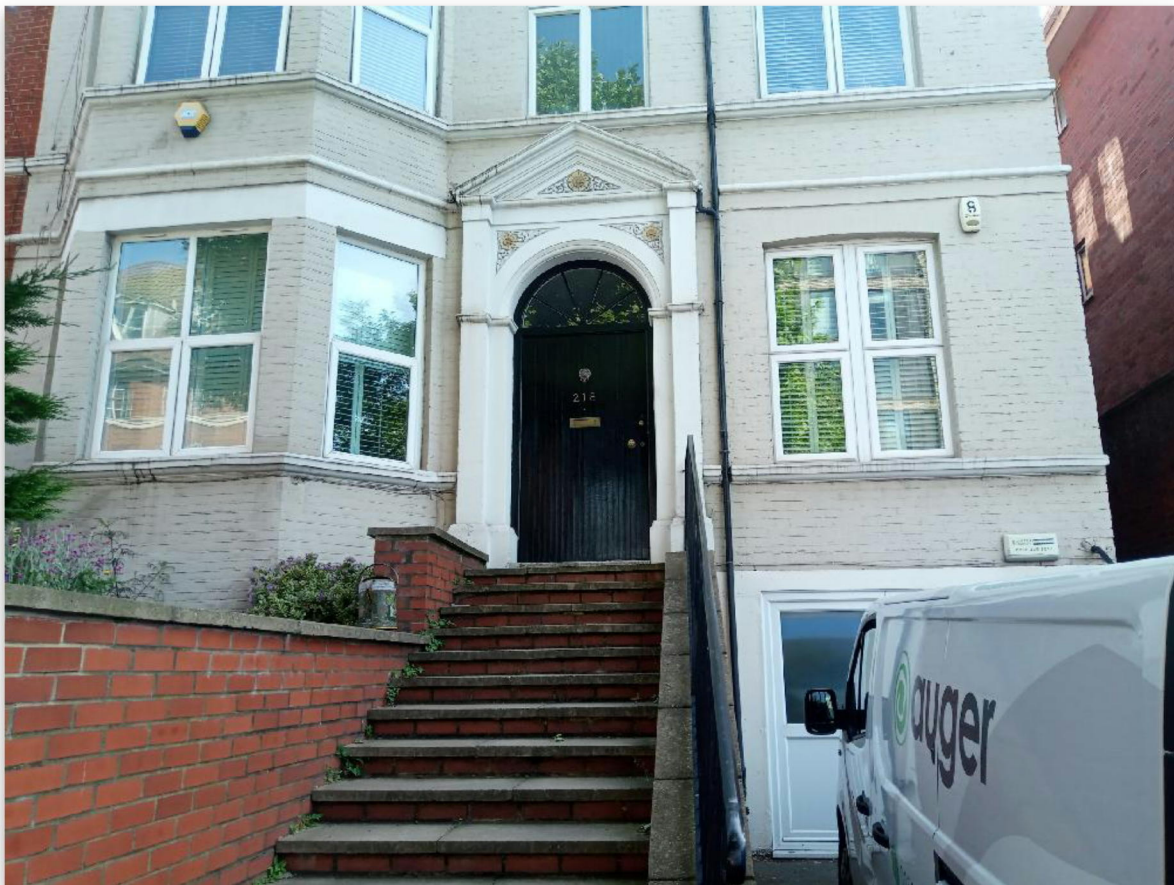


# Site Investigation Report



## Job Information

Client

Client ref

Visit date

15/06/2023

Report date

05/07/2023

## Job Summary

- ✓ CCTV survey undertaken. [Read more.](#)
- ! Drainage repairs required. [Read more.](#)
- ✓ 2 trial holes undertaken. [Read more.](#)
- ! Trial Hole depth not reached. [Read more.](#)
- ! Requested root samples not taken. [Read more.](#)



**INVESTORS IN PEOPLE®**  
We invest in people Gold

# Job Information

## Overview

### Brief

Auger were commissioned by Allianz to undertake a site investigation and CCTV inspection of the underground drainage within the area of concern (AOC) at the property.

## Findings

### Trial Hole Findings

#### Trial Hole 1

Within TH1 we revealed the footing but we were unable to reach the required because we hit refusal at 2.1m. The Trial Hole was excavated in the proposed location. We took soil and root samples. These measurements are shown in Trial Hole Log 1 below.

#### Trial Hole 2

Within TH2 we revealed the footing and augered to the required depth (3m) in the proposed location. We took soil samples. We were unable to collect root samples from TH2 because no roots were present during the trial hole, hence no samples were retrieved. These measurements are shown in Trial Hole Log 2 below.

### Drain Survey

We carried out a CCTV survey of the below ground drainage system, our findings of which are as follows:

#### Line 1, 2, 4 and 5

Our survey of line 1, 2, 4 and 5 revealed no significant defects to the pipework on these lines which could be allowing an escape of water.

#### Line 3 - From MH1 upstream to WC

Our survey of line 3 revealed a minor crack at 1.42m.

The above mentioned defects to the below ground drainage system have been caused by ground movement.

## Recommendations

### Refer Back to Client

It is recommended that the following repairs are carried out to prevent an escape of water from the system:

#### Line 3

Install a 100mm patch liner approximately 1.42m upstream of MH1.

We will now refer the claim back to the client in order to progress the claim.

### Repair Caveats

*Once repairs have been undertaken the customer should ensure the drainage system is periodically inspected in the future for any deterioration and kept free flowing / free of blockages. Any damage noted during future inspections should be repaired immediately in accordance with current Building Regulations.*

*With any repair process, complications and unforeseen circumstances can arise. These scenarios will be reported whilst on-site and could potentially cause an increase in repair costs and inconvenience.*

*If any of the above lining recommendations fail then excavation and replacement of the pipework would be required. This would severely increase the cost of repairs and would provide greater inconvenience to the residents. If any issues arise in the future regarding this pipework, then excavation within the property would be required to replace the defective area of pipework. This in turn would result in major inconvenience to the occupier and a potentially large repair bill.*

*Recommendations have been made to reline or patch reline sections of the drainage system at the property. This process combines a number of chemicals in a resin, which then harden in a fibreglass matting to create a new section of drain within the original. The reaction creates a **strong smell which can linger for up to 72 hours** once works are completed - this is not harmful. It is recommended that any areas where smells are experienced are kept well ventilated until the odour subsides.*



# Photographs

## Trial Hole 1

Fig 1.1: Trial Hole 1 Location



Fig 1.2: Trial Hole 1 Footing

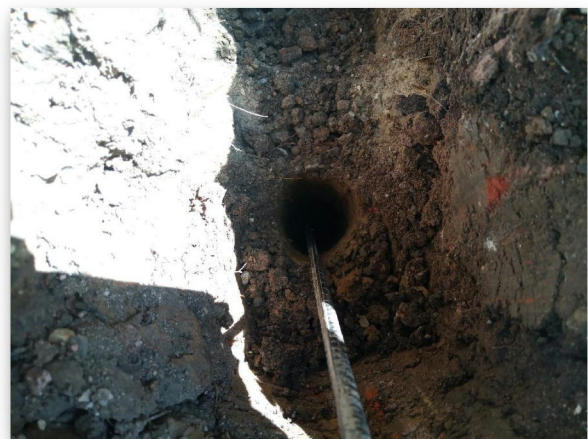


## Trial Hole 2

Fig 2.1: Trial Hole 2 Location



Fig 2.2: Trial Hole 2 Footing



## Site Photos

Fig 4.1: WG2



Fig 4.2: WG1



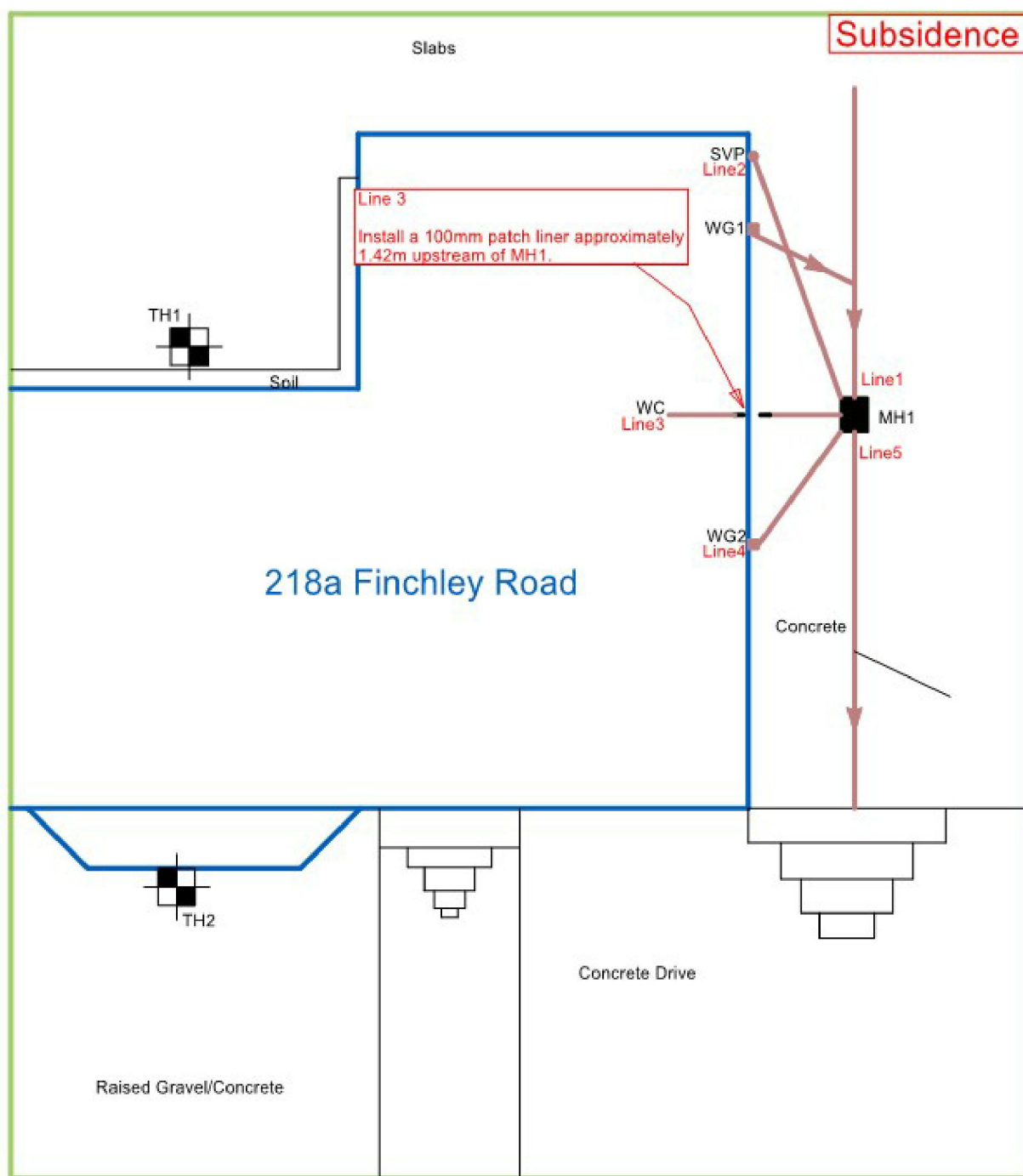
Fig 4.3: SVP1



Fig 4.4: MH1






























This drawing should be used for diagrammatic purposes only. Auger are not responsible or liable for any 3rd party works undertaken using the details outlined in this drawing. Confirmation of the drainage configuration can only be confirmed by excavation or detailed technical survey.

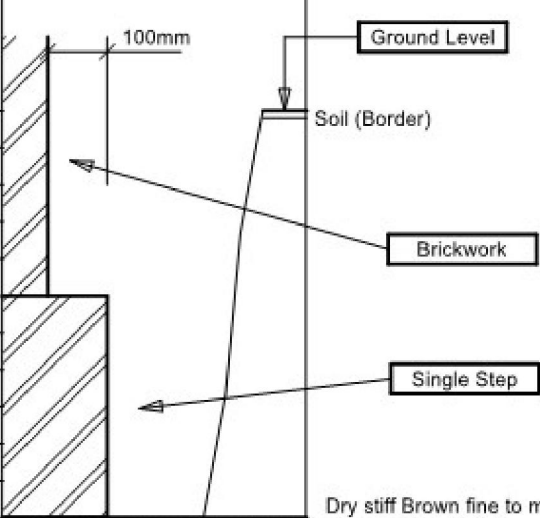
## LEGEND

 = Manhole (MH)	 = Blockage / Collapse	 = Lines not to be repaired	 = Trial hole	 = Shrubs / Bush
 = Inspection Chamber (IC)	 = Soil Vent Pipe (SVP) / WC	 = Lines to be repaired	 = Borehole	 = Hedge
 = Inspection Point (IP)	 = Combined Waste Gully (CWG) / Foul Waste Gully (FWG)	 = Assumed water mains feed	 = Direction of flow	 = Tree
 = Rainwater Gully (RWG)	 = Rainwater Pipe (RWP)	 = Walls	 = Gate / Door	 = Steps
 = Rainwater Pipe (RWP)		 = Fences		
		 = Building Outline		



# Trial Hole Log No.1

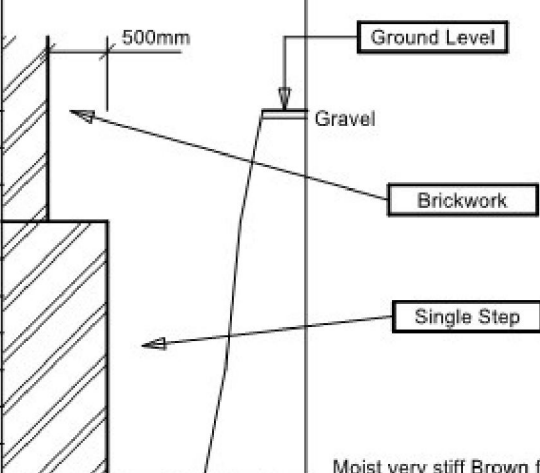
Location: Rear single story

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
0.5		Soil (Border)				
1.0		Brickwork				
1.5		Single Step				
2.0		Dry stiff Brown fine to medium gravelly silty CLAY	70kpa		Soil @ 1.1m	Root @ 1.1m
2.5			74kpa		Soil @ 1.6m	
3.0		TRIAL HOLE TERMINATED				



## Trial Hole Log No.2

Location: Front bay window

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
		Gravel				
		Brickwork				
0.5		Single Step				
1.0		Moist very stiff Brown fine to medium gravelly silty CLAY	76kpa		Soil @ 1m	
1.5			80kpa		Soil @ 1.5m	
2.0			80kpa		Soil @ 2m	
2.5			84kpa		Soil @ 2.5m	
3.0		TRIAL HOLE TERMINATED	84kpa			

**\*The testing results contained within this report have been performed by GSTL a UKAS accredited laboratory on behalf of Auger.**

### Summary Of Claim Details

**Policy Holder**
**GSTL Job Reference**
**SI Date**

15/06/2023

**Issue Date**

15/06/2023

**Report Date**

26/06/2023

**Auger Reference**
**Insurance Company**

Allianz

**LA Claim Reference**
**LA Co. Reference**

Allianz

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Checked and approved

26/06/2023

Wayne Honey

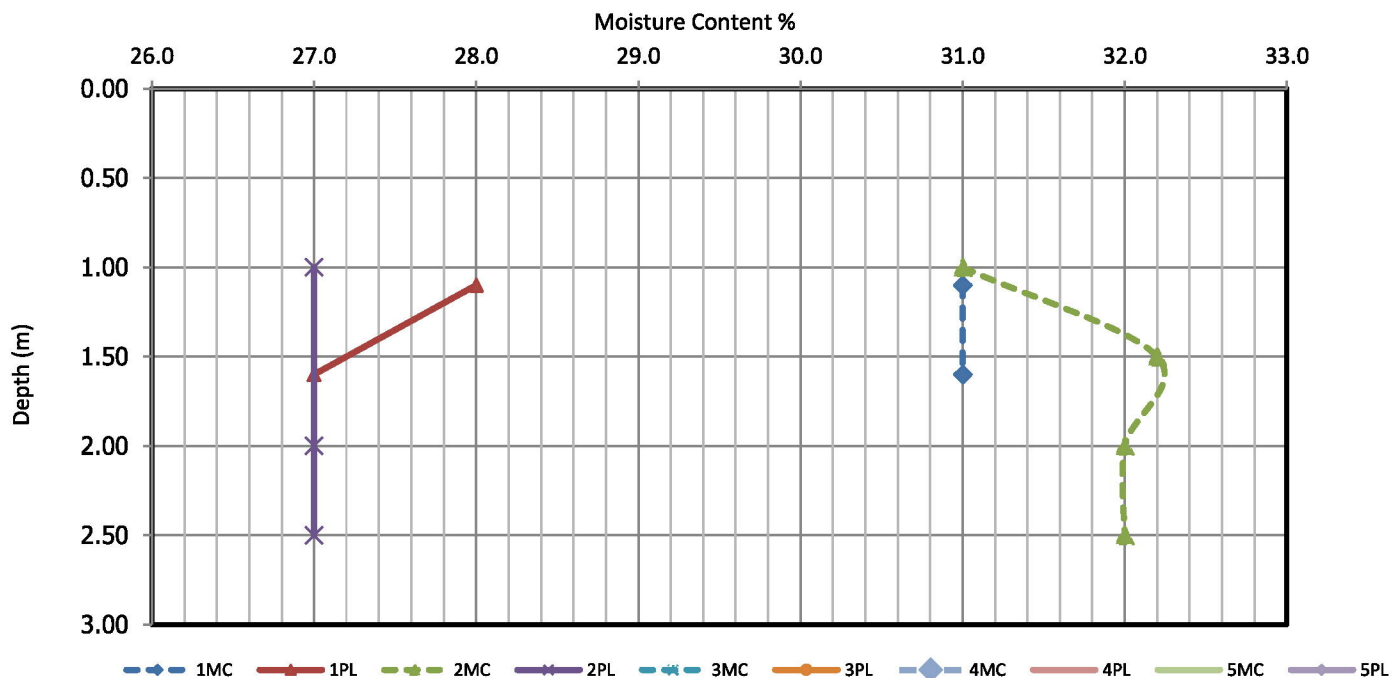


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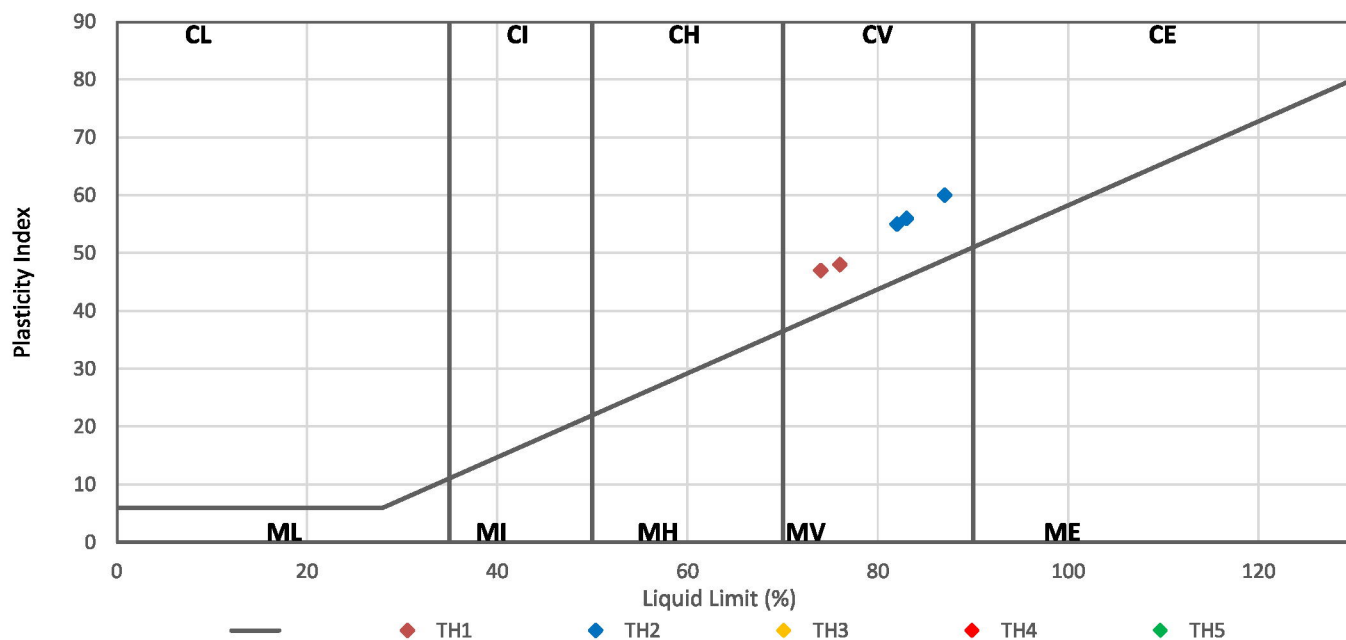








**PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION**  
BS 5930:1999+A2:2010



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

The Atterberg 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"

Test Operator

Jason Smith



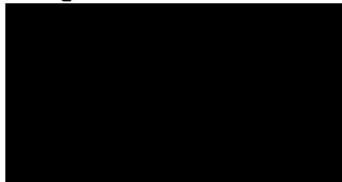


# Richardson's Botanical Identifications

Root identification  
Vegetation surveys  
Tree/Building investigations  
Plant taxonomy

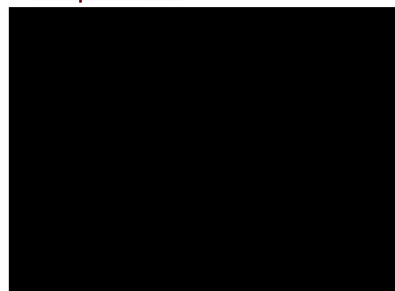
Dr Ian B K Richardson  
BSc, MSc, PhD, MRSB, FLS  
James Richardson  
BSc (Hons. Biology)

## Auger Solutions



08/07/2023

## Enterprise House



Dear Sirs

### Root ID

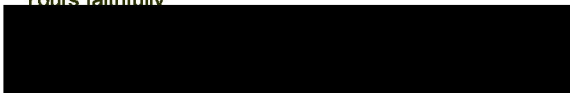
The samples you sent in relation to the above on 15/06/2023 have been examined. Their structures were referable as follows:

TH1, 1.1m		
2 no.	Examined root: the family SALICACEAE (Salix (Willows) and Populus (Poplars)).	Alive, recently*.
4 no.	All pieces of BARK only - not enough material for identification.	
2 no.	Both samples revealed too few cells for microscopic identification.	

Click here for more information: [SALICACEAE](#)

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.

\*\* Try out our web site on [www.botanical.net](http://www.botanical.net) \*\*