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PACIFIC HIGHWAY UPGRADE  
OXLEY HIGHWAY TO KEMPSEY  
NOISE & VIBRATION WORKING PAPER

REPORT NO. 04254  
VERSION D

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PREPARED FOR

GHD PTY LTD  
PO BOX 5403  
HUNTER REGIONAL MAIL CENTRE NSW 2310

Wilkinson Murray Pty Limited

ABN 41 192 548 112 • Level 2, 123 Willoughby Road, Crows Nest NSW 2065, Australia • **Asian Office: Hong Kong**  
† +61 2 9437 4611 • f +61 2 9437 4393 • e [acoustics@wilkinsonmurray.com.au](mailto:acoustics@wilkinsonmurray.com.au) • w [www.wilkinsonmurray.com.au](http://www.wilkinsonmurray.com.au)

## 10 CONCLUSION

Noise and vibration impacts from the proposed Oxley Highway to Kempsey Pacific Highway upgrade have been assessed in accordance with appropriate environmental standards, notably the NSW Department of Environment, Climate Change and Water's *Environmental Criteria for Road Traffic Noise* (ECRTN) and the RTA's *Environmental Noise Management Manual*. Impacts at relevant residential dwellings have been quantified and where possible, measures have been proposed that would mitigate these impacts. The major conclusions of this assessment are as follows:

- Traffic volumes are predicted to grow by up to 37% from year of opening volumes on the existing highway (2016) to 2026 volumes on the Proposal.
- Most residences have exposure to existing traffic noise although some in relatively small numbers near the proposed Telegraph Point bypass section have little or no existing exposure to traffic noise. This is especially true on the facades newly exposed to the proposed bypass.
- Noise barriers have not been considered reasonable and/or feasible for this Proposal due to the isolated nature of the residences as well as engineering and urban design reasons.
- Individual residences where exceedances of criteria are predicted have been identified to be considered for architectural treatments to mitigate noise to base (ECRTN) levels.
- Proposed noise management measures would be reviewed and optimised, where necessary, at the detailed design stage.
- Noise and vibration impacts during construction have been identified, and an indication as to what distances residences would generally be likely to comply has been provided.
- Blasting noise and overpressure impacts have been assessed at potential blast sites and sites complying with Australian and New Zealand Environment and Conservation Council guidelines have been identified.

### Note

All materials specified by Wilkinson Murray Pty Limited have been selected solely on the basis of acoustic performance. Any other properties of these materials, such as fire rating, chemical properties etc should be checked with the suppliers or other specialised bodies for fitness for a given purpose.

### Quality Assurance

We are committed to and have implemented AS/NZS ISO 9001:2000 'Quality Management Systems – Requirements'. This management system has been externally certified and Licence No. QEC 13457 has been issued.

### AAAC

This firm is a member firm of the Association of Australian Acoustical Consultants and the work here reported has been carried out in accordance with the terms of that membership.

Version	Status	Date	Prepared by	Checked by
A	Draft	15 November 2007	Roman Haverkamp	Neil Gross
B	Draft	14 January 2008	Roman Haverkamp	Neil Gross
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