Innovation Group

En	gineers Addendum Re	eport					
This report sets out in concise terms the natur	e of the evidence collected and the	consultant's con	clusions and recommendations				
Policy Holder:		Date:	28/01/2020				
Property Address:	9 Regent 's Park Terrace, London, NW1 7EE	Our Ref:					
Description Of Property:	The risk address is a 5 storey mid terrace house with a full basement. It has been extended with a two storey extension to the rear. The property occupies a site which steps down at the rear with no adverse topographical features.						
Location Of Damage:	Damage relates to the rear extension where cracking indicates downward movement.						
Date Of Relevant Construction:	The main house was built in Circa 1846.						
Nature Of The Damage:	Diagonal and vertical crack damage.						
Indicated Mechanism Of Movement:	Rearwards and downwards rotation of the foundations to the rear extension/projection. The monitoring also shows slight foundation movement at the front of the property.						
Category Of Damage:	Crack damage falls into Category 3 (Moderate).						
Date Of Discovery:	30 October 2017						
Occupiers' Observations:	In approximately summer 2017 the policyholder noticed appearance of cracking at the junction to the main house and extension, being concerned that the damage may be due to subsidence, he sorted advice from a Structural Engineer (Ellis & Moore) and following their recommendations in May 2018, a claim was submitted to insurers.						
Previous Relevant Movement:	We understand that the property, mainly the two storey rear extension, was previously affected by subsidence in approximately 1993. The policyholder advised that only standard superstructure repairs were undertaken at the time.						
Comments:	Based on the results of ongoing level monitoring, the diagonal aspect of the cracks, together with the fact that they increase in width with height is indicative of subsidence as a result of shrinkage of the clay subsoil due to the moisture extracting influence of nearby vegetation.						

Investigation Evidence:		
Examination By Building Professional:	Yes M	lartel Hawkins BSc Hon MCIOB MFPWS
Trial Hole/ Bore Hole Excavations:	Yes	Report dates and references: 9 April 2019 / C44800G20947 (TP/BH1) Addition foundation comprised of brick wall to 450mm bgl, bearing on stepped brick to 600mm bgl with a total projection of 120mm from the elevation. In turn, bearing on brick/concrete to 900mm bgl with a total projection of 200mm from the elevation.
CCTV Drainage Survey:	Yes	The CCTV survey was undertaken which revealed structural damage to some of the drains (runs B, C, D & E) to the rear. The defects found to the drains were consistent with accidental damage to underground services. The damage drains are underneath the section of the property affected by subsidence suggesting the defects may have been caused by the downwards foundation movement. The policyholder was advised to register a separate claim for drains so the relevant repairs could be implemented. Importantly, leakage from drains are not the material cause of the movement to the property. Furthermore, the Atterberg tests demonstrate that the load bearing capacity of the soil has not

Innovation Group

		been compromised by excessive water content due to leaking drains and is therefore capable of bearing the imposed load.		
		Shrinkable soils reports.		
		Dates and References:	,3	
Soil Laboratory Testing:	Yes	28 May 2019 / C15243S44800		
		Ye	20	
Root Analysis	Yes	12 April 2019 / R26786 – TP/BH1 - Platanus spp. between 0.9n		
Troot 7 maryono	1.00	1.6m bgl. Starch present.		
		g.,		
Arboriculture Assessment:	Yes	Report dated 26/03/2019 / Ref: SA242982.		
		Recommendations: Removal of the London Plane trees (T1 &		
		and treatment of the recently removed / reduced Wisteria (C1)	
		stump.		
Heave Risk After Tree Removal:	No	31/07/2019 – total predicted Free surface heave was 45mm. adverse heave anticipated.	No	
Building Monitoring:	Yes	Crack width: No Level / distortion: Yes – latest repo	ort 6	
Building Monitoring.	103	January 2020 / Report Ref: M1275		
Monitoring To Date Confirms:	The in	offluence of vegetation as we see clear seasonal fluctuations vegetation		
,		wards movement in summer (when the clay shrinks) and upwa		
	moven	ment in winter (when the clay swells).		
Comments:	No oth	ner causes produces similar pattern of movement.		
Repair Scope And Value				
If Prompt Vegetation Removal:		structure repairs		
If No Vegetation Is Removed:		lation stabilisation –		
		Possible traditional		
0	underp	pinning		
Comments:				
CONCLUSIONS AND RECOMMENDAT	IONS			
		e geotechnical, arboriculture investigation reports and accurate lever the movement to this property is directly related to the seasonal		
		or the movement to this property is directly related to the seasonal γ shrinkage subsidence to the rear. The removal of this tree will of		
		n likely to restore longterm stability to the property.	161	
and most solidin and remails / aboriculture	501411011			
Report prepared by:	Martel	Martel Hawkins Bsc (Hon) MCIOB MFPWS		