NOTE:

1. The noise assessment undertaken as part of the North East Link EES considered a range of noise impacts on sensitive and non-sensitive buildings within a defined study area (refer EES Technical report C – Surface Noise and vibration). Building data used within the study was adopted from a 2009 data set, as this was the available data set at the time of assessment.

2. Additional investigations have been undertaken to determine buildings not captured within the 2009 data set, and to determine if the EES assessment outcomes are still relevant when supplementary building data is included.

REQUEST:

3. N/A

RESPONSE:

Background

1. Building data used within the noise assessment undertaken as part of the North East Link EES was supplied from a 2009 LiDAR data set.

2. Subsequent to this, an assessment of buildings not captured in the 2009 data set has been undertaken to capture development which has occurred or will occur between 2009 and the date of exhibition of the EES (as required under the recommended environmental performance requirement (EPR) NV1).

3. Accordingly, SLR has completed a review of potential buildings and development sites not included in the EES building data set (2009 data) by reviewing:
   - SLR’s internal building database (current to August 2018)
   - Nearmap aerial imagery (accessed in August 2018)

Methodology

4. The methodology to identify buildings not captured in the EES building data set was as follows:
   - Using GIS, identify all buildings in the SLR database that didn’t overlap any EES building.
   - Results were filtered to exclude any building smaller than 150 square metre area (to exclude sheds and small shapes which most likely will be part of a parcel and now a dwelling in itself).
   - Visual inspection of the GIS results, Nearmap aerial imagery to identify subdivisions, or new developments
and using cadastre lot boundaries to confirm.
- Append addresses to each record as identified above.
- Select all points enclosed in the >=60dB polygon boundary (with an edge buffer of 20m out of the polygon shape). This filter allowed for buildings to be identified close to the noise criterion.

Results

5. The results of the assessment and the identified buildings are attached as a set of GIS maps with building locations identified (Attachment A).

6. The assessment has identified a total of 17 new buildings within the project area which have not been assessed in the EES. The identified buildings are located across the project area, with 13 of these located near the Eastern Freeway, one near the M80 Ring Road, two near Greensborough Bypass and one near Manningham Road.

7. 11 of the 17 new buildings are located within areas that contain existing buildings which have been classified ‘non-assessable’ in Appendix B of the EES Technical Report C - Surface Noise and Vibration. These 11 new buildings are assumed to also be non-assessable (for example commercial buildings) in accordance with the VicRoads assessment guidelines.

8. The remaining six new buildings are located within areas containing ‘assessable buildings’ (i.e. category A or B buildings as defined by the VicRoads assessment guidelines) as shown in Appendix B of the EES Technical Report C - Surface Noise and Vibration. The new buildings within these areas are assumed to also be ‘assessable’ in accordance with the VicRoads assessment guidelines.

9. One of these new assessable buildings is located at a primary school and is likely a temporary/portable building associated with outdoor sporting areas.

10. The location of the remaining five assessable buildings are within established residential areas, meaning that they are typically exposed to equivalent noise emissions as the noise sensitive buildings located in the surrounding area. For example, an identified building may be located adjacent to a residential property considered in the EES noise study and would be exposed to equivalent noise levels.

11. As the identified buildings are typically exposed to equivalent noise levels as surrounding noise sensitive buildings, the findings of the EES noise study (noise barrier solutions, and the identified at-property treatment extents) the findings of the EES noise study will remain unchanged.

12. The successful contractor would be required to demonstrate compliance with the relevant noise EPRs (EPR NV1) at all assessable locations for buildings that are either existing or known to have planning approval prior to exhibition of the North East Link EES.

CORRESPONDENCE: N/A

ATTACHMENTS: Attachment A - GIS Building Identification Maps