

# Site Investigation Report

Auger Ref:

**102230.4.TSI**



## Job Information

Client	Sedgwick International UK
Client ref	8767150
Visit date	09/07/2020
Report date	09/07/2020

## Job Summary

- ✓ 1 trial hole undertaken. [Read more.](#)
- ❗ TH1 depth not reached. [Read more.](#)
- ⚠ Requested soil samples not taken. [Read more.](#)
- ✓ Requested root samples taken. [Read more.](#)
- ⚠ Unrequested root samples taken. [Read more.](#)



# Job Information

## Overview

### Brief

Auger were commissioned by Sedgwick International UK to undertake a site investigation within the area of concern at the property.

## Findings

### Trial Hole Findings

We were unable to reach the required depth on TH1 because solid ground was encountered at a depth of 1.1 meters, we carried out a further two remote boreholes and encountered the same issue at the depth of a meter.

We were unable to collect all soil samples from TH1 due to not being able to reach the required depth, only one soil sample has been taken.

We took one root sample in TH1 that we found before encountering solid ground.

## Photographs

### Trial Hole 1

Fig 1.1: Trial Hole 1 Location

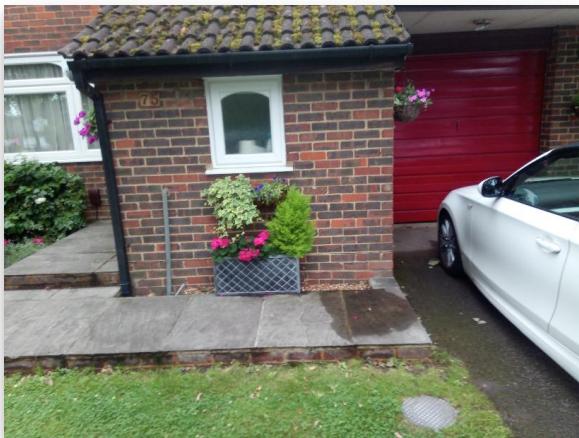


Fig 1.2: Trial Hole 1 Footing



## Other Photos

Fig 7.1: Borehole 2



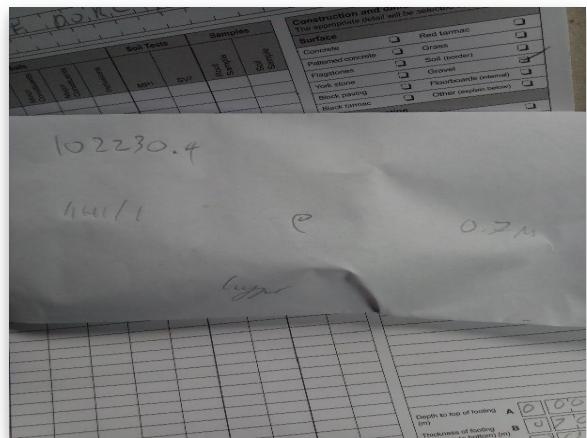
Fig 7.2: Borehole 3



Fig 7.3: Soil Sample Taken



Fig 7.4: Root Sample Taken

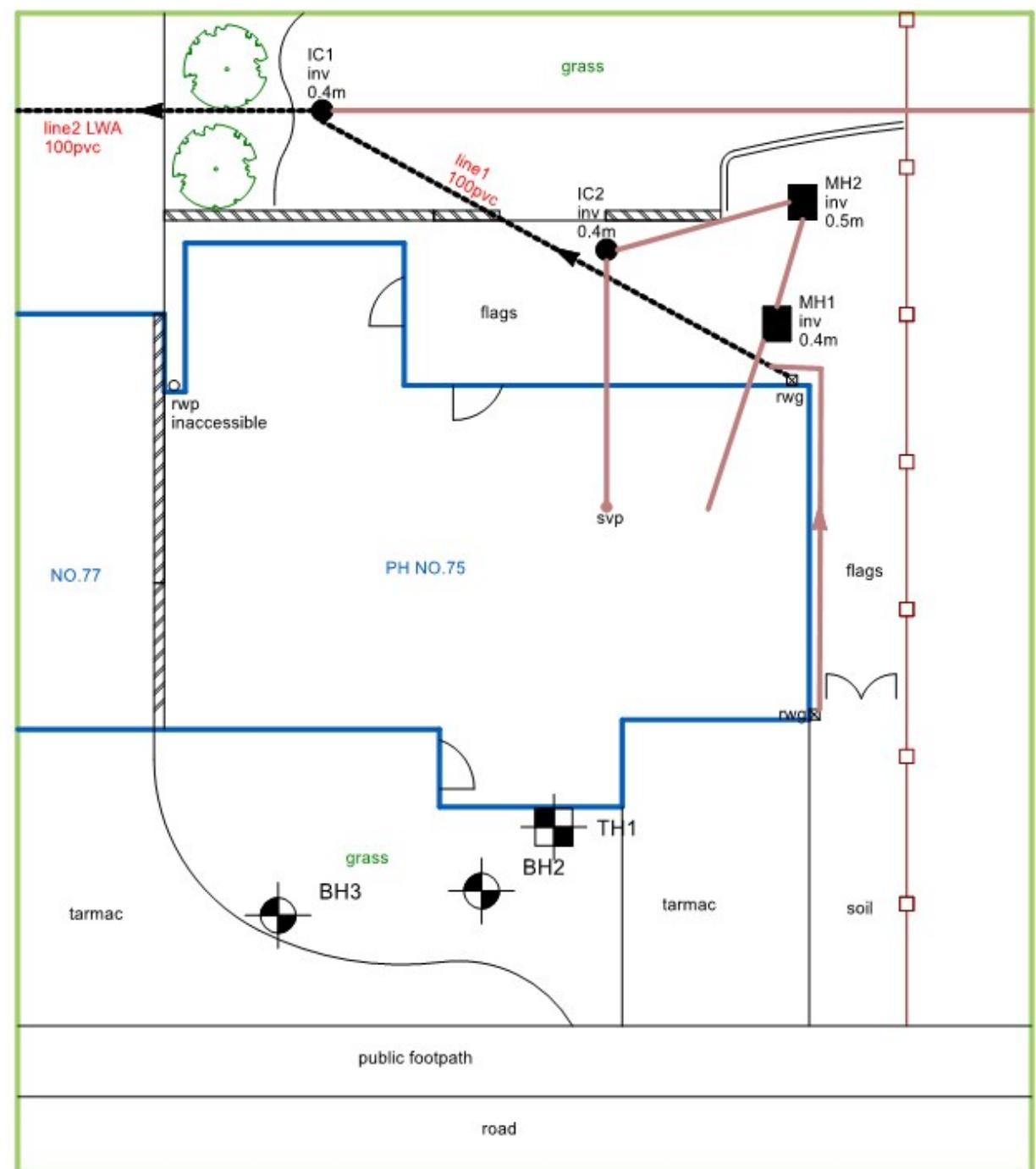




## Existing Layout

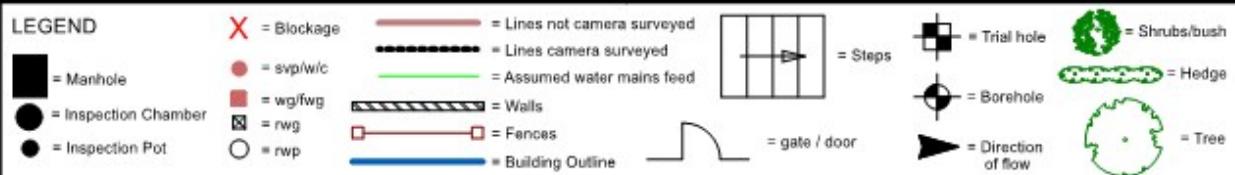
Job Ref: 102230.1

Date: 15/01/2020



## 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.

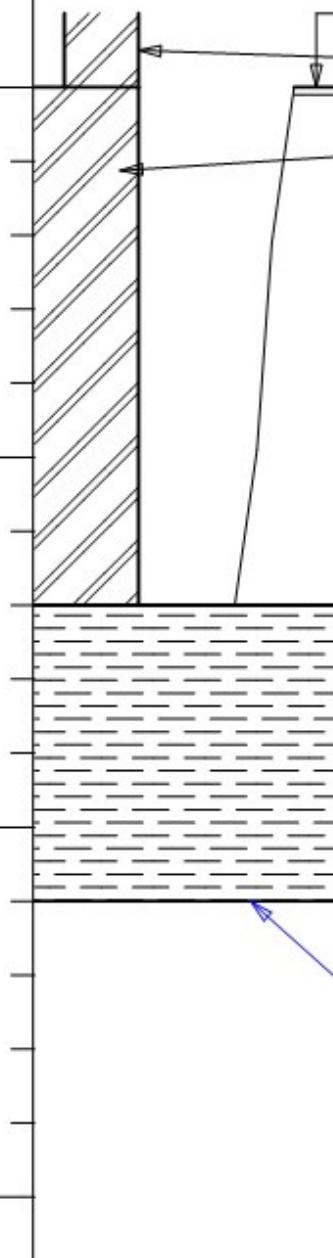




## Trial Hole Log No.1

Location: Front of porch

Job Ref:  
102230.4.TSI

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level Brickwork Gravel Brick Footing (No Proj) Brown silty CLAY	88kpa		Soil @ 0.7m	Root @ 0.7m
1.0		TRIAL HOLE TERMINATED  Hit solid ground at this depth on trial hole, but got the same on 2 other boreholes				
1.5						



## 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	09/07/2020
Issue Date	09/07/2020
Report Date	28/07/2020
Auger Reference	102230.4.3.RSS
Insurance Company	Fairmead Insurance Limited
LA Claim Reference	8767150
LA Co. Reference	Sedgwick International UK

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	28/07/2020	Wayne Honey	
	Approved	28/07/2020	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>49301</b>	
Risk Address	<b>Unknown</b>	
Auger Reference	<b>102230.4.3.RSS</b>	

Test Operator	Checked	28/07/2020	Wayne Honey	
Luke Williams	Approved	28/07/2020	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>49301</b>
Risk Address	<b>Unknown</b>
Auger Reference	<b>102230.4.3.RSS</b>
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)

#### Modified Plasticity Index (PI) <10

: Non Classified

Modified Plasticity Index

: Non Classified

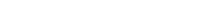
Modified PI = 10 to <20

- Low volume change potential (Low VCP)
- Medium volume change potential (Med VCP)

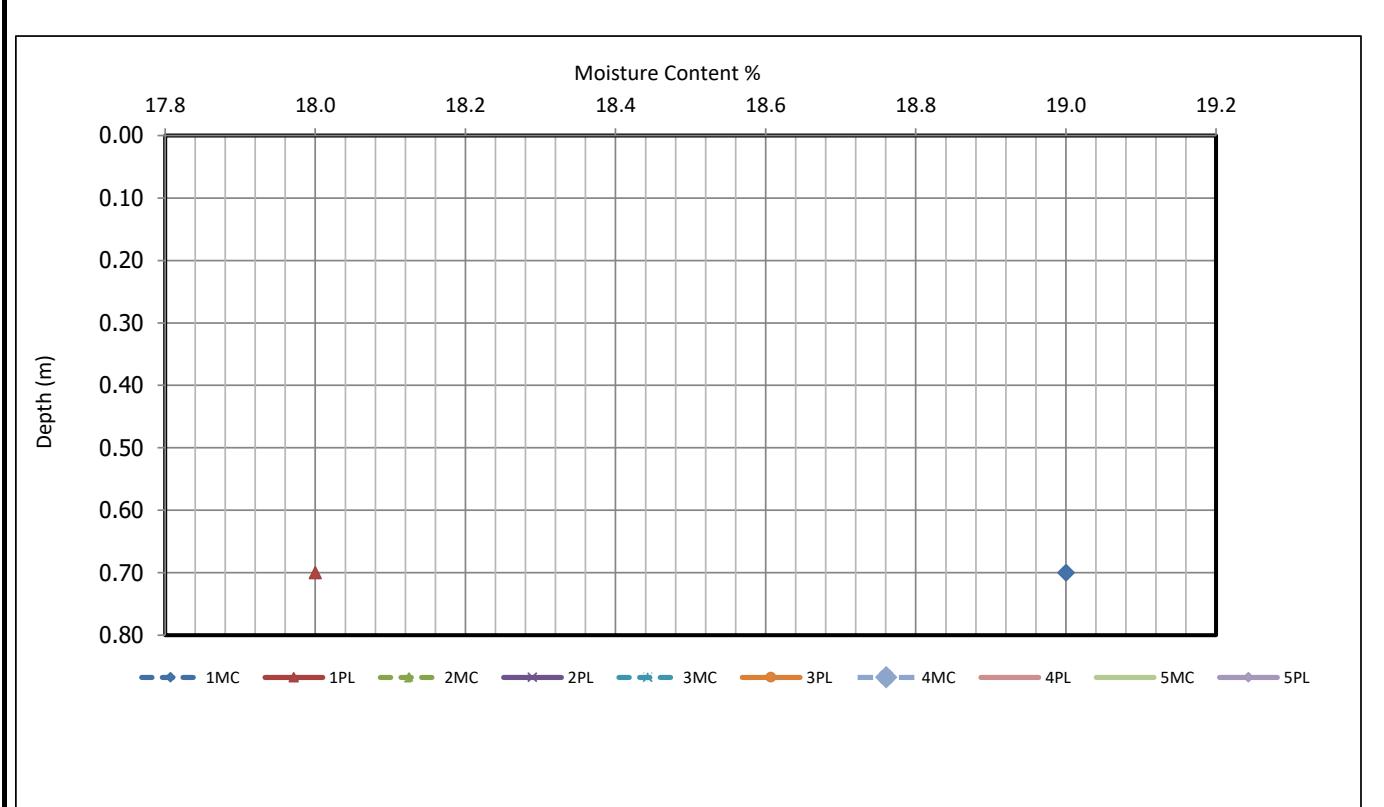
Modified PI = 20 to <40

: Medium volume change potential (Med VC)

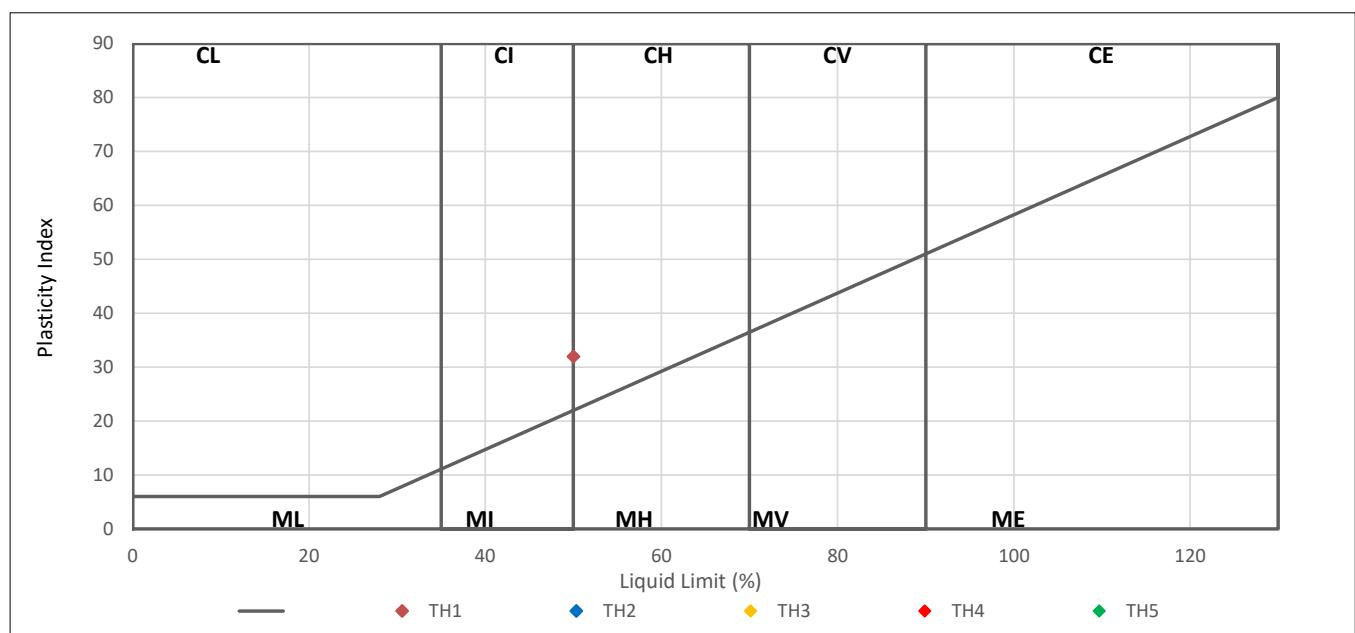
The Atterberg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

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Luke Williams	Approved	28/07/2020	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"

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Luke Williams	Approved	28/07/2020	Paul Evans	



GSTL Contract Number	<b>49301</b>
Risk Address	<b>Unknown</b>
Auger Reference	<b>102230.4.3.RSS</b>
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample

Heave potential is calculated from the bottom of the hole and heaves above the bottom of the hole are reported as a cumulative 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	Checked	28/07/2020	Wayne Honey	
Luke Williams	Approved	28/07/2020	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)

Your ref: **102230-4-2**

17/07/2020

Our ref: 80/2502

Dear Sirs

## Root ID

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

<b>TH1, 0.7m</b>		
9 no.	Examined root: QUERCUS (Oak).	Alive, recently*.
2 no.	Both pieces of BARK only - insufficient material for recognition.	
3 no.	Unfortunately all with insufficient cells for identification.	

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) \*\*