

RBL or Lago Day
Background level Evening

 Leading
 Leading

 LacqtSminute)
 Day

 Noise Mangement Level (dB(A))
 Evening

 Night
 Night

Is there line of sight to receiver?

ckground leve (dB(A))

Distanced Based Assessment (Noisiest Plant)

- Steps for Assessment:

 1. Schedule noisy works to occur in standard hours where possible or before 11pm and implement Standard Measures.

 2. Select the representative noise area category. The worksheet titled 'Representative Noise Environ.' provides a number of e xamples to help select the noise area category.

 3. Select the representative noise area category. The worksheet titled 'Representative Noise Environ.' provides a number of e xamples to help select the noise area category.

 4. Is there line of sight to receiver? Select the appropriate scenario from the drop down list.

 5. Identify and implement standard mitigation measures where feasible and reasonable. Include any shiften the standard mitigation measures by changing the selection in the 1s there line of sightois to receiver' drop-down list. Solid barriers can be in the form of road cutting, timber lapped and cappe of fence, shipping container, site office, etc. Substantial solid barriers are barriers greater than 5 metres in height or multiple rows of houses or a sound barrier specifically designed to mitigate con struction noise. Please note that vegetation and trees are not considered to be a form of solid barrier and any gaps would compromise the acoustic integrity of the solid barrier.

 5. Determine if there are any receivers (both residential and non-residential receivers) within the affected distance for each relevant time period. Consider background LA90 noise measurements to check assumption in Step #2 if:

 (a) there are many affected receivers and the impact duration at any one receiver is more than 3 weeks; or

 (b) there are a few affected receivers and the impact duration at any one receiver is more than 6 weeks.

 Note that consideration need to be given to the construction staging plan when determining impact duration.

 7. Identify if there are any receivers within the additional mitigation measures distances and identify feasible and reasonab le measures at each receiver.

 8. Where night works are involved, identify sleep disturbance affe

N 630 50

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator should be investigated on a project-by-project basis. Please contains
a Roads and Maritime noise speciliast for more information)

Abbreviation	Measure
N	Notification
SN	Specific notifications
PC	Phone calls
IB	Individual briefings
RO	Respite offer
R1	Respite period 1
R2	Respite period 2
DR	Duration respite
AA	Alternative accommodation
V	Verification

Note that spot check verification of noise levels and individual briefings are not required for projects with less than 3 weeks impact duration

								LARQ(isililitite) fioise level above baci	kground (LA90)								Sleep disutrbance
				5 to 10 dl	B(A)		10 to 20 dB(A)	20 t	o 30 dB(A)		>	· 30 dB(A)		LAeq(15minute) 75 dB(A	(A) or greater (Highly	affected)	LAmax 65 dB(A)
				Noticeal	ble		Clearly audibl	e	Modera	ately intrusive		Hig	hly intrusive					LAMAX 03 UB(A)
		Affected distance (m)	Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))	Affected distance (m)
	Day	120							N, PC, RO	45	75	N, PC, RO	45	75	N, PC, RO	45	75	
Undeveloped green fields, rural	Day (OOHW)	175				N, R1, DR	120	65	N, R1, DR	45	75	N, R1, DR, PC, SN	20	85	N, PC, RO	45	75	1
areas with	Evening	250				N, R1, DR	175	60	N, R1, DR	75	70	N, R1, DR, PC, SN	25	80	N, PC, RO	45	75	1
isolated dwellings	Night	365	N	365	50	N, R2, DR	250	55	N, PC, SN, R2, DR	120	65	AA, N, PC, SN, R2, DR	45	75	N, PC, RO	45	75	250
loolatoa arronnigo	Highly Affected	45													N, PC, RO	45	75	
	Day	135	1						N, PC, RO	50	75	N, PC, RO	50	75	N, PC, RO	50	75	1
Developed	Day (OOHW)	200				N, R1, DR	135	65	N, R1, DR	50	75	N, R1, DR, PC, SN	20	85	N, PC, RO	50	75	1
settlements (urban and	Evening	305				N, R1, DR	200	60	N, R1, DR	85	70	N, R1, DR, PC, SN	30	80	N, PC, RO	50	75	1
suburban)	Night	460	N	460	50	N, R2, DR	305	55	N, PC, SN, R2, DR	135	65	AA, N, PC, SN, R2, DR	50	75	N, PC, RO	50	75	305
oubarbarr)	Highly Affected	50													N, PC, RO	50	75	
	Day	160							N, PC, RO	60	75	N, PC, RO	60	75	N, PC, RO	60	75	1
Propagation	Day (OOHW)	255				N, R1, DR	160	65	N, R1, DR	60	75	N, R1, DR, PC, SN	20	85	N, PC, RO	60	75	1

Non-residential receiver													
Undeveloped green fields, rural areas with isolated dwellings						LAeq(15mir	nute) noise level above NML	·		LAeq(15minute) 75 dB	(A) or greater (High	ly affected)	
		Standard h	ours		<10 dB(A)		10	to 20 dB(A)					
	Period	NML	Affected	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	
	1 cilou	NIIL	distance (m)	incasure	(m)	(dB(A))	measure	(m)	(dB(A))	measure	(m)	(dB(A))	
Classroom at schools and other educational institutions	Day	55	250				N	120	65	N, PC, RO	45	75	
Hospital wards and operating theatres	Day	65	120							N, PC, RO	45	75	
Place of worship	Day	55	250				N	120	65	N, PC, RO	45	75	
Active recreation	Day	65	120							N, PC, RO	45	75	
Passive recreation	Day	60	175				N	75	70	N, PC, RO	45	75	
Industrial premise	Day	75	45				-	•		N, PC, RO	45	75	
Offices, retail outlets	Day	70	75							N, PC, RO	45	75	

									LAeq(15min	nute) noise level above NML						
		OOHW	I		< 5 dB(A)		5 to	15 dB(A)		15	to 25 dB(A)		> 25 dB(A)			
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	
Hospital wards and operating theatres	Evening	65	120				N, R1, DR	75	70	N, R1, DR	25	80	N, R1, DR, PC, SN	8	90	
nospital warus and operating theatres	Night	65	120	N	120	65	N, R2, NR	75	70	N, PC, SN, R2, DR	25	80	AA, N, PC, SN, R2, DR	8	90	
Place of worship	Evening	55	250				N, R1, DR	175	60	N, R1, DR	75	70	N, R1, DR, PC, SN	25	80	
Place of worship	Night	55	250	N	250	55	N, R2, NR	175	60	N, PC, SN, R2, DR	75	70	AA, N, PC, SN, R2, DR	25	80	
Active recreation	Evening	65	120				N, R1, DR	75	70	N, R1, DR	25	80	N, R1, DR, PC, SN	8	90	
Passive recreation	Evening	60	175				N, R1, DR	120	65	N, R1, DR	45	75	N, R1, DR, PC, SN	14	85	
Industrial premise	Evening	75	45				N, R1, DR	25	80	N, R1, DR	8	90	N, R1, DR, PC, SN	3	100	
muusu iai premise	Night	75	45	N	45	75	N, R2, NR	25	80	N, PC, SN, R2, DR	8	90	AA, N, PC, SN, R2, DR	3	100	
Offices, retail outlets	Evening	70	75				N, R1, DR	45	75	N, R1, DR	14	85	N, R1, DR, PC, SN	5	95	
Offices, retail outlets	Night	70	75	N	75	70	N, R2, NR	45	75	N, PC, SN, R2, DR	14	85	AA, N, PC, SN, R2, DR	5	95	

Non-residential receiver												
Developed settlements (urban and suburban)						LAeq(15mir	nute) noise level above NML			LAeq(15minute) 75 dB	(A) or greater (High	ly affected)
		Standard h	iours		<10 dB(A)		10 1	to 20 dB(A)		LACCOMMINGE 13 CB	(A) or greater (riigii	ily allecteu)
	Period	NML	Affected	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level
	renou	IMINIT	distance (m)	ivicasuie	(m)	(dB(A))	measure	(m)	(dB(A))	measure	(m)	(dB(A))
Classroom at schools and other educational institutions	Day	55	305				N	135	65	N, PC, RO	50	75
Hospital wards and operating theatres	Day	65	135							N, PC, RO	50	75
Place of worship	Day	55	305				N	135	65	N, PC, RO	50	75
Active recreation	Day	65	135							N, PC, RO	50	75
Passive recreation	Day	60	200				N	85	70	N, PC, RO	50	75
Industrial premise	Day	75	50							N, PC, RO	50	75
Offices, retail outlets	Dav	70	85							N, PC, RO	50	75

		OOHV	V		< 5 dB(A)		5 to	15 dB(A)		15	to 25 dB(A)		>	25 dB(A)	
	Period	NML	Affected distance (m)	Measure	Within distance (m)	e Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Hospital wards and operating theatres	Evening	65	135				N, R1, DR	85	70	N, R1, DR	28	80	N, R1, DR, PC, SN	9	90
nospital wal us allu operatilig tileatres	Night	65	135	N	135	65	N, R2, NR	85	70	N, PC, SN, R2, DR	28	80	AA, N, PC, SN, R2, DR	9	90
Place of worship	Evening	55	305				N, R1, DR	200	60	N, R1, DR	85	70	N, R1, DR, PC, SN	28	80
Place of worship	Night	55	305	N	305	55	N, R2, NR	200	60	N, PC, SN, R2, DR	85	70	AA, N, PC, SN, R2, DR	28	80
Active recreation	Evening	65	135				N, R1, DR	85	70	N, R1, DR	28	80	N, R1, DR, PC, SN	9	90
Passive recreation	Evening	60	200				N, R1, DR	135	65	N, R1, DR	50	75	N, R1, DR, PC, SN	16	85
Industrial premise	Evening	75	50				N, R1, DR	28	80	N, R1, DR	9	90	N, R1, DR, PC, SN	3	100
ilidusulai premise	Night	75	50	N	50	75	N, R2, NR	28	80	N, PC, SN, R2, DR	9	90	AA, N, PC, SN, R2, DR	3	100
Offices, retail outlets	Evening	70	85				N, R1, DR	50	75	N, R1, DR	16	85	N, R1, DR, PC, SN	5	95
Offices, retail outlets	Night	70	85	N	85	70	N, R2, NR	50	75	N, PC, SN, R2, DR	16	85	AA, N, PC, SN, R2, DR	5	95

Non-residential receiver													
Propagation across a valley / over water						LAeq(15mir	_{sute)} noise level above NML		LAeq(15minute) 75 dB(A) or greater (Highly affected)				
		Standard h	ours		<10 dB(A)		10 to	20 dB(A)		Exeq(13minute) 13 ab(x) or greater (riigin) affected)			
	Period	Period NML Affected		Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	
	renou	MINIT	distance (m)	INICasule	(m)	(dB(A))	Weasure	(m)	(dB(A))	measure	(m)	(dB(A))	
Classroom at schools and other educational institutions	Day	55	405				N	160	65	N, PC, RO	60	75	

Hospital wards and operating theatres	Day	65	160
Place of worship	Day	55	405
Active recreation	Day	65	160
Passive recreation	Day	60	255
Industrial premise	Day	75	60

Hospital wards and operating theatres	Day	65	160
Place of worship	Day	55	405
Active recreation	Day	65	160
Passive recreation	Day	60	255
Industrial premise	Day	75	60
Offices, retail outlets	Day	70	95

									LAeq(15min	ute) noise level above NML						
		OOHV	i		< 5 dB(A)		51	to 15 dB(A)		15	to 25 dB(A)		> 25 dB(A)			
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	
Hospital wards and operating theatres	Evening	65	160				N, R1, DR	95	70	N, R1, DR	35	80	N, R1, DR, PC, SN	9	90	
nospital wards and operating theatres	Night	65	160	N	160	65	N, R2, NR	95	70	N, PC, SN, R2, DR	35	80	AA, N, PC, SN, R2, DR	9	90	
Place of worship	Evening	55	405				N, R1, DR	255	60	N, R1, DR	95	70	N, R1, DR, PC, SN	35	80	
Place of worship	Night	55	405	N	405	55	N, R2, NR	255	60	N, PC, SN, R2, DR	95	70	AA, N, PC, SN, R2, DR	35	80	
Active recreation	Evening	65	160				N, R1, DR	95	70	N, R1, DR	35	80	N, R1, DR, PC, SN	9	90	
Passive recreation	Evening	60	255	1			N, R1, DR	160	65	N, R1, DR	60	75	N, R1, DR, PC, SN	20	85	
Industrial premise	Evening	75	60	1			N, R1, DR	35	80	N, R1, DR	9	90	N, R1, DR, PC, SN	3	100	
industriai premise	Night	75	60	N	60	75	N, R2, NR	35	80	N, PC, SN, R2, DR	9	90	AA, N, PC, SN, R2, DR	3	100	
Offices, retail outlets	Evening	70	95				N, R1, DR	60	75	N, R1, DR	20	85	N, R1, DR, PC, SN	5	95	
Offices, retail outlets Night 70 95		N	95	70	N, R2, NR	60	75	N, PC, SN, R2, DR	20	85	AA, N, PC, SN, R2, DR	5	95			