



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

- 1) Certificate
- 2) Descriptions
- 3) Atterberg Results
- 4) Oedometer Results
- 5) Oedometer Results

Approved By:



Authorised Signatories:	Paul Evans Quality Manager	Emma Williams Office Manager
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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



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# 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

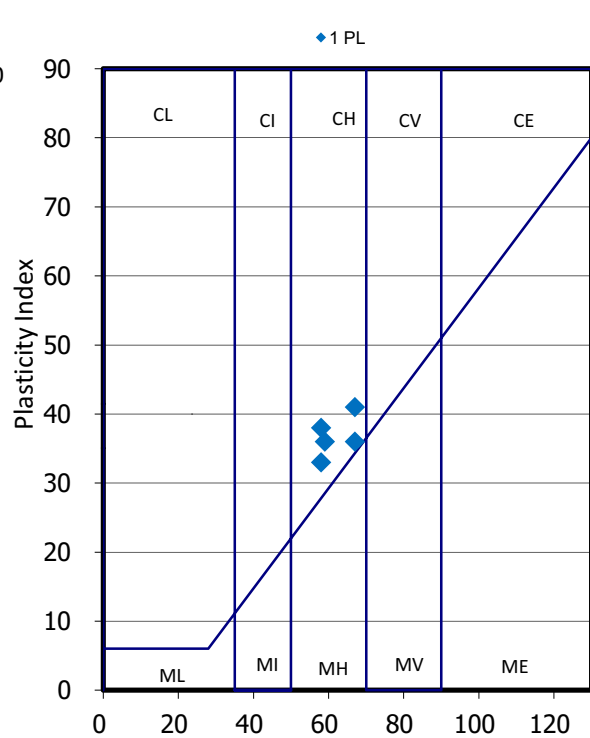
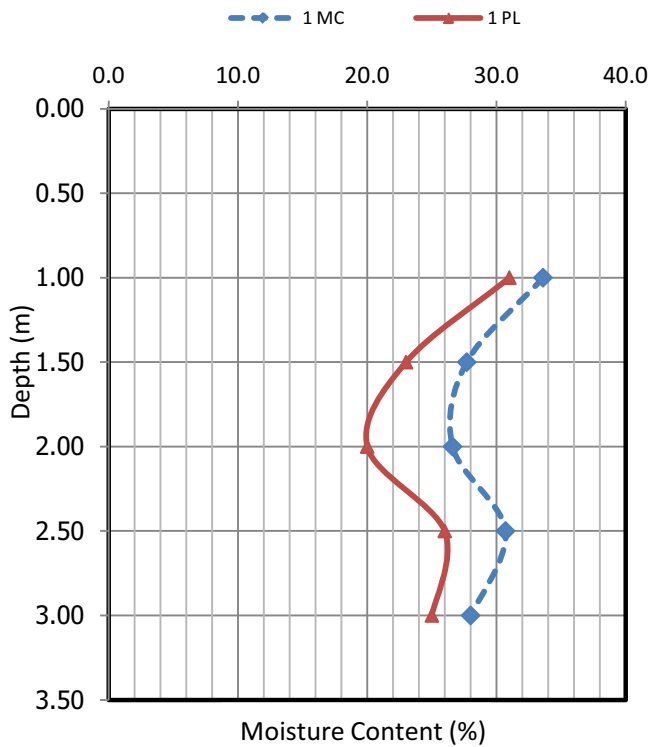
The Atterburg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

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)



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environmental  
testing  
substance  
damage

14a Downshire Hill London NW3  
1NR

Liquid Limit (%)



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## Oedometer Results

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

<b>Borehole No:</b>				
<b>Location</b>				
<b>Depth (m)</b>	<b>Sample No &amp; Comments</b>	<b>Moisture Content %</b>	<b>STRAIN</b>	<b>Dd (mm)</b>

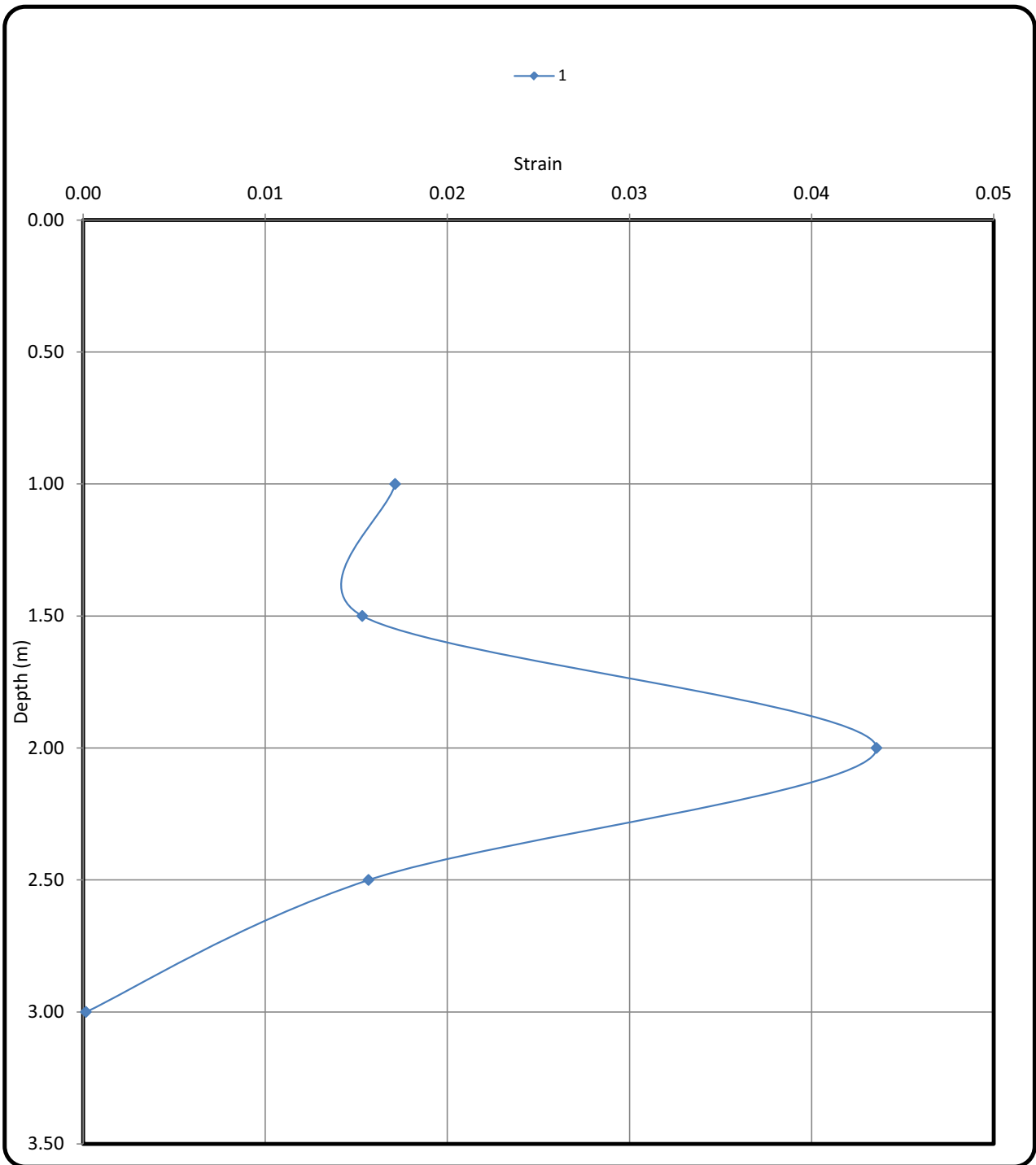
**Total Column Dd : 0.00 mm** Therefore Free Surface Heave Potential Over B/H is about 0cm to 0cm



**14a Downshire Hill London NW3  
1NR**

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# Oedometer Data



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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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**Web: [www.botanical.net](http://www.botanical.net)**

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

*Our ref:* 73/7602

**Auger Solutions**  
**Scotia House**  
**Kelvinside, WALLASEY**  
**Merseyside**  
**CH44 7JY**

05/01/2015

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.