

Arboricultural Consultancy for Lloyds Bank

Note: This report is intended for use between the client, Environmental Services and any parties detailed within the report. It is based on the understanding at the time of visiting the property that Engineers are satisfied that damage is attributable to clay shrinkage subsidence exacerbated by vegetation.

1. Case Details

Insured	Mr & Mrs Brian & Janet Ivermee	Address	51 Lund Avenue, Barnsley, S71 5NW		
Client	Subsidence Management Services	Contact	Ian Domigan	Claim No.	IFS-LBG-SUB-22-0100956
ES Ref	SA-250094	Consultant	Keith Burgess	Contact No.	0330 380 1036
Report Date	01/09/2022				

Scope of Report: To survey the property and determine significant vegetation contributing to subsidence damage, make recommendation for remedial action and assess initial mitigation and recovery prospects. The survey does not make an assessment for decay or hazard evaluation.

2. Property and Damage Description

The insured structure is a bungalow. The property occupies a level site with no adverse topographical features.

We are advised that the current damage relates to the left-hand side of the insured dwelling where cracking indicates downwards movement

3. Technical Reports

No technical investigations are available at the time of reporting, therefore assumptions outlined in Note above apply: recommendations may be subject to change following evaluation of any investigations that may be forthcoming.

4. Action Plan

Mitigation	
Insured involved?	Yes
Local Authority involved?	No
Other third party Mitigation involved?	Yes
Recovery	
Is there a potential recovery action?	Yes

Treeworks	
Local Authority	Barnsley Metropolitan Borough Council
TPO / Conservation Area / Planning Protection Searches	Awaiting Searches from LA
Additional Comments	
Awaiting Further Instructions.	
A potential recovery action has been identified.	
Engineers should consider focusing investigations to strengthen factual evidence for disclosure to third party tree owners.	

5. Technical Synopsis

This report is based upon our understanding at the time of visiting the property that Subsidence Management Services have concluded, on a preliminary basis, that the current damage is due to differential foundation movement exacerbated by moisture abstraction from vegetation growing adjacent to the property's foundations.

We have therefore been instructed to assess the potential for vegetation to be influencing soil moisture levels beneath the foundations of the property and, if deemed appropriate provide management proposals which will return long-term stability and allow effective repairs to be undertaken.

The potential drying influence of the vegetation on site, has been considered based on an assessment of overall size, species profile and the proximity of vegetation relative to the advised area of damage.

Based on our observations on site, it is our opinion that the footings of the subject property are within the normally accepted influencing distance of vegetation on site, thereby indicating the potential for the advised damage to be the result of clay shrinkage subsidence exacerbated by the moisture abstracting influence of vegetation.

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With due regards to species profile, size and proximity, the Oak (T1, T3 & T4) are considered the dominant feature proximate to the focal area of movement and accordingly, where vegetation is confirmed to be causal, we have identified them as the primary cause of the current subsidence damage.

The Cherry (T2) cannot be discounted as contributing to the overall level of soil drying proximate to the area of damage and is/are therefore also considered to retain a contributory influence, albeit in a limited / secondary capacity when compared to T1, T3 & T4.

The size and proximity of the above vegetation is consistent with the advised location(s) of damage and it is our opinion, on balance of probability, that roots from the above vegetation will be in proximity to the footings of the insured property.

Given the above and considering the suspected mechanism of movement, in order to mitigate the current damage thereby allowing soils beneath the property to recover to a position such that an effective engineering repair solution can be implemented, we recommend a program of vegetation management as detailed by this report.

Please refer to Section 6 for management prescriptions.

Preliminary recommendations contained within this report are prescribed on the basis that site investigations confirm vegetation to be causal; management advice is designed to offer the most reliable arboricultural solution likely to restore long-term stability and facilitate liaison with third-party owners and the local Authorities are necessary.

Whilst it is accepted that pruning in accordance with BRE IP7/06 (and if repeated on a 3-year (max) basis) can offer an alternative to solution, it is one with a high residual risk of future movement and, in this instance offers little prospect of a providing a meaningful long-term reduction in soil water use form XXXX and XXXX.

Consequently, we have advocated the complete removal of T1, T2, T3 and T4 as it will offer the most certain arboricultural solution likely to restore long-term stability.

Replacement planting is considered appropriate with regards mitigating the impact of the works suggested; however, species selection should be appropriate for the chosen site and consideration must be given to the ultimate size of the replacement species and any future management requirements.

We recommend the role of vegetation and the efficacy of management recommendations be qualified by means of monitoring.

Please note that the footing of the insured property fall within the anticipated rooting distance of additional vegetation which we believe presents a foreseeable risk of future damage and accordingly we have made recommendations in respect of this.

The extent / impact of vegetation management required to restore and maintain long-term stability at this property is acknowledged. However, we consider the impact on the wider public amenity from the proposed tree works is mitigated by the presence of further trees and the scope for replacement planting.

Is vegetation likely to be a contributory factor in the current damage?	Yes
Is vegetation management likely to contribute to the future stability of the property?	Yes
Is replacement planting considered appropriate?	Yes
Would DNA profiling be of assistance in this case?	No

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6.0 Recommendations

6.1 Current Claim Requirements

These recommendations may be subject to review following additional site investigations.

Tree No.	Species	Age Cat	Approx. Height (m)	Distance to Building (m) *	Ownership	Action	Requirement
T1	Oak	3	10	5.8	A - Third Party	Remove	Remove close to ground level; do not treat stump due to translocation risk. Where such a risk exists, we advise that any emergent regrowth is removed annually.
T2	Cherry	3	10	4.9	A - Third Party	Remove	Remove close to ground level and treat stump to inhibit regrowth.
T3	Oak	3	10	7.2	A - Third Party	Remove	Remove close to ground level; do not treat stump due to translocation risk. Where such a risk exists, we advise that any emergent regrowth is removed annually.
T4	Oak	3	13	10.8	A - Third Party	Remove	Remove close to ground level; do not treat stump due to translocation risk. Where such a risk exists, we advise that any emergent regrowth is removed annually.

Age Cat: 1 = Younger than property; 2 = Similar age to the property; 3 = Significantly older than property

* Estimated

6.2 Future Risk Recommendations

These recommendations may be subject to review following additional site investigations.

Tree No.	Species	Age Cat	Approx. Height (m)	Distance to Building (m) *	Ownership	Action	Requirement
H1	Cypress	1	6	5.6	C - Insured	Action to avoid future risk	Maintain at, or below current dimensions by way of regular pruning.
T5	Oak	3	9	14	A - Third Party	Action to avoid future risk	Maintain at, or below current dimensions by way of regular pruning.
T6	Magnolia	1	4	5.8	C - Insured	Action to avoid future risk	Maintain at broadly current dimensions by way of regular pruning.
T7	Oak	1	9	12.6	A - Third Party	Action to avoid future risk	Maintain at, or below current dimensions by way of regular pruning.
T8	Sycamore	1	11	7.8	A - Third Party	Action to avoid future risk	Maintain at, or below current dimensions by way of regular pruning.

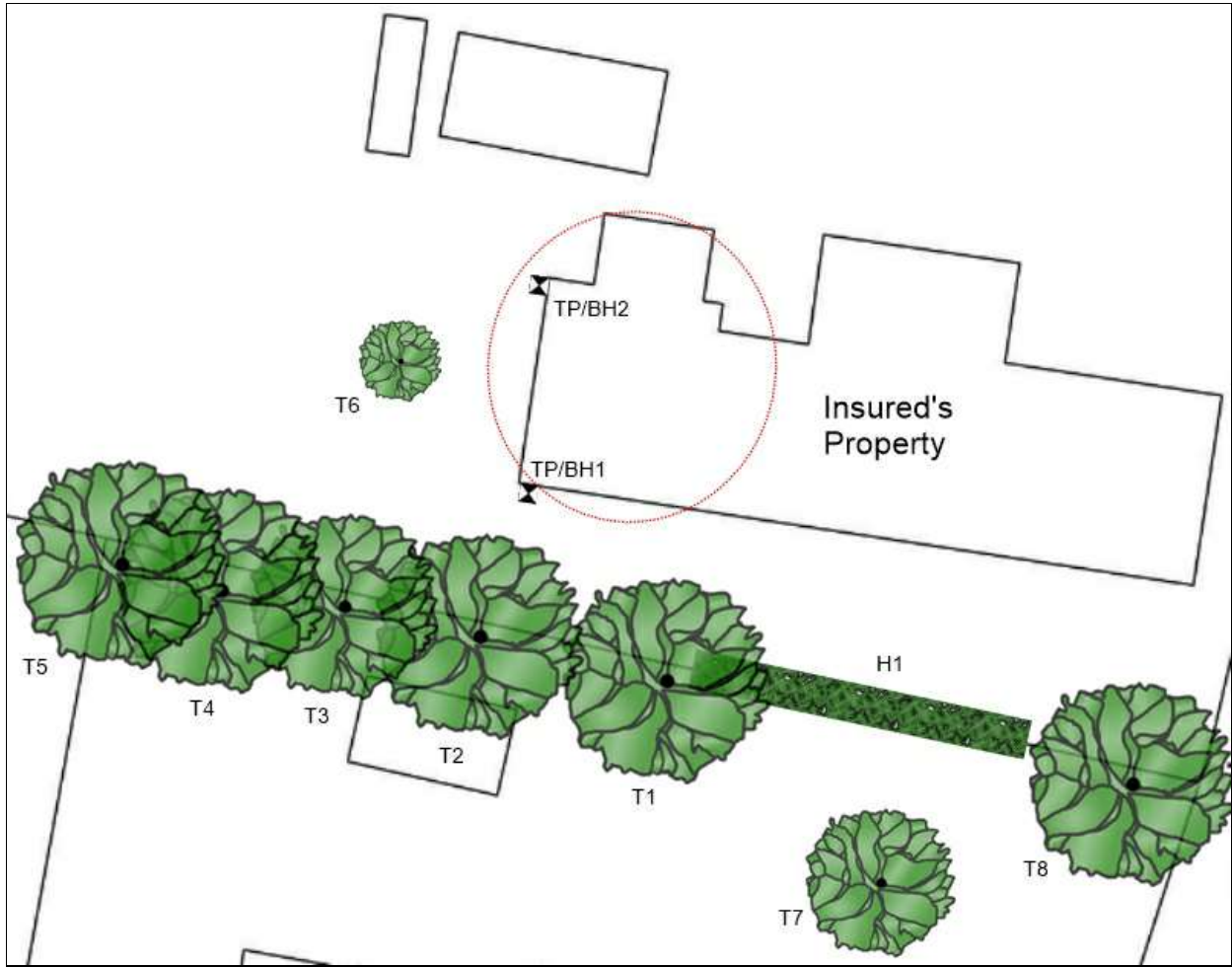
Age Cat: 1 = Younger than property; 2 = Similar age to the property; 3 = Significantly older than property

* Estimated

Third party property addresses should be treated as indicative only, should precise detail be required then Environmental Services can undertake Land Registry Searches

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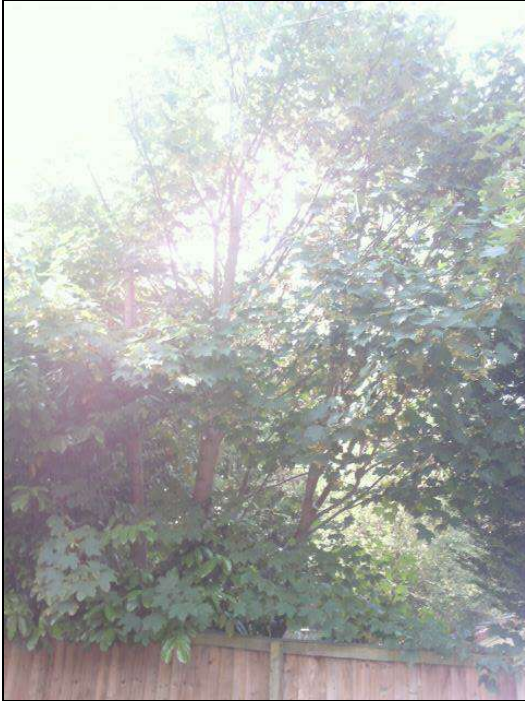
7. Site Plan



Please note that this plan is not to scale. OS Licence No. 100043218

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8. Photographs



T8 - Sycamore



H1 - Cypress



T7 - Oak

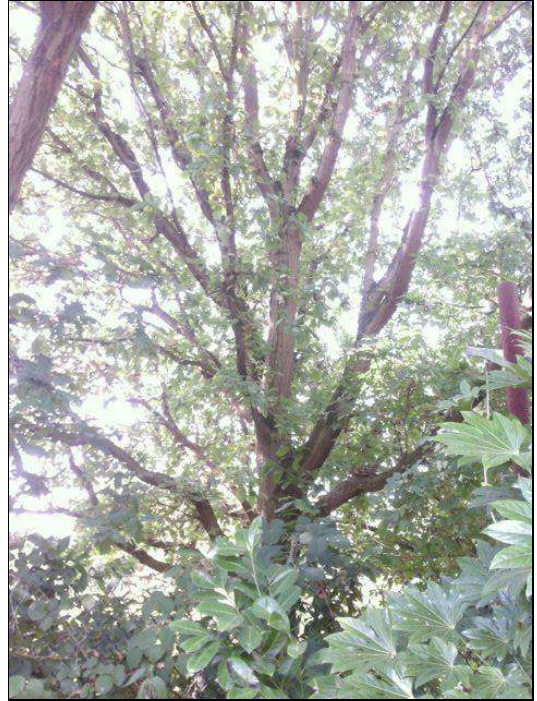


T6 - Magnolia

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T5 - Oak



T4 - Oak



T3 - Oak



T2 - Cherry

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T1 - Oak

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Date: 01/09/2022

Property: 51 Lund Avenue, Barnsley, S71 5NW

9. Tree Works Reserve - Does not include recommendations for future risk.

Insured Property Tree Works	£0.00
Third Party Tree Works	£1850.00
Provisional Sum	£0.00

- The above prices are based on works being performed as separate operations.
- The above is a reserve estimate only.
- Ownerships are assumed to be correct and as per Section 6.
- A fixed charge is made for Tree Preservation Order/Conservation Area searches unless charged by the Local Authority in which case it is cost plus 25%.
- Should tree works be prevented due to statutory protection then we will automatically proceed to seek consent for the works and Appeal to the Secretary of State if appropriate.
- All prices will be subject to V.A.T., which will be charged at the rate applying when the invoice is raised.
- Trees are removed as near as possible to ground level, stump and associated roots are not removed or included in the price.
- Where chemical application is made to stumps it cannot always be guaranteed that this will prevent future regrowth. Should this occur we would be pleased to provide advice to the insured on the best course of action available to them at that time. Where there is a risk to other trees of the same species due to root fusion, chemical control may not be appropriate.

10. Limitations

This report is an appraisal of vegetation influence on the property and is made on the understanding that that engineers suspect or have confirmed that vegetation is contributing to clay shrinkage subsidence, which is impacting upon the building. Recommendations for remedial tree works and future management are made to meet the primary objective of assisting in the restoration of stability to the property. In achieving this, it should be appreciated that recommendations may in some cases be contrary to best Arboricultural practice for tree pruning/management and is a necessary compromise between competing objectives.

Following tree surgery we recommended that the building be monitored to establish the effectiveness of the works in restoring stability.

The influence of trees on soils and building is dynamic and vegetation in close proximity to vulnerable structure should be inspected annually.

The statutory tree protection status as notified by the Local Authority was correct at the time of reporting. It should be noted however that this may be subject to change and we therefore advise that further checks with the Local Authority MUST be carried out prior to implementation of any tree works. Failure to do so can result in fines in excess of £20,000.

Our flagging of a possible recovery action is based on a broad approach that assume all third parties with vegetation contributing to the current claim have the potential for a recovery action (including domestic third parties). This way opportunities do not "fall through the net"; it is understood that domestic third parties with no prior knowledge may be difficult to recover against but that decision will be fully determined by the client.

A legal Duty of Care requires that all works specified in this report should be performed by qualified, arboricultural contractors who have been competency tested to determine their suitability for such works in line with Health & Safety Executive Guidelines. Additionally all works should be carried out according to British Standard 3998:2010 "Tree Work. Recommendations".

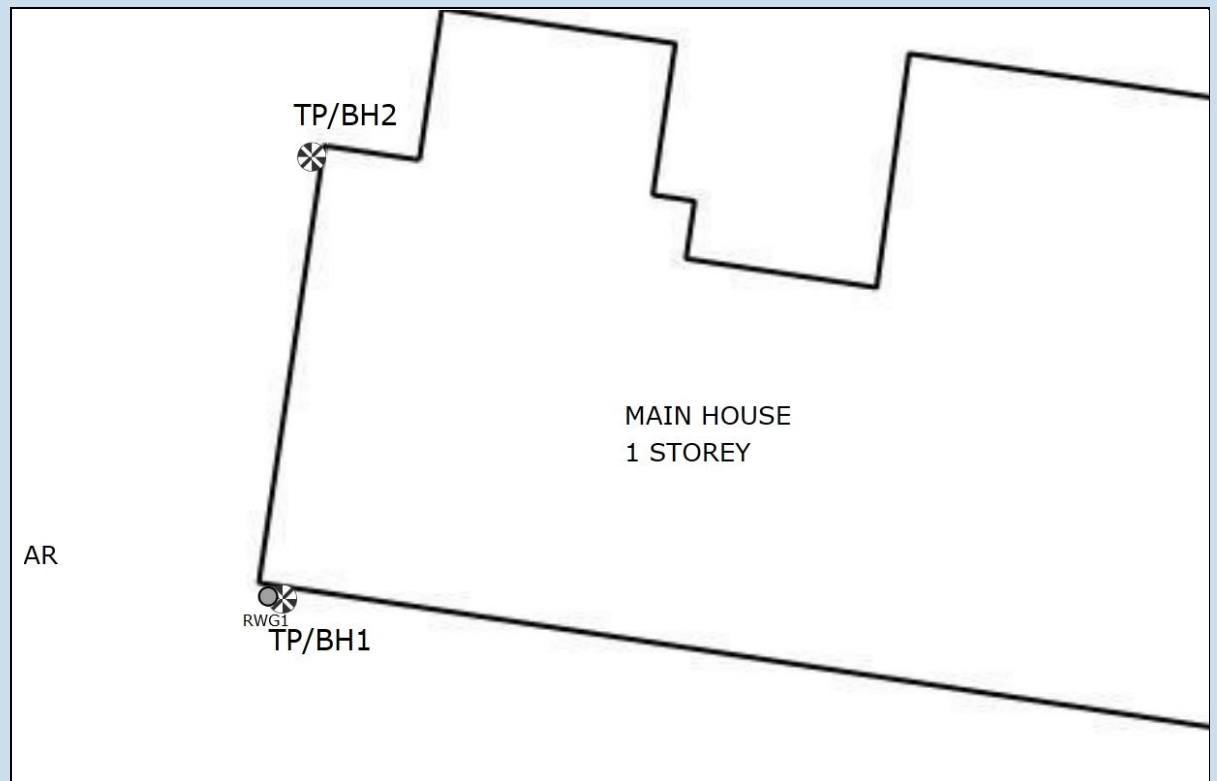
GEOTECHNICAL

for Subsidence Management Services

51 Lund Avenue, Barnsley, S71 5NW

Client: Subsidence Management Services
 Client Contact: Ian Domigan
 Client Ref: IFS-LBG-SUB-22-0100956
 Policy Holder: Mr and Mrs Brian and Janet Ivermee
 Report Date: 11 August 2022
 Our Ref: C64950G29240

Site Plan

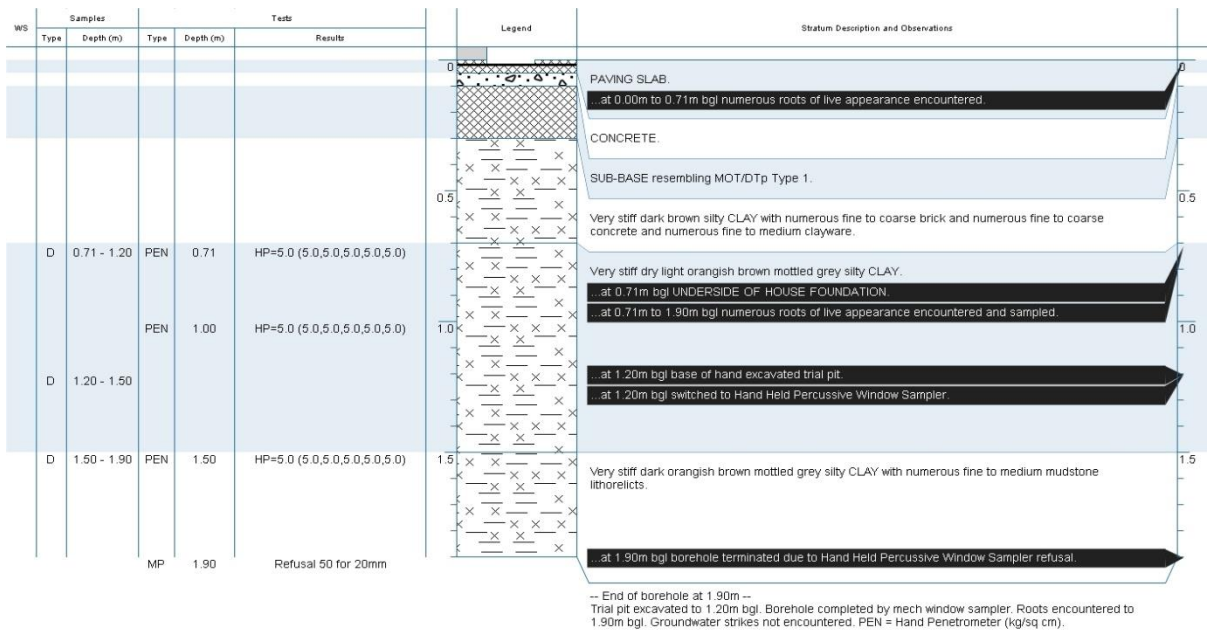
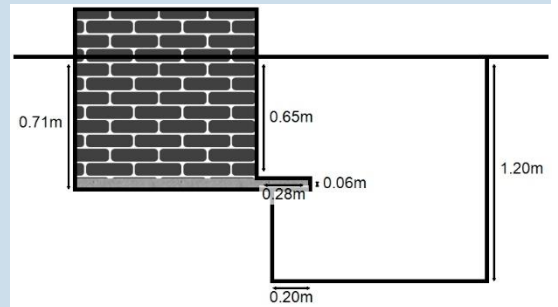


	Borehole		Foul Water Drain		Foul Manhole		Foul Rodding Point		Foul Vent Pipe
	Trial Pit / Borehole		Surface Water Drain		Rain Water Manhole		Surface Rodding Point		Rain Water Gully
	Trial Pit		Combined Drain		Combined Manhole				

TP/BH1 Foundation Detail and Borehole Log

Foundation Detail

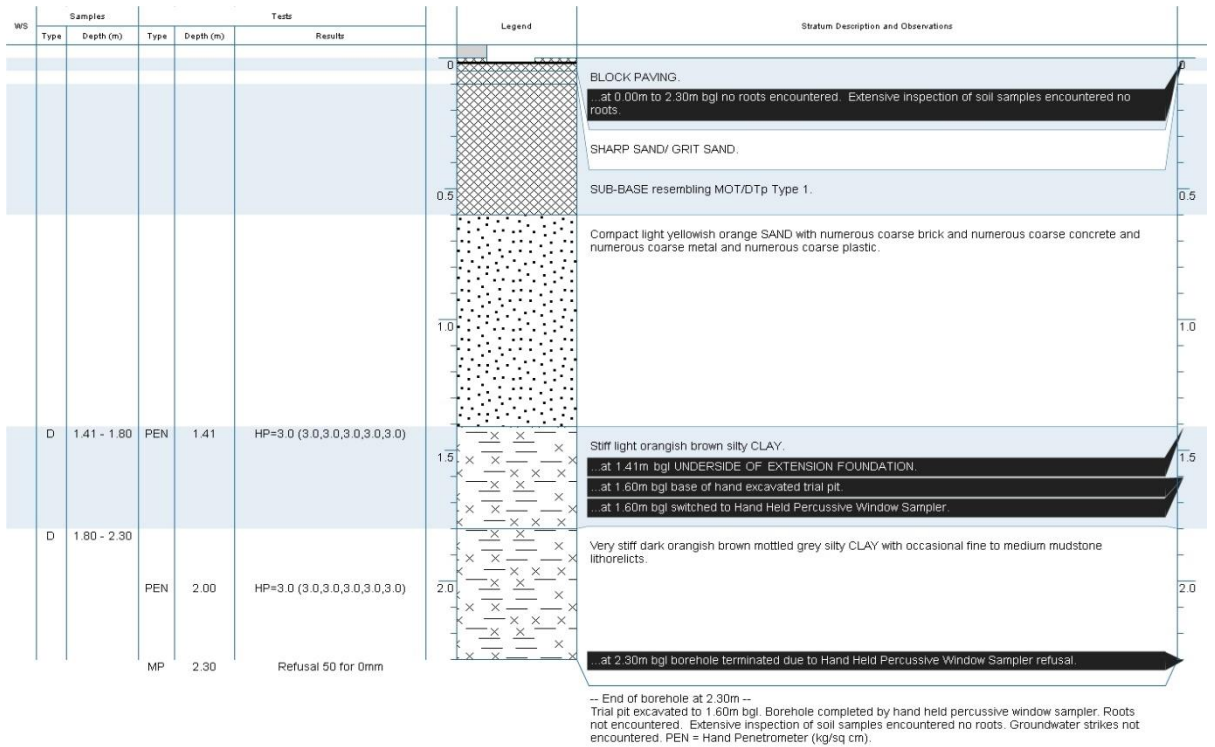
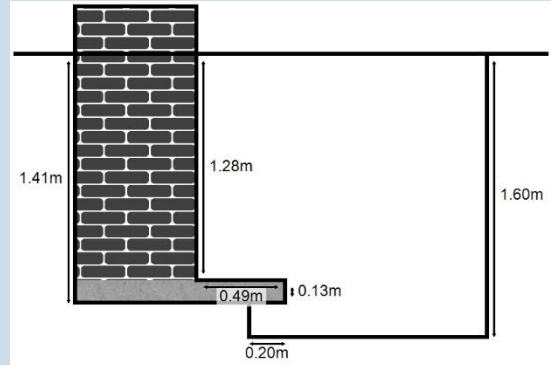
House foundation comprised of brick wall to 650mm bgl, bearing on concrete to 710mm bgl, with a total projection of 280mm from the elevation. Underside of foundation (USF) was exposed to 200mm back from the face of the foundation and probed 300mm back from the face of the foundation.



TP/BH2 Foundation Detail and Borehole Log

Foundation Detail

Extension foundation comprised of brick wall to 1280mm bgl, bearing on concrete to 1410mm bgl, with a total projection of 490mm from the elevation. Underside of foundation (USF) was exposed to 200mm back from the face of the foundation and probed 300mm back from the face of the foundation.



Site Observations

GENERAL:

Site Investigation works (TP/BH 1)(TP/BH2) undertaken on 22 July 2022 during heavy rain.

HEALTH AND SAFETY:

Negative signal obtained in Power, Radio and Genny mode on the Cable Avoidance Tool (CAT) (TP/BH1)(CAT) (TP/BH2).

FOUNDATIONS:

At 0.71m bgl UNDERSIDE OF HOUSE FOUNDATION in TP/BH1.

At 1.41m bgl UNDERSIDE OF EXTENSION FOUNDATION in TP/BH2.

BOREHOLE:

Hand Held Percussive Window Sampler and Mackintosh Probe refusal at 1.90m bgl due to stiffness within the clay (TP/BH 1). Borehole terminated. No further works undertaken.

Held Percussive Window Sampler and Mackintosh Probe refusal at 2.30m bgl due to cobbles within the clay (TP/BH 2). Borehole terminated. No further works undertaken.

ROOTS:

At 0.00m to 0.71m bgl numerous roots of live appearance encountered in TP/BH1.

At 0.71m to 1.90m bgl numerous roots of live appearance encountered and sampled in TP/BH1.

At 0.00m to 2.30m bgl no roots encountered. Extensive inspection of soil samples encountered no roots in TP/BH2.

INSITU TESTING:

Hand Penetrometer (PEN) undertaken at 0.71m bgl (TP/BH 1) within the hand excavated trial pit and thereafter in the window sampler at maximum 0.5m intervals. Mackintosh Probe (MP) test undertaken at 1.90m bgl (TP/BH 1) within the window sample borehole only with no further Mackintosh Probe (MP) testing undertaken.

Hand Penetrometer (PEN) undertaken at 1.41m bgl (TP/BH 2) within the window sampler and thereafter in the window sampler at maximum 0.5m intervals. Mackintosh Probe (MP) test undertaken at 2.30m bgl (TP/BH 2) within the window sample borehole only with no further Mackintosh Probe (MP) testing undertaken.

WATER STRIKES:

No water strike/s (NWS) encountered (TP/BH 1)(TP/BH2).

The groundwater observations do not necessarily indicate equilibrium conditions. It should be appreciated that groundwater levels are subject to both seasonal and weather induced variations. Other effects such as construction activities may also change groundwater levels.

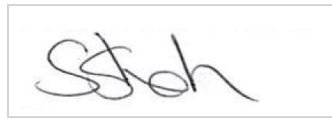
SOIL ANALYSIS

for Subsidence Management Services


51 Lund Avenue, Barnsley, S71 5NW

Client: Subsidence Management Services
Claim Number: 102107974
Policy Holder: Mr and Mrs Brian and Janet Ivermee
Report Date: 02/08/2022
Our Ref: L23063

Compiled By:

Name	Position	Signature
Saira Dougan	Laboratory Technician	

Checked By:

Name	Position	Signature
Bob Walker	Laboratory Manager	

Date samples received: 28-Jul-22
Water Content Test Date: 28-Jul-22
Atterberg Limits Test Date: 01-Aug-22

Oedometer Test Date: 01-Aug-22



9265

Notes relating to soils testing

Unless otherwise stated, all soil testing was undertaken by Environmental Services at unit 10H Maybrook Business Park, B76 1AL for SubsNetUK of Unit 4 Linnet Court, Cawledge Business Park, Alnwick, NE66 2GD

Soil samples have been prepared in accordance with BS1377:Part 1: 2016 Section 7

Descriptions of soil samples within the laboratory have been undertaken generally in accordance with BS5930:2015. Descriptions of soil samples fall outside of the scope of UKAS accreditation and may have been shortened to remove tertiary components for ease of reference.

The graphical representation of 40% of the LL and the numerical representation of the modified plasticity index (mod. PI) fall outside of the scope of UKAS accreditation.

Following the issue of this soil analysis report, samples will be retained for at least 28 days should additional testing, or referencing, be required. It should be noted that any tests undertaken on soils retained subsequent to the issue of this report may not give an accurate indication of the in-situ conditions of the sample.

This Soil Analysis Report may not be reproduced, in part or in full, without written approval of the laboratory.

The results contained herein relate only to items tested and no others. Additionally as the laboratory is not responsible for the sampling process it takes no responsibility for the condition of the samples and all samples are tested "as received".

Where samples of the same test type are not tested on the same day, or the testing spans multiple days, the test date states the day of the final test or the test date of the final sample.

All information above the laboratory reference on the cover page of this report are as provided by the customer and the laboratory is not responsible for any errors or omissions therein.

Water Content Tests are undertaken in accordance with ISO 17892:Part 1:2014

The Liquid Limit test is undertaken in accordance with BS1377:Part 2:1990 Section 4.4 using an 80g cone with a 30° tip. Sieve percentages reported in blue denote that the sample has been sieved otherwise it has been prepared from its natural state. Sieve percentage reported in BOLD denote that the sample has been oven-dried prior to testing.

Unless otherwise specified herein, the one-point cone penetrometer method has been used with increasing water content. Atterberg results depicted in green have not been tested and are duplicates of the preceding sample, included for reference only.

The Plastic Limit test and the determination of the Plasticity Index is undertaken in accordance with BS1377:Part 2:1990. Where a plastic limit has been denoted with an asterisk (*) then it has been derived from the liquid limit and has not been tested.

The Oedometer swell/strain test method is based upon BS1377:Part 5:1990 Section 4.4 'Determination of swelling and collapse characteristics' and unless otherwise stated is undertaken on a remoulded, disturbed, sample.

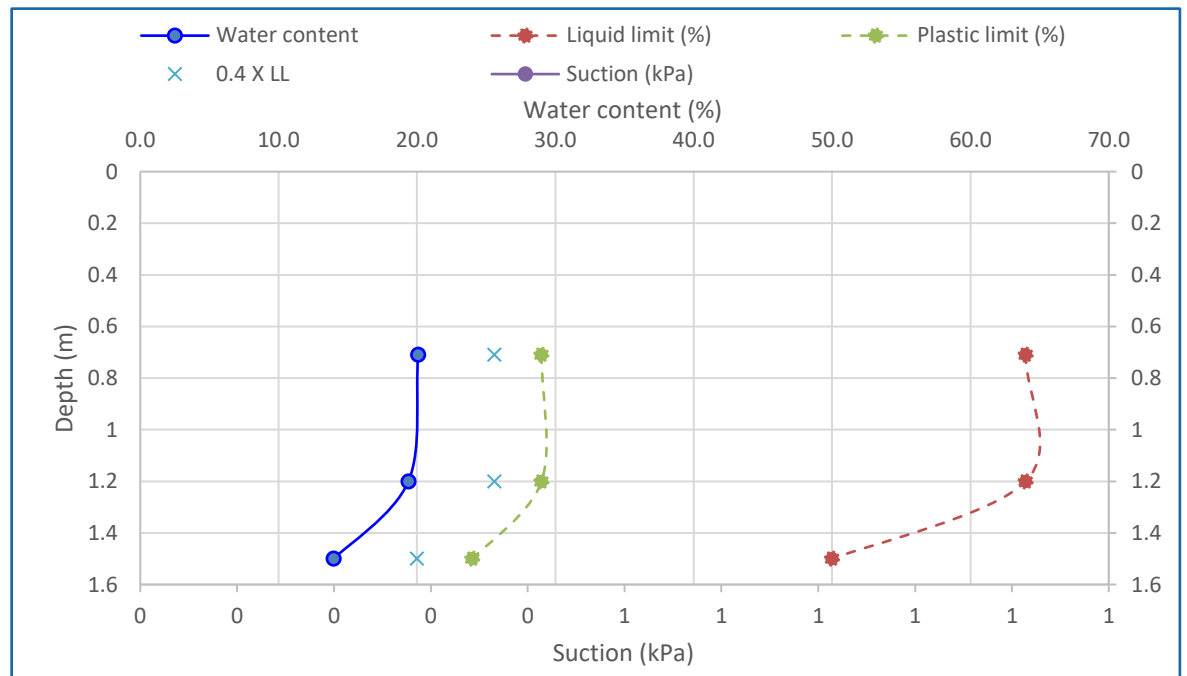
The Oedometer Swell/Strain Test is undertaken in a controlled environment within a temperature range of 16°C and 24°C

If you would like to provide feedback on this report or any laboratory services or performance, please complete the form below. All appropriate feedback will be used in the continual improvement of laboratory services.

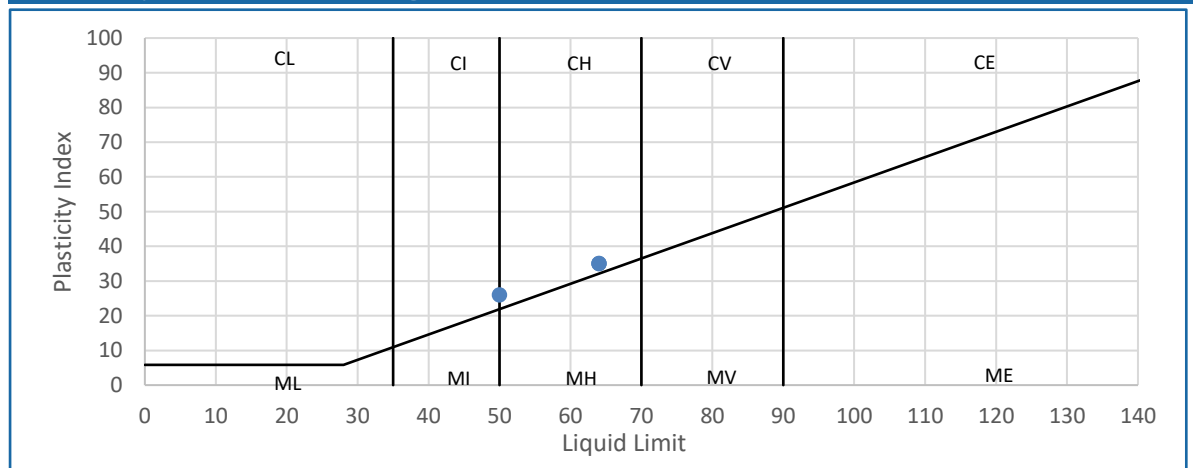
[Laboratory feedback form](#)

Samples from BH1

Lab Ref	Depth (m)	WC (%)	LL (%)	PL (%)	PI (%)	.425 mm(%)	mod. PI (%)	Av. Suc. (kPa)	Description
1	0.71	20.1	64	29	35	95	33		Very stiff brown/orange-brown/grey mottled silty CLAY
2	1.2	19.4	64	29	35	95	33		Very stiff brown/orange-brown/grey mottled silty CLAY
3	1.5	14.0	50	24	26	74	19		Very stiff brown/orange-brown/grey mottled gravelly CLAY/SILT . Gravel is fine, medium and coarse.

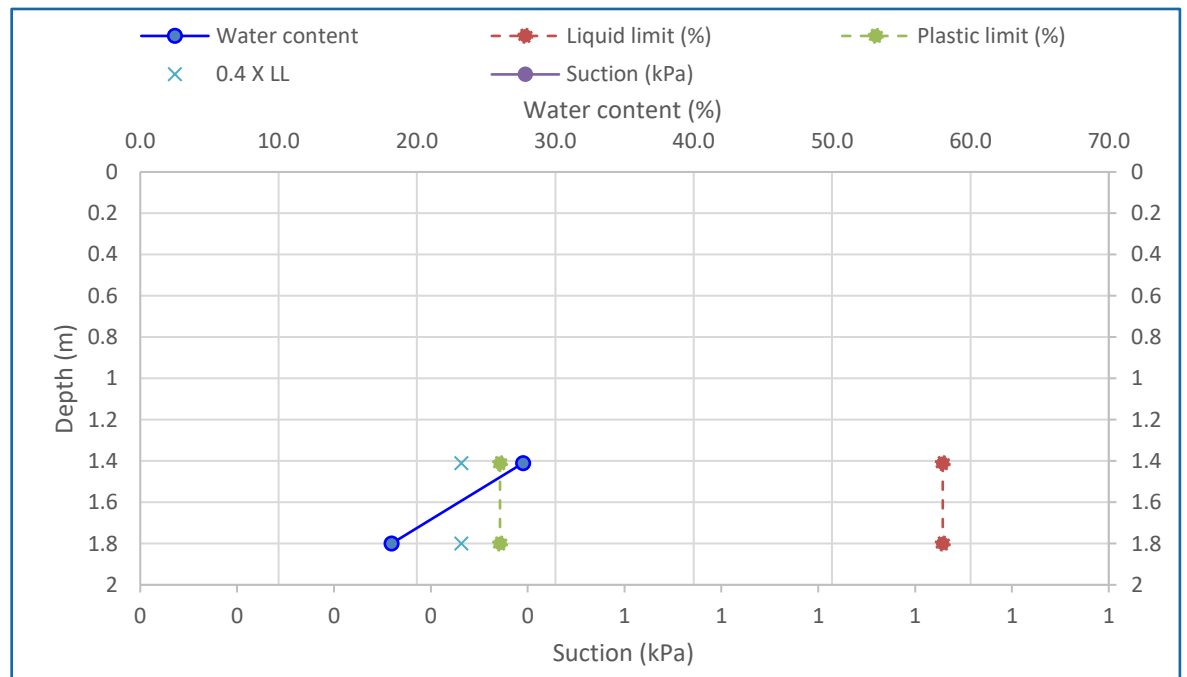


Plasticity Chart for Casagrande Classification

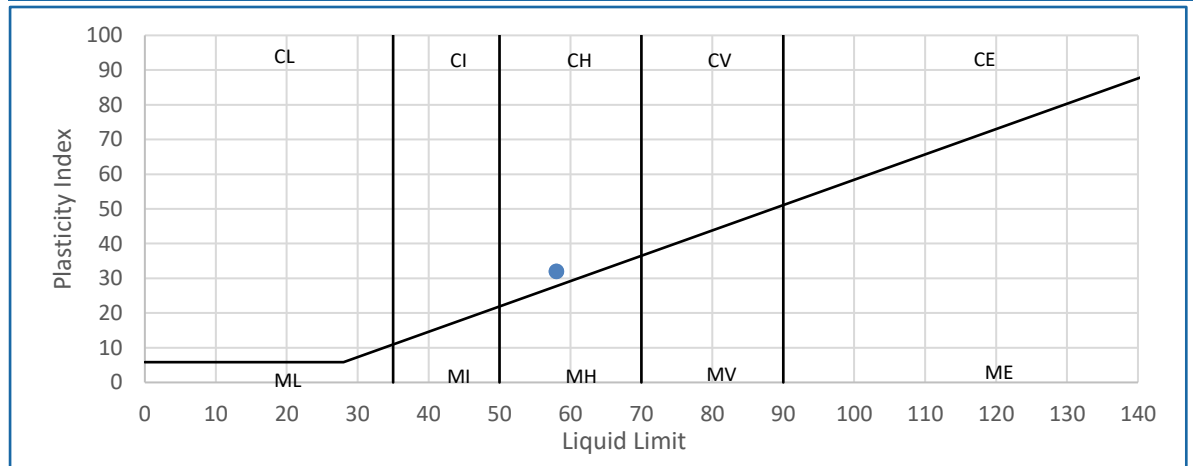


Samples from BH2

Lab Ref	Depth (m)	WC (%)	LL (%)	PL (%)	PI (%)	.425 mm(%)	mod. PI (%)	Av. Suc. (kPa)	Description
4	1.41	27.7	58	26	32	100	32		Firm brown/orange-brown/grey mottled silty CLAY
5	1.8	18.2	58	26	32	100	32		Firm brown/orange-brown/grey mottled silty CLAY



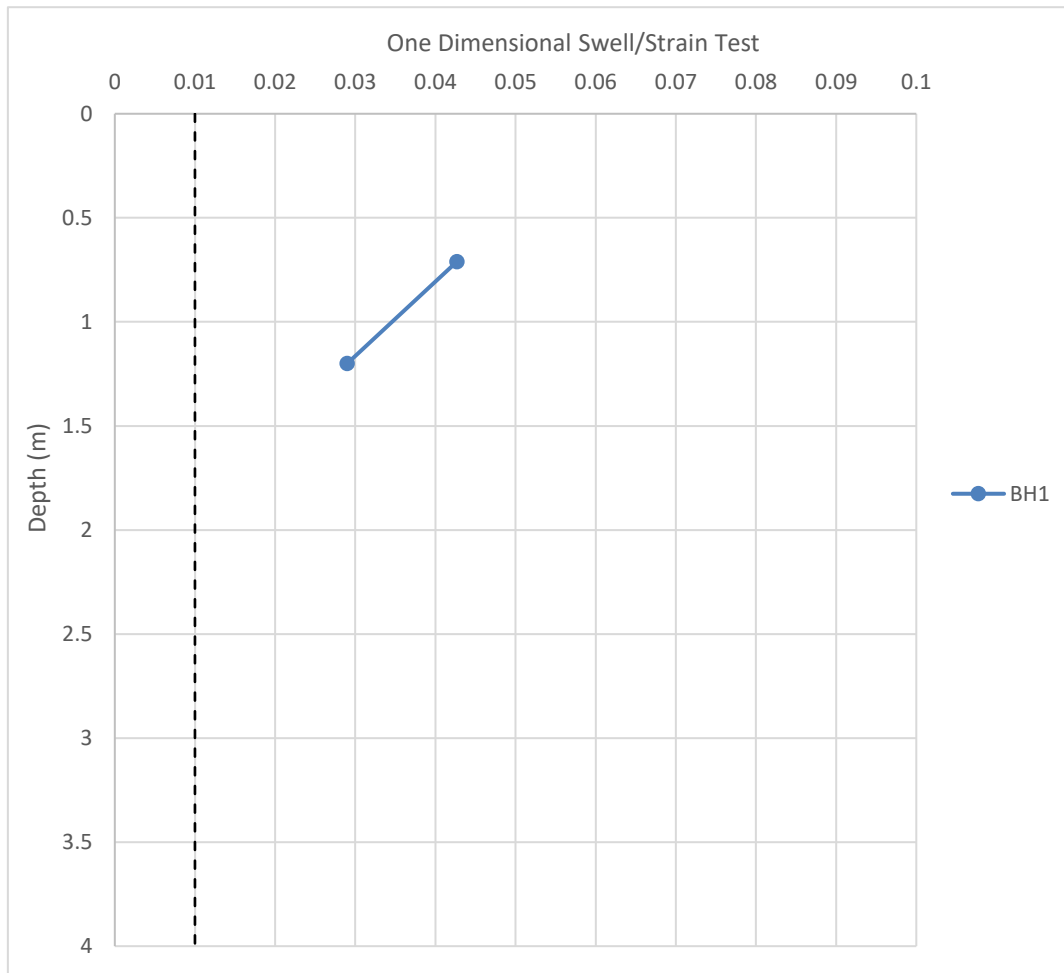
Plasticity Chart for Casagrande Classification



Summary of Oedometer Testing for BH1

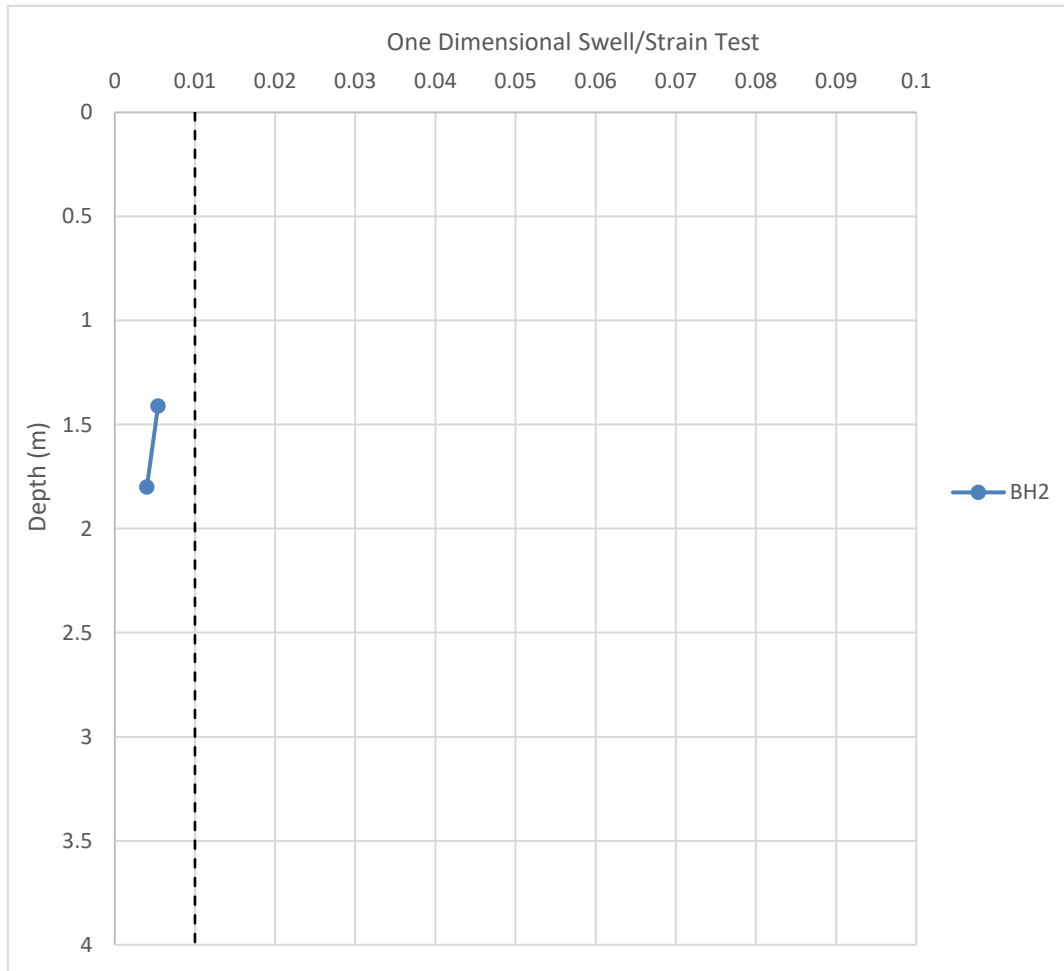
Lab Ref	Depth (m)	Strain	Heave (mm)	Remarks
1	0.71	0.0427	15.2	
2	1.2	0.029	7.1	
3	1.5			

BH 1 estimate of heave	22mm
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Lab Ref	Depth (m)	Strain	Heave (mm)	Remarks
4	1.41	0.0054	0	
5	1.8	0.004	0	

BH 2 estimate of heave	0mm
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Deviating Samples

The table below details any samples deviating from laboratory procedure or deviating in condition to an extent whereby the validity of results may be affected. A test denoted "I" is likely to have had testing abandoned but where a test result has been provided a non-standard procedure may have been used, details of which will be provided upon request.

LAB REF	CONDITION	WC	ATT	SUC	OED
1					
2					
3					
4					
5					

Key

D	Delay in sample receipt
C	Contaminated sample
B	Sample not bagged correctly
S	Sample too sandy (unsuitable for testing)
G	Sample too gravelly (unsuitable for testing)
V	Sample too soft (unsuitable for preparation)
L	Sample too silty
I	Insufficient sample
O	Too much organic content (unsuitable for testing)
N	Non-standard procedure used
H	Sample depth too shallow
X	Testing result too similar to above sample

References

The following provides a brief interpretation of the test results by comparison of the results to published classifications. The Atterberg Limit test may be used to classify the plasticity of soils; the plasticity classes defined in BS5930:2015 "Code of Practice for Site Investigations" are as follows.

CL (ML)	CLAY and CLAY/SILT of Low plasticity
CI (MI)	CLAY and CLAY/SILT of Intermediate plasticity
CH (MH)	CLAY and CLAY/SILT of High plasticity
CV (MV)	CLAY and CLAY/SILT of Very High plasticity
CE (ME)	CLAY and CLAY/SILT of Extremely High plasticity
O	The letter O is added to prefixes to symbolise a significant proportion of organic matter.
NP	Non-plastic

The Plasticity Index (PI) Result obtained from the Atterberg Limit tests may also be used to classify the potential for volume change of fine soils, in accordance with the National House Building Council's standards - Chapter 4.2 (2003) "Building Near Trees", as summarised below.

Modified PI < 10	Non Classified.
Modified PI = 10 to <20	Low volume change potential.
Modified PI = 20 to <40	Medium volume change potential.
Modified PI = 40 or greater	High volume change potential.

The 2003 edition of Chapter 4.2 also permits use of the Plasticity Index without modification. The classifications for this are grouped by soil type (soils with similar visual soils description and using unmodified Plasticity Indices).

Drainage Investigation Report

For Subsidence Management Services

Client Mr & Mrs Ivermee

Risk Address: 51 Lund Avenue, Barnsley, S71 5NW

Visit Date: 18th July 2022

Client Reference: IFS-LBG-SUB-22-0100956

Our Reference: C64950 D22704

Report Date: 19th July 2022

Report Content: Front Page
Drain Overview
Photographs
Quote
Site Plan
CCTV Coding
Drain Overview
Photographs
Quote

Following the receipt of your instruction, we attended site to carry out a CCTV survey of the drains within the area of concern.

We have carried out investigations and noted there are several rain water gullies in the area of concern.

We advised the policyholder we would need to excavate to access these but the policyholder is reluctant to have excavations done at this stage and has required we attempt to survey the gullies with a specialist gully camera first.

We have also found there is a WC which connects onto the pipework serving a rain water gully via a blind junction. We will need enabling contractors to remove the WC to allow a survey to be carried out. See Photos.

We will re-attend to complete our investigations and update the report with the full findings.

Water Main Test	Result	Acoustic Test
	PASS	No noise could be heard which indicates that there is no leak

Address:

51 Lund Avenue, Barnsley, S71 5NW



Address:

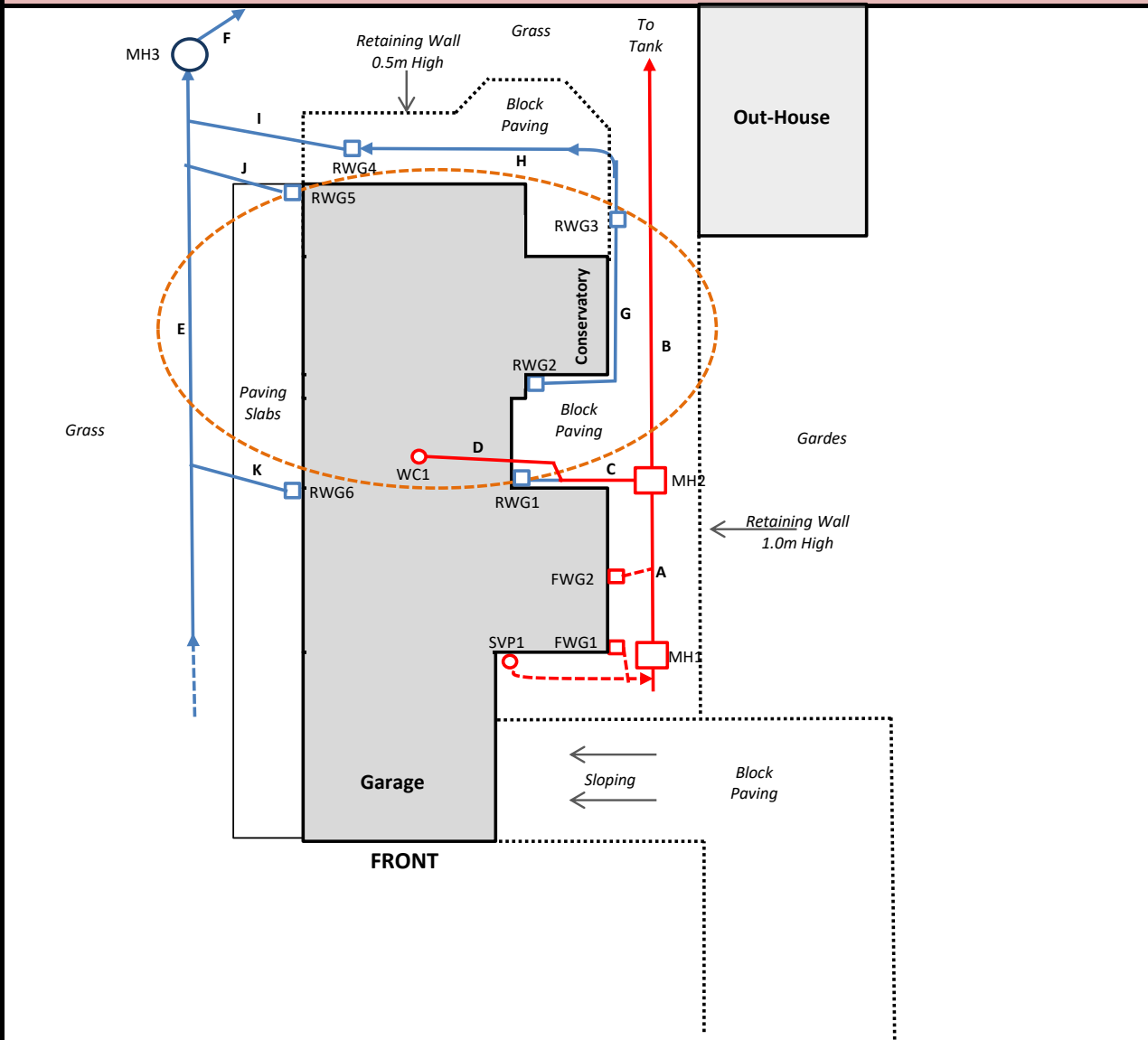
51 Lund Avenue, Barnsley, S71 5NW

RUN / LOCATION: Further Surveys

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
	CCTV survey of underground drainage & report <small>(where undertaken as part of other drainage works)</small>	nr	£165.00	1.00	£165.00
				Total (Excl VAT)	£165.00

Address:

51 Lund Avenue, Barnsley, S71 5NW



Key

	Tree		Building		Combined Drains		Unsurveyed Drains
	Shrubs		Water Supply		Foul Drains		Excavation
	Bushes		Launch Pit		Storm Drains		Area of Concern
	Boundary		Stop Valve		WC		
			Soak-Away		Exploratory Hole		
					Bore Hole		

Notes:

Address: 51 Lund Avenue, Barnsley, S71 5NW

The CCTV survey was undertaken in general accordance with the Manual of Sewer Classification and the WRc Drain Repair Book.

The following presents a summary of the findings with recommendations to repair and/ or return the drains to a serviceable state, where necessary.

Drain Run A: MH2 Upstream to MH1

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Pass

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects.

Drain Run B: MH2 Downstream to Tank - Out of area of concern

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not Tested

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects.

Drain Run C: MH2 Upstream to RWG1

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Pass

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects.

Drain Run D: WC Downtream to Run C

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not tested

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects.

Drain Run E: MH3 to Upstream Node Point

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Pass

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects.

Drain Run F: MH3 to Downstream Node Point

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not tested

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects within the area of concern.

Drain Run G: RWG3 Upstream to RWG2

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not tested

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects

Drain Run H: RWG3 Downstream to RWG4

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not tested

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects

Drain Run I: RWG4 Downstream to Run E

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not tested

CCTV Survey Result: No structural damage

Recommended Repair:

No repairs have been recommended as the drain line was found to be free from defects

Drain Run J: RWG5 to Downstream Node Point

Pipe Diameter: 100mm

Responsibility: Home Owner

Hydraulic Pressure Test: Not tested

CCTV Survey Result: Structural damage

Recommended Repair:

Excavate and replace RWG5 together with pipework down to Run E, approx 1m

Drain Run K: RWG6 Downstream to Run E**Pipe Diameter:** 100mm**Responsibility:** Home Owner**Hydraulic Pressure Test:** Not tested**CCTV Survey Result:** No structural damage**Recommended Repair:**

No repairs have been recommended as the drain line was found to be free from defects

NOTE: The re-instatement will be carried out on a like-for-like basis but where concrete or tarmac has been re-instated these surfaces will not match to the existing surface and will be seen as its new material.

Water Main Test		Result	Notes
		PASS	

NOTES

We noted the flag stones adjacent to RWG5 (Run J) have dropped by approx 6" - see photos



Address:

51 Lund Avenue, Barnsley, S71 5NW



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RUN / LOCATION: Run J

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK0010	Remove existing UPVC pipework in isolated lengths, refix with new 60mm UPVC (sloped / seal / bedcrete)	nr	£14.25	1.00	£14.25
UK0015	Extra over for bends.	nr	£8.31	1.00	£8.31
UK0595	Gully, 225mm x 225mm. Remove existing and replace with new PVC item. Bed, surround and backfill.	nr	£146.43	1.00	£146.43
UK0605	Excavate & remove isolated length. Replace in new 110mm PVC. Bed, surround & backfill to a 1000mm	nr	£131.47	1.00	£131.47
UK0880	Short Radius Bend. Remove existing item and replace with new 110mm PVC.	nr	£14.89	2.00	£29.78
UK1060	Extra over pipework for surrounding drain run in 100mm thick concrete.	m	£14.40	1.00	£14.40
UK0025	Protection Temporary works to floors, 1000 gauge polythene	m2	£1.79	2.00	£3.59
UK8120300	Hardcore Filling to excavations over 250 mm average thick	m	£35.35	1.00	£35.35
UK2050005	Disposal by hand excavated contaminated/saturated material off-site.	m3	£45.30	1.00	£45.30
UK1045	Removal, set aside and reinstatement of concrete slab having a 100mm thick	m2	£24.61	1.00	£24.61
				Total (Excl VAT)	£453.49

Address:

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