

## October 2018 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	
SWC												No noise monitoring undertaken in October 2018
BHA												N/A - works done within Standard Saturday work hours. Crane activated at 8.30am as precast elements delivered to site and completed works before 5.00pm as good weather set in, causing no delays to works.
BMD	OOHW	20/10/2018	5:55:00	A22 200m east of works	32	37.2	43.7		31.4	40.2	36.5	Frogs, insects constant background noise at 42-43 dB. Construction inaudible
BGC	OOHW	23/10/2018	6:23:00	McIntyres Lane entry	33	60.5	87.1	92.8	46.9	64.6	53.5	Out of hours concrete pour at A35 Bridge - main source of noise is traffic on McIntyres Lane.
BMD	Monthly	25/10/2018	9:37:00	1 Jackybulbin Road, Mororo	46	58.4	83.2		43.2	52.9	46.4	Main influence, trucks travelling on Jackybulbin Road 70.5 dB(A) reaching 83 dB(A). Rooster from sensitive receiver 55.4 - 71 dB(A). BMD works south of gate 102.7 48.7 dB(A) - 54.3 dB(A). Trucks on the Pacific Highway 50.3 dB(A) - 53 dB(A). Background noise 47 dB(A). NML = 56 dB(A) - works considered compliant.
BMD	Monthly	25/10/2018	10:04:00	6530 Pacific Highway Jackybulbin	46	61.5	79.4		37.8	66.1	44.8	Dominant noise source: Traffic on the existing Pacific Highway 62 dB(A) with peaks of 71.9 dB(A). Construction noise inaudible from sensitive receiver. Background noise 38.8 dB(A). NML = 56 dB(A) - works considered compliant.
BMD	OOHW	3/10/2018	21:00:00	Fischers Lane	46	43.9	52.6		39.8	46.3	42	Dominant noise source: Trucks on the Pacific Highway. Background 39.8 dB(A). NML = 51dB(A) - works considered compliant.
BMD	OOHW	29/10/2018	19:56:00	Mororo Cut West	42	57.8	70.9		43.1	62.2	48.5	Dominant noise source: Southbound and northbound traffic , 58.1 dB(A) with peaks of 70.5 dB(A). Engine brakes 54 dB(A). Peaks of 64 dB(A). Lighting tower 46.5 dB(A). Construction activities 47 dB(A). NML = 47 dB(A) works considered compliant.
LendLease	Monthly	8/10/2018	12:31:00	NMP01 (10950 Pacific Highway)	41	45.1	60.8	96.9	40.4	46.6	42	Main contributing noise source: Traffic & Wind in cane No R2B construction activities audible
LendLease	Monthly	8/10/2018	12:58:00	NMP02 (1184 Pacific Highway)	41	47.7	60.1	90.9	40.6	49.9	43.6	Main contributing noise source: Traffic & Wind in cane No R2B construction activities audible
LendLease	Monthly	8/10/2018	14:03:00	NMP03 (1202 Wardell Rd)(R242)	41	53.4	67	84	42.9	56.7	44.9	Main Contributing noise source: R2B construction activities: Roller, Excavator tramming (Quickway), 40t dump trucks (2) Reverse beepers, LV's, Tipppers (6) & Small hand tools (Quickway) Extraneous noise sources: Wind in trees & birds Reading was below modelled/approved noise scenario as detailed within the CCNVMP.
LendLease	Monthly	8/10/2018	16:20:00	NMP04 (1175 Wardell Rd)(R245)	41	64	73.3	95.5	55.8	65.9	59.2	Main Contributing noise source: R2B construction activities: Excavator (4), Trimmer, Streetsweeper on Wardell Road, Grader & Vibratory Roller on D06, Reverse beepers, Tipppers (12) Reading was below modelled/approved noise scenario as detailed within the CCNVMP.
LendLease	Monthly	19/10/2018	13:30:00	NMP05 (848 Pimlico Rd)	41	51.6	77	91.9	38.2	49.9	41.8	Main contributing noise source: Traffic No R2B construction activities audible
LendLease	Monthly	19/10/2018	13:00:00	NMP06 (109 Meridian Drive)	41	53.9	67.9	87.2	47.9	55.3	50.6	Main contributing noise source: Traffic R2B construction activities audible: Excavator, 40t Dump Trucks Works on Coolgardie Interchange
LendLease	Monthly	19/10/2018	12:40:00	NMP07 (3 McAndrews Lane)	41	50.6	68.5	87.9	41.3	52.9	45.6	Main contributing noise source: Traffic No R2B construction activities audible
LendLease	Monthly	19/10/2018	12:20:00	NMP08 (55 Whytes Lane West)	41	47.5	68.4	88	36.7	49.6	39.6	Main contributing noise source: Traffic No R2B construction activities audible
LendLease	Monthly	19/10/2018	11:35:00	NMP09 (151 Uralba Rd)	41	59.4	81.5	97.6	42.6	56.4	45.8	Main contributing noise source: Traffic No R2B construction activities audible
AFHJV	Monthly	21/10/2018	15:25:00	1 Petticoat Lane (R1331)	45	56.7	73.2	-	47.1	56.6	50.2	
AFHJV	Monthly	21/10/2018	15:04:00	8 Martin Road (R1283)	45	53.9	67.3	-	44.7	56.2	48.2	
AFHJV	Monthly	21/10/2018	14:46:00	40 Morpeth Street (R1396)	45	53	61.6	-	44.7	55.8	48	
AFHJV	Monthly	21/10/2018	14:18:00	35 James Creek Road (R1256)	45	54.9	77.4	-	44.0	57.7	47.7	
Quickway	OOHW - Bridge D51 (Deck Pour)	9/10/2018	18:00:00	X: 541902, Y: 6793708, 323 Old Bagotville Rd	38	42.6	51.7	53.2	36.3	40.1	49.7	OOHW Noise monitoring undertaken during representative period as agreed with PC. OOHW noise source not audible from nearest sensitive receiver. Noise dominated by natural background noise. (Noise source >800m away)

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Quickway	Monthly - D55 (Deck Pour)	24/10/2018	8:50:00	X: 543048, Y: 6800012, 302 Lumleys Lane	41	60	88.9	89.6	36.9	55	40.7	Noise dominated by natural background noise. Ongoing noise from residents dog and rooster. Peak noise caused by passing garbage truck at 9.01am, with second vehicle passing at 9.04am. Laf90 of 40.7dBA demonstrates that 90% of the sampling period was below the RBL for the catchment. Concrete pour noise source barely audible from the residence.
Quickway	OOHW - Bridge D55 (Deck curing)	24/10/2018 - 30/11/18	18:00:00	X: 543048, Y: 6800012, 302 Lumleys Lane	38	49.6	79.2	69	38.5	53	41.4	OOHW Noise monitoring undertaken during representative period as agreed with PC. OOHW noise source not audible from nearest sensitive receiver. D55/D56 are adjacent to each other and are curing concurrently. Noise dominated by natural background noise, and resident's roosters.
Quickway	OOHW - Bridge D56 (Deck curing)	24/10/2018 - 30/11/18	18:00:00	X: 543048, Y: 6800012, 302 Lumleys Lane	38	49.6	79.2	69	38.5	53	41.4	OOHW Noise monitoring undertaken during representative period as agreed with PC. OOHW noise source not audible from nearest sensitive receiver. D55/D56 are adjacent to each other and are curing concurrently. Noise dominated by natural background noise, and resident's roosters.
LendLease	OOHW	4/10/2018	6:11:00	556 Back Channel Road (R5)	41	56	72.8	89.5	47.8	58	51	RRB construction activities were audible peaking at 51-53 dBA for a period of one minute when minimal background noise was observed. RRB not audible above background noise levels for the remainder of the monitoring period. Traffic on the Pacific Highway was audible peaking at 58dBA. Cane trucks passing on Back Channel Road were observed peaking at 70dbA. Birds were also heard throughout the reading peaking at 54 dba. The dominant noise was traffic on the Pacific Highway.
Georgiou	OOHW Works - Monthly	25/10/2018	6:15am	83 Smith Drive	54.7	52.1	71.9	114.9	41.2	51	42	
Georgiou	OOHW Works - Monthly	25/10/2018	6:40am	55 Pimlico road	51	49.3	58.2	111.3	39.8	48	40	
Georgiou	Monthly monitoring	25/10/2018	9:00am	83 Smith Drive	62.8	60.7	87.2	122.3	44.6	60	46	
Georgiou	Monthly monitoring	25/10/2018	9:35am	55 Pimlico Road	58.3	57.1	74.6	116.2	41.9	56	44	
Georgiou	OOHW Works - Monthly	27/10/2018	2:00pm	83 Smith Drive	62.8	59.4	88.2	116.4	43.8	58	46	
Georgiou	OOHW Works - Monthly	27/10/2018	2:25pm	55 Pimlico road	58.3	57.3	70.9	101.3	42.4	56	45	