

KLF Recycling Hornsby Pty Ltd

Noise Compliance Report Asquith Facility 2023

Prepared for KLF Recycling Hornsby Pty Ltd

March 2023

KLF Recycling Hornsby Pty Ltd

Noise Compliance Report Asquith Facility 2023

KLF Recycling Hornsby Pty Ltd

E221350 RP2023

March 2023

Version	Date	Prepared by	Approved by	Comments
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Approved by



Najah Ishac

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22 November 2022

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1 Introduction

EMM Consulting Pty Limited (EMM) has been engaged to complete annual attended compliance noise monitoring for the Asquith Waste Recycling Facility (the site), located at 7-9 Brennan Close, Asquith NSW on behalf of KLF Recycling Hornsby Pty Ltd (KLF). This annual monitoring is a requirement as detailed in the site's Environment Protection Licence (20582), licence version date 19 August 2022.

This report presents the results and findings of 2023 attended noise monitoring conducted during the day period on 10 February 2023.

The following documents were referenced as part of this assessment:

- KLF Recycling Hornsby Pty Ltd Environment Protection Licence (EPL) 20582 (19 August 2022);
- AS 1055.2018 Acoustics - Description and measurement of environmental noise;
- Environment Protection Authority (EPA), Noise Policy for Industry (NPfI) (2017);
- Environment Protection Authority (EPA), *Approved methods for the measurement and analysis of environmental noise in NSW*.

Technical terms used in this report are explained in the glossary.

2 Noise limits and monitoring requirements

Noise assessment criteria for the site are provided in the site's EPL. These are specified for the day period 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.

2.1 Noise Limits

Condition L3.1 of the site's EPL nominates noise limits for KLF Asquith site operations, which are reproduced in Table 2.1.

Table 2.1 Noise limits

Location	Noise limits, dB $L_{Aeq,15min}$	Measurement Frequency
	Day	
All residences on Sherbrook Rd and Wilkinson Close, Hornsby	49	Yearly
All other residences	52	Yearly

Notes: 1. Day is the period from 7 am to 6 pm Monday to Saturday and 8 am to 1 pm Saturday, Sunday and public holidays (EPL L3.3). Approved hours of operations (EPL L4.1) are 7am to 5pm Monday to Friday and 8am to 1pm Saturday, Sunday and Public Holidays.

2.2 Meteorological conditions

Condition L3.4 of the EPL states the meteorological conditions which the noise limits apply under:

L3.4 a) The noise limits set out in condition L3.1 apply under meteorological conditions listed in the table below.

b) For those meteorological conditions not referred to in condition L3.4(a), the noise limits that apply are the noise limits in condition L3.1 table plus 5 dB.

The table from Condition L3.4 is reproduced in Table 2.2 below.

Table 2.2 Applicable meteorological conditions

Assessment period	Meteorological conditions
Day	Stability Categories A, B, C and D with wind speeds up to and including 0.5 m/s at 10 m above ground level.
Evening	Stability Categories A, B, C and D with wind speeds up to and including 0.5 m/s at 10 m above ground level.
Night	Stability Categories A, B, C and D with wind speeds up to and including 0.5 m/s at 10 m above ground level.

Condition L3.5 specifies the source of meteorological data to be used and method for determining stability categories:

- L3.5 For the purpose of condition L3.4:
 - a) The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Terrey Hills, NSW (Station ID 066059).
 - 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).

3 Assessment methodology

3.1 Attended noise monitoring

To quantify noise emissions from the site, 15-minute attended noise surveys were completed at monitoring locations to represent the locations referenced in Condition L3.1 of the site's EPL. Two attended noise monitoring locations are listed in condition P1.1 of the site's EPL to represent the most affected residences in proximity to the site. It is anticipated that any residences located further from the site would experience lesser or similar noise levels. The attended noise monitoring locations and their coordinates are listed in Table 3.1 and shown in Figure 3.1.

Table 3.1 Attended noise monitoring locations

Monitoring location	Description	Location	GDA94/MGA56	
			Easting (m)	Northing (m)
A1	Approximately 120 m northwest of the site	7 Wilkinson Close, Hornsby	324726	6269887
A2	Approximately 150 m southwest of the site	3/13 King Road, Hornsby	324765	6269723

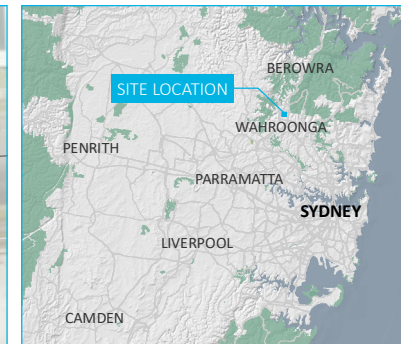
3.2 Instrumentation

A Brüel & Kjær Type 2250 sound level meter (serial number 3008201) was used to conduct 15-minute attended measurements and record 1/3 octave band centre frequency and statistical noise indices. The sound analyser was calibrated before and on completion of the survey using a Svantek SV36 calibrator (s/n 86311). The instruments were within their NATA laboratory calibration period during the time of these readings. Refer to Appendix B for calibration certificates.



\\lemmsvr1\EMM2\2022\E221350 - KLF Asquith 2023\GIS\GIS102_Maps\N001_SiteAndNoiseMonitoringLocations_20230220_02.mxd 20/02/2023

Source: EMM (2023); ABS (2021); DCSSS (2023); GA (2009); MetroMap (2023)



KEY

- Noise monitoring location
- Site boundary
- Minor road
- Named watercourse
- Cadastral boundary

INSET KEY

- Major road
- NPWS reserve
- State forest

Site locality and attended noise monitoring locations

KLF Holdings Pty Ltd Recycling Facility
Noise Compliance Report Asquith Facility 2023
Figure 3.1

3.3 Weather conditions

As required by L3.5 of the EPL, weather data for the monitoring period was sourced from the Bureau of Meteorology (BoM) Automated Weather Station (AWS) located at Terrey Hills (Station ID 066059). Wind speeds are stated with reference to a height of 10 m above ground level (AGL).

As required by L3.5 of the EPL, the presence of temperature inversion conditions was determined for the monitoring period in accordance with the Sigma Theta method specified in Fact Sheet D of the NPfI (EPA 2017).

3.4 Site operating hours

The site typically operates from 7:00 am to 5:00 pm Monday to Friday and from 8:00 am to 1:00 pm on Saturdays, Sundays and public holidays.

4 Monitoring data and discussion

Attended noise monitoring results are summarised in Table 4.1.

The weather data confirmed that EPL standard meteorological conditions (Condition L3.4) were exceeded during all four attended measurements.

In accordance with the EPL, noise limits for those periods were those listed in Condition L3.1 plus 5 dB. Average wind speed, wind direction, cloud cover and stability category present during each 15-minute attended measurement are provided in Table 4.1.

During the period that site was operational, typical activities included (confirmed by proponent):

- Day (7:00 am to 6:00 pm):
 - front end loader;
 - one excavator; and
 - trucks tipping/being loaded out.

Site operations were audible during all attended measurements, including the constant hum of processing plant and “bangs” and “clangs” of material handling. Site contributions were estimated using a combination of operator observations at the time of measurement, filtering of extraneous noise and the application of a low pass filter used to exclude extraneous higher frequency noise such as birdsong and insects.

Site contributions were compliant (below) EPL L_{Aeq} , during all attended day period measurements.

Based on a detailed review and analysis of noise measurement data, there was no evidence of low frequency noise, tonality or any other modifying factors as defined in the NPfl (EPA 2017) at any monitoring location; therefore, modifying factor penalties were not applicable.

Table 4.1 Attended noise monitoring results – 2023, 10 February

Id	Start time (period) ¹	Total noise levels, dB				Estimated site contribution, dB	EPL limits, dB	Meteorological conditions ²	Exceedance, dB	Notes
		L _{Amin}	L _{A90, 15min}	L _{Aeq, 15min}	L _{Amax}					
A1	9:40 am (Day)	45	47	51	62	49	54 ³	1.2 m/s NW, Category D	Nil	Site audible. Persistent debris handling, scoop impacts and operational hum. Other noise included hum of other industry, birdsong, insects and distant traffic (constant).
A1	9:56 am (Day)	46	49	62	67	49	54 ³	1.2m/s NW, Category D	Nil	Site audible. Persistent debris, scoop impacts and operational hum Other noise included hum of other industry, birdsong, consistent highly variable insects (45 – 67 dB) and distant traffic (constant).
A2	10:24 am (Day)	44	45	48	61	46	57 ³	1.4m/s NW, Category B	Nil	Site audible. Persistent debris handling, operational hum and scoop impacts Other noise included aircraft pass by, insects, highly variable birdsong and distant traffic (constant).
A2	10:39 am (Day)	44	45	48	70	46	57 ³	1.4 m/s NW, Category B	Nil	Site audible. Persistent debris handling, operational hum and scoop impacts Other noise included aircraft pass by, insects, highly variable birdsong and distant traffic (constant).

- Notes:
1. EPL L3.3 - Day is the period from 7 am to 6 pm Monday to Friday and 8 am to 1 pm Saturday, Sunday and public holidays..
 2. Weather data for the monitoring period was sourced from the Bureau of Meteorology (BoM) Automated Weather Station (AWS) located at Terrey Hills (Station ID 066059). Wind speeds are stated with reference to a height of 10 m above ground level (AGL).
 3. In accordance with Condition L3.5, where meteorological conditions exceed those specified in Condition L3.4, the EPL limits for these periods are those listed in Condition L3.1 plus 5 dB.

5 Conclusion

EMM has completed a review of operational noise from the KLF Asquith site for 2023.

Attended noise monitoring was conducted during the day period on 10 February 2023. The applicability of noise limits was assessed with reference to weather data from the BoM's Terrey Hills AWS.

The site was operational during all day period attended measurements.

Attended noise monitoring observations and results demonstrate that operational noise from the site was audible during all attended measurements. Site contributions were demonstrated to be compliant during all samples captured at residences.

Glossary

Several technical terms are discussed in this report. These are explained in Table G.1.

Table G.1 Glossary of acoustic terms

Term	Description
dB	Noise is measured in units called decibels (dB). There are several scales for describing noise, the most common being the 'A-weighted' scale. This attempts to closely approximate the frequency response of the human ear.
L_{A1}	The 'A-weighted' noise level which is exceeded 1% of the time.
$L_{A1,1 \text{ minute}}$	The 'A-weighted' noise level exceeded for 1% of the specified time period of 1-minute.
L_{A10}	The 'A-weighted' noise level which is exceeded 10% of the time. It is approximately equivalent to the average of maximum noise level.
L_{A90}	Commonly referred to as the background noise level. The 'A-weighted' noise level exceeded 90% of the time.
L_{Aeq}	The energy average noise from a source. This is the equivalent continuous 'A-weighted' sound pressure level over a given period. The $L_{Aeq,15 \text{ minute}}$ descriptor refers to an L_{Aeq} noise level measured over a 15--minute period.
L_{Amin}	The minimum 'A-weighted' noise level received during a measuring interval.
L_{Amax}	The maximum root mean squared 'A-weighted' sound pressure level (or maximum noise level) received during a measuring interval.
L_{Ceq}	The equivalent continuous 'C-weighted' sound pressure level over a given period. The $L_{Ceq,15 \text{ minute}}$ descriptor refers to an L_{Ceq} noise level measured over a 15-minute period. C-weighting can be used to measure low frequency noise.
Day period	Monday – Saturday: 7 am to 6 pm, on Sundays and Public Holidays: 8 am to 6 pm.
Evening period	Monday – Saturday: 6 pm to 10 pm, on Sundays and Public Holidays: 6 pm to 10 pm.
Night period	Monday – Saturday: 10 pm to 7 am, on Sundays and Public Holidays: 10 pm to 8 am.
Temperature inversion	A meteorological condition where the atmospheric temperature increases with altitude.
Vibration Dose Value (VDV)	Vibration Dose is a parameter that combines the magnitude of vibration and the time for which it occurs. VDV is a cumulative measurement of the vibration level received over a 15-hour or 9-hour period (Day and night).

It is useful to have an appreciation of the decibel (dB), the unit of noise measurement. Table G.2 gives an indication as to what an average person perceives about changes in noise levels in the environment. Examples of common noise levels are provided in Figure G.1.

Table G.2 **Perceived change in noise**

Change in sound pressure level (dB)	Perceived change in noise in surrounding environment
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

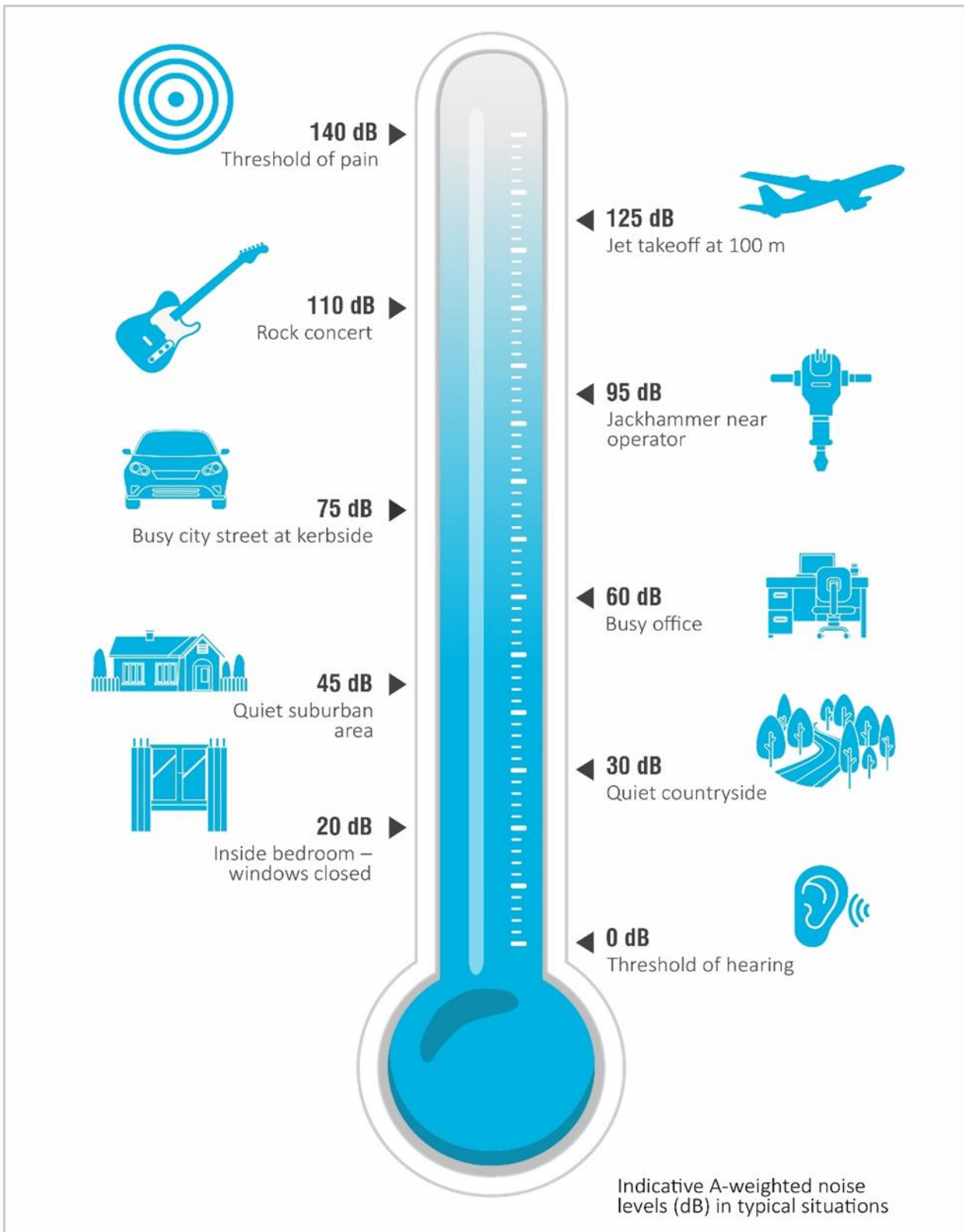


Figure G.1 Common noise levels

Appendix A

EPL 20582

Environment Protection Licence

Licence - 20582

Licence Details

Number:	20582
Anniversary Date:	14-August

Licensee

KLF RECYCLING HORNSBY PTY LTD
 7-9 BRENNAN CLOSE
 ASQUITH NSW 2077

Premises

KLF - WASTE TRANSFER STATION ASQUITH
 7-9 BRENNAN CLOSE
 ASQUITH NSW 2077

Scheduled Activity

Waste storage

Fee Based Activity

Waste storage - other types of waste

Scale

Any other types of waste stored

Contact Us

NSW EPA
 4 Parramatta Square
 12 Darcy Street
 PARRAMATTA NSW 2150
 Phone: 131 555
 Email: info@epa.nsw.gov.au

Locked Bag 5022
 PARRAMATTA NSW 2124



Environment Protection Licence

Licence - 20582

R4	Other reporting conditions	15
7	GENERAL CONDITIONS	15
G1	Copy of licence kept at the premises or plant	15
8	SPECIAL CONDITIONS	15
E1	Financial Assurance	15
E2	Environmental Obligations of Licensee (Works & Programs)	16
E3	Special Dictionary	17
DICTIONARY		18
	General Dictionary	18

Environment Protection Licence

Licence - 20582

		force from time to time		
NA	Building and demolition waste	As defined in Schedule 1 of the POEO Act as in force from time to time	Waste storage	N/A
NA	Virgin excavated natural material	As defined in Schedule 1 of the POEO Act as in force from time to time	Waste storage	N/A

- L2.2 The quantity of waste that may be accepted at the premises must not exceed 39,000 tonnes per calendar year.
- L2.3 The authorised amount of waste permitted on the premises cannot exceed 3,000 tonnes at any one time.
- L2.4 The licensee must install and maintain a visible permanent stockpile marker that shows the permitted height of stockpiles, being 5 metres (m).
- L2.5 Stockpile heights must not exceed 5 metres (m).
- L2.6 No asbestos waste is to be accepted or stored at the premises.

L3 Noise limits

- L3.1 Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.

POINT 1

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	Yearly	49

POINT 2

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	Yearly	52

- L3.2 a) The noise level limits listed for Point 1 in Condition L3.1 apply to all residential receivers on Sherbrook Road and Wilkinson Close, Hornsby 2077.
- b) The noise level limits listed for Point 2 in Condition L3.1 apply to all other residential receivers.

Environment Protection Licence

Licence - 20582

L3.3 For the purposes of condition L3.1 day means the period from:

- a) 7am to 6pm Monday to Friday
- b) 8am to 1pm Saturday, Sunday and public holidays.

L3.4 a) The noise limits set out in condition L3.1 apply under meteorological conditions listed in the table below.

b) For those meteorological conditions not referred to in condition L3.4 a), the noise limits that apply are the noise limits in condition L3.1 plus 5dB.

Assessment Period	Meteorological Conditions
Day	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level
Evening	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level
Night	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level

L3.5 For the purposes of condition L3.4:

a) the meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Terrey Hills (Station ID 066059).

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).

L3.6 To assess compliance:

a) with the LAeq(15 minutes) noise limits in condition L3.1 and L3.4, 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 premises;
- (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 Nature Reserve, or
 - (iv) at any other location identified in condition L3.1

b) with the LAeq(15 minutes) noise limits in condition L3.1 and L3.4, 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 L3.6 (a).

L3.7 A non-compliance of condition L3.1 and L3.4 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 locations referred to in condition L3.6 a) or L3.6 b).

Environment Protection Licence

Licence - 20582

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

L3.8 For the purpose 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 (NSWEPA, 2017) may be applied, if appropriate, to the noise measurements by the noise monitoring equipment.

L3.9 Noise measurements must not be undertaken where rain or wind speed at microphone level will affect the acquisition of valid measurements.

L4 Hours of operation

L4.1 The hours of operation at the premises are restricted to the following:

7:00am to 5:00pm - Monday to Friday

8:00am to 1:00pm - Saturday, Sunday and Public Holidays

Please note: These hours also apply to the movements of vehicles to and from the premises for the receipt and dispatch of recycled materials.

L5 Potentially offensive odour

L5.1 No condition of this licence identifies a potentially offensive odour for the purpose of Section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with conditions of licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity;
- and

Appendix B

Calibration certificates

CERTIFICATE OF CALIBRATION

CERTIFICATE No: **SLM 30138**

EQUIPMENT TESTED: Sound Level Meter

Manufacturer: B & K

Type No: 2250

Mic. Type: B&K 4189

Pre-Amp. Type: ZC0032

Serial No: 3008201

Serial No: 2888134

Serial No: 16037

Filter Type: 1/3 Octave

Test No: FILT 6597

Owner: EMM Consulting

Ground Floor, Suite 01, 20 Chandos St
St Leonards NSW 2065

Tests IEC 61672-3:2013,

Performed: IEC 1260:1995, & AS/NZS 4476:1997

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

CONDITIONS OF TEST:

Ambient Pressure 1001 hPa ± 1 hPa

Temperature 22 $^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Relative Humidity 36 % $\pm 5\%$

Date of Receipt : 23/07/2021

Date of Calibration : 26/07/2021

Date of Issue : 26/07/2021

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

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.

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CALIBRATIONS SALES RENTALS REPAIRS

Head Office & Calibration Laboratory
Unit 14, 22 Hudson Ave. Castle Hill NSW 2154
(02) 9680 8133
www.acu-vib.com.au

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: C30881

EQUIPMENT TESTED : Sound Level Calibrator

Manufacturer: Svantek
Type No: SV-36 **Serial No:** 86311
Owner: EMM Consulting
Suite 01, 20 Chandos St
St Leonards NSW 2065

Tests Performed: Measured Output Pressure level, Frequency & Distortion
Comments: See Details overleaf. All Test Passed.

Parameter	Pre-Adj	Adj Y/N	Output: (dB re 20 µPa)	Frequency (Hz)	THD&N (%)
Level1:	NA	N	94.05 dB	999.99 Hz	1.00 %
Level2:	NA	N	114.05 dB	999.99 Hz	1.00 %
Uncertainty			±0.11 dB	±0.05%	±0.20 %

Uncertainty (at 95% c.l.) k=2

CONDITION OF TEST:

Ambient Pressure 1002 hPa ±1 hPa **Date of Receipt :** 20/10/2021
Temperature 23 °C ±1° C **Date of Calibration :** 20/10/2021
Relative Humidity 41 % ±5% **Date of Issue :** 20/10/2021

Acu-Vib Test AVP02 (Calibrators)
Procedure: Test Method: AS IEC 60942 - 2017

CHECKED BY:  **AUTHORISED SIGNATURE:** 
Jack Kiehl

Accredited for compliance with ISO/IEC 17025 - Calibration
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emmconsulting.com.au