

# Site Investigation Report

Auger Ref:

**118594.1.TSI**



## Job Information

Client	Crawford & Co - Axa (Subsidence)
Client ref	SU2005239
Visit date	24/02/2021
Report date	25/02/2021

## Job Summary

✓ 1 trial hole undertaken. [Read more.](#)



# Job Information

## Overview

<b>Brief</b>	Auger were commissioned by Crawford & Co - Axa (Subsidence) to undertake a site investigation within the area of concern at the property.
<b>Trial Hole Findings</b>	<p>When carrying out TH1 we were unable to expose the underside of the footing and confirm the projection, we discovered the foundation to be potentially underpinned. We were unable to trench the foundation further back due to a drainage run being in this location and the concrete being 300mm thick in this location at the surface. If the loss adjuster wishes, Auger can return to site to undertake a deep excavation with two men to break through thick concrete and replace a 1.0m section of pipework to expose the footing.</p> <p>Due to not being able to trench the TH back any further we carried out a remote borehole in the soil at the property and collected samples from a depth of 0.9m.</p>

## Photographs

### Trial Hole 1

Fig 1.1: Trial Hole 1 Location

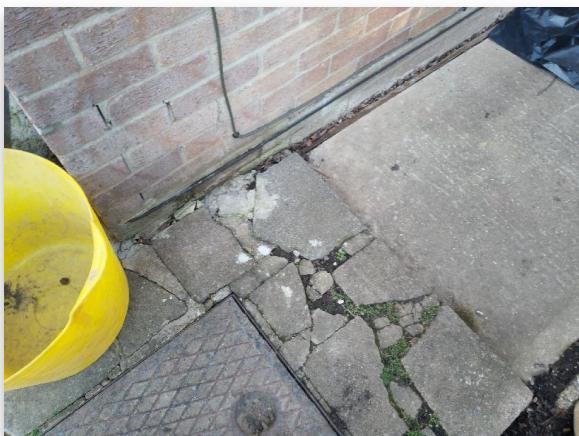


Fig 1.2: Trial Hole 1 Footing



Fig 1.3: Trial Hole 1



## Other Photos

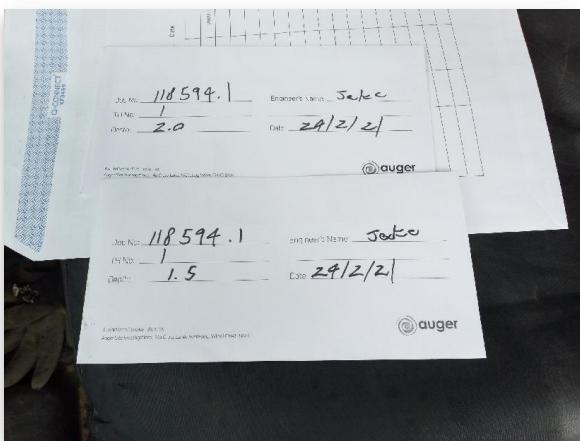
Fig 2.1: Side of property

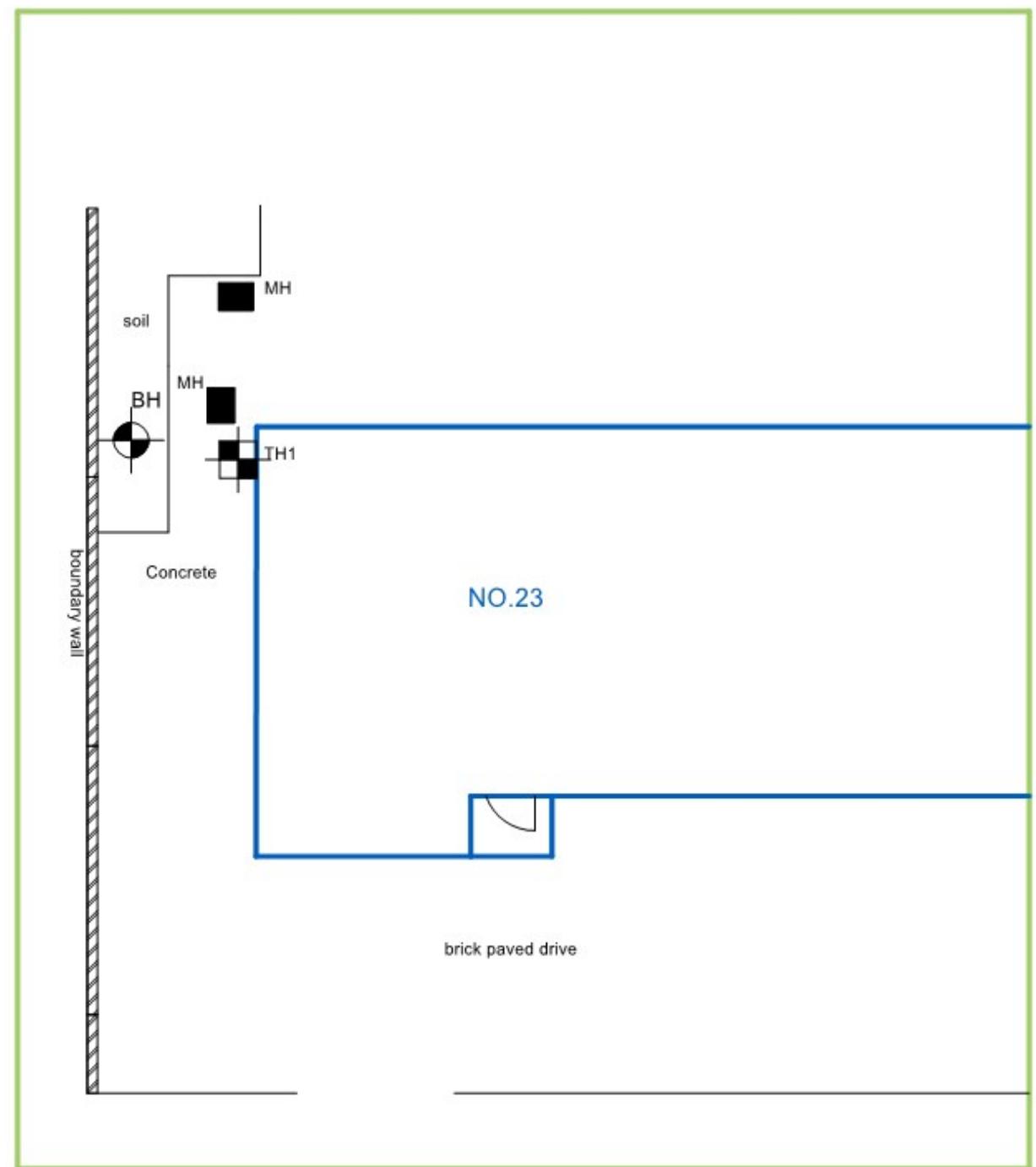


Fig 2.2: Soil samples collected



Fig 2.3: 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**

- = Manhole
- = Inspection Chamber
- = Inspection Pot

**X** = Blockage

● = svp/w/c

■ = wgf/fwg

■ = rwg

○ = rwp

= Lines not camera surveyed

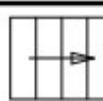
= Lines camera surveyed

= Assumed water mains feed

= Walls

= Fences

= Building Outline



= Steps



= Trial hole



= Hedge



= Tree

= Borehole

= Direction of flow



## Trial Hole Log No.1

Location: Rear lefthand side wall corner

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Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		400+mm Ground Level Concrete 300mm thick Brickwork Concrete Concrete potentially underpinned				
1.0			112kpa		Soil @ 0.9m	Root @ 0.9m
1.5		Dry very stiff Brown slightly sandy fine to medium gravelly silty CLAY	140kpa		Soil @ 1.5m	
2.0			140kpa		Soil @ 2.0m	Root @ 2.0m
2.5			140kpa		Soil @ 2.5m	
3.0		TRIAL HOLE TERMINATED	140kpa		Soil @ 3m	



## Geotechnical Testing Analysis Report



environmental +  
claims mgmt +  
subsidence +  
drainage +

Unit 3 & 4,  
Heol Aur,  
Dafen Ind Estate,  
Dafen  
Llanelli,  
Carmarthenshire,  
SA14 8QN

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

### Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	24/02/2021
Issue Date	24/02/2021
Report Date	13/03/2021
Auger Reference	118594.1.2.RSS
Insurance Company	Axa Insurance
LA Claim Reference	SU2005239
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	13/03/2021	Wayne Honey	
	Approved	13/03/2021	Paul Evans	



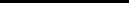


**LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX  
( BS 1377 : Part 2 : 1990 Method 5 )  
DESCRIPTIONS**



environmental  
claims mgmt  
subsidence  
drainage

GSTL Contract Number	<b>52878</b>
Risk Address	<b>Unknown</b>
Auger Reference	<b>118594.1.2.RSS</b>

Test Operator	Checked	13/03/2021	Wayne Honey	
Luke Williams	Approved	13/03/2021	Paul Evans	





## LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX ( BS 1377 : Part 2 : 1990 Method 5 )

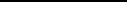


- environmental +
- claims mgmt +
- subsidence +
- drainage +

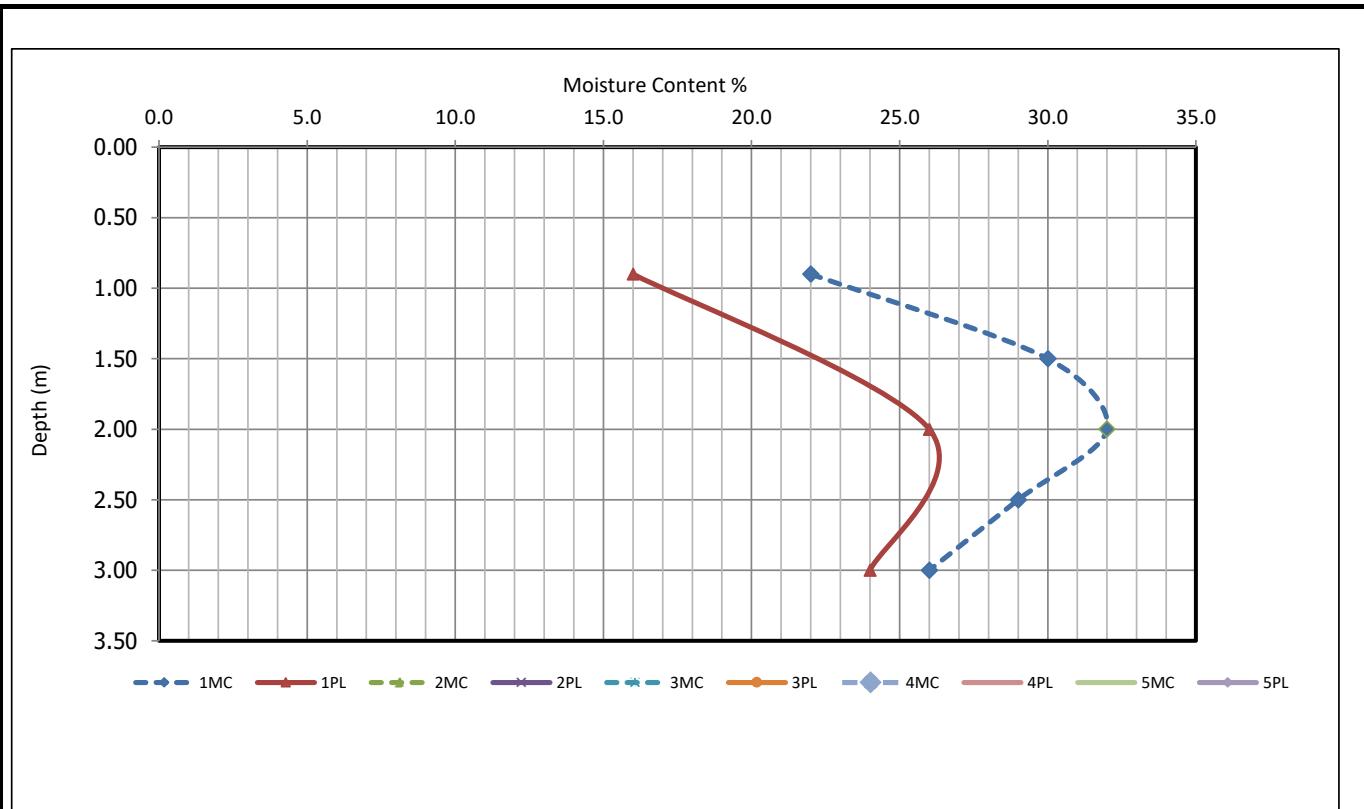
GSTL Contract Number	<b>52878</b>	
Risk Address	<b>Unknown</b>	
Auger Reference	<b>118594.1.2.RSS</b>	
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)	

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)

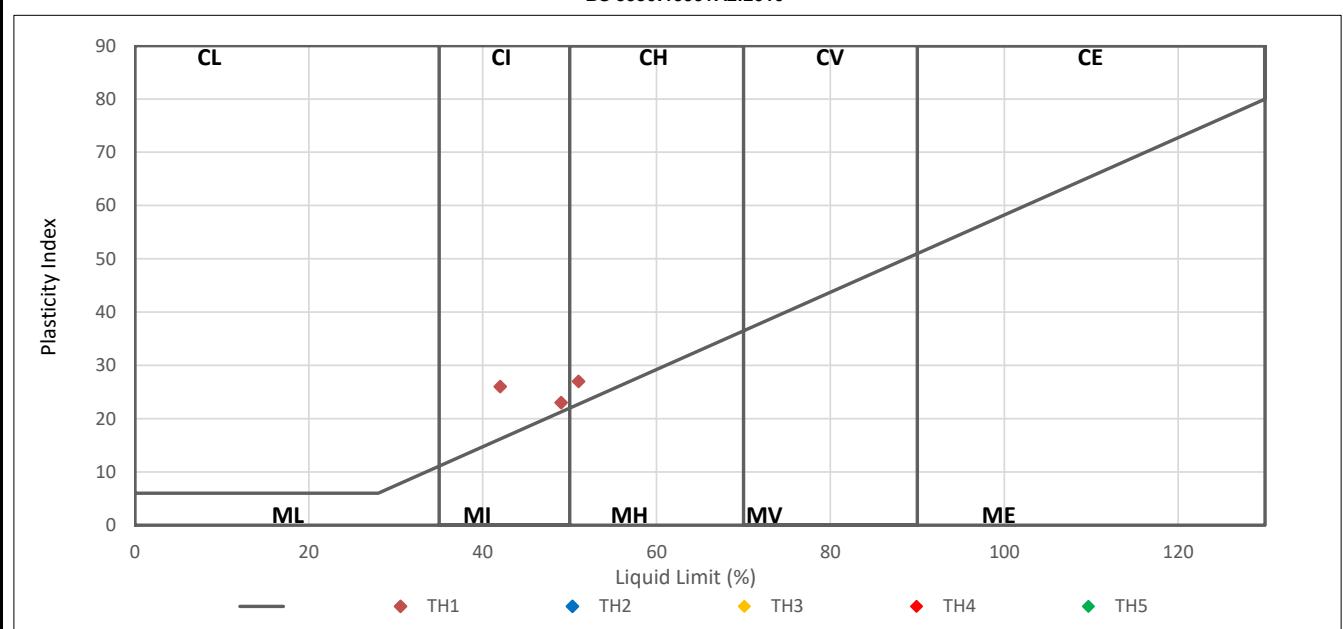
The Atterberg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

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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"

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Luke Williams	Approved	13/03/2021	Paul Evans	





# 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**

**Auger House**

**Cross Lane**

**WALLASEY**

**Wirral CH45 8RH**

**Enterprise House**  
49-51 Whiteknights Road  
Reading  
RG6 7BB  
Tel: (0118) 986 9552 (Direct line)  
E-mail: [richardsons@botanical.net](mailto:richardsons@botanical.net)  
Web: [www.botanical.net](http://www.botanical.net)

23/04/2021

Your ref: 118594-1-1  
Our ref: 82/2113

Dear Sirs

## Root ID

The samples you sent in relation to the above on 24/02/2021 have been examined. Their structures were referable as follows:

<b>TH1, 0.9m</b>		
3 no.	Examined root: QUERCUS (Oak).	Alive, recently*.
<b>TH1, 2.0m</b>		
2 no.	Examined root: also similar to QUERCUS (Oak). This was a very IMMATURE sample.	Dead*.
1 no.	Microscopic examination showed insufficient cells for recognition.	

Click here for more information: [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](http://www.botanical.net) \* \*