

## August 2019 Noise Monitoring



Licensee: Laing O'Rourke Australia Construction Pty Ltd  
 Premises: Woolgoolga to Ballina Pacific Highway Upgrade Project, Harwood NSW 2465  
 Licence No: 20713

| Contractor       | Type of Noise Monitoring - Monthly or OOHW | Date of noise monitoring | Time of Noise Monitoring | Location   | RBL (for OOHW noise monitoring) | Noise Monitoring Results |        |      |        |       |                 | Comments   |
|------------------|--|--------------------------|--------------------------|--|---------------------------------|--------------------------|--------|------|--------|-------|-----------------|--|
|                  |  |                          |                          |  |                                 | Laeq                     | Lafmax | Lzpk | Lafmin | Laf10 | Laf90 / * Laf50 |  |
| SWC              | OOHW                                       | 14/08/2019               | 21:28                    | 73 Cameron Street  | 38                              | 55.9                     | 68.7   |      | 27.7   | 47.6  | 34.7            | Predicted levels for saw cutting works 56.2dBA. Dominant noise source was the B-doubles travelling on the existing Pacific Highway. See attached noise monitoring sheet.   |
| SWC              | OOHW                                       | 23/08/2019               | 21:20                    | 73 Cameron Street  | 38                              | 58                       | 76.6   |      | 37.1   | 47.4  | 41.2            | Dominant noise source was the traffic on the existing high and traffic on the local road adjacent. No saw cutting works were being undertaken at time of attended noise monitoring.  |
| SWC              | Monthly                                    | 30/08/2019               | 11:15                    | 566 Coldstream Road  | 42                              | 47.6                     | 63.2   |      | 40.7   | 46.5  | 42.9            | Dominant noise source was the batch plant operations. No exceedance as per the predicted noise levels of 52dBA.  |
| BGC              | OOHW                                       | 19/08/2019               | 17:43                    | Lot 113 DP1183289 - 125m east of closest sensitiver receiver, 60m from works | 38                              | 61                       | 78.6   | 90.6 | 52.1   | 63.2  | 56              | Consistent with noise model for Cat A  |
| BGC              | OOHW                                       | 24/08/2019               | 6:49                     | Lot 3031 DP1231714 Bondi Hill Rd 3240 Pacific Highway, Tyndale               | 33                              | 43.1                     | 55.9   | 72.7 | 33.6   | 46.4  | N/A             | Construction noise inaudible, dominant source of noise is existing highway traffic   |
| BGC              | OOHW                                       | 29/08/2019               | 18:30                    | In line with Lot DP837655 - 380m south of work zone inside project boundary  | 44                              | 56.8                     | 62.7   | 86.4 | 49.2   | 58.9  | 54              | Dominant source of noise: existing highway traffic   |
| BGC              | OOHW                                       | 30/08/2019               | 18:00                    | 40m north of Lot 10 DP837655   | 44                              | 60.1                     | 73.1   | 89.7 | 38.3   | 63.8  | 46.4            | Dominant source of noise: existing highway traffic   |
| Pacific Complete | Periodic                                   | 5/08/2019                | 13:01                    | 34 Fischers Lane, Chatsworth   | 37                              | 49.5                     | 74     |      | 39.4   | 50.2  | 46.4 *          | Bridge B08 remediation works including piling and jackhammering. Some light works on Bridge B07.<br>Distance between monitor and work site approx. 300m.<br>Traffic passing on existing highway clearly audible especially large trucks.<br>Jackhammering at Bridge B08 intermittent but very loud.<br>Public vehicles passing monitor travelling down Fischers Lane also very loud.   |
| Pacific Complete | Periodic                                   | 5/08/2019                | 13:32                    | 46 Morpeth Street, Harwood   | 45                              | 57.3                     | 75.2   |      | 46.7   | 60    | 55 *            | Minor earthworks between Harwood Bridge and B52 - excavator moving around on site.<br>Distance between monitor and site approx. 100m.<br>Highway traffic extremely loud, frequent heavy vehicles.<br>Cannot hear noise from construction activities over noise from existing highway.<br>Public vehicles passing monitor on Morpeth St also very loud.<br>Line of sight broken by thin line of trees.  |
| Pacific Complete | Periodic                                   | 5/08/2019                | 13:57                    | 3 Palm Lane, Harwood   | 45                              | 67.8                     | 84     |      | 49.4   | 71.5  | 65.4 *          | Hydromulching along access road to west of new alignment between B52 and B56.<br>Distance between monitor and construction activities approx. 65m.<br>Earthworks - excavator & grader on access road, bogie delivering materials & roller new alignment.<br>Highway traffic extremely loud.<br>Construction activities inaudible over noise from highway traffic.<br>Can feel vibration of large trucks when they pass on existing highway.<br>T&Ds turning left onto existing highway from Watt's Lane also extremely loud. |
| Pacific Complete | Periodic                                   | 5/08/2019                | 14:15                    | 29 Palm Lane, Harwood  | 45                              | 66.3                     | 87.7   |      | 39.3   | 69.5  | 58.8 *          | Works on new alignment between B52 and B56.<br>Distance between monitor and construction activities approx. 35m.<br>Hydromulching along access road to west of new alignment between B52 and B56.<br>Digger loading materials into bogie, light vehicles moving around on site.<br>Highway traffic extremely loud.<br>Can feel vibration of large trucks as they pass on the existing highway.<br>Construction noise inaudible over noise from highway.  |
| Pacific Complete | Periodic                                   | 5/08/2019                | 14:47                    | Two Bridge Coffee Van Carpark Yamba Road, Yamba                              | 45                              | 58.3                     | 74.6   |      | 51.2   | 60.1  | 57.5 *          | SEE Civil Ancillary Facility<br>Distance between monitor and construction activities approx. 100m<br>Minor earthworks Yamba Interchange West<br>1 x truck moving around on site.<br>Noise from existing highway extremely loud.<br>Frequent vehicle movements along adjacent Yamba Road.<br>Construction related noise inaudible over noise from existing highway. Couple having loud argument in carpark.   |
| Pacific Complete | Periodic                                   | 5/08/2019                | 15:21                    | 124 Farlows Lane, Maclean  | 43                              | 56.9                     | 84     |      | 41.6   | 52.4  | 47.5 *          | Bridge B01 works & SEE Civil soil sorting<br>Distance between monitor and construction activities approx. 320m.<br>Very quiet location. Highway traffic very loud<br>Soil sorting operations inaudible over noise of highway<br>Public and construction related light vehicles and trucks passing monitor travelling down Farlows Lane very loud cows.   |
| BMD              | OOHW                                       | 26/08/2019               | 9:42                     | 1 Jackybulbin Road, Mororo   | 46                              | 58.5                     | 80.8   |      | 32.4   | 55.2  | 41.7            | Local traffic on Jackybulbin Road dominant noise source 69.0-79.9 dB(A).<br>Pacific Highway traffic 48.0-60.0 dB(A). Construction Gate 102.7 North not in use. Construction noise inaudible from monitoring site.  |
| BMD              | Monthly                                    | 26/08/2019               | 10:16                    | 7175 Pacific Highway   | 46                              | 59.2                     | 75.6   |      | 37.6   | 63.7  | 45.5            | Pacific Highway traffic dominant noise source 64.0-73.9 dB(A). Truck reversing onsite - 53.0 dB(A). Birds 51.2-56 dB(A).   |

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|------------|--|--------------------------|--------------------------|-------------------------------|---------------------------------|--------------------------|--------|-------|--------|-------|-----------------|--|
|            |  |                          |                          |                               |                                 | Laeq                     | Lafmax | Lzpk  | Lafmin | Laf10 | Laf90 / * Laf50 |  |
| BMD        | Monthly                                    | 26/08/2019               | 11:00                    | 6530 Pacific Highway          | 46                              | 58.1                     | 72     |       | 48.7   | 61.1  | 52.1            | Construction dominant noise source 51.8-65.4 dB(A) with peaks of 68.4 and 71.6 dB(A). Trucks at construction gate 103.7 - 52 dB(A), truck movements on the Pacific Highway 59.7-66.0 dB(A). Reversing alarms 57.0-64.0dB(A). |
| LendLease  | Monthly                                    | 21/08/2019               | 15:30                    | NMP03 (1202 Wardell Rd)(R242) | 36                              | 44.7                     | 56.6   | 84.5  | 34.1   | 47.4  | 38.1            | Main contributing source R2B. Loading of mxyxs and some LV movements. Extraneous noise sources: Birds, Traffic on Wardell Rd. Reading was below modelled/approved noise scenario as detailed within the CCNVMP. Winds: Still |
| LendLease  | Monthly                                    | 21/08/2019               | 15:50                    | NMP04 (1175 Wardell Rd)(R245) | 36                              | 50.8                     | 67.3   | 90.4  | 29.8   | 54.7  | 35.2            | Wardell Rd main contributing source. R2B audible on one instant loading mxyxs. Extraneous noise sources: Birds. Reading was below modelled/approved noise scenario as detailed within the CCNVMP Winds: Still                |
| LendLease  | Monthly                                    | 21/08/2019               | 16:15                    | NMP06 (109 Meridian Drive)    | 41                              | 50.3                     | 70.7   | 85.5  | 40.8   | 50.5  | 43.6            | Pac Highway main contributing source. R2B audible on one instant during reversing of a vehicle (quacker). Extraneous noise sources: Birds, cattle in adjoining paddocks, 4 cars passed on Meridian Dr. Winds: Still          |
| LendLease  | Monthly                                    | 21/08/2019               | 16:45                    | NMP08 (55 Whytes Lane West)   | 41                              | 48                       | 69.4   | 82.8  | 38.6   | 50.5  | 42.7            | Main source Pac Highway. R2B audible during reversing of grader (quacker). Extraneous noise sources: Birds, 2 cars using Whytes lane West. Winds: Still  |
| Georgiou   | Monthly                                    | 15/08/2019               | 3:15pm                   | 83 Smith Drive                | 62.8                            | 59.1                     | 82.3   | 116.6 | 44.3   | 59    | 47              |  |
| Georgiou   | Monthly                                    | 15/08/2019               | 3:45pm                   | 55 Pimlico Road               | 58.3                            | 57.6                     | 77.5   | 111.3 | 40.6   | 57    | 43              |  |
| Georgiou   | OOHW                                       | 27/08/2019               | 10:05pm                  | 83 Smith Drive                | 54.7                            | 51.1                     | 75.6   | 111.2 | 41.3   | 51    | 43              |  |
| Georgiou   | OOHW                                       | 27/08/2019               | 10:25pm                  | 55 Pimlico Road               | 51                              | 48.7                     | 66.1   | 106.3 | 39.2   | 48    | 40              |  |