

#### MANAGING DIRECTORS

MATTHEW PALAVIDIS  
VICTOR FATTORETTO

#### DIRECTORS

MATTHEW SHIELDS  
BEN WHITE



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DEXUS Property Group  
PO Box R1822  
ROYAL EXCHANGE NSW 1225

## **Hospital Use - Frederick Street, St Leonards - Review of Impacts from Surrounding Industrial Sites**

### **1 INTRODUCTION**

Acoustic Logic Consultancy have prepared acoustic assessments for both Tower A and Tower B of the proposed Hospital project at 12 Frederick Street, St Leonards.

In those reports we have assessed impacts from the proposed use on the surrounding receivers (including residential receivers and receivers in the Royal North Shore Hospital and North Shore Private Hospital); and the impacts on the site from the surroundings which are dominated by road traffic noise.

Further information has been requested in respect of the impact of the neighbouring Industrial premises on the proposed Hospital uses.

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SYDNEY

A: 9 Sarah St Mascot NSW 2020

T: (02) 8339 8000

F: (02) 8338 8399

SYDNEY MELBOURNE BRISBANE CANBERRA

LONDON DUBAI SINGAPORE GREECE

ABN: 11 068 954 343

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## **2 SITE DESCRIPTION**

The subject site is bound to the North and East by existing Commercial/Light Industrial and to the South and West by Hospital Uses. This includes the following uses:

- Warehouse use adjacent to the North;
- Telstra Data Centre to the North East;
- Australian Post distribution Centre to the East;
- Royal North Shore Hospital to the South;
- North Shore Private Hospital to the West.

Onsite inspection, there were no remarkable noise emissions from any of the above Commercial/Light Industrial Neighbours. Some mechanical noise from the surrounding industrial premises was audible at the subject site, however noise from road traffic dominated the acoustic environment.

## **3 ASSESSMENT OF IMPACTS FROM SURROUNDING INDUSTRIAL RECEIVERS**

### **3.1 ROYAL NORTH SHORE HOSPITAL**

Typical noise emissions from the operation of Royal North Shore Hospital are unremarkable and are outweighed by road traffic noise. A particular assessment of helicopter noise has been undertaken and no additional façade treatments are required for the control of helicopter noise intrusion (based on the current design, but noise intrusion would be reviewed for Construction Certificate).

### **3.2 NORTH SHORE PRIVATE HOSPITAL**

Typical noise emissions from the operation of North Shore Private Hospital are unremarkable and are outweighed by road traffic noise. No additional treatments to the façade are required to treat against noise impacts from this source.

### **3.3 WAREHOUSE USE ADJACENT TO THE NORTH**

Typical noise emissions from the operation of warehouse are unremarkable and are outweighed by road traffic noise. No additional treatments to the façade are required to treat against noise impacts from this source.

### **3.4 TELSTRA DATA CENTRE TO THE NORTH EAST**

Mechanical noise from this building is audible at the site, however impacts from road traffic are of greater impact. No additional treatments to the façade are required to treat against noise impacts from this source.

Due to the vibration sensitivity of the equipment within a Data Centre, vibration monitoring may be required during construction to manage impacts on this receiver (this would be determined in the site specific Construction Noise and Vibration Management Plan prepared after the engagement of the builder).

### 3.5 AUSTRALIA POST DISTRIBUTION CENTRE- ADJACENT TO THE EAST

The Australia Post St Leonards distribution centre is located adjacent to the site to the East. During the site visit, noise emissions from this source were unremarkable. However, typical peak periods for truck distribution would be during the night time.

Acoustic Logic Consultancy have previously measured noise emissions from distribution activities at the Post distribution centre at Alexandria. Activities measured included truck idling, driving slowly forwards (simulating forward manoeuvring), reversing with beeper, and truck airbrake.

Considering the distance from the Post yard to the proposed ward rooms and the façade treatments nominated previously (which would be reviewed for construction certificate), compliance with the project the internal noise goals (both average noise and peak noise for sleep disturbance) is achieved without additional treatment.

## 4 POTENTIAL FUTURE INDUSTRIAL USES

The use of the industrial land surrounding the subject site could change over time. Considering the existing sensitive receivers proximate to the site i.e. Royal North Shore Hospital; North Shore Private Hospital; Telstra Data Centre; SBS Television and Radio Studios; and multi-storey residential receivers; it is not likely (acoustically) that the presence of the proposed Hospital would further limit the uses of the surrounding industrial sites.

Further, any future industrial use on the sites would need to be designed for compliance with the NSW EPA Industrial Noise Policy Amenity Criterion of 70dB(A)  $L_{eq}$  (when in use) at the boundary (considering the site as an Industrial Receiver). Assuming a boundary noise level of 70dB(A)  $L_{eq}$ , it would be practical and feasible to treat the façade of the proposed Hospital for compliance with the project internal noise goals nominated in the previous acoustic reports.

## 5 CONCLUSION

The proposed Hospital use of 12 Frederick Street is not adversely impacted by the surrounding industrial receivers. Based on the current design, no additional acoustic treatments are required to the facades to treat against noise from the existing industrial neighbours. Further, it would also be feasible to treat the façade of the Hospital against future industrial noise from the adjacent sites (subject to design) if required.

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

Yours faithfully,

A handwritten signature in black ink, appearing to read 'Ben White', is written over a light blue circular stamp.

Acoustic Logic Consultancy Pty Ltd  
Ben White