

LMB Geosolutions Ltd



*Ground Investigation
Land Contamination
Hydrogeology
Engineering Geology*

October 23, 2020

Mr Minh Quach

RE: Amendment to proposed development at land to rear of 75-76 Oakley Square, Lidlinton Place, London NW1

Dear Minh:

Further to our recent correspondence and discussions I can confirm that we have produced the following technical reports and document in relation to the proposed development at land to rear of 75-76 Oakley Square, Lidlinton Place, London NW1 1NH on behalf of Mr Minh Quach (the Client):

- LMB Geosolutions Ltd (ref. LMB.20.06.04_REPPIL_GI_BIA_Lidlinton_v4.0_ALL, dated 1st July 2020). Ground Investigation & Basement Impact Assessment Report.

Amendments to Proposed Development

The following documents have been referenced to understand and evaluate the proposed amendments to the development:

- Build Design (Dated 13th October 2020). Lidlinton Place Camden London. Additional floor – Revised Planning statement and associated structural calculations.
- Statement from Minh Quach to London Borough of Camden planning providing confirmation of new development proposal (ref 2020/3875/P).

Based on review of the above information and drawings, the proposed amendments can be summarised as follows:

- It is proposed to add an additional floor to the proposed development (i.e. 1st floor); and
- The Structural Engineers for the project have confirmed that there will be no alterations to the reinforcement within the basement slab and retaining walls and that there will be no changes to the basement construction method statement.

Appraisal of Amendments

Foundations

The formation level for the basement will remain c. 4.350m below ground level (bgl) and will be founded on the competent firm to stiff London Clay. As such the amendments should be of no consequence in terms of the allow bearing pressure and/or founding strata.

Ground Movements

A Ground Movement Assessment (GMA) was completed as part of the Basement Impact Assessment (BIA) for the original design. The GMA was completed in accordance with CIRIA C760 'Guidance on embedded retaining wall design' with the

Oasys XDisp software used to inform the assessment. CIRIA C760 provides curves estimating horizontal and vertical ground surface movements due to piled wall installation and to excavation in front of wall.

The GMA completed in this way assumed installation of a planar diaphragm wall and not underpins i.e. it was conservative as the movements resulting from excavation in front of the underpins incorporate the movements resulting from their installation.

The depth of the basement excavation was assumed to be 4.35m and it is understood that the proposed amendments to the development will not alter the basement excavation and formation level.

Conclusions

Based on the information presented above, the existing GMA is considered to remain relevant when considering current proposed development as the basement excavation and formation level will remain the same. As such it is concluded that the predicted ground movement presented within the existing GMA will not be exceeded and the amended development should not result in additional ground movement induced impacts.

I trust the above and appended information is of use. However, if you require any further information then please feel free to contact me at your convenience.

Sincerely,



Philip Lewis BSc (Hons), MSc, CGeol, FGS
Director
LMB Geosolutions Ltd

T: 020 3198 6481 | M: +44 (0) 7739735097 | E: philip@lmbgeosolutions.com