

Robert Craig  
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**20 March 2018**

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Dear Robert,

**WALLACIA MEMORIAL PARK - RESPONSE TO KEY ISSUES (ACOUSTIC)  
DEVELOPMENT APPLICATION NO 17/1092**

On behalf of Catholic Metropolitan Cemeteries Trust (CMCT), Acoustic Studio Pty Limited has reviewed the relevant acoustic issues contained within the following documentation:

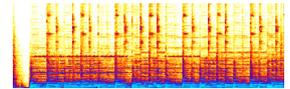
- *Development Application No. 17/1092 - Staged Construction of Wallacia Memorial Park including Cemetery for 88,000 Burial Plots, Chapel & Related Crematorium & Function Rooms, Administration Building, Services Outbuilding, Parkland Areas, Internal Roads, Car Parking & Associated Landscaping & Site Servicing Works 13-15 Park Road Wallacia (Penrith City Council, 23 February 2018).*

The following comments are provided in response to clauses No. 8(a) through 8(f) of the above document:

Clause	Acoustic Issue (Penrith City Council, 23 February 2018)	Acoustic Studio comment / response
8(a)	<i>'Further information shall be provided on the operating hours of the clubhouse including delivery times of goods and services associated with the operation and maintenance of the clubhouse.'</i>	It is understood from CMCT that the proposed refurbishment of the clubhouse does not constitute a 'change of use' and operating hours will continue as per existing, therefore a detailed operational noise assessment has not been carried out.
8(b)	<i>'Clarification is needed indicating that the distance the noise meter was located from the most affective sensitive noise receiver (INP states if this is more than 30m from residence, the logger should be located at the most affected point within 30 m of the residence.'</i>	The noise logger (unattended meter) was located <30m from the nearest and most affected residential boundary and facade (115 Park Road), and therefore representative of the noise environment for the surrounding sensitive receivers. Attended measurements further support that the residents at 115 Park Road are the nearest and most affected receiver.

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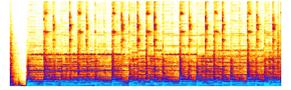


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Clause	Acoustic Issue (Penrith City Council, 23 February 2018)	Acoustic Studio comment / response
8(c)	<i>While a statement indicating that sound mitigation measures will be implemented for the furnaces (and number of) and mechanical plant, further acoustic information and compliance with NSW INP and POEO Act 1997 will be will need to be provided once the specific brand of furnace has been decided. Location of flue will also need to be provided.'</i>	A detailed assessment of plant selections and layout of typical building services (including furnaces) will be carried out during design development and prior to Construction Certificate documentation.
8(d)	<i>Noise level predictions have been provided for 1 furnace from 7am-6pm, however the development states that 2 furnaces will be operating on a worst case scenario of 24 hours a day 365 days/year. Further detailed assessment need to be provided on source noise levels of the furnace and equipment mechanical plant for day, evening and night.'</i>	<p>A preliminary assessment based on historical furnace measurements (collected by Acoustic Studio) indicates that the operation of 2 x furnaces would be compliant at the nearest receiver (41 dB(A)) during the daytime period, however would exceed evening and night-time criteria.</p>  <p>A detailed assessment of furnace operations (following confirmation of operational hours, plant selections and layout) will be carried out during design development and prior to Construction Certificate documentation.</p>
8(e)	<i>Further detailed assessment needs to be provided on accumulate operational noise impact from building services equipment day, evening and night; noting that evening background noise at the most sensitive receiver allows for maximum noise output of 34dBA.'</i>	A detailed assessment of plant selections and layout of typical building services (including mechanical equipment operating from the kitchen or catering area, and cumulative building noise impact) will be carried out during design development and prior to Construction Certificate documentation.
8(f)	<i>No information has been provided on noise sources from the mechanical equipment operating from the kitchen or catering area. Further detailed assessment needs to be provided on the operation noise impact on residence from the cool room compressor fans and exhaust fans for day, evening and night.'</i>	

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**acoustic studio**

I trust that the information provided in this letter is satisfactory, please do not hesitate to contact the undersigned should you have any further queries.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Hadi Khairuddin'.

**Hadi Khairuddin**  
Acoustic Specialist, Acoustic Studio Pty Ltd

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