

Engineers Report

Risk Address 54 Vicars Hill London SE13 7JL

360 Reference DLG-SN-22-004841 Claim Refence 084305994 Policy Holder Ms Quartano & Mr Bailey

Date Notified 17.08.2022 Date Instructed 18.08.2022 Report Date 01.09.2022





Description of premises

The insured's property is a 3 storey, semi detached, 5 bedroom house, constructed in 1906 from brick walls and part rendered under a pitched tiled roof and purchased by the policyholder over 25 years ago.

The property is situated on a gentle sloped site with no unusual features.

Discovery of Damage

Damage was first noticed by the policyholder recently, the neighbouring property has also registered a claim and the adjuster noticed the damage to the property and therefore a claim was then registered with insurers.

Focus of Damage and Report

This document addresses damage notified to insurers in relation to cracking focused and localised to the internally within the property, mainly towards the front half In hall, on staircase, in dining room and kitchen. The descriptions below relate to the damage observed and considered to be the result of the subsidence movement.



Internal Damage

Hall/Stairs and First Floor landing.

- Crack above the entrance door to the lounge 2- 3mm wide, moving towards the front of the property.
- Vertical tapering crack to the wall of the stairs moving up towards the ceiling 2- 3mm wide.
- Tapering crack on the first floor landing from the small window 2- 4mm wide.

Lounge

• Mirrored crack above the door from the hallway towards the front of the property 2-3mm wide.



Further cracking has been noted to the rear of the building since the claim was logged.

External damage

There is some minor cracking to the rear brickwork.

Non-Subsidence Related Damage

There was no other damage observed at the time of the inspection.

Classification of Damage

It is common practice to categorise the damage in accordance with B.R.E. Digest 251 "Assessment of Damage in Low-Rise Buildings". In this case, the localised damage to the rear projection falls into Category 2 "Slight".

Category	Crack Width	Degree of Damage
0	Hairline cracks of less than 0.1 mm	Negligible
1	Typical crack widths are 0.1 to 1mm.	Very slight
2	Typical crack widths are 1 to 5mm.	Slight
3	Typical crack widths are 5 to 15mm, or several of, say, 3 mm.	Moderate
4	Typical crack widths are 15 to 25mm, but also depends on number of cracks.	Severe
5	Typical crack widths are greater than 25mm but depends on number of cracks.	Very Severe



Indicative Site Geology and Soils Data for:

54 Vicars Hill, London, SE13 7JL Ref: 084305994											
No of SI's within 0.62km from address on identical lithology. (See comments)								7			
Closest - Furthest distance of a site investigation from the address (km).							0.19 - 0.62				
Total number of boreholes.							8				
Percentage of site investigations where root samples where taken.							71%				
Percentage of site investigations where drainage was recorded.							14%				
Number of samples tested at greater than 0.5m depth.							37				
BRE Digest 240. "Volume cha	nge potential" from Av. Modified Plasticity Index (I'p) of 37%.					Medium					
Previous Soils Data nr	Depth	M.C.	L.L.	P.I.	<i>P.L.</i>	425um	Suction	Oed			
= Non recorded	m.	(%)	(%)	(%)	(%)	(%)	kPa	Strain			
Sample population	37	37	12	12	12	12	21	7			
~ Minimum (Av - 1 StdDiv)	0.8	20	43	28	15	98	25	0.0113			
~ Maximum (Av + 1 StdDiv)	4.0	33	67	44	23	100	621	0.0230			
Average	2.2	27	55	36	19	99	314	0.0113			
General soils description	Firm brown/grey CLAY with some sand / fine-medium gravel / silt										
BGS 1:50 000 maps as a:	1:50 000 scale bedrock geology description:										
Bedrock Geology	London Clay Formation - Clay And Silt. Sedimentary Bedrock formed in the Palaeogene										
	period. Local environment previously dominated by deep seas.										
	Setting: Deep seas. These sedimentary rocks are marine in origin. They are detrita						trital and				
	deep-sea environment, forming distinctively graded beds.										
BGS 1km Hexagonal Superficial	1:50 000 scale superficial geology description: None										
Deposit Depth Data	recorded.										
Mean Depth = 2m											
Max Depth = 6m											
Coverage = 20%											
Note: The BGS only record superficial											
deposits greater than 1m in depth											
BGS 1:50,000 Artificial Ground											
	BGS "Ge	oSure" 5k	m Hexago	nal Hazar	d Ratings						
Shrink/Swell	Significant with areas of localised significant rating.										
Collapsible Deposits	LOW										
Compressible Ground	Low with areas of localised significant rating.										
Landslides	Moderate with areas of localised significant rating.										
Running Sand	Low										
Soluble Rocks	Low										
Mining (not coal) 1km hx grid	Localised small scale mining may have occurred in the area.										
Government Coal Authority	No data recorded for this location.										
Data (<25m = found within 25m)					<u> </u>						
Geology with no overlying Superficial deposits.											
Contai	Contains British Geological Survey materials © NERC [2022] 18-08-2										

18-08-22



Evidence of external influences

<u>Trees</u>

There are a number of nearby trees and other vegetation at the property that could be considered an influence in the damage at the property.

<u>Drains</u>

There is no drainage to the front of the property. There is drainage along the left hand side of the building. We will arrange a CCTV survey of the drainage identified will be undertaken as a separate instruction to confirm if any defects exist.

Summary and Conclusions

All the indications from the evidence obtained suggest that the damage results from subsidence of the site upon which the property stands. A valid subsidence claim can be confirmed, and this will be subject to the policy excess of £1000.

The optimum solution in this instance would be to remove the cause of the problem, whilst we are not sure the cause of the movement at present, we will arrange for site investigations to be completed and then provide a further report which advises on the cause of the damage and what mitigation is needed to be completed in order to stablise the property

Following successful mitigation, a schedule of works will be compiled for the above ground repairs necessary, a copy of which you will receive.

Next Steps

- Contact policyholder and arrange for site investigations to be undertaken at a suitable date, which will include 2 trail pits and a CCTV survey of the nearby drainage.
- Instruct an arborist to visit to assess the nearby vegetation.
- Update all parties on a regular basis.
- Provide a schedule of work for repairs to be considered.
- Provide further updates when outcome of tree removal application is received.

Scott Broker ACABE Cert CII 360 Globalnet