

Environmental Noise Monitoring Report

Monthly Saturday Afternoon Attended Construction Noise Monitoring

Date: 28 October 2026

To: Jaden Park

Project: Bellambi Heights BESS Projects

Subject: Monthly attended noise monitoring letter report for Saturday, 24 October 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, 24 October 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, 24 October 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.



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 11 February 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
24 OCT 2026	15:38 – 15:53	**Location A** **Latitude:** -32.315032 **Longitude:** 149.460670 Approx 6m off fenceline	57.8 dB	37.3 dB	**Anemometer Reading** Max: 15.4 km/h Avg: 11.9 km/h NE **BOM** 13 km/h NNE	26.5°C Cloudy – 50% Chance of Rain Approx 13-15 mostly large vehicles passed. Vacant pasture with livestock at the time of the assessment No worksite noise detected during the monitoring

Date	Time	Location	LAeq	LA90	Wind speed / direction	Site activity / Observations
24 OCT 2026	16:09 – 16:24	**Location B** **Latitude:** -32.337977 **Longitude:** 149.470142 Adjacent star picket approx. 6m north of Telstra white pvc marker post	44.0 dB	33.3 dB	**Anemometer Reading** Max: 6.8 km/h Avg: 4.5 km/h NE **BOM** 11 km/h NNE	26.2°C Slightly cloudy Background vehicle noise from highway only Local dirt road to minimal properties



5. Conclusion

Attended noise monitoring was undertaken at Locations A and B on Saturday, 24 October 2026 during the approved extended working hours. The measured LAeq levels were 57.8 dB at Location A and 44 dB at Location B. Corresponding background LA90 levels were 37.3 dB and 33.3 dB respectively.

The highest noise level was recorded at Location A and was attributable to frequent traffic on Castlereagh Highway, including the predominantly heavy vehicles. Background highway traffic was also the principal audible source at Location B. No worksite noise was detected at Location A and Location B.

On this basis, construction activities were not a discernible contributor to the measured noise environment during the monitoring periods.

Reported by

Andres Ortega

Occupational Hygienists

Authorised by:

Juliet Duffy MSM Syd Uni

EnviroScience Solutions Director

6. Photographic Log



Photo 01: Location A – Anemometer Reading



Photo 02: Location A – Noise Reading



Photo 03: Location B

Measurement Summary Report

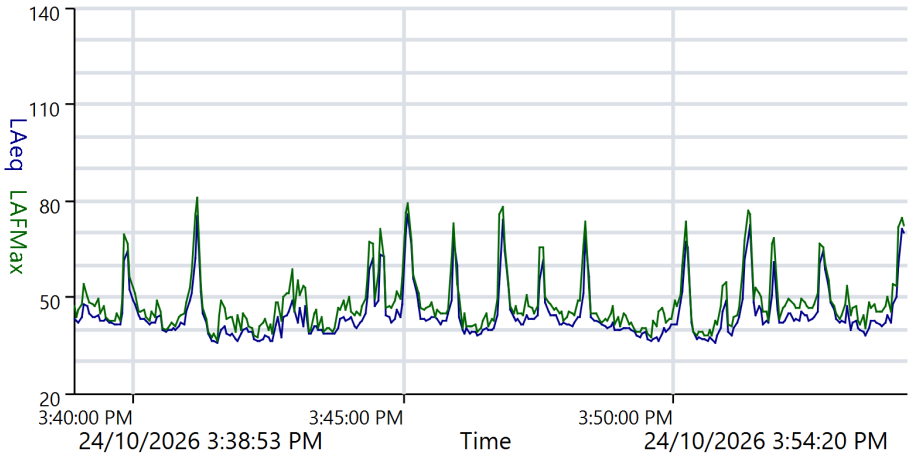
Name	1			
Time	24/10/2026 3:38:53 PM	**Person**	**Place**	**Project**
Duration	00:15:27		EnviroScience	55352 - Bellambi
Instrument	PN2560, Model 45		Orange, NSW 2800	

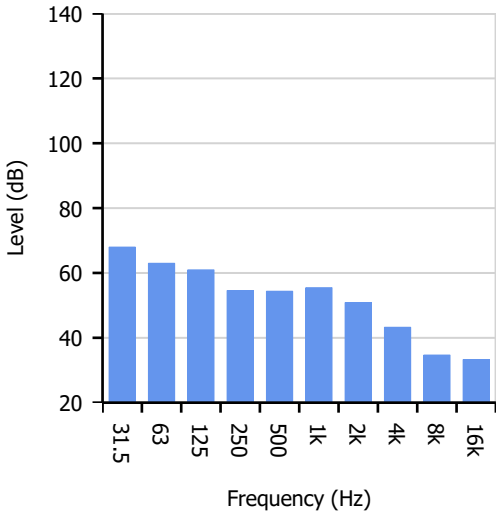
Calibration

Before	24/10/2026 3:37 PM	Offset	-0.20 dB	**After**	Offset

Basic Values	
LAeq	57.8 dB
LAE	87.5 dB
LAFMax	81.1 dB

Statistical Levels (Ln)	
LAF1	72.0 dB
LAF5	59.7 dB
LAF10	51.7 dB
LAF50	41.8 dB
LAF90	37.3 dB
LAF95	36.4 dB
LAF99	35.4 dB





Measurement Summary Report

Name	2			
Time	24/10/2026 4:09:57 PM	**Person**	**Place**	**Project**
Duration	00:17:27		EnviroScience	55352 - Bellambi
Instrument	PN2560, Model 45		Orange, NSW 2800	

Calibration

Before	24/10/2026 3:37 PM	Offset	-0.20 dB	**After**	Offset

Basic Values	
LAeq	44.0 dB
LAE	74.2 dB
LAFMax	64.4 dB

Statistical Levels (Ln)	
LAF1	54.4 dB
LAF5	48.2 dB
LAF10	46.2 dB
LAF50	39.6 dB
LAF90	33.3 dB
LAF95	31.9 dB
LAF99	30.6 dB

