Auger House, Cross Lane,
Wallasey, Wirral, CH45 8RH

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Site Investigation Report

Auger Ref:
88222.3.TSI

Job Information	
Client	Sedgwick
Client ref	6857421
Visit date	25/10/2022
Report date	26/10/2022

Job Summary

- 1 trial hole undertaken. Read more.

Job Information

Overview	
Brief	Auger were commissioned by Sedgwick to undertake a site investigation within the area of concern (AOC) at the property.

Findings	
Trial Hole Findings	TH1 was able to reach the required depth in the proposed location and reveal the footing. Soil and root samples were taken.

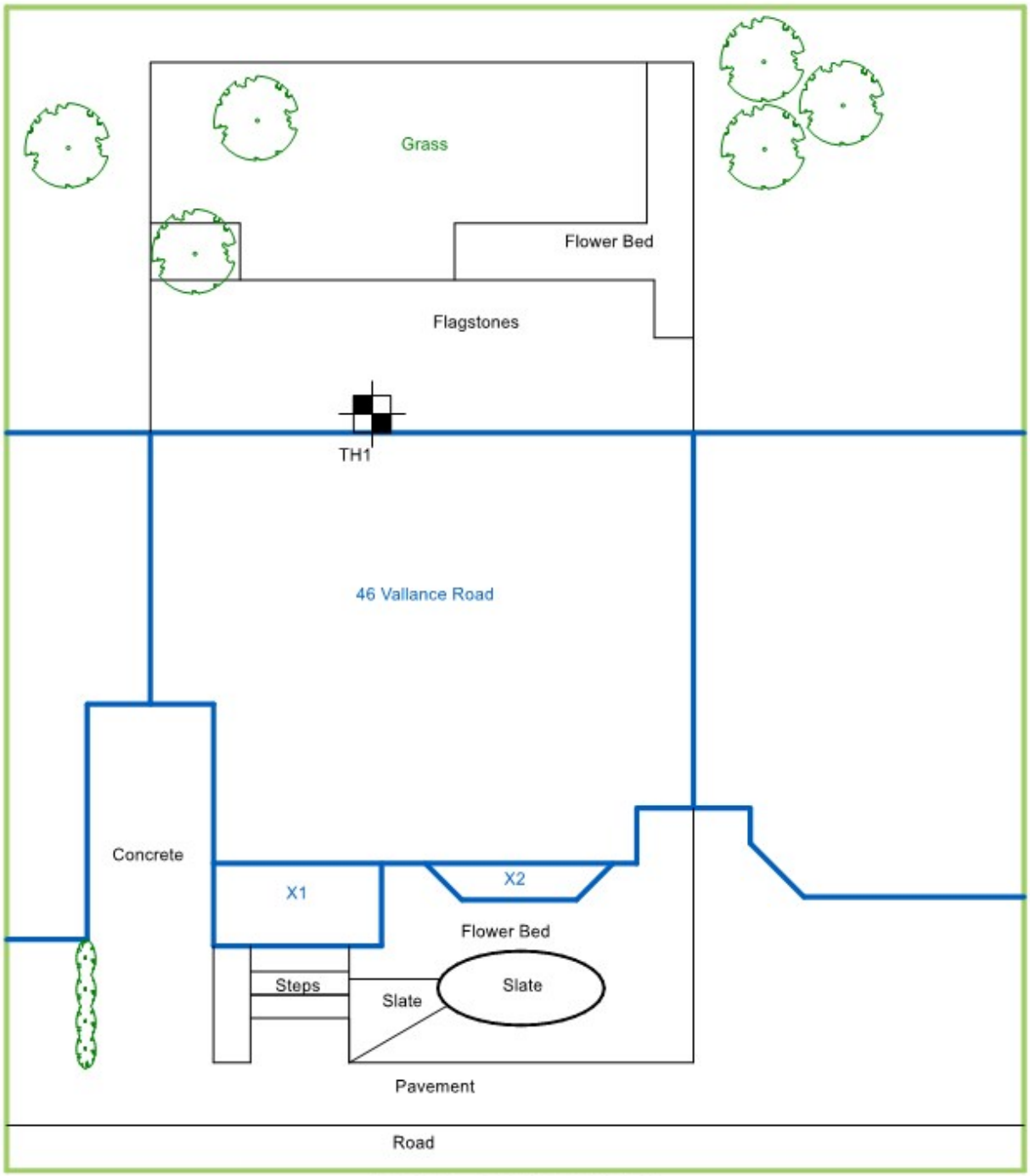
Photographs

Trial Hole 1

Fig 1.1: Trial Hole 1 Location

Fig 1.2: Trial Hole 1 Footing

auger	Existing Layout	Job Ref: 123456.7 Date: 26/10/2022



FRONT OF PROPERTY

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.

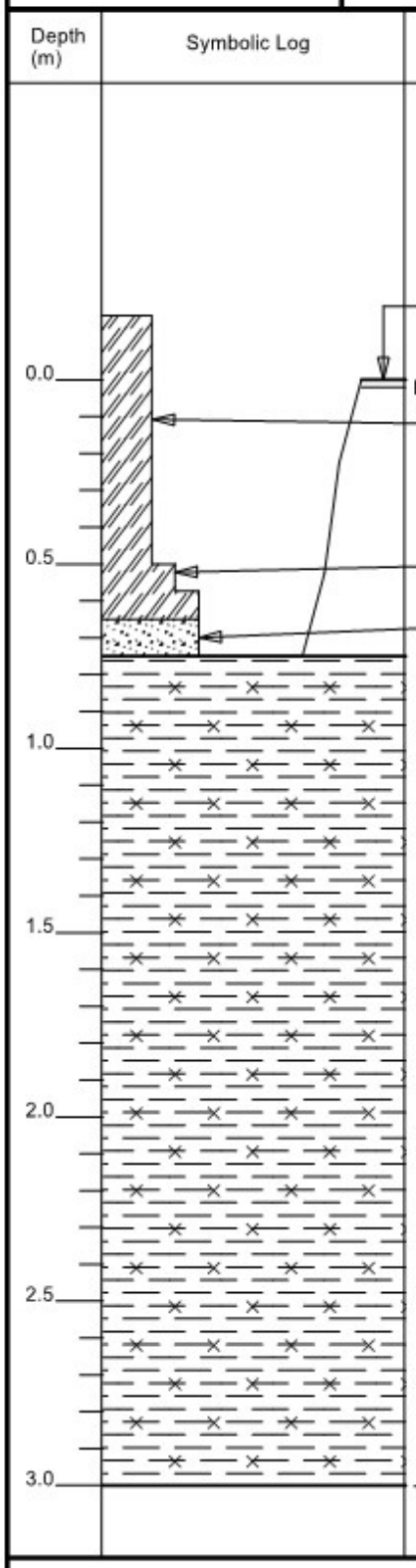
LEGEND

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

Trial Hole Log No.1

Location: Rear middle

Job Ref: 88222.3.TSI



Depth (m)	Symbolic Log	Strata Description	Insitu Tests SV(19)		Soil Sample	Root Sample
		Brown silty fine to medium gravelly CLAY	102kpa		Soil @ 0.75m	Root @ 0.75m
			120kpa		Soil @ 1.25m	Root @ 1.25m
			134kpa		Soil @ 1.75m	
			140kpa		Soil @ 2.25m	
			140kpa		Soil @ 2.75m	
		TRIAL HOLE TERMINATED	140kpa			

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	Geotechnical Testing Analysis Report	auger environmental claims mgmt subsidence drainage
Unit 3 & 4, Heol Aur, Dafen Ind Estate, Dafen Llanelli, Carmarthenshire, SA14 8QN	*The testing results contained within this report have been performed by GSTL a UKAS accredited laborotory on behalf of Auger.	Auger House, Cross Lane, Wallasey, Wirral, CH45 8RH

Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	25/10/2022
Issue Date	25/10/2022
Report Date	15/11/2022
Auger Reference	88222.3.2.RSS
Insurance Company	NFU Mutual
LA Claim Reference	6857421
LA Co. Reference	Crawford & Co

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	15/11/2022	Wayne Honey	W. Honey

UKAS TESTING
2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377:1990 - Part 2 : 4.4 & 5.3) DESCRIPTIONS	auger environmental claims mgmt subsidence drainage
GSTL Contract Number	**62237**	
Risk Address	**Unknown**	
Auger Reference	**88222.3.2.RSS**	

TH Trial Hole	Sample Type	Depth (m)	Sample Description
TH1	D	0.75	Brown silty fine to medium gravelly CLAY
TH1	D	1.25	Brown silty fine to medium gravelly CLAY
TH1	D	1.75	Brown silty fine to medium gravelly CLAY
TH1	D	2.25	Brown silty fine to medium gravelly CLAY
TH1	D	2.75	Brown silty fine to medium gravelly CLAY

Test Operator
Jason Smith

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377:1990 - Part 2 : 4.4 & 5.3)	auger environmental claims mgmt subsidence drainage
GSTL Contract Number	**62237**	
Risk Address	**Unknown**	
Auger Reference	**88222.3.2.RSS**	
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)	

TH Trial Hole	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing .425mm %	NHBC Chapter 4.2	Remarks
TH1	D	0.75	28	78	25	53	93	HIGH VCP	CV Very High Plasticity
TH1	D	1.25	33						
TH1	D	1.75	25	59	21	38	96	MEDIUM VCP	CH High Plasticity
TH1	D	2.25	28						
TH1	D	2.75	30	77	23	54	97	HIGH VCP	CV Very High Plasticity

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
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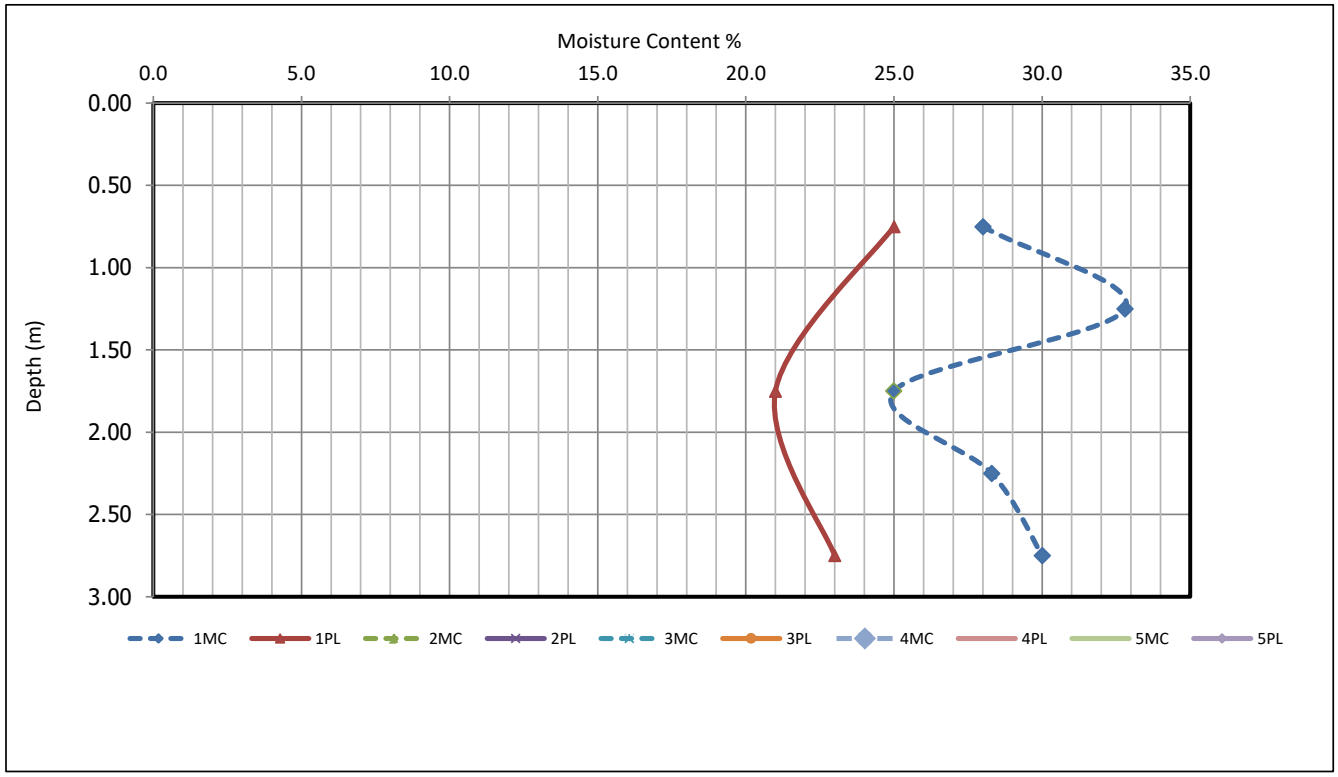
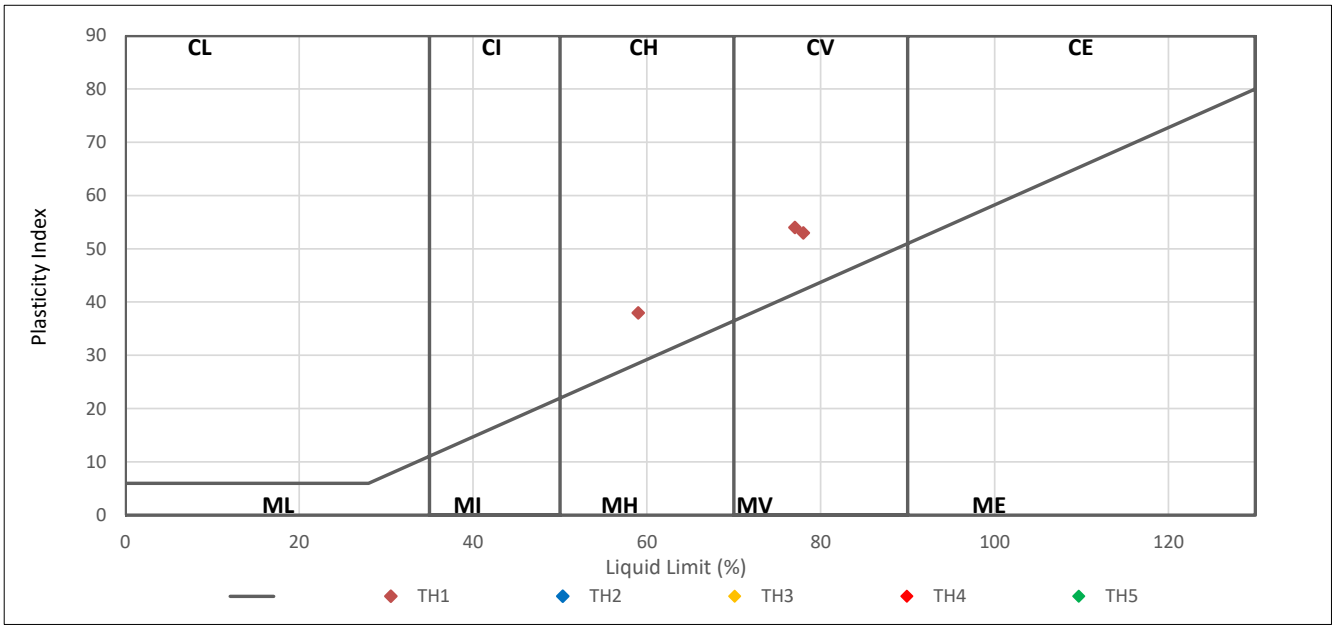


PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



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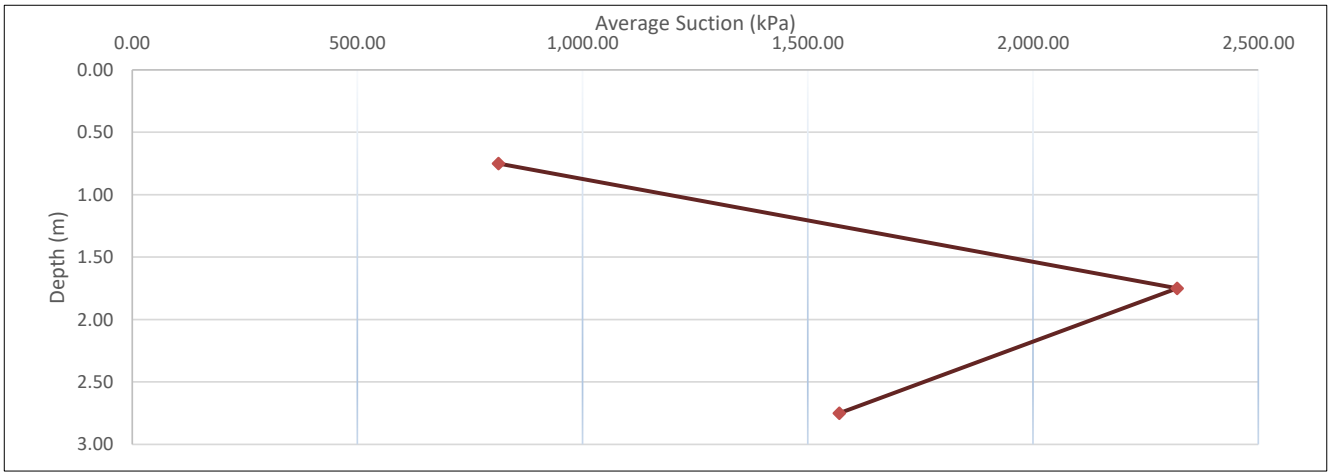
GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	SUMMARY OF SOIL CLASSIFICATION TESTS, BRE Information Paper IP 4/93 February 1993 (CI/SfB p1), BRE Information Paper Digest 412 ci/sFb (A3s) February 1996	auger environmental claims mgmt subsidence drainage
GSTL Contract Number	**62237**	
Risk Address	**Unknown**	
Auger Reference	**88222.3.2.RSS**	
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample	

TH Trial Hole	Depth (m)	Filter Paper Location	Filter Paper	Sample Prep Method	Test Duration (Days)	Water Content (%)	Soil Suction Pk (kPa)	Average Soil Suction Pk (kPa)	Cumalative Heave Potential (mm) from bottom of the hole
TH1	0.75	Top	I	D	5	30.9	824	813	61
TH1		Middle	II	D	5	31.0	815		
TH1		Bottom	III	D	5	31.1	799		
TH1	1.25								
TH1									
TH1									
TH1	1.75	Top	I	D	5	23.7	2320	2320	33
TH1		Middle	II	D	5	23.6	2350		
TH1		Bottom	III	D	5	23.8	2310		
TH1	2.25								
TH1									
TH1									
TH1	2.75	Top	I	D	5	26.4	1590	1570	19
TH1		Middle	II	D	5	26.4	1580		
TH1		Bottom	III	D	5	26.5	1550		

Heave potential is calculated from the bottom of the hole and heaves above the bottom of the hole are reported as a cumalative value.
The values reported for heave above only apply to the strata the suction and plasticity have been performed on. The shallowest depth reported is assumed to be a strata thickness to GL and Heave is calculated based on that layer thickness, if the next sample is in 0.5m increments the heave is calculated based on the layer thickness of 0.5m and depths 1m from the sample above will include heave over 1m.
Consideration should be made for other stratas where values are not reported and when working out the heave potential over the entire trial hole.



Test Operator
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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)

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Auger Solutions
Auger House
Cross Lane
WALLASEY
Wirral CH45 8RH

Your ref: **88222-3-1**

Our ref: 84/4913

12/11/2022

Dear Sirs

Root ID

The samples you sent in relation to the above on 25/10/2022 have been examined. Their structures were referable as follows:

TH1, 0.75m		
3 no.	Examined root: similar in many ways to QUERCUS (Oak) or the related CASTANEA (Sweet Chestnut). Less than 0.8mm in diameter.	Alive, recently*.
TH1, 1.25m		
1 no.	Examined root: QUERCUS (Oak) or the related CASTANEA (Sweet Chestnut). Also under 0.8mm in diameter.	Dead*.
3 no.	Unfortunately all with insufficient cells for identification.	

Click here for more information: CASTANEA QUERCUS

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 * *

Identified with no information on vegetation, on or off site.

Report commissioned by auger