



Environmental Noise Monitoring Report

Monthly Saturday Afternoon Attended Construction Noise Monitoring

Date: 16 September 2026

To: Jaden Park

Project: Bellambi Heights BESS Projects

Subject: Monthly attended noise monitoring letter report for Saturday, 12 September 2026

1. Introduction

This letter report documents the monthly attended site at 696 Castlereagh Highway, Beryl NSW 2852, for construction noise monitoring completed by EnviroScience Solutions on the afternoon of Saturday, 12 September 2026, between 3:00 pm and 5:00 pm to assess noise emissions during approved extended working hours.

The monitoring event was coordinated in advance with the site program so that measurements were undertaken while representative construction activities were occurring during the approved monitoring window on Saturday, 12 September 2026.

2. Monitoring Scope

Attended monitoring was conducted at the approved monitoring locations identified for the project. The monitoring locations are summarised below.

Location	Description	Purpose
Location A	Edge Receiver — Castlereagh Highway on the 40 dBA contour boundary	Assess noise levels at the edge receiver location.
Location B	Receiver Cluster — Holleys Lane near the 35–40 dBA receiver cluster contour	Assess noise levels near the identified receiver cluster.
Location C	Construction Site – Centre area of construction site >65 dBA	Assess noise levels near machine equipment sources.



3. Methodology

At each approved location, the attending team member completed a 15-minute attended noise measurement while representative works were underway. Measurements included the following parameters:

- LAeq
- LA90

Wind speed and wind direction were recorded for each monitoring event using two sources: a local hand-held weather meter at the point of measurement and corresponding observations from the Mudgee Airport Weather Station accessed via the Bureau of Meteorology (BOM) live observations website.

A Pulsar Nova Model 45 (SN: PN2427), Class 1 with a 1:1 octave Band Filter was used to measure all frequency bands simultaneously during the monitoring. The Pulsar Nova sound level meter was factory calibrated on 20 July 2026 (Certificate 12128) by Calibre Technology, Acoustic and Vibration Calibration Centre. The field instrument was also calibrated in situ at 93.90 dB (at 1000.2 Hz) before and after the assessment with the Pulsar Acoustic Calibrator Model 105 SN 102745 – Class 1.

A Kestrel Heat Stress Tracker and Anemometer – Model 5400 was used to measure air velocity and direction in situ.

4. Results

The attended monitoring results are to be tabulated by monitoring location and date so that trends across the monitoring program can be tracked over time.

Date	Time	Location	LAeq	LA90	Wind speed / direction	Site activity / Observations
12 SEP 2026	15:56 – 16:13	Location A Latitude: -32.315032 Longitude: 149.460670 Approx 6m off fenceline	56.6 dB	27.0 dB	Anemometer Reading Max: 5.76 km/h Avg: 3.96 km/h SSE BOM 9 km/h S	20°C Mostly Sunny Approx 18-20 mostly large vehicles passed. Vacant pasture with no livestock No worksite noise detected during the monitoring

Date	Time	Location	LAeq	LA90	Wind speed / direction	Site activity / Observations
12 SEP 2026	16:41 – 16:57	Location B Latitude: -32.337977 Longitude: 149.470142 Adjacent star picket approx. 6m north of Telstra white pvc marker post	38.6 dB	30.4 dB	Anemometer Reading Max: 3.24 km/h Avg: 1.44 km/h SE BOM 9 km/h S	19.6°C Slightly cloudy Background vehicle noise from highway only Local dirt road to minimal properties Local resident interrupted original reading with large 4WD vehicle while idle next to monitor. Reading was discarded. Second 15min noise reading was conducted at 16:41.



Date	Time	Location	LAeq	LA90	Wind speed / direction	Site activity / Observations
12 SEP 2026	15:20 – 15:35	Location C Latitude: -32.319751 Longitude: 149.474708 Centre location of the Construction site	34.7 dB	23.1 dB	Anemometer Reading Max: 3.6 km/h Avg: 2.5 km/h SW BOM 9 km/h S	21.3°C Slightly cloudy, no chance of rain No vehicle noise, no other machine noise on site.

5. Conclusion

Attended noise monitoring was undertaken at Locations A, B and C on Saturday, 12 September 2026 during the approved extended working hours. The measured LAeq levels were 56.6 dB at Location A, 38.6 dB at Location B and 34.7 dB at Location C. Corresponding background LA90 levels were 27.0 dB, 30.4 dB and 23.1 dB, respectively.

The highest noise level was recorded at Location A and was attributable to frequent traffic on Castlereagh Highway, including approximately 18–20 predominantly heavy vehicles. Background highway traffic was also the principal audible source at Location B. No worksite noise was detected at Location A, and no machinery noise was observed at Location C. On this basis, construction activities were not a discernible contributor to the measured noise environment during the monitoring periods. As project-specific assessment criteria are not presented in this report, no formal compliance determination has been made.



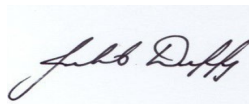
Reported by



Andres Ortega

Occupational Hygienists

Authorised by:



Juliet Duffy MSM Syd Uni

EnviroScience Solutions Director

6. Photographic Log



Photo 01: Location A



Photo 02: Location B



Photo 03: Location C

Monitoring locations

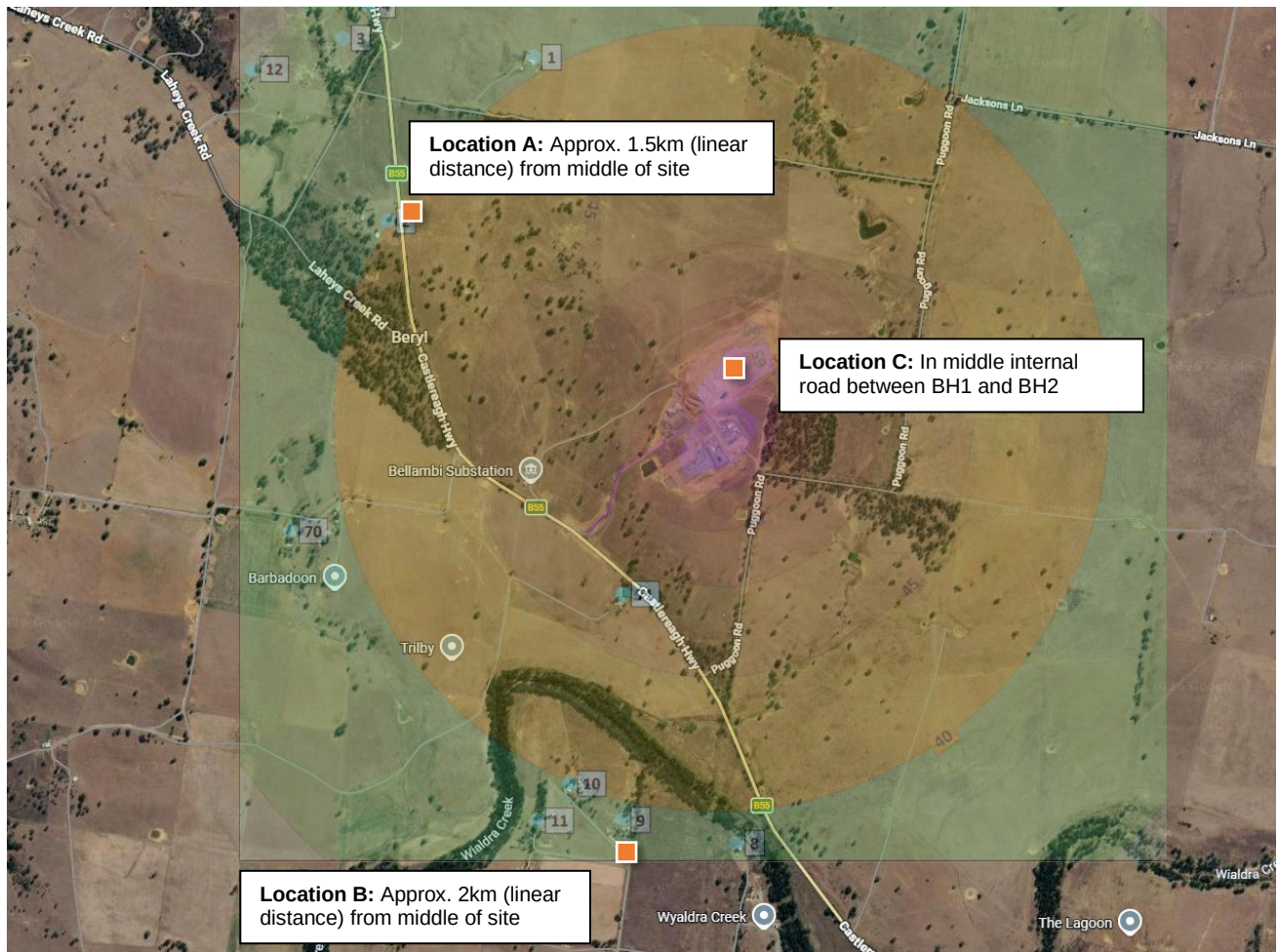
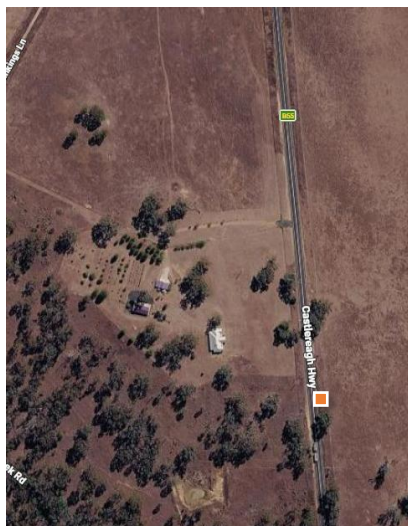
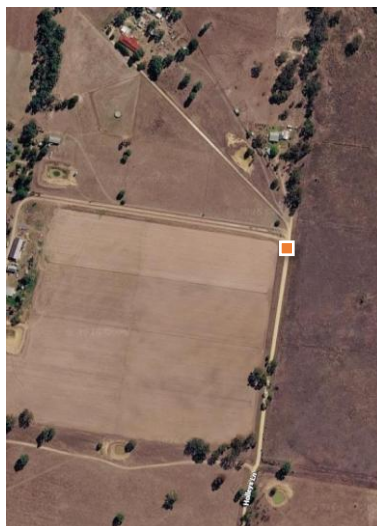


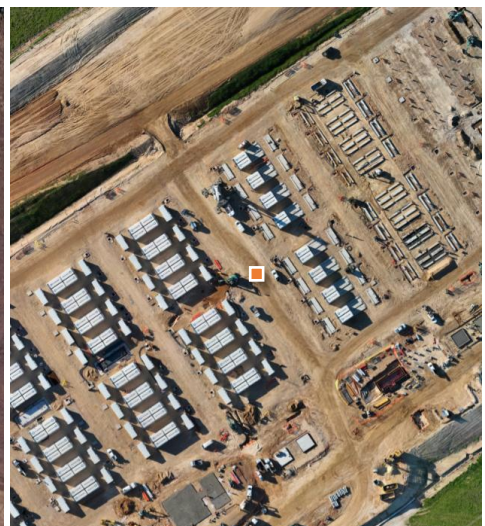
Figure A: Three monitoring locations



Location A

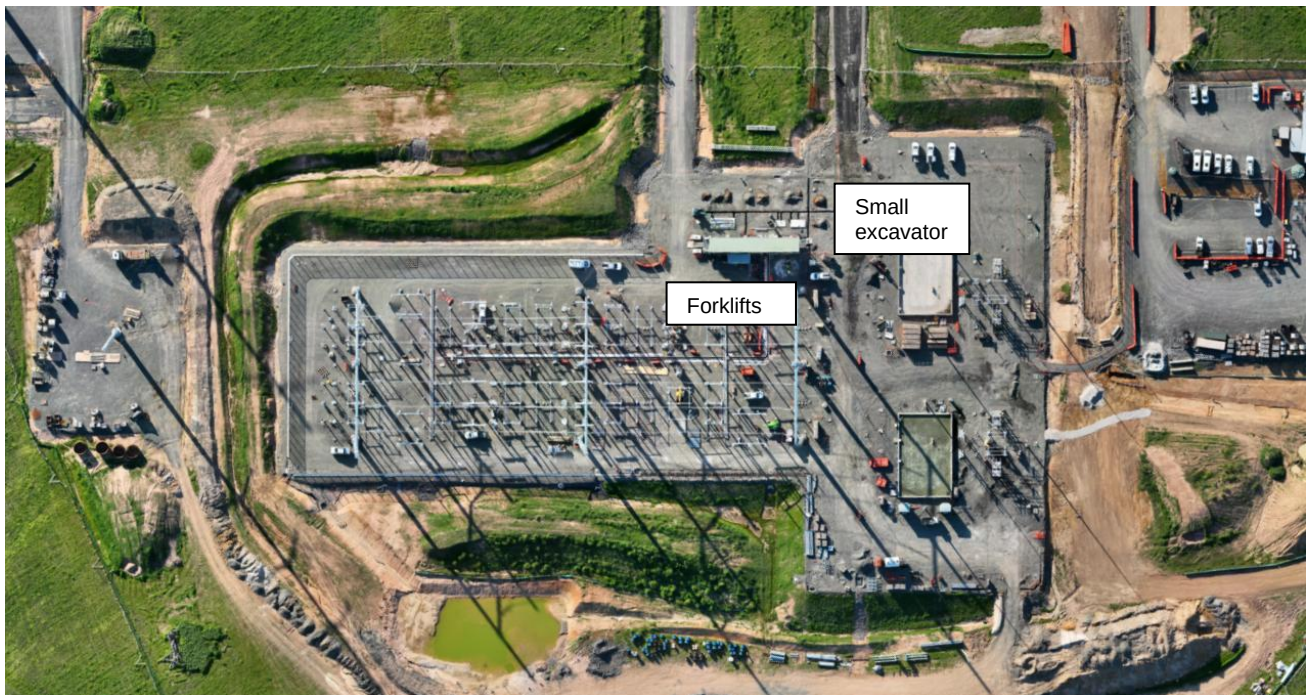
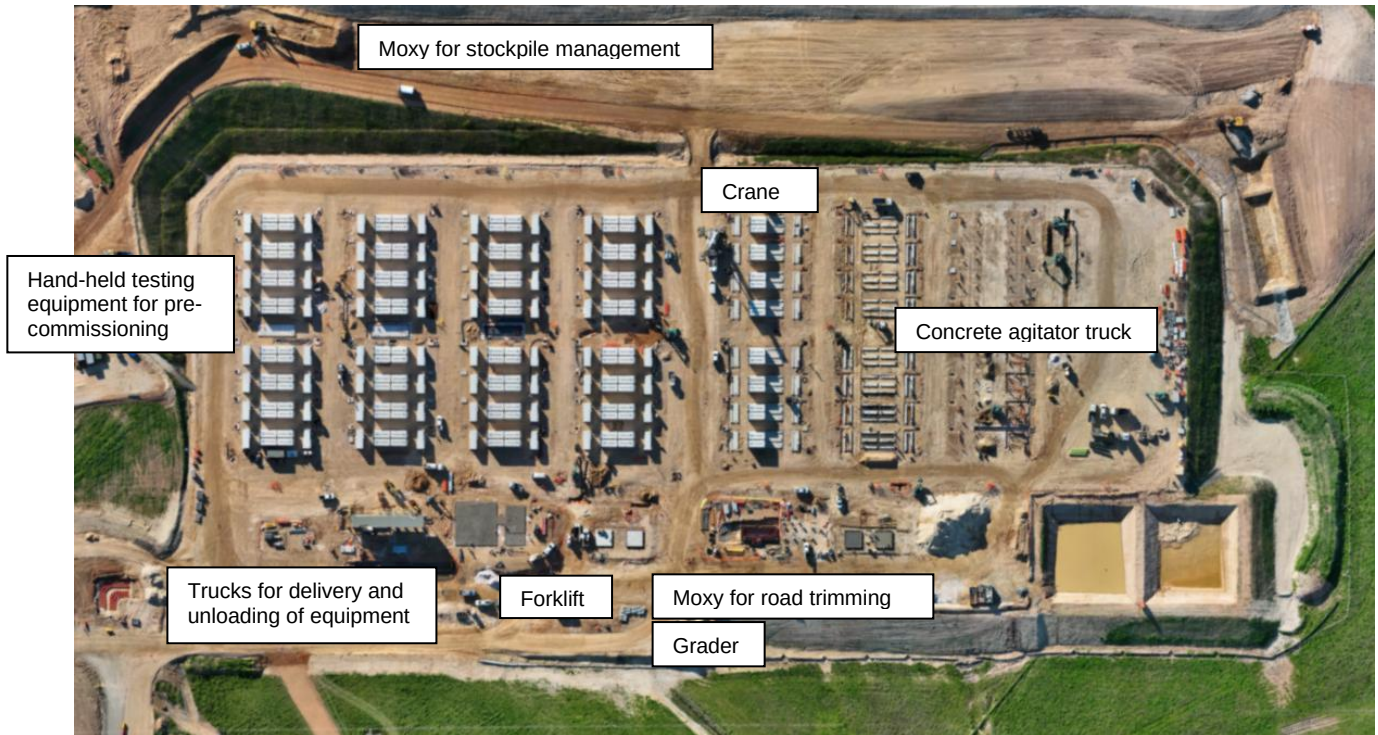


Location B



Location C

Equipment in use during attended monitoring



**Satellite imagery is Thursday Sep 10 2026*

Activities during attended monitoring

Samsung Activities

SAMSUNG SAMSUNG VISTA C&I AUSTRALIA										Daily Site Diary						
										Saturday, 12 September 2026						
Date	12-Sep-26	Temp (Low)	4	°C	Temp (High)	21	°C	Weather	Mostly Sunny	Max. Wind Speed	4.72	m/s	Precipitation	0	mm	
Activity	Description of Activity (Issues, Other Notes)								Activity Category	Contractor	Task Tracking					
Prestart	Prestart before commencing works @7:30 AM (Samsung Vista, Applied, ACG, Strait Up, Titan, Lynch, Yurika)								Meetings	Samsung	Completed					
Infills	Infill pours for BESS foundations in Oval 6								Foundations	Applied	40%-60%					
Formworks	Continued installation of formworks for the BH2 E-House								E-House	Applied	40%-60%					
Battery Install	Assisting with installation of BESS units (8 units for today, 160 completed as of date)								Battery Install	ACG	60%-80%					
Battery Install	Installing BESS units (8 units for today, 160 completed as of date)								Battery Install	Strait Up	60%-80%					
Deliveries	Unloading delivery of materials on site								Deliveries	Titan	Completed					
Tidy up	Site clean up works								Other Works	Titan	Completed					
Other Works	Trimming roads on site								Other Works	Titan	Completed					
Tidy up	Stockpile Management								Other Works	Titan	Ongoing					
Steel Framing	Installation of frames for the office building								Framing	Lynch	40%-60%					
Deliveries	Deliveries of steel framing + unloading on site								Deliveries	Lynch	Completed					
Testing	CTA testing on Oval 1								Testing	Yurika	Ongoing					
Testing	Relay testing in Oval 1								Testing	Yurika	Ongoing					

Transgrid Activities

Activity	Equipment
Trenching & Stockpile management	Small excavator
Moving materials	Forklift
Fence installation works	Hand held battery tools



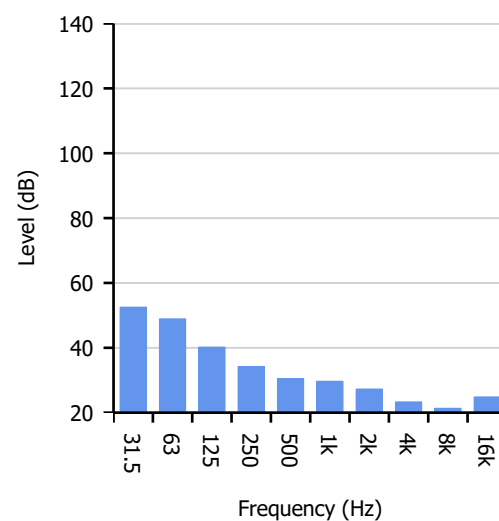
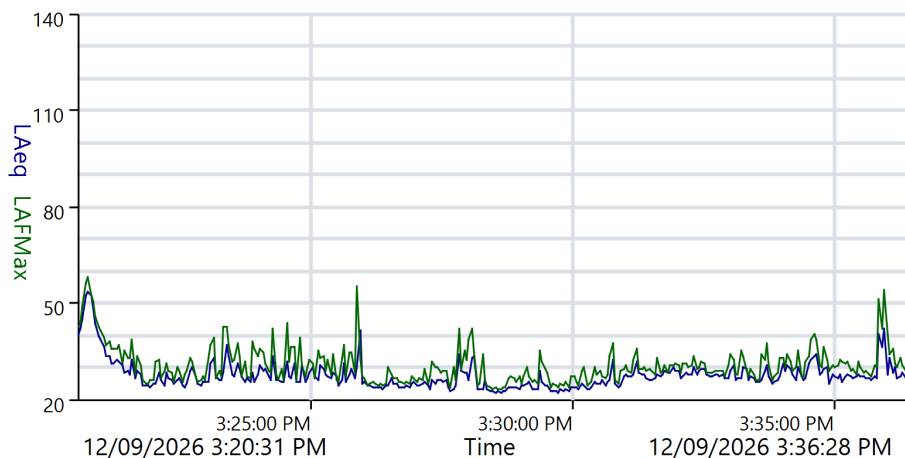
Measurement Summary Report

Name 1
Time 12/09/2026 3:20:31 PM **Person**
Duration 00:15:57 **Place** EnviroScience **Project** 55352 - Bellambi
Instrument PN2427, Model 45 **Orange, NSW 2800**

Calibration

Before 12/09/2026 3:14 PM **Offset** -0.08 dB **After** 12/09/2026 3:54 PM **Offset** -0.34 dB

Basic Values		Statistical Levels (Ln)	
LAeq	34.7 dB	LAF1	48.3 dB
LAE	64.5 dB	LAF5	34.6 dB
LAFMax	58.0 dB	LAF10	31.4 dB
		LAF50	26.1 dB
		LAF90	23.1 dB
		LAF95	22.6 dB
		LAF99	22.0 dB





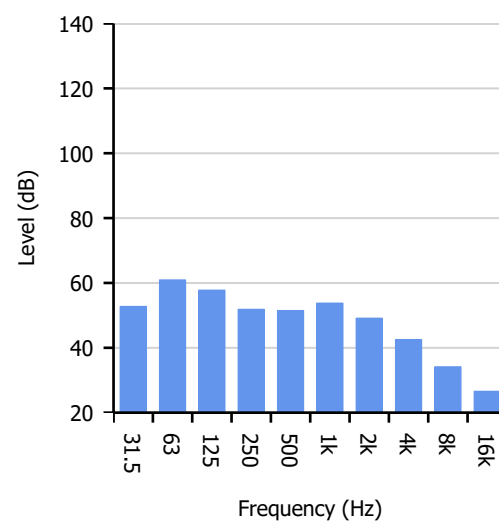
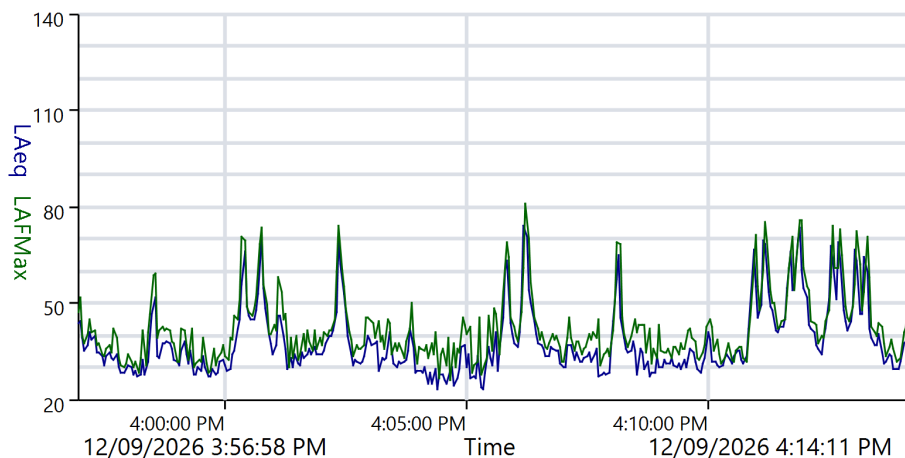
Measurement Summary Report

Name 2
Time 12/09/2026 3:56:58 PM **Person**
Duration 00:17:13 **Place** EnviroScience **Project** 55352 - Bellambi
Instrument PN2427, Model 45 **Orange, NSW 2800**

Calibration

Before 12/09/2026 3:54 PM **Offset** -0.34 dB **After** 12/09/2026 4:26 PM **Offset** -0.37 dB

Basic Values		Statistical Levels (Ln)	
LAeq	56.6 dB	LAF1	71.1 dB
LAE	86.7 dB	LAF5	58.1 dB
LAFMax	80.6 dB	LAF10	51.4 dB
		LAF50	33.7 dB
		LAF90	27.0 dB
		LAF95	25.2 dB
		LAF99	22.1 dB





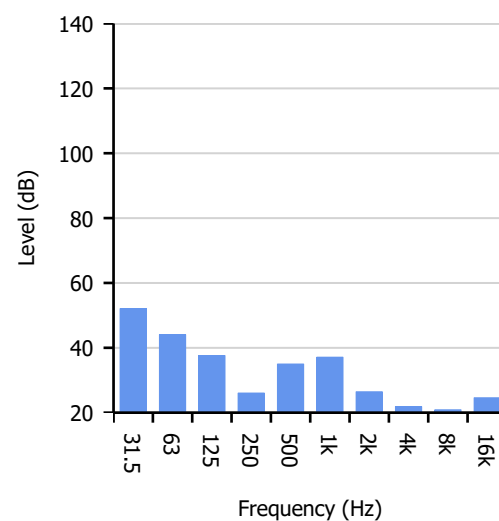
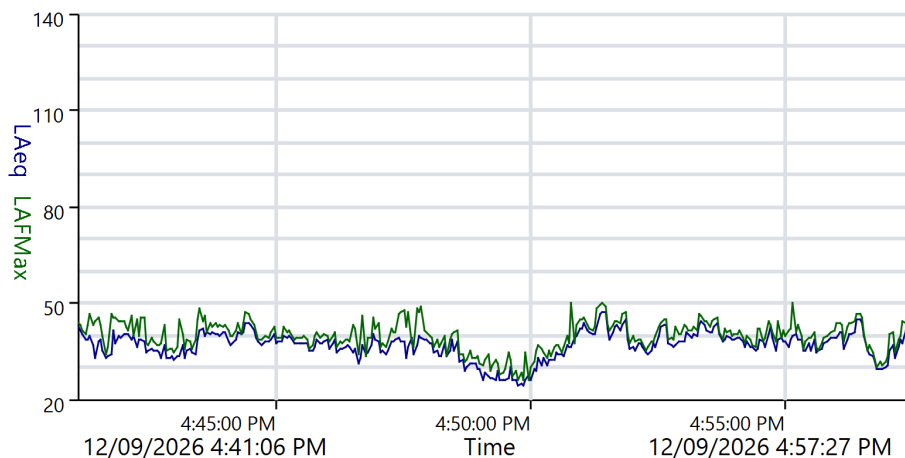
Measurement Summary Report

Name	4	Person		Place		Project	
Time	12/09/2026 4:41:06 PM			EnviroScience		55352 - Bellambi	
Duration	00:16:21			Orange, NSW 2800			
Instrument	PN2427, Model 45						

Calibration

Before	12/09/2026 4:26 PM	Offset	-0.37 dB	After	Offset
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Basic Values		Statistical Levels (Ln)	
L _{Aeq}	38.6 dB	LAF1	45.9 dB
L _{AE}	68.5 dB	LAF5	43.4 dB
L _{AFMax}	50.2 dB	LAF10	41.8 dB
		LAF50	36.9 dB
		LAF90	30.4 dB
		LAF95	27.4 dB
		LAF99	24.4 dB





Certificate Number: 12128

NATA Accreditation No: 20688

CERTIFICATE OF CALIBRATION

Customer: **Expert Testing Services**
9/171 Power Street, Glendenning NSW 2761

Test Object:	Manufacturer:	Model:	Serial No:	ID:
Sound Level Meter	Pulsar	Model45	PN2427	12128
Microphone	Pulsar	PM1	012609K	12128
Preamplifier	Pulsar	PA40	2425	12128
Calibrator	None	-	-	-
Connecting Cable	None	-	-	-

Information:
Test Configuration: Microphone on Preamp
Instrument Manual: Pulsar Model 45 User Manual
Firmware Version: 2.7.0.333
Class of Instrument: Class 1
Source of Correction Data: Pulsar
Reference Level: 94 dB
Reference Level Range: 55 - 135 dB

Environmental Conditions:	Pressure	Temperature	Relative Humidity
Reference Conditions:	101.325 kPa	23.0 °C	50.0 % RH
Conditions Before Measurement:	102.56 kPa	22.5 °C	61.6 % RH
Conditions After Measurement:	102.68 kPa	23.9 °C	57.9 % RH

The laboratory environmental conditions remained within the acceptable limits as defined in IEC 61672.3 and IEC 61260 throughout the calibration test.

The measurements are performed according to the *IEC 61672 Sound level meters - Part 3: Periodic tests (2013)*, and *DIN 45657 Sound Level Meters - Requirements for Special Applications (2015)*. Where applicable testing has also been completed in accordance with *IEC 61260 Electroacoustics - Octave-band and fractional-octave-band filters (2016)*.

This certificate only relates to the test object calibrated. This certificate shall only be reproduced in full with the permission of Calibre Technology.

Accredited for compliance with ISO/IEC 17025 - Calibration.

The results of the tests, calibrations and/or measurements included in this document are traceable to the International System of Units (SI) via international or Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Date of Calibration: 20/07/2026
Date of Issue: 21/07/2026
Authorised Signatory:

Claire Richardson



Certificate Number: 12128

NATA Accreditation No: 20688

Statement of Conformity

The sound level meter and filter submitted for testing has successfully completed the Class 1 periodic tests of IEC 61672-3, and the periodic tests of IEC 61260-3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 and IEC 61260-1, because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002 and IEC 61260-1:2014, and because the periodic tests of IEC 61672-3 and IEC 61260-3 cover only a limited subset of the specifications in IEC 61672-1:2002 and IEC 61260-1:2014.

Uncertainty

For all tests, the expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k , of 2 calculated in accordance with the principles stated in *JCGM 100:2008 - Evaluation of Measurement Data - Guide to the Expression of Uncertainty in Measurement*.

Except where noted otherwise, the results provided in this report are associated with the following expanded uncertainties:

Electrical Tests: 0.09 dB

Toneburst: 0.09 dB

Acoustic Tests:

0.13 dB for 31.5Hz to below 2 kHz

0.14 dB for 2 kHz to below 8 kHz

0.16 dB for 8kHz to below 12.5 kHz

0.10 dB at a reference frequency of 1 kHz

Bandpass Filters:

0.10 dB for attenuation less than 4 dB

0.15 dB for attenuation less above 4 dB to 18 dB

0.25 for attenuation 18 dB to 80 dB

Traceability

The measured values are traceable to the following laboratories:

Sound Pressure Level: National Measurement Institute, Australia

Voltage: TR Calibration, Australia

Frequency: TR Calibration, Australia

Ambient Pressure: Trescal, Australia

Temperature: Trescal, Australia

Relative Humidity: Trescal, Australia



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Test Overview

Periodic tests were performed in accordance with procedures from IEC 61672-3 Ed. 2.0 (2013) and, where acoustic filters are provided on the instrument, in accordance with IEC 61260-3(2019). In accordance with Clause 8.1 of IEC 61672-3, all design features that are required by IEC 61672-1 that are available on the instrument have been tested.

The verification measurements were performed using the calibration system Nor1504A with software Nor1019. The output signal was manually confirmed to match instrument display as per IEC61672-3 (2013, Clause 8.4). Most of the verification tests are electrical tests. Test signals are fed to the sound measuring device through an adapter that resembles the microphone signal. A special adapter with a suitable electrical characteristic is used.

Some measurements are acoustical tests. This is the acoustical part of the self noise test and the acoustical verification of the frequency response.

Detailed measurement results are printed on the following pages. Each of the verification test points has a Result indication (P, U, or N) that tells the obtained result of the actual test.

P = the result is Passed

U = due to the Uncertainty of the measurement it is not possible to state if the result is passed or not

N = the result is Not passed

All verification tests must have a Passed indication in order to fulfill the requirements in the standard. Acoustical levels are stated relative to 20 μ Pa. Other dB levels are relative values.

Version of Calibration Software Used: 6.1S-(CT 2.6.5)

Version of Template Certificate Used: v9.2



THE CALIBRE TECHNOLOGY

ACOUSTIC & VIBRATION CALIBRATION CENTRE

Certificate Number: 12128

NATA Accreditation No: 20688

Measurement Results:

Indication at the Calibration Check Frequency - IEC61672-3 Ed.2 #10	Passed
Self-generated Noise - IEC 61672-3 Ed.2.0 #11	Advisory
Acoustical Signal Tests Of A Frequency Weighting - IEC 61672-3 Ed.2.0 #12	Passed
Frequency Weightings: A Network - IEC 61672-3 Ed.2.0 #13.3	Passed
Frequency Weightings: C Network - IEC 61672-3 Ed.2.0 #13.3	Passed
Frequency Weightings: Z Network - IEC 61672-3 Ed.2.0 #13.3	Passed
Frequency and Time Weightings at 1 kHz IEC 61672-3 Ed.2.0 #14	Passed
Level Linearity on the Reference Level Range - IEC 61672-3 Ed.2.0 #16	Passed
Toneburst Response - IEC 61672-3 Ed.2.0 #18	Passed
Peak C Sound Level - IEC 61672-3 Ed.2.0 #19	Passed
Overload Indication - IEC 61672-3 Ed.2.0 #20	Passed
High Level Stability Test - IEC 61672-3 Ed.2.0 #21	Passed
Long Term Stability Test - IEC 61672-3 Ed.2.0 #15	Passed
Filter Test - IEC 61260.3 2019 1/1 Octave: Relative attenuation at Midband Frequency #10.2	Passed
Filter Test - IEC 61260.3 2019 1/1 Octave: Lower Limit Of Operating Range #12	Passed
Filter Test - IEC 61260.3 2019 1/1 Octave: Relative attenuation #13	Passed
Filter Test - IEC 61260.3 2019 1/1 Octave: Linear Operating Range #11.5 and Overload Indicator #11.8	Passed

Calibration Location:

Unit 5, 1-9 George Thorn Drive, Thornlands, QLD 4164

07 3245 1730

enquiries@calibretechnology.com.au

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Certificate Number: 12128

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Results

Indication at the Calibration Check Frequency - IEC61672-3 Ed.2 #10

Reference Calibrator: WSC2 - B&K4226_1k_94dB
Reference calibrator level: 94.03
Before calibration:
Environmental corrections:
Other corrections:
Notional level:
Calibrator level before adjustment: 94.0
After calibration:
Environmental corrections:
Other corrections:
Notional level:
Reference calibrator level after calibration: 94.0
Associated Calibrator: - -
Associated calibrator level: Not calibrated
Test Passed

Self-generated Noise - IEC 61672-3 Ed.2.0 #11

Network	Level (dB)	Max (dB)	Uncert. (dB)	Result	Comment
A	24.3	18.0	0.09	*	Microphone installed
A	16.2	15.0	0.09	N	Equivalent capacity
C	19.7	24.0	0.09	P	Equivalent capacity
Z	30.5	35.0	0.09	P	Equivalent capacity

Test Not Passed, Tolerance is Exceeded 20/07/2026

Note: Compliance with this test is not a requirement of IEC61672.3-2013, these results are provided for reference only.

Acoustical Signal Tests of A Frequency Weighting - IEC 61672-3 Ed.2.0 #12

C-Weighted Results: Free Field Response

Frequency	Response (dB)	Tol. (dB)	Uncert. (dB)	Result	
125 Hz	0.1	1.0	-1.0	0.2	P
1 kHz	-0.1	0.7	-0.7	0.2	P
8 kHz	-0.5	1.5	-2.5	0.3	P

Test Passed 20/07/2026

The overall frequency response of the sound level meter, nominal case reflections and microphone response has shown to conform with the requirements in IEC 61672-3 for a Class 1 sound level meter.

Frequency response test using multi frequency calibrator.

Sources for Correction Data:

Calibrator Levels and Uncertainty: National Measurement Institute

Case Reflections Uncertainty Source: Cirrus

No information on the uncertainty of measurement, required by IEC61672-3:2019, for the correction data given in the Instruction Manual or obtained from the manufacturer or supplier of the sound level meter, or the manufacturer of the microphone, or the manufacturer of the multi-frequency sound calibrator was provided in the Instruction Manual or made available by the manufacturer or supplier of the sound level meter. The uncertainty of measurement of the correction data was therefore assumed to be the maximum-permitted uncertainty given in IEC 62585 for the corresponding free-field correction data and for a coverage probability of 95%.



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Frequency Weightings: A Network - IEC 61672-3 Ed.2.0 #13.3

Freq (Hz)	Ref. (dB)	Meas. (dB)	Tol. (dB)		Uncert. (dB)	Dev. (dB)	Result
63.1	95.0	95.0	1.0	-1.0	0.09	0.0	P
125.9	95.0	95.0	1.0	-1.0	0.09	0.0	P
251.2	95.0	94.9	1.0	-1.0	0.09	-0.1	P
501.2	95.0	95.0	1.0	-1.0	0.09	0.0	P
1000.0	95.0	95.0	0.7	-0.7	0.09	0.0	P
1995.3	95.0	95.0	1.0	-1.0	0.09	0.0	P
3981.1	95.0	95.0	1.0	-1.0	0.09	0.0	P
7943.3	95.0	95.4	1.5	-2.5	0.09	0.4	P
15848.9	95.0	93.2	2.5	-16.0	0.09	-1.8	P

Test Passed 20/07/2026

Frequency Weightings: C Network - IEC 61672-3 Ed.2.0 #13.3

Freq (Hz)	Ref. Level (dB)	Meas. Value (dB)	Tol. (dB)		Uncert. (dB)	Dev. (dB)	Result
63.1	95.0	95.0	1.0	-1.0	0.09	0.0	P
125.9	95.0	95.0	1.0	-1.0	0.09	0.0	P
251.2	95.0	95.0	1.0	-1.0	0.09	0.0	P
501.2	95.0	95.0	1.0	-1.0	0.09	0.0	P
1000.0	95.0	95.0	0.7	-0.7	0.09	0.0	P
1995.3	95.0	95.0	1.0	-1.0	0.09	0.0	P
3981.1	95.0	95.0	1.0	-1.0	0.09	0.0	P
7943.3	95.0	95.4	1.5	-2.5	0.09	0.4	P
15848.9	95.0	93.1	2.5	-16.0	0.09	-1.9	P

Test Passed 20/07/2026

Frequency Weightings: Z Network - IEC 61672-3 Ed.2.0 #13.3

Freq (Hz)	Ref. Level (dB)	Meas. Value (dB)	Tol. (dB)		Uncert. (dB)	Dev. (dB)	Result
63.1	95.0	95.0	1.0	-1.0	0.09	0.0	P
125.9	95.0	95.0	1.0	-1.0	0.09	0.0	P
251.2	95.0	95.0	1.0	-1.0	0.09	0.0	P
501.2	95.0	95.0	1.0	-1.0	0.09	0.0	P
1000.0	95.0	95.0	0.7	-0.7	0.09	0.0	P
1995.3	95.0	95.0	1.0	-1.0	0.09	0.0	P
3981.1	95.0	95.0	1.0	-1.0	0.09	0.0	P
7943.3	95.0	95.3	1.5	-2.5	0.09	0.3	P
15848.9	95.0	94.3	2.5	-16.0	0.09	-0.7	P

Test Passed 20/07/2026

Frequency and Time Weightings at 1 kHz IEC 61672-3 Ed.2.0 #14

Weightings	Ref. (dB)	Measured (dB)	Lim. (dB)		Uncert. (dB)	Dev. (dB)	Result
Time Netw							
Fast A	94.0	94.0	0.1	-0.1	0.09	0.0	P
Fast C	94.0	94.0	0.1	-0.1	0.09	0.0	P
Fast Z	94.0	94.0	0.1	-0.1	0.09	0.0	P
Slow A	94.0	94.0	0.1	-0.1	0.09	0.0	P
Leq A	94.0	94.0	0.1	-0.1	0.09	0.0	P
SEL A	114.0	114.0	0.1	-0.1	0.09	0.0	P

Test Passed 20/07/2026



Certificate Number: 12128

NATA Accreditation No: 20688

Level Linearity on the Reference Level Range - IEC 61672-3 Ed.2.0 #16

Ref. (dB)	Measured (dB)	Lim. (dB)	Uncert. (dB)	Dev. (dB)	Result	
Measurements are SPL measurements						
94.0	94.1	0.8	-0.8	0.09	0.1	P
99.0	99.0	0.8	-0.8	0.09	0.0	P
104.0	104.0	0.8	-0.8	0.09	0.0	P
109.0	109.0	0.8	-0.8	0.09	0.0	P
114.0	114.1	0.8	-0.8	0.09	0.1	P
119.0	119.1	0.8	-0.8	0.09	0.1	P
124.0	124.1	0.8	-0.8	0.09	0.1	P
129.0	129.0	0.8	-0.8	0.09	0.0	P
135.0	135.0	0.8	-0.8	0.09	0.0	P
136.0	136.0	0.8	-0.8	0.09	0.0	P
137.0	137.0	0.8	-0.8	0.09	0.0	P
138.0	138.1	0.8	-0.8	0.09	0.1	P
139.0	139.1	0.8	-0.8	0.09	0.1	P
94.0	94.1	0.8	-0.8	0.09	0.1	P
89.0	89.2	0.8	-0.8	0.09	0.2	P
84.0	84.2	0.8	-0.8	0.09	0.2	P
79.0	79.1	0.8	-0.8	0.09	0.1	P
74.0	74.1	0.8	-0.8	0.09	0.1	P
69.0	69.1	0.8	-0.8	0.09	0.1	P
64.0	64.1	0.8	-0.8	0.09	0.1	P
59.0	59.1	0.8	-0.8	0.09	0.1	P
54.0	54.1	0.8	-0.8	0.09	0.1	P
49.0	49.0	0.8	-0.8	0.09	0.0	P
44.0	44.0	0.8	-0.8	0.09	0.0	P
39.0	39.1	0.8	-0.8	0.09	0.1	P
34.0	34.0	0.8	-0.8	0.09	0.0	P
29.0	29.0	0.8	-0.8	0.09	0.0	P
24.0	24.0	0.8	-0.8	0.09	0.0	P
23.0	23.0	0.8	-0.8	0.09	0.0	P
22.0	22.0	0.8	-0.8	0.09	0.0	P
21.0	20.9	0.8	-0.8	0.09	-0.1	P
20.0	19.9	0.8	-0.8	0.09	-0.1	P

Test Passed 21/07/2026

Full scale setting: 140dB

Measured at 8 kHz

Toneburst Response - IEC 61672-3 Ed.2.0 #18

Burst type		Ref.	Measured	Lim.		Uncert.	Dev.	Result
		(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	
Fast	200 mSec	136.0	136.0	0.5	-0.5	0.09	0.0	P
Fast	2.0 mSec	119.0	118.9	1.0	-1.5	0.09	-0.1	P
Fast	0.25 mSec	110.0	109.8	1.0	-3.0	0.09	-0.2	P
Slow	200 mSec	129.6	129.6	0.5	-0.5	0.09	0.0	P
Slow	2.0 mSec	110.0	110.0	1.0	-3.0	0.09	0.0	P
SEL	200 mSec	130.0	130.0	0.5	-0.5	0.09	0.0	P
SEL	2.0 mSec	110.0	110.0	1.0	-1.5	0.09	0.0	P
SEL	0.25 mSec	101.0	100.9	1.0	-3.0	0.09	-0.1	P

Test Passed 21/07/2026



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Peak C Sound Level - IEC 61672-3 Ed.2.0 #19

Pulse Type	Pulse Freq.	Ref. RMS (dB)	Ref. Peak (dB)	Measured Value (dB)	Lim. (+/-dB)	Uncert. (dB)	Dev. (dB)	Result
1 cycle	8k	127.0	130.4	129.5	2.0	0.09	-0.9	P
Pos 1/2 cycle	500	130.0	132.4	131.8	1.0	0.09	-0.6	P
Neg 1/2 cycle	500	130.0	132.4	131.8	1.0	0.09	-0.6	P

Test Passed 21/07/2026

Overload Indication - IEC 61672-3 Ed.2.0 #20

	Deviation (dB)	Lim. (+/-dB)	Uncert. (dB)	Result
Level difference of positive and negative pulses:	0.2	1.5	0.09	P
Positive 1/2 cycle 4 kHz. Overload occurred at:	144.1			
Negative 1/2 cycle 4 kHz. Overload occurred at:	144.3			

Test Passed 21/07/2026

High Level Stability Test - IEC 61672-3 Ed.2.0 #21

Test signal: Sine wave at 1 kHz					
Initial level (dB)	Final level (dB)	Diff. (dB)	Lim. value (dB)	Uncert. (dB)	Result
139.0	139.0	0.0	0.1	0.09	P

Test Passed 21/07/2026

Long Term Stability Test - IEC 61672-3 Ed.2.0 #15

Test signal: Sine wave at 1 kHz					
Time interval (mm:SS)	StartLevel (dB)	StopLevel (dB)	Difference (dB)	Tolerance (dB)	Result
33:19	94.0	94.0	0.0	0.1	P

Test Passed 20/07/2026

Filter Test - IEC 61260.3 2019 1/1 Octave: Relative Attenuation at Midband Frequency #10.2

Instrument Class: 1
Reference SPL: 94 dB
Frequency Base: 10
Octave Band: 1/1
Tolerance (dB): +/-0.4

Octave Band (Hz)	Frequency (Hz)	Filter Out (dB)	Filter In (dB)	Difference (dB)	Uncert. (dB)	Result
16	15.849	93.90	93.90	0.00	0.09	P
31.5	31.623	94.00	94.00	0.00	0.09	P
63	63.096	94.00	94.00	0.00	0.09	P
125	125.893	94.00	94.00	0.00	0.09	P
250	251.189	94.00	94.00	0.00	0.09	P
500	501.187	94.00	94.00	0.00	0.09	P
1000	1000.000	94.00	94.00	0.00	0.09	P
2000	1995.262	94.00	94.00	0.00	0.09	P
4000	3981.072	94.00	94.00	0.00	0.09	P
8000	7943.282	94.00	94.00	0.00	0.09	P
16000	15848.932	93.80	93.70	0.10	0.09	P

Test Passed 21/07/2026



Certificate Number: 12128

NATA Accreditation No: 20688

Filter Test - IEC 61260.3 2019 1/1 Octave: Lower Limit of Operating Range #12

Reference Range: 55 - 135 dB

1/1 Octave Band	Frequency	Level (dB)	Max (dB)	Uncert. (dB)	Result
31.5	31.623	17.80	35.00	0.09	P
63	63.096	15.30	35.00	0.09	P
125	125.893	13.80	35.00	0.09	P
250	251.189	10.80	35.00	0.09	P
500	501.187	12.10	35.00	0.09	P
1000	1000.000	11.40	35.00	0.09	P
2000	1995.262	13.80	35.00	0.09	P
4000	3981.072	16.30	35.00	0.09	P
8000	7943.282	20.30	35.00	0.09	P
16000	15848.932	24.70	35.00	0.09	P

Test Passed 21/07/2026

Filter Test - IEC 61260.3 2019 1/1 Octave: Relative Attenuation #13

Test 1/1 Octave Filter X=-5 fexact=31.623Hz Class 1

Uncertainty: < 4dB = 0.09dB, 4-80dB = 0.33dB

Nominal f [Hz]	Measured L [dB]	LoLim [dB]	HiLim [dB]	Result [P/F]
1.995	51.3	0.0	64.0	P
3.981	66.1	0.0	73.0	P
7.943	77.5	0.0	92.0	P
15.849	104.8	0.0	116.5	P
22.387	130.4	129.0	132.0	P
24.406	133.8	132.7	134.3	P
26.607	134.0	133.4	134.3	P
29.007	133.9	133.6	134.3	P
31.623	133.9	133.7	134.3	P
34.475	134.0	133.6	134.3	P
37.584	134.2	133.4	134.3	P
40.973	133.8	132.7	134.3	P
44.668	130.5	129.0	132.0	P
63.096	103.5	0.0	116.5	P
125.893	28.9	0.0	92.0	P
251.189	29.3	0.0	73.0	P
501.187	30.4	0.0	64.0	P

Test 1/1 Octave Filter X= 0 fexact=1000.000Hz Class 1

Uncertainty: < 4dB = 0.09dB, 4-80dB = 0.33dB

Nominal f [Hz]	Measured L [dB]	LoLim [dB]	HiLim [dB]	Result [P/F]
63.096	56.6	0.0	64.0	P
125.893	56.7	0.0	73.0	P
251.189	60.8	0.0	92.0	P
501.187	104.3	0.0	116.5	P
707.946	129.8	129.0	132.0	P
771.792	133.7	132.7	134.3	P
841.395	134.2	133.4	134.3	P
917.276	134.0	133.6	134.3	P
1000.000	134.0	133.7	134.3	P
1090.184	134.0	133.6	134.3	P
1188.502	134.2	133.4	134.3	P
1295.687	134.1	132.7	134.3	P
1412.538	131.3	129.0	132.0	P
1995.262	104.5	0.0	116.5	P
3981.072	50.1	0.0	92.0	P
7943.282	51.9	0.0	73.0	P



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15848.932 54.3 0.0 64.0 P
Test 1/1 Octave Filter X= 4 fexact=15848.932Hz Class 1
Uncertainty: < 4dB = 0.09dB, 4-80dB = 0.33dB

Nominal	Measured	LoLim	HiLim	Result
f[Hz]	L[dB]	[dB]	[dB]	[P/F]
1000.000	60.0	0.0	64.0	P
1995.262	61.0	0.0	73.0	P
3981.072	65.3	0.0	92.0	P
7943.282	103.2	0.0	116.5	P
11220.185	131.2	129.0	132.0	P
12232.071	134.0	132.7	134.3	P
13335.214	134.3	133.4	134.3	P
14537.844	134.2	133.6	134.3	P
15848.932	133.8	133.7	134.3	P
17278.260	133.8	133.6	134.3	P
18836.491	134.0	133.4	134.3	P
20535.250	134.0	132.7	134.3	P
22387.211	129.3	129.0	132.0	P
31622.777	43.5	0.0	116.5	P
63095.734	48.1	0.0	92.0	P
125892.541	53.5	0.0	73.0	P
200000.000	52.7	0.0	64.0	P

Test Passed 21/07/2026

Filter Test - IEC 61260.3 2019 1/1 Octave: Linear Operating Range #11.5 and Overload Indicator #11.8

Test 1/1 Octave Filter X=-5 fexact=31.623Hz Class 1

Uncertainty = 0.09 dB

Ref.	Measured	Lim.	Uncert.	Dev.	Result
(dB)	(dB)	(dB)	(dB)	(dB)	
94.0	93.9	0.7 -0.7	0.09	-0.1	P
99.0	98.9	0.5 -0.5	0.09	-0.1	P
104.0	103.9	0.5 -0.5	0.09	-0.1	P
109.0	108.9	0.5 -0.5	0.09	-0.1	P
114.0	113.9	0.5 -0.5	0.09	-0.1	P
119.0	118.9	0.5 -0.5	0.09	-0.1	P
124.0	123.9	0.5 -0.5	0.09	-0.1	P
129.0	128.9	0.5 -0.5	0.09	-0.1	P
134.0	133.9	0.5 -0.5	0.09	-0.1	P
135.0	134.9	0.5 -0.5	0.09	-0.1	P
136.0	135.9	0.5 -0.5	0.09	-0.1	P
137.0	136.9	0.5 -0.5	0.09	-0.1	P
138.0	137.9	0.5 -0.5	0.09	-0.1	P
139.0	138.9	0.5 -0.5	0.09	-0.1	P
140.0	139.9	0.5 -0.5	0.09	-0.1	P
141.0	* Indicates Overload				
94.0	93.9	0.7 -0.7	0.09	-0.1	P
89.0	88.9	0.7 -0.7	0.09	-0.1	P
84.0	84.0	0.7 -0.7	0.09	0.0	P
79.0	78.9	0.7 -0.7	0.09	-0.1	P
74.0	73.9	0.7 -0.7	0.09	-0.1	P
69.0	68.9	0.7 -0.7	0.09	-0.1	P
64.0	64.0	0.7 -0.7	0.09	0.0	P
59.0	58.9	0.7 -0.7	0.09	-0.1	P
58.0	57.9	0.7 -0.7	0.09	-0.1	P
57.0	56.9	0.7 -0.7	0.09	-0.1	P
56.0	55.9	0.7 -0.7	0.09	-0.1	P
55.0	54.9	0.7 -0.7	0.09	-0.1	P





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Test 1/1 Octave Filter X= 0 fexact=1000.000Hz Class 1

Uncertainty = 0.09 dB

Ref. (dB)	Measured (dB)	Lim. (dB)	Uncert. (dB)	Dev. (dB)	Result
94.0	94.0	0.7 -0.7	0.09	0.0	P
99.0	99.0	0.5 -0.5	0.09	0.0	P
104.0	104.0	0.5 -0.5	0.09	0.0	P
109.0	109.0	0.5 -0.5	0.09	0.0	P
114.0	114.0	0.5 -0.5	0.09	0.0	P
119.0	119.0	0.5 -0.5	0.09	0.0	P
124.0	124.0	0.5 -0.5	0.09	0.0	P
129.0	129.0	0.5 -0.5	0.09	0.0	P
134.0	134.0	0.5 -0.5	0.09	0.0	P
135.0	135.0	0.5 -0.5	0.09	0.0	P
136.0	136.0	0.5 -0.5	0.09	0.0	P
137.0	137.0	0.5 -0.5	0.09	0.0	P
138.0	138.0	0.5 -0.5	0.09	0.0	P
139.0	139.0	0.5 -0.5	0.09	0.0	P
140.0	140.0	0.5 -0.5	0.09	0.0	P
141.0	* Indicates Overload				
94.0	94.0	0.7 -0.7	0.09	0.0	P
89.0	89.0	0.7 -0.7	0.09	0.0	P
84.0	84.0	0.7 -0.7	0.09	0.0	P
79.0	79.0	0.7 -0.7	0.09	0.0	P
74.0	74.0	0.7 -0.7	0.09	0.0	P
69.0	69.0	0.7 -0.7	0.09	0.0	P
64.0	64.0	0.7 -0.7	0.09	0.0	P
59.0	59.0	0.7 -0.7	0.09	0.0	P
58.0	58.0	0.7 -0.7	0.09	0.0	P
57.0	57.0	0.7 -0.7	0.09	0.0	P
56.0	56.0	0.7 -0.7	0.09	0.0	P
55.0	55.0	0.7 -0.7	0.09	0.0	P

Test 1/1 Octave Filter X= 4 fexact=15848.932Hz Class 1

Uncertainty = 0.09 dB

Ref. (dB)	Measured (dB)	Lim. (dB)	Uncert. (dB)	Dev. (dB)	Result
94.0	94.0	0.7 -0.7	0.09	0.0	P
99.0	98.9	0.5 -0.5	0.09	-0.1	P
104.0	103.8	0.5 -0.5	0.09	-0.2	P
109.0	108.7	0.5 -0.5	0.09	-0.3	P
114.0	113.8	0.5 -0.5	0.09	-0.2	P
119.0	118.8	0.5 -0.5	0.09	-0.2	P
124.0	123.8	0.5 -0.5	0.09	-0.2	P
129.0	128.8	0.5 -0.5	0.09	-0.2	P
134.0	133.8	0.5 -0.5	0.09	-0.2	P
135.0	134.8	0.5 -0.5	0.09	-0.2	P
136.0	135.8	0.5 -0.5	0.09	-0.2	P
137.0	136.7	0.5 -0.5	0.09	-0.3	P
138.0	137.7	0.5 -0.5	0.09	-0.3	P
139.0	138.8	0.5 -0.5	0.09	-0.2	P
140.0	139.8	0.5 -0.5	0.09	-0.2	P
141.0	140.8	0.5 -0.5	0.09	-0.2	P
142.0	* Indicates Overload				
94.0	93.8	0.7 -0.7	0.09	-0.2	P
89.0	88.8	0.7 -0.7	0.09	-0.2	P
84.0	83.8	0.7 -0.7	0.09	-0.2	P
79.0	78.8	0.7 -0.7	0.09	-0.2	P
74.0	73.8	0.7 -0.7	0.09	-0.2	P
69.0	68.8	0.7 -0.7	0.09	-0.2	P

Calibration Location:

Unit 5, 1-9 George Thorn Drive, Thornlands, QLD 4164

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64.0	63.8	0.7	-0.7	0.09	-0.2	P
59.0	58.8	0.7	-0.7	0.09	-0.2	P
58.0	57.8	0.7	-0.7	0.09	-0.2	P
57.0	56.8	0.7	-0.7	0.09	-0.2	P
56.0	55.8	0.7	-0.7	0.09	-0.2	P
55.0	54.8	0.7	-0.7	0.09	-0.2	P

Filter Test - IEC 61260.3 2019 #11.8 - Instrument Overload Indicated by *
Test Passed 21/07/2026



**Certificate Number: 10664****NATA Accreditation No: 20688**

CERTIFICATE OF CALIBRATION

Customer: **Expert Testing Services**
63 Parkway Drive, Marsden Park, NSW 2765

Test Object:
Manufacturer:
Model:
Serial No:
Class:
Adapter Make:
Adapter Model:

Calibrator
Pulsar
105
102745
Class 1
None
N/A

Environmental Conditions:	Pressure	Temperature	Relative Humidity
Reference Conditions:	101.325 kPa	23.0 °C	50.0 % RH
Measurement Conditions:	101.164 kPa	23.9 °C	63.9 % RH

Measurement Results:	Level	Frequency	THD + Noise
1:	93.90 dB	1000.20 Hz	1.33 %
2:	93.90 dB	1000.23 Hz	1.34 %
3:	93.90 dB	1000.17 Hz	1.36 %
Result (Average):	93.90 dB	1000.20 Hz	1.34 %
Expanded Uncertainty:	0.11 dB	1.00 Hz	0.3 %
Degree of Freedom:	>100	>100	>100
Coverage Factor:	2.00	2.00	2.00
Level When Received:	93.72dB		

The stated level is relative to 20µPa and is valid at measurement conditions.
Tested when received -level adjustment of +0.18dB required to comply with tolerances in IEC 60942.

Accredited for Compliance with ISO/IEC 17025 - Calibration

The results of the tests, calibrations and/or measurements included in this document are traceable to the International System of Units (SI) via International and Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Date of Calibration: 29/10/2025
Date of Issue: 03/11/2025
Authorised Signatory:

Daniel Richardson



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Certificate Number: 10664

NATA Accreditation No: 20688

Calibration and Verification Performed

The performed tests refer to sections 5.3, 5.4 and 5.6 in IEC 60942 (2017): Electro-acoustics - Sound Calibrators. The calibrator has been tested as described in Annex B of the same standard.

Conformity

For all tests, the expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k , of 2 calculated in accordance with the principles stated in *JCGM 100:2008 - Evaluation of Measurement Data - Guide to the Expression of Uncertainty in Measurement*.

Except where noted otherwise, the results provided in this report are associated with the following expanded uncertainties:

0.11 dB for Sound Level at nominal frequencies of 250 Hz and 1 kHz

0.1 % for Frequency

0.3 % for Distortion

Instruments and Program

The instruments used for the measurements presented in this certificate:

Sound pressure level: GRAS 40AG reference microphone

Voltage: Agilent 34401A digital multimeter

Frequency: Agilent 34401A digital multimeter

THD&N: HP 8903B audio analyser

A complete list of instruments, hardware and software, that has been used for this calibration is separately available from the calibration laboratory.

Version of Calibration Software Used: CalCal-CT-6.1.3 12-Dec-2024

Certificate Version: 4.15

Traceability

The measured values are traceable to the following laboratories:

Sound Pressure Level: National Measurement Institute, Australia

Voltage: TR Calibration, Australia

Frequency: TR Calibration, Australia

THD and Noise: TR Calibration, Australia

Ambient Pressure: IPAC Solutions, Australia

Temperature: IPAC Solutions, Australia

Relative Humidity: IPAC Solutions, Australia

Scope of Calibration Certificate

This certificate only relates to the test object calibrated. This certificate shall only be reproduced in full with the permission of Calibre Technology.

Calibration Location:

Unit 3, 4 Tombo Street, Capalaba, QLD 4157

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enquiries@calibretechnology.com.au

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ETS Hire Pty Ltd
9/171 Power Street
GLENDENNING NSW 2761

Attention: Hire Department

Manufacturer:	Kestrel	Calibration Date:	23-07-2026
Model Number:	5400	Calibration Due Date:	23-07-2027
Description:	Kestrel Heat Stress Tracker	Calibration Interval:	12 months
Asset Number:	N/A	Condition as Found:	OK
Serial Number:	3042566	Condition as Left:	OK
Temperature:	23°C	Procedure:	Kestrel Cal Procedure
Time:	-	Relative Humidity:	49.7% ± 10%
Primary Reference Equipment:	Lutron RH & Temp Meter	Reference Equipment SN:	Q856043
Reference Equipment Model:	HT-3009	Reference Equipment NATA Report #:	39961-1N

Remarks: The item described has been calibrated using in-house and manufacturers calibration procedure. All measurements have been made using manufacturers calibration chamber a NATA traceable reference equipment.

TEST RESULTS

EQUIPMENT SN: 3042566

Calibration Date: 23-07-2026

FUNCTION 1: Relative Humidity

MASTER READING %RH	U.U.T READING %RH	ERROR %RH
32.8	34.0	1.2
74.0	73.3	-0.7

FUNCTION 2: Ambient Temperature

MASTER READING °C	U.U.T READING °C	ERROR °C
30.0	30.6	0.6
60.0	58.2	-1.8

FUNCTION 3: Wind Speed

MASTER READING m/s	U.U.T READING m/s	ERROR m/s
2.5	2.6	0.1
10.0	9.9	-0.1
20.0	19.7	-0.3

FUNCTION 4: Globe Temperature

MASTER READING °C	U.U.T READING °C	ERROR °C
10.0	10.3	0.3
30.0	29.6	-0.4
50.0	50.5	0.5

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