VCP)





GSTL
GSTL Site & Testing Services Limited

Testing on behalf of

auger

14a Downshire Hill London NW3 1NR

Contract No.:

Contract No: 25492-191214

Client Ref No:

49998.1.2.RSS

UKAS TESTING 2788

Oedometer Results

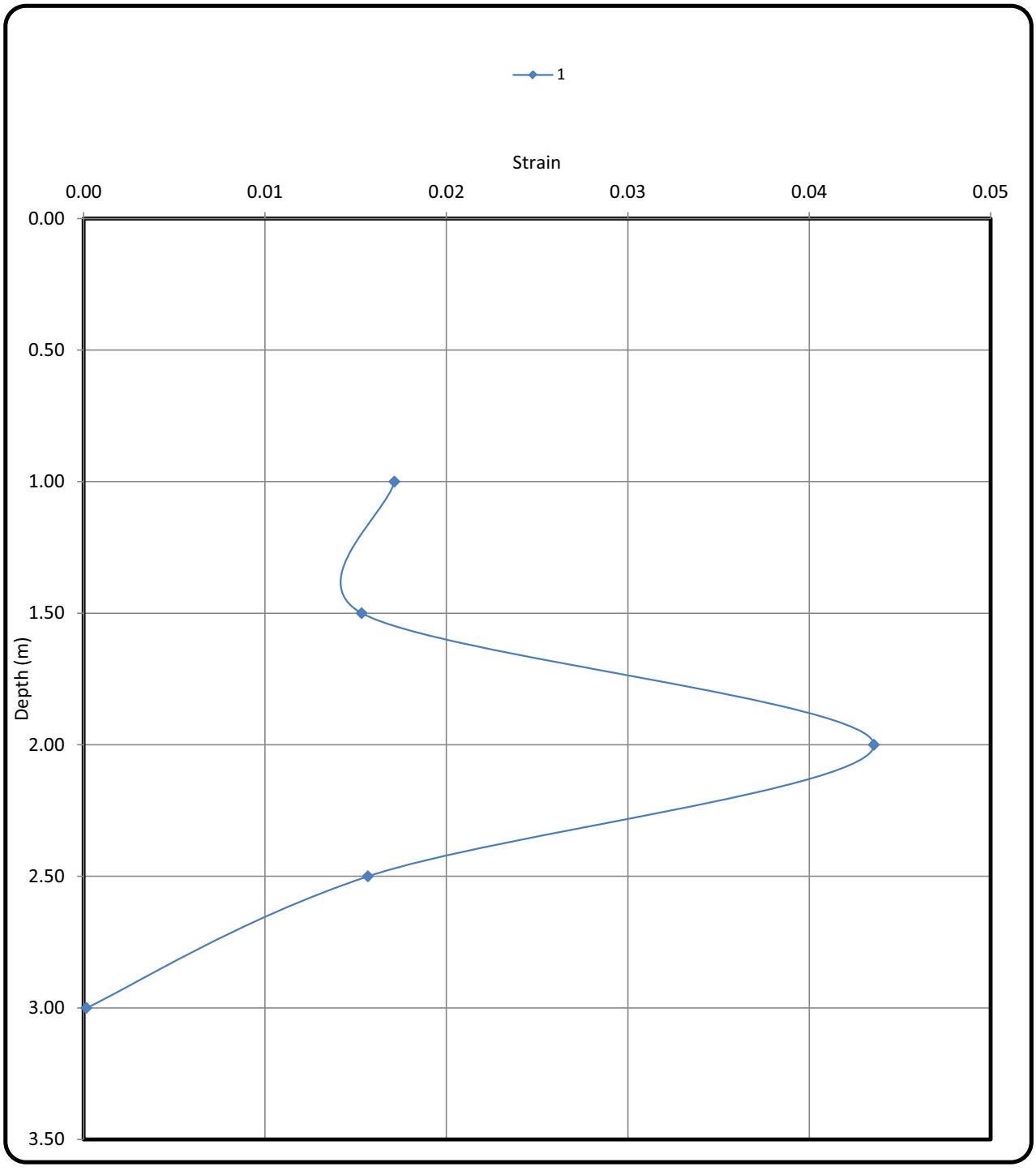
Borehole No:	1			
Location	14a Downshire Hill London NW3 1NR			
Depth (m)	Sample No & Comments	Moisture Content %	STRAIN	Dd (mm)
1.00		34	0.0171	8.56
1.50		28	0.0153	3.83
2.00		27	0.0436	10.89
2.50		31	0.0157	1.42
3.00		28	0.0001	0.04
				24.74

Total Column Dd : 24.74 mm Therefore Free Surface Heave Potential Over B/H is about 0cm to 3cm

Borehole No:				
Location				
Depth (m)	Sample No & Comments	Moisture Content %	STRAIN	Dd (mm)

Total Column Dd : 0.00 mm Therefore Free Surface Heave Potential Over B/H is about 0cm to 0cm

Oedometer Data



Testing on behalf

14a Downshire Hill London NW3 1NR

Contract No.:
Contract No: 25492-191214
Client Ref No:
49998.1.2.RSS

Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

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

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB

Tel: (0118) 986 9552 *(Direct line)*
E-mail: richardsons@botanical.net
Web: www.botanical.net

Auger Solutions
Scotia House
Kelvinside, WALLASEY
Merseyside
CH44 7JY

Your ref: **49998-1-1-RRS**

05/01/2015

Our ref: 73/7602

Dear Sirs

14a Downshire Hill, London

The samples you sent in relation to the above on 18/12/2014 (received by us on 29/12/2014) have been examined. The structure was referable as follows:

TH1, 1.0m

1 root: FRAXINUS (Ash). 2 further samples, not examined in detail appeared similar under low magnification. Alive, recently*.

2 pieces of BARK only - insufficient material for recognition.

5 samples: unfortunately insufficient cells for identification.

TH1, 1.5m

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

TH1, 2.0m

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

4 samples: unfortunately insufficient cells for identification.

TH1, 2.5m

2 samples: microscopic examination of both showed insufficient cells for recognition.

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.