

Site Investigation Report

Auger Ref:



Job Information

Client	Crawford & Co - Axa (Subsidence)
Client ref	
Visit date	21/12/2020
Report date	13/01/2021

Job Summary





- ⚠ No CCTV survey undertaken. [Read more.](#)
- ✓ 2 trial holes undertaken. [Read more.](#)



Job Information

Overview	
Brief	Auger were commissioned by Crawford & Co - Axa (Subsidence) to undertake a site investigation and CCTV inspection of the underground drainage within the area of concern at the property.
Findings	
Water Mains Listening Test	We carried out a water mains listening test on site and no leak was detected.
Trial Hole Findings	When carrying out TH2 we did not collect samples until a depth of 0.4m as we excavated to this depth to confirm the depth of the footing.
Drain Survey	No CCTV survey of the underground drainage was undertaken whilst on site due to MH1 and the adjoining lines needing to be extensively jetted clear before an accurate survey can be carried out to determine the condition of the pipework.
Recommendations	Auger recommend to jet lines clear from MH1 then survey all lines connection into MH1 and to the front of the property, additional man required due to MH depth and proximity to busy road.

Photographs

Trial Hole 1 & 2	
Fig 1.1: Trial Hole 1 Location	Fig 1.2: Trial Hole 1 Footing
	
Fig 1.3: Trial Hole 2 Location	Fig 1.4: Trial Hole 2 Footing
	

Other Photos

Fig 2.1: Side of property



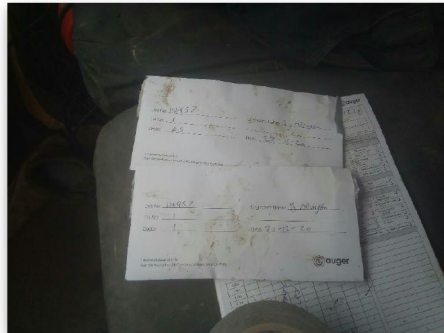
Fig 2.2: MH1

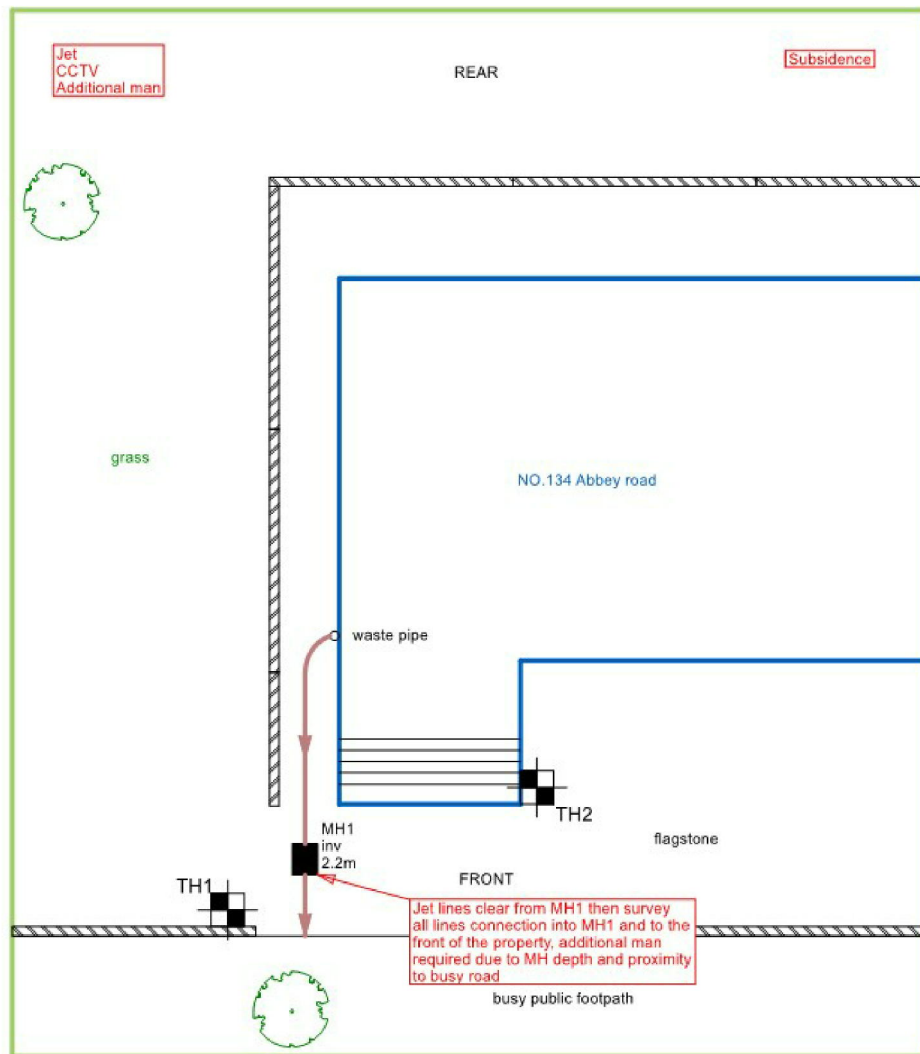


Fig 2.3: Soil samples collected



Fig 2.4: Root samples collected











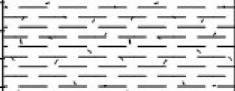
This drawing should be used for diagrammatic purposes only. Auger are not responsible or liable for any 3rd party works undertaken using the details outlined in this drawing.
Confirmation of the drainage configuration can only be confirmed by excavation or detailed technical survey.

LEGEND	X = Blockage	= Lines not camera surveyed	= Trial hole	= Shrubs/bush
= Manhole	= svpl/w/c	= Lines camera surveyed	= Borehole	= Hedge
= Inspection Chamber	= wg/fwg	= Assumed water mains feed	= Direction of flow	= Tree
= Inspection Pot	= rwg	= Walls	= Steps	
	= rwp	= Fences	= gate / door	
		= Building Outline		



Trial Hole Log No.1

Location: By in front of house

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level Brickwork Flagstones			Soil @ 0m	
0.5		Moist stiff Brown silty sandy fine to medium gravelly CLAY	66kpa		Soil @ 0.5m	Root @ 0.5m
1.0		Moist stiff Brown fine gravelly sandy silty CLAY	74kpa		Soil @ 1m	Root @ 1m
1.5			76kpa		Soil @ 1.5m	
2.0			84kpa		Soil @ 2m	
2.5		Dry very stiff Brown fine gravelly sandy silty CLAY	90kpa		Soil @ 2.5m	
3.0		TRIAL HOLE TERMINATED	98kpa		Soil @ 3m	



Trial Hole Log No.2

Location: Right side of steps

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level Brickwork Soil (Border) Concrete				
0.5		Moist light Brown fine to medium gravelly silty CLAY	20kpa		Soil @ 0.4m	Root @ 0.4m
1.0			60kpa		Soil @ 0.9m	Root @ 0.7m
1.5			60kpa		Soil @ 1.4m	
2.0		Dry stiff Brown sandy fine to medium gravelly silty CLAY	100kpa		Soil @ 1.9m	Root @ 1.9m
2.5			110kpa		Soil @ 2.4m	
3.0		TRIAL HOLE TERMINATED	110kpa 110kpa		Soil @ 2.9m	
3.5						



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

27/01/2021

Dear Sirs

Root ID

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

TH1, 0.4m		
1 no.	Examined root: ACER (Maples, Sycamores).	Alive, recently*.
TH1, 0.7m		
3 no.	Examined root: could well be an herbaceous (non-woody) plant.	Alive, recently*.
TH1, 1.9m		
2 no.	Examined root: very THIN. We cannot rule out ACER (Maples, Sycamores).	Dead* (note this 'dead' result can be unreliable with such thin samples).
3 no.	Unfortunately all with insufficient cells for identification.	

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

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.

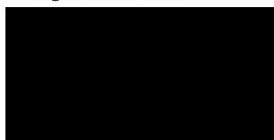


Richardson's Botanical Identifications

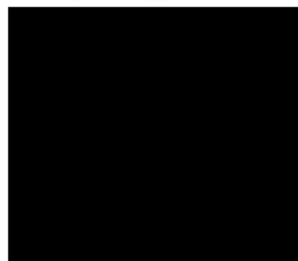
Root identification
Vegetation surveys
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James Richardson
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Auger Solutions



29/01/2021



Dear Sirs

Root ID

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

TH1, 0.5m		
7 no.	Examined root: ACER (Maples, Sycamores).	Alive, recently* .
TH1, 1.0m		
2 no.	Examined root: ACER (Maples, Sycamores).	Alive, recently* .
2 no.	Examined root: the family LEGUMINOSAE (a group of closely related trees: Robinia (False Acacia), Laburnum, Sophora (Pagoda tree), Gleditsia (Honey Locust), Cercis (Judas tree/Redbud), Albizia (Silk tree), Acacia (Mimosa), as well as such shrubs as Wisteria, Lupins, Gorse and Brooms).	Alive, recently* .

Click here for more information: [ACER](#) [LEGUMINOSAE](#)

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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.



Geotechnical Testing Analysis Report



environmental
claims mgmt
subsidence
drainage

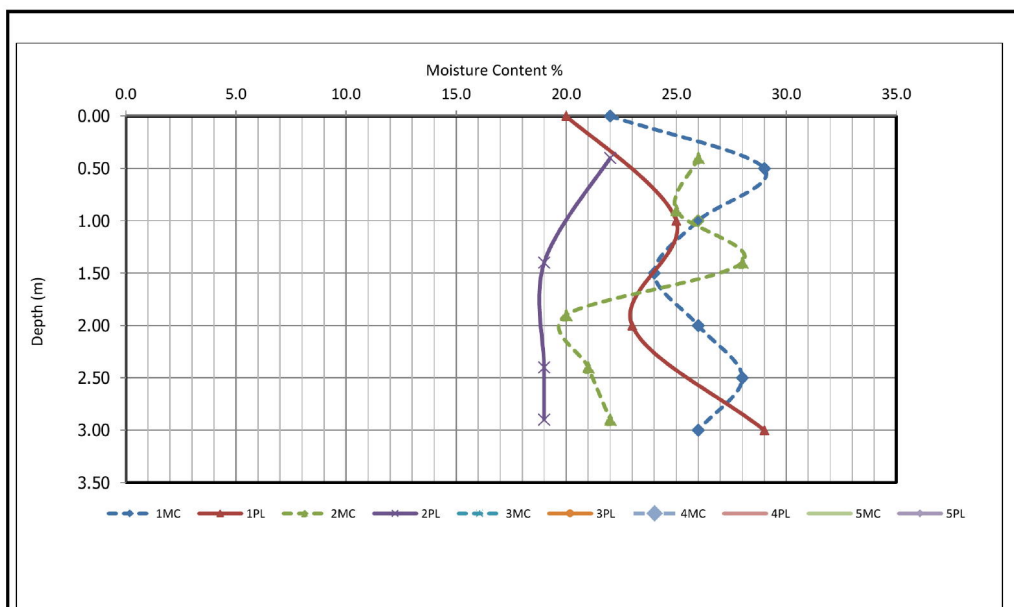
Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	21/12/2020
Issue Date	21/12/2020
Report Date	08/02/2021
Auger Reference	
Insurance Company	Axa Commerical
LA Claim Reference	
LA Co. Reference	Carmichaels

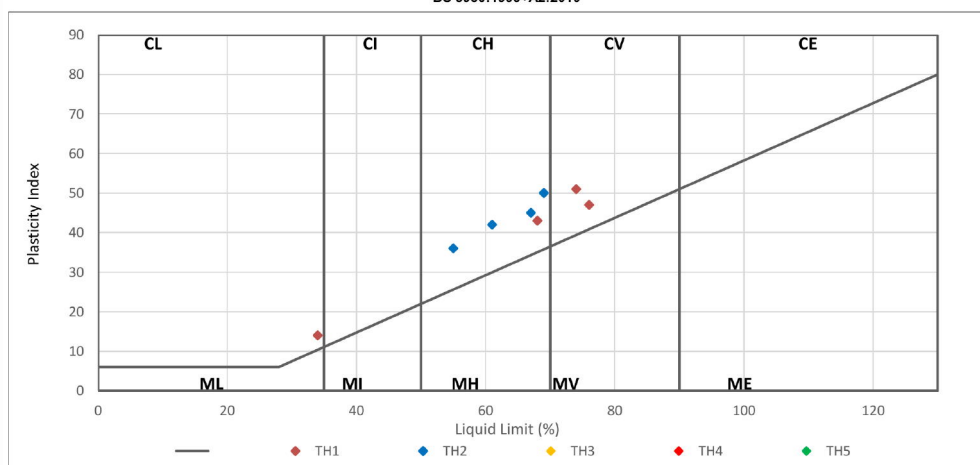
This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of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

	Checked	08/02/2021	Wayne Honey	
	Approved	08/02/2021	Paul Evans	





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	Checked	08/02/2021	Wayne Honey
Luke Williams	Approved	08/02/2021	Paul Evans

