

Operational Noise Emission Assessment Bucketty's Brewery 26 Orchard Rd, Brookvale NSW





10 May 2021





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GLOSSARY

NOISE

Noise is produced through rapid variations in air pressure at audible frequencies (20 Hz - 20 kHz). Most noise sources vary with time. The measurement of a variable noise source requires the ability to describe the sound over a particular duration of time. A series of industry standard statistical descriptors have been developed to describe variable noise, as outlined below.

NOISE DESCRIPTORS

dB – Decibels. The fundamental unit of sound, a Bel is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bel. Probably the most common usage of the Decibel in reference to sound loudness is dB sound pressure level (SPL), referenced to the nominal threshold of human hearing. For sound in air and other gases, dB(SPL) is relative to 20 micropascals (μ Pa) = 2×10⁻⁵ Pa, the quietest sound a human can hear.

 L_{Aeq} – The A-weighted sound pressure level averaged over the measurement period. It can be considered as the equivalent continuous steady-state sound pressure level, which would have the same total acoustic energy as the real fluctuating noise over the same time period. Measured in dB.

 L_{Amax} – The maximum or peak A-weighted noise level that occurs over the measurement period. Measured in dB.

Indoor Design Level – The recommended maximum level in dB(A) inside a building from external noise sources.

A-WEIGHTING

"A-weighting" refers to a prescribed amplitude versus frequency curve used to "weight" noise measurements in order to represent the frequency response of the human ear. Simply, the human ear is less sensitive to noise at some frequencies and more sensitive to noise at other frequencies. The A-weighting is a method to present a measurement or calculation result with a number representing how humans subjectively hear different frequencies at different levels.

NOISE CHARACTER, NOISE LEVEL AND ANNOYANCE

The perception of a given sound to be deemed annoying or acceptable is greatly influenced by the character of the sound and how it contrasts with the character of the background noise. A noise source may be measured to have only a marginal difference to the background noise level, but may be perceived as annoying due to the character of the noise.

Acoustic Dynamics' analysis of noise considers both the noise level and sound character in the assessment of annoyance and impact on amenity.



1 INTRODUCTION

1.1 SUMMARY & BACKGROUND INFORMATION

Acoustic Dynamics is engaged by **Bucketty's Brewery** to assess the impact of noise emission at nearby receiver locations resulting from the proposed changes to operating hours and increase in patrons of the tasting room at 26 Orchard Road, Brookvale NSW.

Table 1.1 provides the existing and proposed hours of operation for the various aspects of the development:

	Days of Week / Hours of Operation							
Use / Area	Existing	Proposed						
	Industrial Use							
Brewery	6am to 6pm [Monday to Friday]	Unchanged						
Loading of trucks/ deliveries	7am to 10am [Monday to Friday]	Unchanged						
Ancillary Use								
Tasting Room	4pm to Midnight [Monday to Friday] & 11am to Midnight [Saturday & Sunday]	4pm to Midnight Monday to Wednesday & Midday to Midnight [Thursday & Friday] & 11am to Midnight [Saturday & Sunday						
Takeaway Sales	Midday to Midnight [Monday to Friday] & 11am to Midnight [Saturday & Sunday]	Unchanged						

Table 1.1 Existing and Proposed Hours of Operation

The proponent seeks to increase capacity in the Tasting Room from 100 patrons (current DA) to 200 patrons.

Accordingly, an assessment of the predicted noise emission levels against the acoustic requirements of relevant authorities have been undertaken for the operations of the brewery. This assessment is based on the inspections and noise measurements undertaken by Acoustic Dynamics at the subject site. As a part of this assessment, recommendations are provided to enable compliance with the relevant noise emission criteria.

This document provides an assessment of the measured noise emission associated with the use and operation of the venue when assessed at nearby receivers and is prepared in



accordance with acoustic requirements of the Northern Beaches Council, the NSW Environment Protection Authority (EPA), the NSW Office of Liquor and Gaming (OLG) and other relevant Australian Standards.

1.2 LOCATION & DESCRIPTION OF COMMERCIAL PREMISES

The subject brewery is located at 26 Orchard Rd, Brookvale NSW. Acoustic Dynamics understands that the subject site is zoned IN1 General Industrial. The subject site includes a small outdoor area for patrons.

The nearest receivers have been identified as:

- Residential receivers on Wattle Rd, approximately 200m to the south; and
- Commercial receiver next door at Dulux Trade Centre, 28-30 Orchard Road,

The site is shown in the location map and aerial photo presented within Appendix A.

1.3 SCOPE

Acoustic Dynamics has been engaged to provide a noise assessment of the subject development. A summary of the scope is provided below:

- Review of criteria from Council, NSW EPA, OLG, and other relevant documents relating to acoustics;
- Utilise recently collected unattended noise monitoring data to determine existing noise emission levels;
- Establish relevant project specific noise emission criteria; and
- Conduct modelling to determine noise emission levels from the proposed extension of trading hours.

2 RELEVANT ACOUSTIC CRITERIA AND STANDARDS

Responsibility for the control of noise emission at the subject site is vested in Local Council. Guidelines for the assessment of noise emission from a licensed premise is contained within the NSW Office of Liquor and Gaming conditions and NSW EPA's Noise Policy for Industry (NPfI). In addition to these guidelines, some Councils have specific noise criteria, against which, certain noise sources must be assessed.

2.1 NORTHERN BEACHES COUNCIL REQUIREMENTS

Acoustic Dynamics understands that the newly created Northern Beaches Council is temporarily maintaining the previous planning controls for the given areas. The relevant area for the subject site is Warringah.



2.1.1 LOCAL ENVIRONMENT PLAN

A review of the Warringah *Local Environment Plan (LEP) 2011* was conducted. No relevant acoustic requirements and relevant noise criteria were presented within the LEP.

2.1.2 DEVELOPMENT CONTROL PLANS

A review of the Warringah *Development Control Plan (DCP) 2011* was conducted. The following acoustic requirements and relevant noise criteria were found to be relevant to the subject development:

"D3 Noise

Requirements

- Noise from combined operation of all mechanical plant and equipment must not generate Noise levels that exceed the ambient background Noise by more than 5dB(A) when measured in accordance with the NSW Industrial Noise Policy at the receiving boundary of residential and other Noise sensitive land uses. See also NSW Industrial Noise Policy Appendices
- 2. Development near existing Noise generating activities, such as industry and roads, is to be designed to mitigate the effect of that Noise.
- 3. Waste collection and delivery vehicles are not to operate in the vicinity of residential uses between 10pm and 6am.
- 4. Where possible, locate Noise sensitive rooms such as bedrooms and private open space away from Noise sources. For example, locate kitchens or service areas closer to busy road frontages and bedrooms away from road frontages.
- 5. Where possible, locate noise sources away from the bedroom areas of adjoining dwellings/properties to minimise impact."

Council can enforce the above planning controls under the Environmental Planning and Assessment Act of 1979.

2.2 NSW ENVIRONMENT PROTECTION AUTHORITY (EPA)

2.2.1 PROTECTION OF THE ENVIRONMENT OPERATIONS (POEO) ACT

We advise that noise emission from the brewery must also comply with the requirements of the relevant legislation, being the *Protection of the Environment Operations* (POEO) *Act 1997*. The POEO Act 1997 requires that the subject plant and equipment must not generate "offensive noise". Offensive noise is defined as follows:

""offensive noise" means noise:



- (a) that, by reason of its level, nature, character or quality, or the time at which it is made, or any other circumstances:
 - (i) is harmful to (or is likely to be harmful to) a person who is outside the premises from which it is emitted, or
 - (ii) interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted, or
- (b) that is of a level, nature, character or quality prescribed by the regulations or that is made at a time, or in other circumstances, prescribed by the regulations."

Council can enforce the above planning controls under the Environmental Planning and Assessment Act of 1979.

2.2.2 NOISE POLICY FOR INDUSTRY (2017)

Acoustic Dynamics advises that noise emission assessment at nearby and adjacent noise sensitive receivers has been conducted with reference to the NSW EPA's Noise Policy for Industry (NPfI, 2017), and has yielded the following information.

Project Intrusiveness Noise Level

L _{Aeq, 15min} = rating background noise level + 5 dB						
where:						
LAeq, 15min	represents the equivalent continuous (energy average) A- weighted sound pressure level of the source over 15 minutes.					
and						
Rating background noise level	represents the background level to be used for assessment purposes, as determined by the method outlined in Fact Sheets A and B.					

The intrusiveness noise level is determined as follows:

Project Amenity Noise Level

The recommended amenity noise levels represent the objective for **total** industrial noise at a receiver location, whereas the **project amenity noise level** represents the objective for a noise from a **single** industrial development at a receiver location.

To ensure that industrial noise levels (existing plus new) remain within the recommended amenity noise levels for an area, a project amenity noise level applies for each new source of industrial noise as follows:

Project amenity noise level for industrial developments = recommended amenity noise level (Table 2.2) minus 5 dB(A)

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ACOUSTIC DYNAMICS - EXCELLENCE IN ACOUSTICS



The *Project Noise Trigger Level* is the lowest value of Project Intrusiveness Noise Level or Project Amenity Noise Level after conversion to L_{Aeq} equivalent value.

To determine the appropriate intrusive noise emission criteria in accordance with the assessment guidelines of the NPfI, Acoustic Dynamics has utilised unattended noise logger data collected proximal to the subject site (monitoring location: 45 Mitchell Rd) between Wednesday 4 December and Wednesday 11 December 2019. The results are summarised below in **Table 2.1**.

The prevailing weather conditions during the short-term operator attended noise monitoring were generally calm and did not influence the noise measurements taken.

Assessment Period	L _{A90} Rating Background Noise Level (RBL) [dB]	Measured L _{Aeq} [dB]	Project Intrusiveness Noise Level L _{Aeq} [dB]	Project Amenity Noise Level L _{Aeq} [dB]	Project Noise Trigger Level L _{Aeq} [dB]
Morning Shoulder 6am – 7am	45	61	50	-	50
Day 7am – 6pm	50	62	55	58	55
Evening 6pm – 10pm	41	58	46	48	46
Night Shoulder 10pm – 12am	37	52	42	-	42

Table 2.1 Measured Noise Levels and Project Noise Objectives – Surrounding Area

Note: 1) Amenity adjustment based on "Industrial Interface - Suburban" receiver type. The noise emission objective has been modified in accordance with the recommendations detailed within the NPfI Section 2.2, for time period standardising of the intrusiveness and amenity noise levels (LAeq,15min will be taken to be equal to the LAeq,period + 3 dB.

2) Acoustic Dynamics advises that by achieving compliance with the more stringent night time criteria, compliance will also be achieved with the less stringent daytime and evening criteria.

The following criterion has been determined from the NPfI for neighbouring commercial premises:

• $L_{Aeq,15min} = 63 \text{ dB}(A)$

The EPA's NPfI specifies additional noise emission level corrections that should be applied when a noise source is determined to include "modifying factors" that can vary the perceived intrusiveness of a noise source. Such modifying factors include tonal, low frequency, or intermittent noise.



2.3 NSW OFFICE OF LIQUOR AND GAMING (OLG)

Prior to the *Liquor Act 2007* being gazetted by the NSW State Parliament, and establishment of the *Liquor Regulation 2008*, noise emission from licensed premises had to comply with the Office of Liquor and Gaming noise emission criteria, detailed below. Acoustic Dynamics advises that many NSW liquor licenses still specify the following noise emission criteria:

The OLG conditions required that:

"The L_{A10} noise emitted from the licensed premises shall not exceed the background noise level in any octave band frequency (31.5 Hz to 8 kHz inclusive) by more than 5 dB(A) between 7.00am and midnight at the boundary at any affected residence.

The L_{A10} noise level emitted from the licensed premises shall not exceed the background noise in any octave band centre frequency (31.5 Hz to 8 kHz inclusive) between midnight and 7.00am at the boundary of any affected residence.

Notwithstanding compliance of the above, noise from the licensed premises shall not be audible in any habitable room in any residential premises between the hours of midnight and 7.00am."

To determine the appropriate intrusive noise emission criteria in accordance with the assessment guidelines of the OLG, Acoustic Dynamics has utilised unattended noise monitoring data as described in **Section 2.2**.

Note is made that in accordance with the NSW Office of Liquor and Gaming (OLG) noise emission requirements, an octave band L_{A90} external background noise level has also been determined, and is presented in **Table 2.2**.

Location	Assessment	Method for	L _{A90} + 5 dB Rating Background Noise Level (Octave Band Centre Frequencies in Hz)									
Location	Period	of Criteria	32	63	125	250	500	1K	2K	4K	8K	O/A
Residential Receivers [External]	Morning Shoulder 6am – 7am	L _{A10} ≤ RBL	15	28	31	33	37	40	38	31	18	45
	Day 7am – 6pm	L _{A10} ≤ RBL + 5 dB	24	37	40	43	46	49	47	41	28	53
	Evening 6pm – 10pm		16	28	32	35	38	41	36	27	23	45
	Night-time shoulder 10pm – 12am	L _{A10} ≤ RBL	6	19	23	26	30	33	28	19	18	37

Table 2.2 Summary of Adjusted Background L	_A90 Octave Band Noise Level
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3 NOISE MEASUREMENT EQUIPMENT & STANDARDS

All measurements were conducted in general accordance with Australian Standard 1055.1-1997, "Acoustics - Description and Measurement of Environmental Noise Part 1: General Procedures". Acoustic Dynamics' sound measurements were carried out using precision sound level meters conforming to the requirements of IEC 61672-2002 "Electroacoustics: Sound Level Meters – Part 1: Specifications". The survey instrumentation used during the survey is set out in **Table 3.1**.

Туре	Serial Number	Instrument Description
2270	2664115	Brüel & Kjaer Modular Precision Sound Level Meter
4189	2670479	Brüel & Kjaer 12.5 mm Prepolarised Condenser Microphone
4231	782154	Brüel & Kjaer Acoustic Calibrator
XL2	A2A-05048-E0	NTi XL2 Type 1 Environmental Noise Logger

Table 3.1 Noise Survey Instrumentation

The reference sound pressure level was checked prior to and after the measurements using the acoustic calibrator with negligible drift.

4 NOISE EMISSION LEVELS & ASSESSMENT

4.1 NOISE EMISSION ASSESSMENT

Acoustic Dynamics advises that the L_{A10} noise emission levels from the operation of proposed brewery have been determined using Acoustic Dynamics' noise emission measurements of a similar use occupancy from 2019. Noise emission in the morning shoulder period includes truck deliveries. The noise emission from Tasting Room operations include patron noise, music and patron ingress/egress. Acoustic Dynamics understands that live music will be programmed at times, which has been incorporated into the noise modelling and calculations.

The following section provides an assessment of the noise emission associated with the proposed brewery against the various noise criteria and objectives outlined in **Section 2** above. Accordingly, Acoustic Dynamics has undertaken calculations and modelling to assess compliance.

The maximum noise emission levels determined at the nearest residential receivers, resulting from the operation of the brewery, are presented against the most stringent noise criteria in **Table 4.1** and **Table 4.2** below.



Location	Method of Determination of Criteria &	L _{A10, 15minute} Noise Criteria / Emission [dB] Octave Band Centre Frequency [Hz]									
	Noise Descriptors	32	63	125	250	500	1K	2K	4K	8K	A/P
Deliveries and Brewery Operations – Morning Shoulder Period (6am to 7am) ^{1,2}											
Residential Receivers (External)	L _{A10} ≤ RBL	15	28	31	33	37	40	38	31	18	45
	Determined Maximum L _{A10} Emission Levels [dB(A)]	-1	20	24	22	25	38	30	23	14	40
	Exceedance [dB]	0	0	0	0	0	0	0	0	0	0
Tasting	Room Operations (including liv	e mus	sic) — I	Night	Shoul	der Po	eriod	(10pm	to 12	am) ^{1,2}	2
	L _{A10} ≤ RBL	6	19	23	26	30	33	28	19	18	37
Residential Receivers (External)	Determined Maximum L _{A10} Emission Levels [dB(A)]	5	12	19	22	30	32	28	19	8	37
	Exceedance [dB]	0	0	0	0	0	0	0	0	0	0

Table 4.1 NSW OLG Criteria & External Octave Band Noise Emission at Nearest Residential Receivers

Note 1) Acoustic Dynamics advises that by achieving compliance with the more stringent shoulder criteria, compliance will also be achieved with the less stringent criteria at other times.

2) The proposed brewery will not operate between the hours of 12:00am and 6:00 am.

Table 4.2 NSW EPA's NPfl Criteria & Noise Emission at Nearest Sensitive Receivers

Receiver Location	Activity / Noise Source	Relevant Assessment Period ^{1,2}	Determined L _{Aeq} Noise Level [dB]	Project Noise Trigger Level L _{Aeq} [dB]	Complies?
Residential	Deliveries	Morning Shoulder 6am – 7am	37	50	Yes
Receivers (Wattle Road)	Tasting Room (includes live music)	Evening Shoulder 10pm – 12am	37	42	Yes
Commercial Receivers (28-30 Orchard Rd)	All Operations	Day 7am – 6pm	61	63	Yes

Note 1) Acoustic Dynamics advises that by achieving compliance with the more stringent shoulder criteria, compliance will also be achieved with the less stringent criteria at other times.

2) The proposed brewery will not operate between the hours of 12:00am and 6:00 am.

The determined external L_{A10} and external L_{Aeq} levels are compliant with criteria set out in the office of Liquor and Gaming and the EPA Noise Policy for Industry (NPfI 2017).



4.2 SLEEP DISTURBANCE ASSESSMENT

Acoustic Dynamics has calculated the maximum noise emission from the proposed use and operation of the brewery from patron activities, including car start-ups and door slams, at the nearest potential residential receivers. The noise levels are predicted to be very low, given the nearest resident is over 200m distance from the site, and the majority of car access to/from the site will pass through the industrial area to Pittwater Road.

We advise that the calculated L_{A1} noise emission from the use of the and operation of the subject brewery achieves compliance with the EPA's sleep disturbance screening criterion during night-time hours of $L_{A1(60sec)} \leq 52 \text{ dB}$ at the nearest residential receivers to the proposed brewery, as presented in **Table 4.3** below.

Additionally, it is advised that by achieving compliance with the nearest residential receiver locations, compliance is also achieved at all other residential receiver locations further away.

Receiver Location	Noise Source	Maximum L _{A1(60 Sec)} Noise Emission Level [dB]	EPA's Sleep Disturbance Screening Criterion	Complies With Criterion?
Residential	Patrons exiting			
Receivers at	premises, car start-	36	52	Yes
Wattle Road	ups, door slams			

Table 4.3 NSW EPA's Criterion & Maximum LA1(60 Sec) Noise Emission Levels at Nearby Receivers

5 **DISCUSSION**

The measured and calculated noise levels presented in **Table 4.1** and **Table 4.2** above indicate:

- Acoustic Dynamics has determined the maximum L_{A10 (15 minute)} noise emission levels of the operations of the proposed brewery to be 37 dB at the nearest residential receiver. This all-pass L_{A10} level **achieves compliance** with the NSW EPA's Noise Policy for Industry and the NSW OLG. The octave band L_{A10} spectral data **achieves compliance** with the NSW OLG;
- Acoustic Dynamics advise that the calculated L_{Aeq} noise emission levels achieves compliance with the external noise emission objectives of the NSW EPA's Noise Policy for Industry at nearby residential and commercial receivers; and
- Acoustic Dynamics advises that potential maximum L_{A1(60 Sec)} noise emission associated with the proposed operations of the proposed brewery **achieves compliance** with the NSW EPA's sleep disturbance screening criterion.



6 **RECOMMENDATIONS & ADVICE**

Acoustic Dynamics' analysis and prediction calculations indicate the subject brewery achieves compliance with the relevant noise emission criteria, however, Acoustic Dynamics recommends the incorporation of the following management plan to protect the acoustic amenity of the surrounding area.

6.1 MANAGEMENT PLAN

The following management plan outlines procedures to ensure noise emission from activities associated with the proposed brewery are kept to a minimum, including:

- 1. Ensuring patrons leave the premises in a quiet manner to minimise any potential impacts on the surrounding amenity, including signage reminding patrons to be aware of their neighbours and to leave in a quiet manner, via Pittwater Road if possible;
- 2. Noise generating activities such as placing empty glass bottles in bottles bins are conducted during the day time hours only;
- 3. Amplified music (including live music) should not exceed a maximum reverberant noise level of **90 dB(A)** within the bar service area;
- 4. Although not necessary for compliance, should the proponent wish to further improve the acoustic amenity of the area, the roller shutter at the south of the premises could be partially lowered during evening hours;
- 5. Mechanical equipment should be regularly maintained and serviced to maintain low mechanical noise emission levels; and
- 6. At the cessation of trade, staff and security should actively discourage loitering near the venue to minimise any potential impacts on the surrounding amenity.

7 CONCLUSION AND ACOUSTIC OPINION

Acoustic Dynamics has conducted an acoustic assessment of the noise emission resulting from the proposed change of hours and increased patronage from the tasting room use and operation of Bucketty's Brewery located at 26 Orchard Road, Brookvale, NSW.

Acoustic Opinion

Further to the noise monitoring and measurements conducted, our review of the relevant acoustic criteria, requirements and our calculations, the proposed operation is compliant with relevant noise emission criteria of the Northern Beaches Council, NSW EPA, the POEO Act 1997, and the OLG for the proposed hours of operation.

We trust that the above information meets with your requirements and expectations. Please do not hesitate to contact us on 02 9908 1270 should you require more information.



APPENDIX A – LOCATION MAP & AERIAL PHOTO

A.1 LOCATION MAP



A.2 AERIAL PHOTO





A.3 DRAWINGS











Proposed Elevations

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Proposed Section Views



APPENDIX B – UNATTENDED NOISE LOGGER DATA



Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Thursday 5 December 2019







Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Friday 6 December 2019

Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Saturday 7 December 2019







Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Sunday 8 December 2019

Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Monday 9 December 2019







Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Tuesday 10 December 2019

Statistical Ambient Noise Levels 45 Mitchell Rd Brookvale - Wednesday 11 December 2019

