



KLF HOLDINGS PTY LTD
CAMELLIA RECYCLING FACILITY
NOISE COMPLIANCE REPORT - QUARTER 1 2025

31 MARCH 2025

KLF Holdings Pty Ltd
Camellia Recycling Facility
Noise Compliance Report - Quarter 1 2025

REVISIONS

Revision	Date	Prepared by	Reviewed by	Revision Comments
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1 INTRODUCTION

1.1 Overview

KLF Holdings Pty Ltd (KLF) operate the Camellia Waste Recycling Facility (the site) under the Environmental Protection Licence (EPL) 12700. The site is located at 16 Grand Avenue, Camellia, NSW.

The facility is generally allowed to operate 24 hours a day, seven days a week (Monday to Sunday), except where operation activities are restricted by conditions L4.2 to L4.8 of the EPL. Despite the 24-hour operation approval, the actual hours the site operates are from 05:00am to 04:30pm. The activities conducted at the site during these operating hours are subject to limitations defined in conditions L4.2 to L4.8 of EPL 12700.

The noise monitoring purpose was to quantify the acoustic environment and compare site noise levels against limits specified in condition L3 of EPL 12700.

Attended environmental noise monitoring, as outlined in this report, was conducted in general accordance with Conditions L3 of the EPL. The monitoring took place during both the night and day periods of March 25th and 26th at three representative receiver locations. Monitoring results are provided in section 4 of this report.

1.2 Attended monitoring locations

Site monitoring locations are detailed in Table 1-1 and shown on Figure 1-1. It should be noted that Figure 1-1 shows actual monitoring positions, not necessarily the location of residences.

Table 1-1: Attended noise monitoring locations

Monitoring Location	Location	GDA94/MGA56	
		Easting	Northing
A1	530 John Street, Rydalmere	319369	6255948
A2	45 John Street, Rydalmere	319319	6256051
A3	24 Milton Street, Rydalmere	319230	6256149

1.3 Monitoring Period

Condition L 3.3 of EPL 12700 requires noise monitoring to be undertaken during the following periods

- Day means the period from 7am to 6pm Monday to Saturday and the period from 8am to 6pm Sunday and public holidays.
- Evening means the period from 6pm to 10pm.
- Night means the period from 10pm to 7am Monday to Saturday and the period from 10pm to 8am Sunday and public holidays.

Despite the 24-hour operation approval, the site operates from 05:00am to 04:30pm and attended noise monitoring has been conducted during the night and day periods only.





Figure 1-1: Site and noise monitoring location



2 NOISE LIMITS

2.1 Environmental Protection Licence

The quarterly monitoring is a requirement as detailed in EPL 12700 dated 29 July 2021. Noise assessment criteria for the site are provided in EPL 12700, condition L3.1. These are specified for all periods at locations which are representative of residences potentially most impacted by site noise. Pages from the site's EPL pertaining to noise are shown in Appendix A. Appendix B provides further information that gives an indication as to how an average person perceives changes in noise level, and examples of common noise levels.

2.2 Noise limits

Noise impact limits from condition L3.1 of EPL 12700 are provided in Table 2-1.

Table 2-1: Noise Limits

Monitoring Location Description	ID	Monitoring Frequency	Day	Evening	Night	Night
			L _{Aeq,15minute}	L _{Aeq,15minute}	L _{Aeq,15minute}	L _A F _{max}
523-530 John Street Rydalmere	A1	Quarterly	50	48	43	59
28 & 30 Sylvia Street Rydalmere, 33 Nowill Street Rydalmere	-	Quarterly	50	48	43	59
37-45 John Street Rydalmere	A2	Quarterly	50	48	43	59
22 & 24 Milton Street Rydalmere, 33 & 35 John Street Rydalmere	A3	Quarterly	50	48	43	59

2.3 Meteorological conditions

Condition L3.2 of the EPL states the meteorological conditions which the noise limits apply under:

- The noise limits set out in condition L3.1 apply under the meteorological conditions listed in table below.
- For those meteorological conditions not referred to in condition L3.2(a) table, the noise limits that apply are the noise limits in condition L3.1 table plus 5dB.

The table from Condition L3.2 is reproduced in Table 2-2 below.

Table 2-2: Applicable meteorological conditions

Assessment period	Measurement Parameter
Day	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level
Evening	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level
Night	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level; or Stability category E and F with wind speeds up to and including 2m/s at 10m above ground level.

Condition L3.4 specifies the source of meteorological data to be used and method for determining stability categories:

L3.4 For the purpose of condition L3.2:

- a) The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Sydney Olympic Park, NSW (Station no 066212).
- b) Stability category shall be determined using the following method from Fact Sheet D of the Noise Policy for Industry (NSW EPA, 2017):
 - i. Use of sigma-theta data (section D1.4).

2.4 Other considerations

Monitoring and reporting have been done in accordance with the NSW EPA 'Noise Policy for Industry' (NPfI) issued in October 2017 and the 'Approved methods for the measurement and analysis of environmental noise in NSW' (Approved Methods) issued in January 2022.

3 METHODOLOGY

3.1 Overview

Attended environmental noise monitoring was done in general accordance with Australian Standard AS1055 'Acoustics, Description and Measurement of Environmental Noise' and relevant NSW requirements.

Meteorological data was obtained from the Sydney Olympic Park automatic weather station (AWS) (station ID 066212) which allowed correlation of atmospheric parameters during measured noise levels. Extracted sections of the weather data are reproduced in Table 4-2.

3.2 Attended noise monitoring

Attended noise monitoring was conducted during both night and day periods at each location specified in Table 2-1 of this report. The duration of each measurement was 15 minutes. Measured sound levels from various sources were noted during each measurement and particular attention was paid to the extent of site's contribution (if any) to measured levels. At each monitoring location, the site-only $L_{Aeq,15\text{minute}}$ and L_{max} were measured directly or determined by other methods detailed in Section 7.1 of the NPfI.

If exact noise levels from site could not be established due to masking by other noise sources in a similar frequency range but were determined to be at least 5 dB lower than relevant limits, then a maximum estimate of site may be provided. This is expressed as a 'less than' quantity, such as <20 dB or <30 dB.

All monitoring results noted in this report were due to one or more of the following:

- Site noise levels generated by recycling facility were very low.
- Site noise levels were masked by more dominant sources that are characteristic of the environment (such as birdsongs, community activities in the local park or continuous road traffic noise) that cannot be eliminated by monitoring at an alternate or intermediate location.
- It was not feasible or reasonable to employ methods, such as to move closer and back calculate. Cases may include rough terrain preventing closer measurement, addition/removal of significant source to receiver shielding caused by moving closer, and meteorological conditions where back calculation conditions may not be representative.

3.3 Modifying factors

All measurements were evaluated for potential modifying factors in accordance with the NPfI. Assessment of modifying factors is undertaken at the time of measurement if the site was audible and directly quantifiable. If applicable, modifying factor penalties have been reported and added to measured site-only L_{Aeq} .

Low-frequency modifying factor penalties have only been applied to site-only L_{Aeq} levels if the site was the only contributing low-frequency noise source. Specific methodology for assessment of each modifying factor is outlined in Fact Sheet C of the NPfI.

3.4 Instrumentation

Equipment used to measure environmental noise levels is detailed in Table 3-1. Calibration of all instrumentation was checked prior to and following measurements. Drift in calibration did not exceed $\pm 0.5\text{dB}$. Calibration certificates are provided in Appendix C.

Table 3-1: Measurement equipment

Item	Serial Number	Date of Calibration
Acoustic Calibrator Svantek, SV 33B	122338	05/02/2025
Sound Level Meter Svantek, SVAN 971	74364	10/04/2025

4 RESULTS

4.1 Total measured noise levels

Total noise levels measured during each 15-minute attended measurement are provided in Table 4-1. Levels in this table are not necessarily the result of activity at site.

During the monitoring period, site operations were audible during all attended measurements, including the constant debris movement, bucket impacts, and the hum of operations.

Additional sounds included local traffic acceleration, birdsong, insect noises, distant and constant traffic, community activities in the park and other non-site-related industrial activities in the area.

Table 4-1: Total measured noise levels

Monitoring Location	Start time and Date	L _{Amax} , dB	L _{Aeq} , dB	L _{Amin} , dB	L ₉₀ , dB	Notes
A1	25/03/2025, 05:18	56.1	49.9	47.7	48.0	Site audible.
A1	25/03/2025, 05:33	68.2	50.0	45.7	47.1	L _{Amax} , dB(A) of 53.5 dB was recorded, which relates to the site operation.
A2	25/03/2025, 06:01	66.1	52.7	48.4	50.1	Site audible. Birds 57-63dB. Operation noise 49-51 dB.
A3	25/03/2025, 06:22	62.9	54.4	48.4	57.1	L _{Amax} , dB(A) of 55 dB was recorded, which relates to the site operation.
A1	25/03/2025, 07:19	68.0	55.0	48.4	50.3	Site audible.
A1	25/03/2025, 07:36	64.1	53.3	48.7	50.1	Traffic peaks 51-68 dB, Ferry 55 dB, Birds 53-60dB.
A2	25/03/2025, 08:59	68.8	53.5	48.1	50.3	
A2	25/03/2025, 09:15	75.7	55.7	42.7	49.2	Site audible.
A3	25/03/2025, 08:22	74.2	53.2	47.9	49.3	Traffic peaks 61-78 dB, Birds 43-63dB,
A3	25/03/2025, 08:40	76.0	54.5	47.1	49.2	Residential Noise 50-68 dB.
A1	26/03/2025, 05:53	70.0	49.5	44.6	46.4	L _{Amax} , dB(A) of 54.6 dB was recorded, which relates to the site operation.
A1	26/03/2025, 06:09	71.2	50.5	45.5	47.1	L _{Amax} , dB(A) of 64.8 dB was recorded, which relates to the site operation.
A2	26/03/2025, 05:33	70.8	52.1	47.1	49.6	L _{Amax} , dB(A) of 58.3 dB was recorded, which relates to the site operation.
A3	26/03/2025, 06:30	79.2	57.4	47.0	48.1	L _{Amax} , dB(A) of 55.9 dB was recorded, which relates to the site operation.
A1	26/03/2025, 07:14	81.1	55.5	50.3	51.7	Site audible.
A1	26/03/2025, 07:31	68.4	53.3	48.1	49.5	Traffic peaks 61-77 dB, Ferry 56 dB, Aircraft 64 dB, Birds 43-63 dB,
A2	26/03/2025, 07:50	70.9	55.1	47.3	49.0	Residential Noise 50-79 dB.
A2	26/03/2025, 08:06	79.1	57.7	46.6	48.0	
A3	26/03/2025, 09:17	74.5	58.1	45.3	46.8	Site audible.
A3	26/03/2025, 09:34	54.3	49.5	47.1	47.6	Traffic 61-73 dB, Birds 43-60 dB,

4.2 Atmospheric conditions

As required by condition L3.4 of the EPL, meteorological data was obtained from the Sydney Olympic Park AWS (station ID 066212) which allowed correlation of atmospheric parameters with measured site noise levels.

Attended noise monitoring is not done during rain, hail, or wind speeds above 5 m/s at microphone height.

Meteorological conditions recorded by Sydney Olympic Park AWS on 25/03/2025 and 26/03/2025 are provided in Table 4-2 below.

Table 4-2: Meteorological conditions (Station ID 066212)

Monitoring Location	Time and Date	Temperature, °C	Wind Speed, km/h ¹	Wind Speed, m/s	Wind Direction
A1	25/03/2025, 05:18	20.4	0	0	-
A1	25/03/2025, 05:30	20.4	0	0	-
A2	25/03/2025, 06:00	20.5	0	0	-
A3	25/03/2025, 06:30	20.3	0	0	-
A1	25/03/2025, 07:00	20.2	0	0	-
A1	25/03/2025, 07:30	20.2	0	0	-
A2	25/03/2025, 09:00	21.1	0	0	-
A2	25/03/2025, 09:00	21.1	0	0	-
A3	25/03/2025, 08:30	20.9	0	0	-
A3	25/03/2025, 09:30	21.6	2	0.5	NW
A1	26/03/2025, 05:30	20.2	0	0	-
A1	26/03/2025, 06:09	20.0	0	0	-
A2	26/03/2025, 05:30	20.2	0	0	-
A3	26/03/2025, 06:30	19.8	0	0	-
A1	26/03/2025, 07:14	19.5	0	0	-
A1	26/03/2025, 07:32	19.5	0	0	-
A2	26/03/2025, 08:15	19.9	0	0	-
A2	26/03/2025, 08:35	20.6	6	1.6	NW
A3	26/03/2025, 09:00	21.1	6	1.6	
A3	26/03/2025, 09:30	21.5	6	1.6	

Note: 1. Wind speed of 0.5 m/s and 0 m/s indicated calm conditions at monitoring location.

4.3 Compliance Assessment

4.3.1 Monitoring results

Table 4.3 provides site noise levels in the absence of other sources, where possible, and includes weather data from the Sydney Olympic Park AWS. Noise enhancing limits are applicable if weather conditions were within specified parameters during each measurement, otherwise the NPfI's 'very noise enhancing' limits apply (ie noise enhancing plus 5dB).

Attended noise monitoring results are summarised in Table 4-3. The weather data confirmed that EPL standard meteorological conditions (Condition L3.4) were exceeded during all attended measurements, except the three conducted on 25 March 2025. In accordance with the EPL, noise limits for those periods were those listed in Condition L3.1 plus 5 dB (A). Average wind speed and stability category present during each 15-minute attended measurement are provided in Table 4-3 below.

Table 4-3: Site monitoring results and limits

Monitoring Location	Start time and Date	Wind Speed, m/s ²	Stability Category	Noise enhancing limits apply ¹	EPL Limits, dB ¹		Site Noise levels, dB		Exceedances, dB ³	
					L _{Aeq} , 15 minutes	L _{Amax}	L _{Aeq} , 15 minutes	L _{Amax}	L _{Aeq} , 15 minutes	L _{Amax}
A1	25/03/2025, 05:18	0	G	Y	48	64	44.9	56.1	Nil	Nil
A1	25/03/2025, 05:33	0	G	Y	48	64	45.0	53.5	Nil	Nil
A2	25/03/2025, 06:01	0	G	Y	48	64	44.7	51.0	Nil	Nil
A3	25/03/2025, 06:22	0	G	Y	48	64	47.8	55.0	Nil	Nil
A1	25/03/2025, 07:19	0	F	Y	55	N/A	50.0	N/A	Nil	N/A
A1	25/03/2025, 07:36	0	F	Y	55	N/A	48.3	N/A	Nil	N/A
A2	25/03/2025, 08:59	0	F	Y	55	N/A	48.5	N/A	Nil	N/A
A2	25/03/2025, 09:15	0	F	Y	55	N/A	50.7	N/A	Nil	N/A
A3	25/03/2025, 08:22	0	F	Y	55	N/A	48.2	N/A	Nil	N/A
A3	25/03/2025, 08:40	0.5	F	Y	55	N/A	49.5	N/A	Nil	N/A
A1	26/03/2025, 05:53	0	G	Y	48	64	44.5	54.6	Nil	Nil
A1	26/03/2025, 06:09	0	G	Y	48	64	45.5	64.8	Nil	Nil
A2	26/03/2025, 05:33	0	G	Y	48	64	45.1	58.3	Nil	Nil
A3	26/03/2025, 06:30	0	G	Y	48	64	49.4	55.9	Nil	Nil
A1	26/03/2025, 07:14	0	F	Y	55	N/A	50.5	N/A	Nil	N/A
A1	26/03/2025, 07:31	0	F	Y	55	N/A	48.3	N/A	Nil	N/A
A2	26/03/2025, 07:50	0	F	Y	55	N/A	50.1	N/A	Nil	N/A
A2	26/03/2025, 08:06	1.6	E	N	50	N/A	52.7	N/A	Nil	N/A
A3	26/03/2025, 09:17	1.6	E	N	50	N/A	53.1	N/A	Nil	N/A
A3	26/03/2025, 09:34	1.6	E	N	50	N/A	44.5	N/A	Nil	N/A

- Notes: 1. In accordance with Condition L3.2, where meteorological conditions exceed those specified in Condition L3.1, the EPL limits for these periods are those listed in Condition L3.1 plus 5 dB (A).
2. Wind speed 0 m/s or 0,5 m/s indicates calm conditions.
3. A 1 to 2 dB exceedance is considered by the EPA as negligible in accordance with Section 4.2 of the NPfI (EPA 2017).
4. Site-only L_{Aeq,15minute}, includes modifying factor penalties (NPfI, EPA 2017) if applicable.



4.3.2 Monitoring results discussion

Attended noise monitoring observations and results conducted between Tuesday, 25th March, and Wednesday, 26th March 2025, indicated that site activities were audible during most of the attended measurements. The contributions to the noise were generally dominated by road noise, bird sounds, and activities in the local park. Other sources of noise, occasionally audible, included mechanical plant noise, as well as aircraft and helicopter noise.

A 1- or 2-dB exceedance of an EPL L_{Aeq} criterion was measured during monitoring. With all feasible and reasonable measures adopted, a 1 to 2 dB exceedance is considered by the EPA as negligible in accordance with Section 4.2 of the NPfI (EPA 2017). Maximum L_{Amax} noise events measured from the site were compliant with the EPL L_{Amax} noise limits at all samples captured at residences.

The current monitoring results show a consistent trend with previous monitoring rounds, indicating no significant changes or deviations in the observed parameters.

Noise levels from the site complied with the relevant limits at all monitoring locations during the Q1 2025 monitoring period.



Appendix A – Noise perception and examples Site

Noise levels

Table A-1 gives an indication as to how an average person perceives changes in noise level. Examples of common noise levels are provided in Figure A-1.

Table A-1: Perceived change in noise

Change in sound pressure level, dB(A)	Perceived change in noise
Up to 2	Not perceptible
3	Just perceptible
5	Noticeable difference
10	Twice (or half) as loud
15	Large change
20	Four times (or quarter) as loud

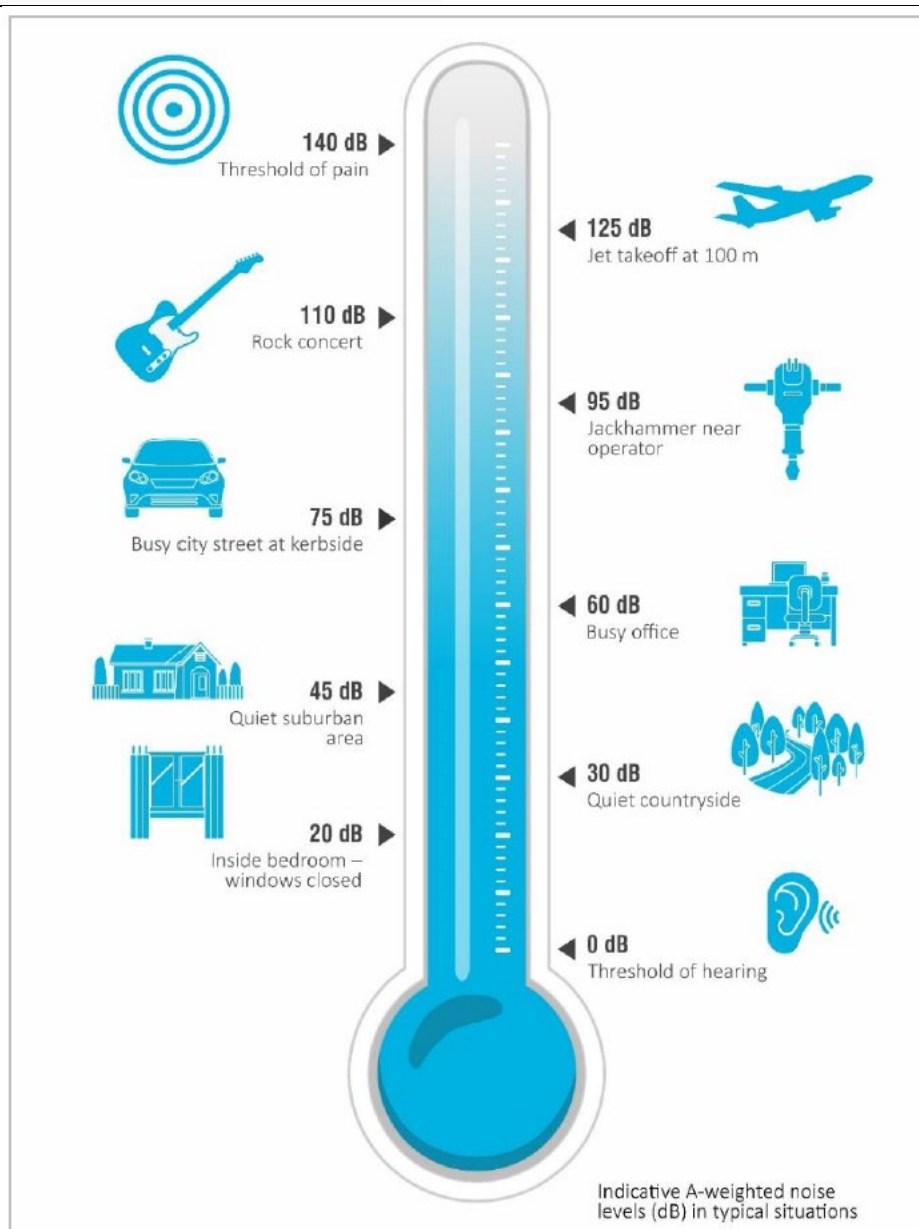


Figure A.1: Common noise levels



Appendix B – Extract of EPL 12700





Environment Protection Licence

Licence - 12700

	the exception of the maximum threshold values for contaminants specified in the 'Other Limits' column	Petroleum Hydrocarbons C6-C9 150mg/kg; Petroleum Hydrocarbons C10-C36 1600mg/kg; Polycyclic aromatic hydrocarbons 80mg/kg; Polychlorinated biphenyls (individual) 1mg/kg. No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises. Soil thresholds will be subject to review from time to time.
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- L2.2 The height of any stockpile of waste or any processed substance must not exceed four (4) metres.
- L2.3 The licensee must install and maintain a visible permanent stockpile marker that shows the permitted height of stockpiles, being four metres.
- L2.4 The authorised amount of waste permitted on the premises cannot exceed 6,500 tonnes at any one time.
- L2.5 Any waste that is not listed in table L2.1, including asbestos waste, that is found after receipt at the premises must be:

(a) stored in an isolated and appropriately sign-posted area;

(b) removed from the premises within one business day of receipt of the non-conforming waste to a place that can lawfully accept that type of waste; and

(c) details (date, amount, type of waste, disposal location, disposal dated) must be logged in a register that is kept at the premises.

L3 Noise limits

- L3.1 Noise generated at the premises must not exceed the noise limits (in dB(A)) at the times and locations in table below.

Location	Day	Evening	Night	Night
-	LAeq(15 minute)	LAeq(15 minute)	LAeq(15 minute)	LAFmax
523-530 John Street Rydalmere	50	48	43	59

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28 & 30 Sylvia Street Rydalmere, 33 Nowill Street Rydalmere	50	48	43	59
37-45 John Street Rydalmere	50	48	43	59
22 & 24 Milton Street Rydalmere, 33 & 35 John Street Rydalmere	50	48	43	59

L3.2 Noise-enhancing meteorological conditions

- The noise limits set out in condition L3.1 apply under the meteorological conditions listed in table below.
- For those meteorological conditions not referred to in condition L3.2(a) table, the noise limits that apply are the noise limits in condition L3.1 table plus 5dB.

Assessment Period	Meteorological Conditions
Day	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level
Evening	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level
Night	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level; or Stability category E and F with wind speeds up to and including 2m/s at 10m above ground level.

L3.3 For the purpose of condition L3.1;

- Day means the period from 7am to 6pm Monday to Saturday and the period from 8am to 6pm Sunday and public holidays.
- Evening means the period from 6pm to 10pm.
- Night means the period from 10pm to 7am Monday to Saturday and the period from 10pm to 8am Sunday and public holidays.

L3.4 For the purposes of condition L3.2:

- The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Sydney Olympic Park, NSW (Station no 066212).
- Stability category shall be determined using the following method from Fact Sheet D of the *Noise Policy for Industry* (NSW EPA, 2017):
 - Use of sigma-theta data (section D1.4).

L3.5 Noise measurements must not be undertaken where rain or wind speed at microphone level will affect the acquisition of valid measurements.

L3.6 To assess compliance:

Environment Protection Licence

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a) with the LAeq(15mins) and LAmax noise limits in condition L3.1 and L3.2, the noise measurement equipment must be located:

- (i) approximately on the property boundary, where any residence is situated 30 metres or less from the property boundary closest to the premises; or where applicable,
- (ii) in an area within 30 metres of a residence façade, but not closer than 3 metres where any residence on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable,
- (iii) in an area within 50 metres of the boundary of a National park or a Nature Reserve,
- (iv) at any other location identified in condition L3.1.

b) with the LAeq(15 minutes) or the LAmax noise limits in condition L3.1 and L3.3, the noise measurement equipment must be located:

- (i) at the reasonably most affected point at a location where there is no residence at the location; or,
- (ii) at the reasonably most affected point within an area at a location prescribed by condition L3.5(a).

L3.7 A non-compliance of conditions L3.1 and L3.2 will still occur where noise generated from the premises is measured in excess of the noise limit at a point other than the reasonably most affected point at the receiver locations referred to in conditions L3.6(a) or L3.6(b).

NOTE to Conditions L3.6 and L3.7. The reasonably most affected point is a point at a receiver location or within an area at a receiver location experiencing or expected to experience the highest sound pressure level from the premises.

L3.8 For the purposes of determining the noise generated from the premises, the modifying factor corrections in Table C1 in Fact Sheet C of the *Noise Policy for Industry* (NSW EPA, 2017) may be applied, if appropriate, to the noise measurements by the noise monitoring equipment.

Note: **Definition of Terms for noise limits**

- Noise Policy for Industry - the document entitled "*Noise Policy for Industry*" published by the NSW Environment Protection Authority in October 2017.
- Noise – 'sound pressure levels' for the purposes of conditions L3.1 to L3.8.
- LAeq (15 minute) - the value of the A-weighted sound pressure level of a continuous steady sound that, over a 15 minute time interval, has the same mean square sound pressure level as a sound under consideration with a level that varies with time (Australian Standard AS 1055:2018 *Acoustics: description and measurement of environmental noise*).
- LAFmax – the maximum sound pressure level of an event measured with a sound level meter satisfying Australian Standard AS IEC 61672.1-2013 *Electroacoustics - Sound level meters - Part 1: Specifications* set to 'A' frequency weighting and fast time weighting.

L4 Hours of operation

L4.1 The hours of operation of the use of the premises is permitted 24 hours per day, Monday to Sunday, except those activities restricted by conditions L4.2 to L4.8.

L4.2 **Truck Movement**

Between 10pm to 7am: A maximum of 8 truck movements per hour are permitted to deposit waste material on the premises.

Appendix C – Calibration Certificates



CERTIFICATE OF CALIBRATION

CERTIFICATE No: **C52685**

EQUIPMENT TESTED : Acoustic Calibrator

Manufacturer: Svantek

Type No: SV 33B

Serial No: 122338

Class: 1

Owner: Acu-Vib Electronics

Unit 14, 22 Hudson Ave.

Castle Hill NSW 2154

Tests Performed: Measured Output Pressure level, Frequency & Distortion
See Details and Class Tolerance overleaf.

Comments:

CONDITION OF TEST:

Ambient Pressure 997 hPa ± 1 hPa

Temperature 24 $^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Relative Humidity 47 % $\pm 5\%$

Date of Receipt : 05/02/2025

Date of Calibration : 05/02/2025

Date of Issue : 12/02/2025

Acu-Vib Test AVP02 (Calibrators)

Procedure: Test Method: AS IEC 60942 - 2017

CHECKED BY:

AUTHORISED

SIGNATURE:


Hein Soe

Accredited for compliance with ISO/IEC 17025 - Calibration

Results of the tests, calibration and/or measurements included in this document are traceable to SI units through reference equipment that has been calibrated by the Australian National Measurement Institute or other NATA accredited laboratories demonstrating traceability.

This report applies only to the item identified in the report and may not be reproduced in part.

The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.


Acu-Vib Electronics
ACOUSTICS AND VIBRATIONS

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WORLD RECOGNISED
ACCREDITATION
Accredited Laboratory
No. 9262
Acoustic and Vibration
Measurements

CERTIFICATE No: C52685

The Calibrator described in this report has been tested to the requirements of the standard IEC 60942-[Ed 4]:2017-11.

The tests described in Annex B of the standard (Periodic tests) were carried out under the environmental conditions listed above to the following clauses:

Clause Test description

B4.6	Sound Pressure Level (By comparison with a reference calibrator).
B4.7	Frequency (By measurement with a calibrated frequency meter).
B4.8	Total distortion and noise. (By measurement with a calibrated Noise and Distortion meter).

Notes:

1. The calibrator was calibrated with the main axis vertical and facing down.
2. No corrections have been made for atmospheric pressure, temperature, or humidity.

Parameter	Pre-Adj	Adj Y/N	Output: (dB re 20 μ Pa)	Frequency (Hz)	THD&N (%)
Level:	NA	N	114.09 dB	1000.00 Hz	0.28 %
Uncertainty			± 0.11 dB	$\pm 0.05\%$	± 0.20 %
Uncertainty (at 95% c.l.) k=2					

Parameter	Class 1		Class 2	
Nominal Frequency	250 Hz	1 kHz	250 Hz	1 kHz
Output dB SPL	0.25 dB	0.25 dB	0.40 dB	0.40 dB
Frequency Hz	0.7 % (1.75 Hz)	0.7 % (7 Hz)	1.7 % (4.25 Hz)	1.7 % (17 Hz)
THD&N	2.5 %	2.5 %	3.0 %	3.0 %

Tolerance limits from AS/IEC60942 (edition 4)

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CERTIFICATE OF CALIBRATION

CERTIFICATE No: **SLM39200**

EQUIPMENT TESTED: Sound Level Meter

Manufacturer: Svantek
Type No: SVAN 971
Mic. Type: ACO 7052E
Pre-Amp. Type: SV18
Filter Type: 1/3 Octave
Owner: Acu-Vib Electronics
Unit 14, 22 Hudson Ave.
Castle Hill, NSW 2154

Serial No: 74364
Serial No: 70805
Serial No: 75725
Test No: F039400

Tests Performed: IEC 61672-3:2013 & IEC 61260-3:2016

Comments: All Test passed for Class 1. (See overleaf for details)

CONDITIONS OF TEST:

Ambient Pressure	1001 hPa ± 1 hPa	Date of Receipt :	25/03/2024
Temperature	24 $^{\circ}\text{C} \pm 1^{\circ}\text{C}$	Date of Calibration :	10/04/2024
Relative Humidity	48 % $\pm 5\%$	Date of Issue :	11/04/2024

Acu-Vib Test Procedure: AVP10 (SLM) & AVP06 (Filters)

CHECKED BY:

AUTHORISED

SIGNATURE:

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The performance characteristics listed below were tested. The tests are based on the relevant clauses of IEC 61672-3:2013

Tests Performed:	Clause	Result
<i>Absolute Calibration</i>	10	Pass
<i>Acoustical Frequency Weighting</i>	12	Pass
<i>Self-Generated Noise</i>	11.1	Observed
<i>Electrical Noise</i>	11.2	Observed
<i>Long Term Stability</i>	15	Pass
<i>Electrical Frequency Weightings</i>	13	Pass
<i>Frequency and Time Weightings</i>	14	Pass
<i>Reference Level Linearity</i>	16	Pass
<i>Range Level Linearity</i>	17	Pass
<i>Toneburst</i>	18	Pass
<i>Peak C Sound Level</i>	19	Pass
<i>Overload Indicator</i>	20	Pass
<i>High Level Stability</i>	21	Pass

Statement of Compliance: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2013.

This Sound Level Meter included an Octave Filter Set. Tests were based on IEC 61260-3:2016 and were conducted to test the following performance characteristics:

Tests performed	Clause	Result
<i>Test of relative attenuation at filter midband frequency</i>	10	Pass
<i>Linear operating range including range control if fitted</i>	11	Pass
<i>Test of lower limit of linear operating range</i>	12	Pass
<i>Measurement of relative attenuation (filter shape)</i>	13	Pass

The filter submitted for testing successfully completed the tests listed above for the environmental conditions under which the tests were performed. If the filter type has successfully completed the pattern-evaluation tests of IEC 61260-2 then it can be stated that the filter set continues to conform to the specifications of IEC 61260-1.

A full technical report is available on request.