

Appendix K Acoustic statement

Prepared by Acoustic Logic

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20151339.1/2101A/R0/JL

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**WESTMEAD HOSPITAL CAR PARK - RESPONSE TO EPA AMENDMENT
REQUIREMENTS LETTER**

This letter addresses queries raised in the EPA Amendment Requirements letter (re: EF15/9530, DOC15/508402-01) in relation to the noise impact assessment prepared by this office for the multi-storey car park development at Westmead Hospital (re: 20151339.1/1111A/R2/JL, dated 11th November 2015). Our response to the EPA's queries are presented below.

- 2.6.1 Construction Hours (General)
 - (a) Construction noise impacts on the residential development along Mons Road and the Westmead Private Hospital have now been addressed in the noise impact assessment. Findings are as follows:
 - Construction noise impacts on the residents along Mons Road are likely to exceed the "noise affected" criteria of the Interim Construction Noise Guideline, but are predicted to remain compliant with the "highly noise affected" criteria.
 - Construction noise impacts on the internal areas of Westmead Private Hospital will comply with construction noise emission criteria.
 - (b) Recommended construction hours for the development have been presented in section 6.2.1.3 of the report. The recommended construction hours have been based on the standard construction hours outlined in the NSW EPA Interim Construction Noise Guideline (2009).

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- 2.6.2 Construction Hours (Intra-day Respite Periods)
 - A recommendation has been made in section 6.2.1.3 to introduce respite periods for noise intrusive construction activities (e.g. hydraulic hammering, grinding etc.). It has been recommended that these noise intrusive activities be limited to 9am to 12pm Monday to Saturday and 2pm to 5pm Monday to Friday to provide respite to receivers.
- 2.6.3 Reversing and Movement Alarms
 - A recommendation has been made in section 6.2.1.3 for a safety risk assessment of construction activities to be undertaken to determine whether use of less annoying/noise intrusive movement/reversing alarms can be installed on construction vehicles to reduce noise impacts on surrounding receivers.
- 3.1 Noise and Vibration Impacts
 - (a) Noise and vibration impacts from the operation of the proposed car park (including an assessment of sleep disturbance) have been assessed at the residents along Mons Road and at the Westmead Private Hospital. Results of the assessment indicate that noise impacts on the residents and Westmead Hospital (including sleep disturbance) will be fully compliant with noise emission goals.
 - (b) There are no modifying factors from chapter 4 of the Industrial Noise Policy that apply to the operation of the proposed car park. There will be no low frequency, impulsive or intermittent noise factors associated with the operation the car park. Potential tonal noise factors from car tyres squealing on the floor surface will be mitigated provided that the floor surface has a broom finish as recommended in section 6.1.4.
 - (c) As discussed in section 6.1.3 of the report, noise impacts from the operation of the car park on all nearby receivers will be minimal. As such, there is no requirement for additional screens or barriers for the proposed car park.
 - (d) An additional recommendation has been added to section 6.1.4 involving the displaying of signs reminding users of the car park to keep noise to a minimum within the car park.

In addition, section 6.1.4.1 recommends that noise measurements be conducted of the operation of the completed car park at the nearest receivers to ensure compliance with the relevant noise emission criteria.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,



Acoustic Logic Consultancy Pty Ltd
Justin Leong