

March 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	Date of noise monitoring	Time of Noise Monitoring	Location	RBL (for OOHV noise monitoring)	Noise Monitoring Results						Comments
					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
BGC	13/03/2018	16:00:00	30 Jubilee Street, Maclean	44	70.1	84.8		52	74.1	57.5	Noise from passing LVs, trucks, truck & dog, buses, motorbikes on Jubilee street and on nearby existing Pacific highway.
Shamrock Civil Engineering	9/03/2018	18:30:00	9 Old Pacific Highway, Woombah	39	51	71.8		42.8	53.4	46.4	Significant noise from Pacific Highway and Iluka Road traffic, birdsong. Works at Iluka Compound largely inaudible.
BMD - Diversion Lanes	1/03/2018	18:40:00	lot 1 Garets lane	44	54.8	79.1		43.9	56.1	47.9	Constant highway traffic 50-55dB with trucks peaking at 66dB. Local traffic (2cars up to 78dB). Lorikeets 52db; 1 cow bellowing 53db> construction inaudible. Foam bitumen over-run.
BMD - Diversion Lanes	7/03/2018	22:50:00	Banana rd	39	61.9	70.1		49.1	53.3	50	Frogs in background main influence on record 50-55dB. Highway hum audible at 50dB. Occasional bat calls up to 70dB. Barrier removal.
BMD - Diversion Lanes	8/03/2018	03:30:00	Banana rd	39	49.8	70.1		38.7	53.2	10.1	Highway hum audible. Call of night birds or bats up to 65dB. Frog calls in background constant at 50-55dB. Barrier removal.
BMD - Diversion Lanes	13/03/2018	22:56:00	Garretts lane	35	56.4	76		36.3	60.1	39.9	Constant highway traffic 60dB with trucks peaking at 75dB. Construction inaudible
BMD - Diversion Lanes	14/03/2018	03:00:00	Garretts lane	35	59.3	88.9		47.5	59.7	51.3	Constant highway traffic 55-60dB with trucks peaking at 85dB. Construction inaudible
BMD - Diversion Lanes	19/03/2017	21:52:00	Garretts lane	39	55.4	76.2		44.9	59	47.5	Highway traffic main influence on record with peaks up to 75dB
BMD - Diversion Lanes	19/03/2017	22:30:00	Garretts lane	35	56.9	70.4		45	61.2	47	Highway traffic main influence on record with peaks up to 70dB
BMD - Diversion Lanes	21/03/2018	02:45:00	Garretts lane	35	61.6	83.8		51.8	59.6	54.1	Line markers parked 2 metres from noise meter causing peaks of up to 80dB
BMD - Diversion Lanes	21/03/2018	13:50:00	Receiver R1256 James Creek rd	45	49	72.4		35.2	48.1	38.9	Plovers 51dB; local traffic 52dB; truck and dog on local road 70dB
BMD - Diversion Lanes	21/03/2018	13:15:00	Receiver 1271 532B Yamba road	45	61.1	78		54.1	63.2	57.3	Highway traffic 67-71dB main influence on record. Private work truck at monitoring location 66dB. Wind rustling leaves in trees constant at 55dB
BMD - Diversion Lanes	21/03/2018	13:41:00	Receiver R1396 Morpeth st Harwood	45	57.7	68.9		48.9	60.7	53.6	Highway traffic main influence on record 61-65dB
BMD - Diversion Lanes	21/03/2018	14:00:00	Receiver R1283 10 Martins Point rd Harwood	45	55.5	67.9		50.2	57.5	52.8	Highway traffic main influence on record 55dB
BMD - Diversion Lanes	21/03/2018	14:20:00	Receiver R1331 petticoat lane Harwood	45	59.7	74.3		48.8	63	52.7	Crane reverse alarms 59-72dB. Highway traffic 55-65dB
BMD - Diversion Lanes	21/03/2018	14:46:00	R1438 Pacific Hwy, Chatsworth	37	61	75.9		52	63.5	55.4	Excavator at 60-63dB; bogie tippers at 70dB
BMD - Diversion Lanes	21/03/2018	15:15:00	R1457 Chatsworth Road, Chatsworth	37	66.4	85.2		42.4	66.6	49.2	Local traffic 12 vehicles 75-82.5; 7 truck and dogs 78-84.2; piling from AFS 59db
BMD - Diversion Lanes	21/03/2018	15:48:00	Receiver 1529 Mororo Road	37	62.5	78.3		46.7	67.2	50.3	Farmer slashing property 60-65dB with peaks up to 70dB.
BMD - Diversion Lanes	21/03/2018	16:25:00	Receiver R1523 Iluka rd Wombah	37	48.9	64.9		42.5	51.5	45.1	Iluka Road traffic hum main influence on record 46-57dB. Bird calls up to 55dB
BMD - Diversion Lanes	21/03/2018	16:45:00	R1471 Old Pac Hwy Woombah	37	54.1	77.5		45.5	56.6	49.3	Highway traffic and Iluka Road constant background noise 47-59dB. Bird calls up to 70dB. Resident dog barking up to 60dB
Quickway - Portion D S10	13/03/2018	16:25:00	106 Thurgates Lane Wardell NSW DP755691	60	55	63.5			59.7	52.9	crane works and concreting, monitored vehicles passing work site (construction vehicles)
LendLease S10 & S11	26/03/2018	10:05:00	NMP01 (10950 Pacific Highway)	41	36.7	52.7	74.6	30.4	39.5	30.6	R2B not audible during reading. P Hway main contributing source.
LendLease S10 & S11	26/03/2018	13:30:00	NMP02 (1184 Pacific Highway)	41	65.8	75.4	94.2	45.4	69.3	46.7	R2B not audible during reading. P Hway main contributing source. ~180 LVs, 30 trucks.
LendLease S10 & S11	26/03/2018	10:55:00	NMP03 (1202 Wardell Rd)	41	60.3	73.8	97.7	48.5	63.4	49	R2B main contributing source. ~20 50t truck movements. Grader operating south of Wardell Rd with EXA60, backhoe, watercart, some light vehicles. Drill rig arrived on float during reading. Flight overhead at 1108. Noise levels within limits for construction scenario S4 for this receiver.

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					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
LendLease S10 & S11	26/03/2018	11:15:00	NMP04 (1175 Wardell Rd)	41	57.5	69.5	93.1	44.1	61.5	44.6	R2B main contributing source. ~34 50t truck movements. Some input from bridge construction at Wardell rd. ~30 LVs used Wardell Rd during reading. Flight overhead at 1120. Truck and dogs hauling in North. Watercart viewed operating across site. Noise levels within limits for construction scenario S4 for this receiver.
LendLease S10 & S11	26/03/2018	11:45:00	NMP05 (848 Pimlico Rd)	41	46.2	67.1	83.7	36.4	46.2	40.4	P Hway main contributing source. R2B audible for ~30 seconds halfway through reading. Pile excavation activity at Coolgardie audible. Some input from insects and birds. 3 LVs used Pimlico Rd during reading.
LendLease S10 & S11	26/03/2018	14:20:00	NMP06 (109 Meridian Drive)	41	42	62.6	82.4	34	44.1	37.1	Earthworks on private property bearing 270 main contributing source. R2B audible during piling excavation bearing 040, some truck activity at bearing 180 possibly 50t trucks. Flight overhead at 1433.
LendLease S10 & S11	26/03/2018	12:14:00	NMP07 (3 McAndrews Lane)	41	41.7	58.3	83.1	33.6	43.2	37.2	P Hway main contributing source. R2B only audible on a couple of occasions with truck and dogs hauling south, Waste tanker operating in Whytes Lane carpark. Flights overhead at 1217 and 1221.
LendLease S10 & S11	26/03/2018	12:35:00	NMP08 (55 Whytes Lane West)	41	40.8	62.8	81.3	32.9	40.4	35.5	P Hway main contributing source. R2B only audible on a couple of occasions. BSC grader working on Whytes Lane towards end of reading. Flight overhead at 1249.
LendLease S10 & S11	26/03/2018	13:10:00	NMP09 (151 Uralba Rd)	41	53.6	74.5	94.6	38	49.4	40.9	P Hway and Bruxner Hway main contributing source. 8 LVs used Uralba Rd during reading. Some contribution from road works on Bruxner Hway. Flight overhead at 1324.
AFHJV / Pacifico	13/03/2018	12:39:00	40 Morpeth Street, Harwood	45	57.7	75.1	87.3	56.8	60.5	52.2	<u>Monthly Noise Monitoring</u> Above NML 55dB(A) and predicted cumulative LAeq 15 min of 55dB(A) for trans floor works within CCNVMP. The dominant noise source was the Pacific Highway traffic (59-62dB(A)). Construction works occurring during monitoring were tracking crane at Northern Abutment and erection of transfloor panels. (approximately 52dB(A) when audible).
AFHJV / Pacifico	13/03/2018	13:25:00	1 Petticoat Lane, Harwood	45	54.6	81.8	84.2	45.6	54.4	48.1	<u>Monthly Noise Monitoring</u> Below NML 55dB(A) and predicted cumulative LAeq 15min of 69dB(A) for transfloor construction within CCNVMP. Works occurring during monitoring were erection of trans floors by crane deck preparation works at span 35 and a manitou, light vehicles and water cart operating within area. The dominant noise source was birds within a nearby wattle tree (56dB(A)). Highway and sugar mill were also a dominant noise sources .
AFHJV / Pacifico	13/03/2018	13:57:00	35 James Creek Road Harwood	45	46	61.9	75.6	38.9	48.9	42	<u>Monthly Noise Monitoring</u> Below NML 55dB(A) and below predicted cumulative LAeq 15min of 51dB(A) for abutment works within CCNVMP. Works occurring during monitoring included southern abutment embankment earthworks. SEE Civil were also working on Portion B within southern abutment area and was difficult to differentiate noise contributions between AFHJV and SEE Civil works.
AFHJV / Pacifico	13/03/2018	13:04:00	8 Martin Point Road, Harwood	45	57.3	67.5	86.9	50.4	59.4	54	<u>Monthly Noise Monitoring</u> Above NML 55dB(A) and only slightly above the predicted cumulative LAeq 15 min of 57dB(A) for headstock construction within CCNVMP. Works occurring during monitoring were removing shutters at Pier 22 and a marine concrete pour and transport of kibbles (approximately 54-56dB(A)). Dominant noise source included local traffic and Pacific Highway traffic.
AFHJV / Pacifico	1/03/2018	6:04:00	52 Morpeth Street	39	58	67.8	87.6	49.3	60.6	53.2	<u>Out of Hours monitoring Dewatering North Abutment via 6inch Pump</u> Pump was inaudible. The Pacific Highway was the dominant noise source (55 - 62dB(A)). No out of hours community complaints..

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					Laeq	Lafmax	Lzpk	Lafmin	Laf10	Laf90	
AFHJV / Pacifico	2/03/2018	5:55:00	52 Morpeth Street	39	56.6	69.8	86.2	43	59.7	49.7	<p><u>Out of Hours monitoring Concrete Pour Northern Abutment</u> The Pacific Highway was the dominant noise source (55 - 64dB(A)). When breaks in traffic noise from pacific highway, construction noise was audible (~45- 52dB(A)) however construction works were not audible over highway noise.</p> <p>No out of hours community complaints.</p>
AFHJV / Pacifico	15/03/2018	18:00:00	16 River Street	44	69.1	77.3	98.7	58.5	72.4	60.9	<p><u>Out of Hours monitoring Lifting Span 24 Girder</u> The crane was the dominant noise source when under load (~72dB(A)). When crane was not under load, Heavy Vehicles on the Pacific Highway were the dominant noise source (68-71dB(A)).</p> <p>No out of hours community complaints.</p>
Lendlease - RRB	26/03/2018	18:30:00	RRB-NMP01	42	63.8					47.4	RRB not audible during reading. Traffic main source of noise. Approx. 150 cars, 30 trucks, 12 medium vehicles. Corellas in trees.
Lendlease - RRB	26/03/2018	9:25:00	RRB-NMP02	42	60.9					39.8	RRB not audible during reading. Traffic main source of noise. Approx. 140 cars, 31 trucks. Trucks slowing into the 50 km zone produced significant noise. Magpies were constant and some insects noises were present.
Lendlease - RRB	26/03/2018	8:45:00	RRB-NMP03	42	59.4					38.9	RRB not audible during reading. Traffic main source of noise. Evans Head Rd was continuously noise, approx. 60 cars. Crows and other birds present. Pacific Highway traffic in distance. Truck noises from bearing 040 and horn heard at bearing 318.
Georgiou	21/03/2018	9:00:00	83 Smith Drive	62.8	57	79.4	115	41.1	48	42	Monthly monitoring
Georgiou	21/03/2018	8:45:00	55 Pimlico Road	58.3	51.4	64.5	110.5	43.3	54	45	Monthly monitoring
Georgiou	22/03/2018	6:40:00	83 Smith Drive	54.7	51.3	75.1	101.6	43.9	52	45	OOHW Works - Monthly
Georgiou	22/03/2018	6:15:00	55 Pimlico road	51	49.8	72.6	99.8	40.2	49	41	OOHW Works - Monthly