

February 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	
SWC	OOHW	11/02/2019	22:00	6607 Pacific Highway, Glenugie	34	44.8	71.2		32.6	43.6	39.1	Highway traffic and trucks were dominant noise source.
SWC	Quarterly	26/02/2019	15:36	2860 Pacific Highway, Tyndale	51	57.8	79.9		43.4	52.8	48.9	Highway traffic and rooster were the dominant noise source. Construction noise was heard periodically.
SWC	Quarterly	27/02/2019	12:21	970 Woolli Road, Pillar Valley	42	46.9	64.5		29.5	41.1	33.3	Insects & Cicada's were dominant noise source and was continuously fluctuating. 11 cars passed using Woolli Road
SWC	Quarterly	27/02/2019	12:49	37 Old Six Mile Lane, Glenugie	42	46.5	55.5		38.8	45.4	42.1	Resident had t.v on in house for entire monitoring period which was the dominant noise source. Batch plant heard intermittently
SWC	Quarterly	27/02/2019	13:38	165 Sommervale Road, Tucabia	42	46	65.2		30.3	38.1	34.7	Tradesman working at house were the dominant noise & continuously fluctuating. Insects were also heard constantly fluctuating. Road train heard 4 times during monitoring period
SWC	Quarterly	27/02/2019	16:07	15 Tallowood Lane, Tucabia	42	41.3	66.8		30.3	37.8	32.5	Road trains heard 3 times. Insects were constantly fluctuating. Horse scratching ground and moving bowl initially. Dogs started to bark at the end of monitoring period.
BGC	OOHW	1/03/2019	6:30	3986 Pacific Highway, Gulmarrad	33	58.5	82.4	88.1	43.1	60	49.2	Background noise mainly from highway traffic. Noise from the OOHW activity is inaudible, highway traffic noise is dominant.
SEE Civil - Section 5	OOHW	11/02/2019	18:55	Close house on Jubilee Street Lot 1 on DP518089	39	57.8	65.5		47.2	62.4	51.5	Strong northerly breeze. Noise from traffic on Pacific Highway clearly audible throughout monitoring, traffic occasionally heavy. Construction works audible during monitoring
SEE Civil - Section 5	OOHW	18/02/2019	18:30		44	52.6	64.9		37.7	56	44.2	Traffic noise audible throughout monitoring event - occasionally heavy. Construction works inaudible.
BHA JV	OOHW	5/02/2019	5:50 - 6:20	220 Woodburn-Evans Head Rd		52.7	69.3	91.9	40.45	55.85	45.8	Noise monitoring for early morning deck pour at C61, dominant noise was from traffic off woodburn-Evans Head Rd.
LendLease	OOHW	31/01/2019	6:27	R192 (168 Thurgates Lane, Wardell)	38	48.6	62.7	78	32.9	53.5	38.04	R2B not audible during reading (concrete hand pour D53). Extraneous noise sources: various species of birds, cattle in adjoining property, traffic from Wardell Rd, local resident using Thurgates lane. Wind direction and speed N/A as still during reading.
LendLease	Monthly	26/02/2019	9:39	NMP03 (1202 Wardell Rd)(R242)	41	65.6	82.3	104.7	59.5	69.1	48	Trucks on Hillside Lane were the dominant noise source and were recorded at up to 82 dB. Birds were audible during the monitoring period. A tipper trucks and a backhoe operating within the project were audible. Quickway bridge works were continuous throughout monitoring period and were recorded at up to 50dB. The sweeper truck operating on Wardell Road was recorded at up to 71 dB at 11:30 mins. Vehicles travelling on Wardell Road were recorded at up to 74 dB during the monitoring period. Reading was below modelled/approved noise scenario as detailed within the CCNVMP.
LendLease	Monthly	26/02/2019	9:59	NMP04 (1175 Wardell Rd)(R245)	41	63.6	80.2	86.9	37.8	65.9	44.8	Passing and queuing traffic on Wardell Road was the dominant noise source. This noise peaked at 79 decibels between 4:22 and 6:23 mins as a vehicle with an enlarged muffler playing Blurs Song 2 pulled up next to the monitoring location with the driver applying the car handbrake hastily and lighting up. Cicadas were continuous throughout the monitoring period averaging approximately 65 decibels. The radio from a traffic controller and machinery operating within the project were intermittently audible throughout the monitoring period. However, peak noise levels from these sources were indistinguishable over background noise.
LendLease	Monthly	26/02/2019	9:06	NMP05 (848 Pimlico Rd)	41	53.9	79.5	93.4	39.2	51.8	43.6	Traffic on the existing Pacific Highway was continuous and was the dominant noise source averaging 46dB. 3 cars passed on Pimlico Road over the monitoring period with noise levels from these vehicles peaking at up to 79dB at 3 mins. Bird trills were frequent and were recorded at up to 57dB on 30 occasions. No R2B construction activities were audible. A dog barking was recorded at 3 mins.
LendLease	Monthly	26/02/2019	10:28	NMP06 (109 Meridian Drive)	41	47	69.8	89.4	37.1	46.6	40.9	Traffic on the existing Pacific Highway was the dominant noise source at a consistent 50dB. Two passing cars on Meridian Drive were recorded at 63 decibels during the monitoring period. Birds and the rustling of leaves in the trees were also intermittently recorded throughout the monitoring period. A distant reversing beeper, suspected to have been within the project was audible momentarily during the monitoring period, however the peak noise level from this source was indistinguishable over background noise sources.

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	
LendLease	Monthly	26/02/2019	14:11	NMP07 (3 McAndrews Lane)	41	53.8	68.6	93.2	43.8	56.3	48.8	Traffic on the existing Pacific Highway was continuous ranging between 45 and 55 decibels and was the dominant noise source. The rustling of nearby trees and cicadas were also intermittently audible throughout the monitoring period. 1 vehicle on McAndrews Lane was recorded during the monitoring period. Construction activities were inaudible.
LendLease	Monthly	26/02/2019	14:30	NMP08 (55 Whytes Lane West)	41	57.7	68	93.3	43.7	61.2	50.4	Traffic on the existing Pacific Highway was continuous ranging between 55 and 65 decibels and was the dominant noise source. The rustling of nearby sugar cane was also intermittently audible throughout the monitoring period. Construction activities were inaudible.
LendLease	Monthly	26/02/2019	14:54	NMP09 (151 Uralba Rd)	41	57.7	84.3	105.1	40.7	52.8	42.6	Traffic on the existing Pacific Highway and/or the Bruxner Highway was continuous and ranged between 48 and 55 decibels. 5 vehicles on Uralba Road passed during the monitoring period ranged between 55 and 65 decibels. Cicadas were also continuous throughout the monitoring period. Construction activities were inaudible.
AFHJV	Monthly	28/02/2019	14:43	1 Petticoat Lane (R1331)	45	50.8	65.6		37.5	53.1	47	
AFHJV	Monthly	28/02/2019	14:25	8 Martin Road (R1283)	45	54.5	67.5		46.9	57.2	50.4	
AFHJV	Monthly	28/02/2019	10:55	40 Morpeth Street (R1396)	45	57.8	67.3		48.3	62.9	52.8	
AFHJV	Monthly	28/02/2019	13:59 PM	35 James Creek Road (R1256)	45	57.6	82.4		38.9	55.4	42	
Quickway	OOHW D10 NB Deck Pour	31/01/2019	6:30	X: 546233, Y: 6800927, 16 Coolgardie Road, Wardell, NSW	38	53.4	66.2	83	46.3	55.3	50.4	Representative monitoring undertaken during deck pour at D10. This monitoring demonstrated noise levels not exceeding those predicted in initial noise modelling in the approved OOHW application for the works. (Predicted LAeq = 56dB, Actual LAeq = 53.4dB). Noise levels dominated by natural background noise and passing highway traffic. Construction noise was audible, but not obtrusive. These construction activities undertaken during this period were analogous with those during the first deck pour and consistent with predicted levels. No complaints were received.
Quickway	OOHW D09 Span 2 Deck Pour	12/02/2019	6:30	X: 546453, Y: 68005410, 5 Coolgardie Road, Wardell, NSW	38	64.2	79.8	93.8	47.4	68.2	53.5	Representative noise monitoring for D09 Deck pours undertaken during Span 1 deck pour. The nearest receiver is over 230m from the noise source. Construction noise was audible but not obtrusive. As the Pacific Highway is between the residence and the works, noise levels dominated by passing highway traffic.
Quickway	OOHW D09 Deck Curing	12/02/2019	18:05	X: 546453, Y: 68005410, 5 Coolgardie Road, Wardell, NSW	42	61.7	78.4	91.7	44.8	69.3	52.9	Representative noise monitoring for D09 Deck Curing undertaken during Span 1 deck pour. The nearest receiver is over 230m from the noise source. The curing operations were not audible from the residence. As the Pacific Highway is between the residence and the works, noise levels dominated by passing highway traffic.
Georgiou	OOHW	31/01/2019	5:30am	OOHW Monthly	62.8	61.2	71.6	118.3	42.8	60	45	
Georgiou	OOHW	31/01/2019	5:55am	OOHW Monthly	58.3	56.9	79.4	112.3	39.6	55	41	
Georgiou	OOHW	8/02/2019	5:30am	OOHW	54.7	51.1	75.6	111.2	41.3	51	43	
Georgiou	OOHW	8/02/2019	5:55am	OOHW	51	48.7	66.1	106.3	39.2	48	40	
Georgiou	Monthly	22/02/2019	11:00am	Monthly monitoring	58.3	55.4	68.1	119.2	28.2	57	45	
Georgiou	Monthly	22/02/2019	11:35am	Monthly monitoring	62.8	59.4	84.2	123.3	39.6	59	46	
Georgiou	OOHW / Monthly	22/02/2019	2:15pm	OOHW	54.7	52.2	72.6	109	41.6	51	44	
Georgiou	OOHW / Monthly	22/02/2019	2:45pm	OOHW	51	50.2	69.6	107.1	40.1	49	41	
BMD - Section 6												Noise monitoring still to be undertaken for February - delayed due to rainfall.