## Opal.

### **Opal Paper & Recycling Botany Mill**

# Noise

 $\langle$  Fact Sheet angle

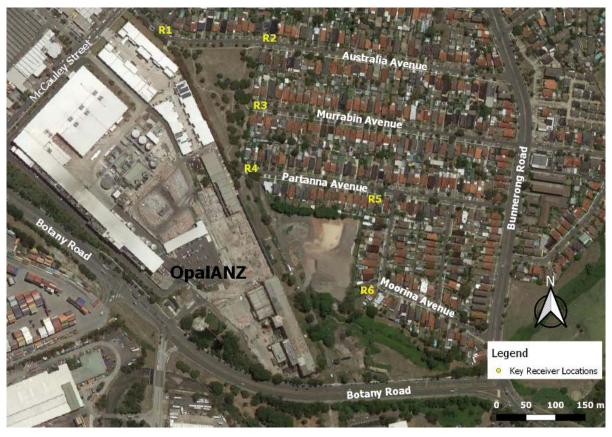
The NSW Environment Protection Authority (EPA) regulates noise from licensed industrial premises to ensure that noise from industry doesn't impact surrounding residents and businesses.

Opal Paper & Recycling's Botany Mill operates under an Environment Protection Licence issued by the NSW EPA. The licence provides limits on noise levels from our Botany Mill site as listed in the table:

Location	Day L <sub>Aeq,15min,</sub> dB(A)*	Evening L <sub>Aeq,15min,</sub> dB(A)	Night L <sub>Aeq,15min,</sub> dB(A)	Night L <sub>Amax,</sub> dB(A)~
Corner of McCauley Street and Australia Avenue (R1)	46	45	43	55
Australia Avenue (R2)	45	45	43	55
Murrabin Avenue (R3)	46	45	43	55
Partanna Avenue (R4)	42	41	41	55
Corner of Partanna Avenue and Moorina Avenue (R5)	42	42	39	55
Moorina Avenue (R6)	43	43	39	55

<sup>\*</sup>L<sub>Aeq</sub> is the equivalent A-weighted sound level. It is the sound level that would be produced by constant noise with the same amount of energy as the varying noise during the same period of time

 $<sup>{\</sup>rm \sim}L_{\rm Amax}$  is the maximum sound level produced during the time period



Noise monitoring at these locations is performed quarterly, with reports available on the Opal website: https://opalanz.com/sustainability/sustainability-performance/



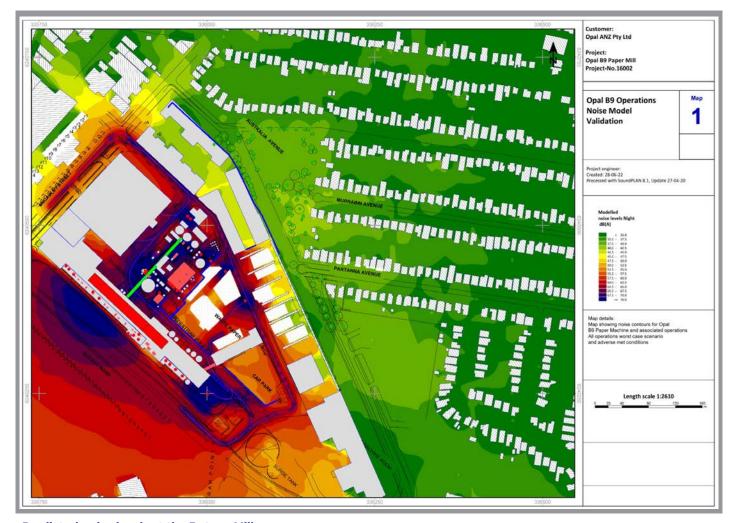
### **Understanding noise levels**

The following diagram¹ (right)provides the typical sound levels associated with commonly heard sounds.

Prolonged exposure to any noise at or above this level can cause hearing loss

110dB Regular exposure of more than 1 minute risks permanent hearing loss

Eardrum Perforation Possible		160	Pistol shot	
		150	Fireworks display	
Painful Acoustic Trauma		140	Shotgun blast	
Painfully Loud		130	Jet engine 25m away, motor racing	
		120	Rock concert, thunder	
Extremely Loud		110	Car horn, snowblower, Pneumatic Hammer	
		100	Blow dryer, subway, helicopter, chainsaw	
PROTECT YOUR EARS		90	Motorcycle, lawn mower, convertible ride on highway	
Very Loud		80	Factory, noisy restaurant, vacuum, screaming child	
Loud		70	Car, alarm clock, city traffic	
		60	Conversation, dishwasher	
Botany Mill	Moderate	50	Moderate rainfall	
Range A	Faint	40	Refrigerator	
		30	Whisper, library	
		20	Watch ticking	
		dB levels		



#### **Predicted noise levels at the Botany Mill**

The Botany Mill has modelled the noise levels from the site operations as shown in the diagram above in order to ensure the site is below the noise levels set out by EPA NSW. The modelling demonstrates that noise from the site is below the licenced Noise Level limits.



1891 Botany Road, Matraville NSW 2036 Environmental Hotline (24/7) 1800 072 734



<sup>1.</sup> http://hearingsense.com.au/causes-of-hearing-loss/