

## March 2020 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	
BGC	OOHW	8/03/2020	11:20am	880m north of work zone, north abutment of A34 bridge	38	56.3	65.1		45	58.7	51.9	Pavement delamination detection machine as per W2B-BGC-A-EX-PER-00043.01.IFR permit
BGC	OOHW	9/03/2020	7:35pm	9 Schwonbery Street - 50m southeast of works on property boundary	44	68.5	98.1	79.8	54.3	74.3	56.2	Guard rail removal at Northern tie in/switch works as per W2B-BGC-A-EX-PER-00039.B.IFR OoHrs Works Traffic Switch North permit
BGC	OOHW	9/03/2020	10:15pm	9 Schwonbery Street - 150m southeast of works on property boundary	39	55.6	85.2	80	49.8	58.1	50.9	Guard rail removal and box out at Northern tie in/switch works as per W2B-BGC-A-EX-PER-00039.B.IFR OoHrs Works Traffic Switch North permit
BGC	OOHW	10/03/2020	8:00pm	2963 Pacific Highway - 30m southwest of works at nearest facade of house	44	64.8	94.4	84.3	53.9	67		Asphalt milling at Tyndale switch works as per W2B-BGC-A-EX-PER-00034.A.IFU OoHrs Works Final Traffic Switch Tyndale
BGC	OOHW	10/03/2020	11:00pm	2963 Pacific Highway - 30m southwest of works at nearest facade of house	33	62.9	92.6	74.4	56.4	66.2	57.8	Asphalt milling at Tyndale switch works as per W2B-BGC-A-EX-PER-00034.A.IFU OoHrs Works Final Traffic Switch Tyndale
BGC	OOHW	10/03/2020	8:34pm	4 O'Mara's Ln - 600m west of batch plant	38	62.6	92.2	77.8	39.4	66.7	44.3	Batch plant operation as per W2B-SWC-A-EX-LET-00016-C-IFR
BGC	OOHW	10/03/2020	7:09pm	9 Schwonbery Street - 150m southeast of works on property boundary	44	54.6	84.2	68.8	49.4	57.4	51	Box out at Northern tie in/switch works as per W2B-BGC-A-EX-PER-00039.B.IFR OoHrs Works Traffic Switch North permit
BGC	OOHW	10/03/2020	10:15pm	9 Schwonbery Street - 100m southeast of works on property boundary	39	53.3	82.9	66.4	44.1	57.9	45.8	Box out and stab sand placement at Northern tie in/switch works as per W2B-BGC-A-EX-PER-00039.B.IFR OoHrs Works Traffic Switch North permit
BGC	OOHW	10/03/2020	6:30pm	200m north of works - 600m from nearest sensitive receiver	38	48.3	77.9	85.8	38.5	51	42	Grader and roller on stab sand in tie in as per sparsely population OOHW as per W2B-PC0-A-ZD-LET-02173 A IFI
BGC	OOHW	12/03/2020	7:16pm	9 Schwonbery Street - 200m southeast of works on property boundary	44	54.7	84.3	72.8	43.5	58.1	47.3	Stab sand placement at Northern tie in/switch works as per W2B-BGC-A-EX-PER-00039.B.IFR OoHrs Works Traffic Switch North permit
BGC	OOHW	12/03/2020	8:12pm	2963 Pacific Highway - 30m southwest of works at nearest facade of house	38	61.5	91.1	72.6	57	63.8	58.9	Asphalt milling at Tyndale switch works as per W2B-BGC-A-EX-PER-00034.A.IFU OoHrs Works Final Traffic Switch Tyndale
BGC	OOHW	12/03/2020	10:00pm	2963 Pacific Highway - 30m southwest of works at nearest facade of house	33	67.3	96.9	82.5	57.7	70.6	61.3	Asphalting at Tyndale switch works as per W2B-BGC-A-EX-PER-00034.A.IFU OoHrs Works Final Traffic Switch Tyndale
BGC	OOHW	14/03/2020	6:38am	North of A34 bridge, 890m from work zone on property boundary of nearest resident	33	46	75.6	65.4	34.2	48.5	39.9	Permit as per W2B-BGC-A-EX-PER-00044.01.IFR
BGC	OOHW	14/03/2020	6:05pm	North of A34 bridge, 890m from work zone on property boundary of nearest resident	38	48.2	76.9	67.1	35.7	49.8	42	Saw cutting transition barriers as per W2B-BGC-A-EX-PER-00044.01.IFR
BGC	OOHW	25/03/2020	2:00am	60m from nearest residence (G385), 380m north of work zone	39	52.4	82	67.4	33.8	57.4	36.9	Spray seal as per W2B-BGC-A-EX-PER-00045.A.IFU OoHrs Works Cameron St - Edwards Ck Spray Seal
BGC	OOHW	27/03/2020	6:11pm	6m from work zone to property boundary	44	72.4	102	82.3	63.8	74.9	68.6	Asphalting as per W2B-BGC-A-EX-PER-00047.01.IFR OoHrs Jubilee St Asphalt permit
BGC	OOHW	29/03/2020	9:54pm	29m from works, south of A34 bridge on the alignment	38	53.5	7538	71	40.4	52.4	41.5	Guide post installation as per W2B-BGC-A-EX-PER-00046.01.IFR OoHrs Works - Non-powered hand tools
BGC	OOHW	29/03/2020	10:00am	95m from works, south of A34 bridge on the alignment	38	40.2	61.4	61.2	29.5	41.6	31.6	Guide post installation as per W2B-BGC-A-EX-PER-00046.01.IFR OoHrs Works - Non-powered hand tools
BMD	OOHW	30/03/2020	19:05:00	Representative 400m up Mororo Road	42	38.6	62.2		28.4	39.6	32.5	Construction inaudible. Peaks in data from bird calls in background
BMD	OOHW	30/03/2020	23:15:00	Representative 400m up Mororo Road	42							Construction inaudible. Peaks in data from crickets/frogs in background
Quickway	Monthly	3/03/2020	15:35:00	18 Thurgates Lane, Wardell, NSW	51	60.2	61	67.2	37.8	53.9	43.5	The noise management level (NML) approved for the project during work hours is an LAeq (average over 15mins) of 51dB. One occurrence of a truck using its exhaust brakes was observed within the monitoring period with a noise level of 50.4dB. Background noise from the breeze rustling leaves and Cicadas was on average between 43dB and 61dB. Monitoring demonstrated an average 15 minute noise level of 60.2dB. Although this is above the NML for construction noise, this reading mainly consisted of natural background noise rather than construction noise and does not trigger further mitigation. Although this is the case, it was noted that the compression braking from the trucks still may cause disturbance to the residents. For this reason, all the truck drivers have been spoken to and instructed that there they are NOT to use exhaust brakes to slow down in proximity to Wardell Rd or any other residences.

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Quickway	Monthly	3/03/2020	17:10:00	1247 Wardell Rd, Wardell, NSW	51	54.6	84.2	71.9	35.1	55.8	38.3	No occurrences of a truck using its exhaust brakes were observed within the monitoring period. Background noise from the breeze rustling leaves and passing traffic was between 44dB and 71dB. Monitoring demonstrated an average 15 minute noise level of 54.6dB. Although this is above the NML for construction noise, this reading mainly consisted of existing background noise rather than construction noise and does not trigger further mitigation. Although this is the case, it was noted that the compression braking from the trucks outside of the monitoring period still may cause disturbance to the residents. For this reason, all the truck drivers have been spoken to and instructed that there they are NOT to use exhaust brakes to slow down in proximity to Wardell Rd or any other residences.