

EARBA STORAGE

A GILKES ENERGY COMPANY

Earba Pumped Storage Hydro Scheme EIA Report

Appendix 18.1: SQA Statement and Baseline Survey Data

February 2024



Quality Information

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SLR Consulting

Checked by

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Revision History

Revision

01

Revision Date

February 2024

Details

Issue to ECU

Authorised

Gavin McGill

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Appendix 18.1 SQA Statement and Baseline Survey Data

SQA Statement

The assessment has required a suitable level of technical ability and has been undertaken by a Suitably Qualified Person (SQP). An individual with all the following credentials has been considered a SQP for this assessment:

Has a minimum of three years' verifiable experience (within the last five years) of providing noise impact assessments in planning. Such experience has clearly demonstrated a practical understanding of factors affecting acoustics in relation to the proposed development use and in the built environment in general, including acting in an advisory capacity to provide recommendations and design advice in planning, and;

Holds a recognised acoustic qualification and membership of an appropriate professional body. The primary professional body for acoustics in the UK is the Institute of Acoustics.

This assessment has been led and managed by a SQP as defined above.

- Where some elements of the assessment (e.g. measurements) have been carried out by an acoustician who does not meet the requirements above, this has been undertaken with the direct guidance and supervision of a SQP who has reviewed, agreed and overseen the measurement methodology and any results obtained.
- The SQP confirms that the relevant measurements and calculations:
- Represent good industry practice in accordance with available guidance.
- Are appropriate given the development being assessed and scope of works proposed.
- Avoid invalid, biased and exaggerated claims.
- The checker and author of this document confirm that they both comply with the definition of a SQP defined in this Section.

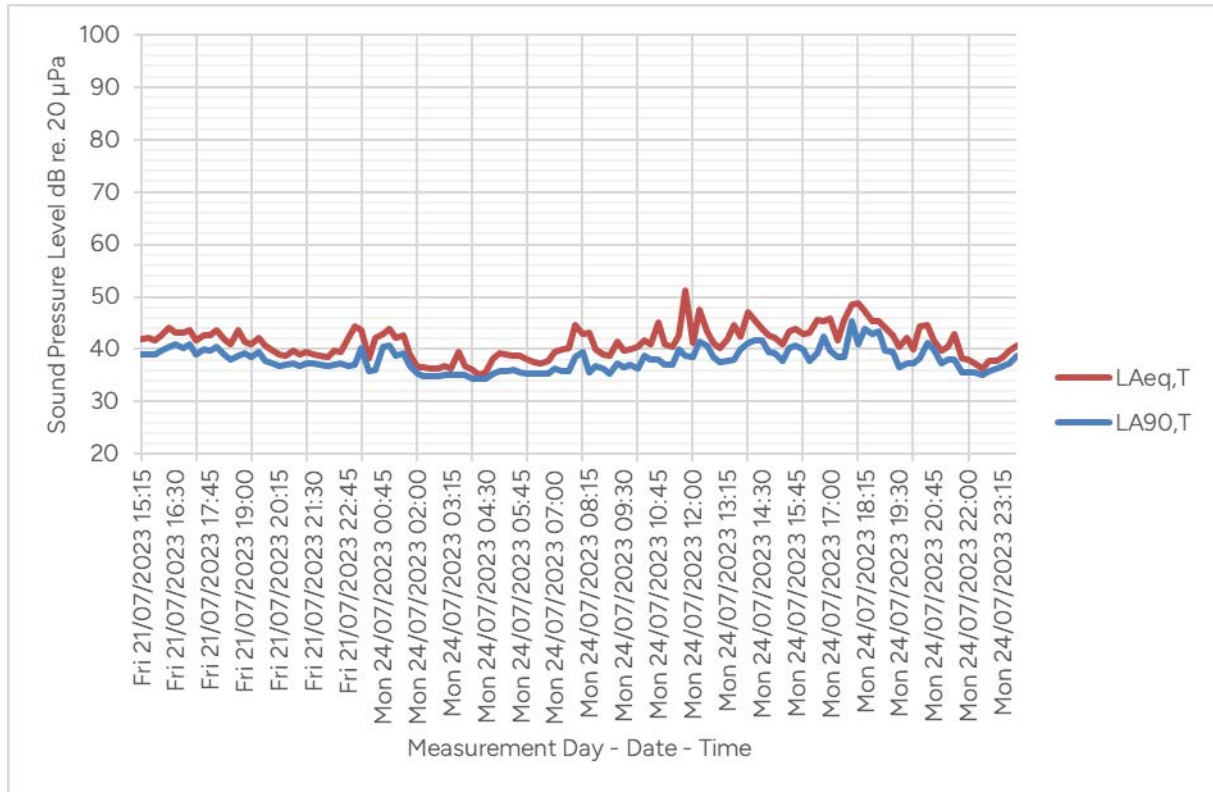
SLR Consulting Limited

Vince Taylor, BSc. (Hons) MSc MIOA
Technical Director- Acoustics

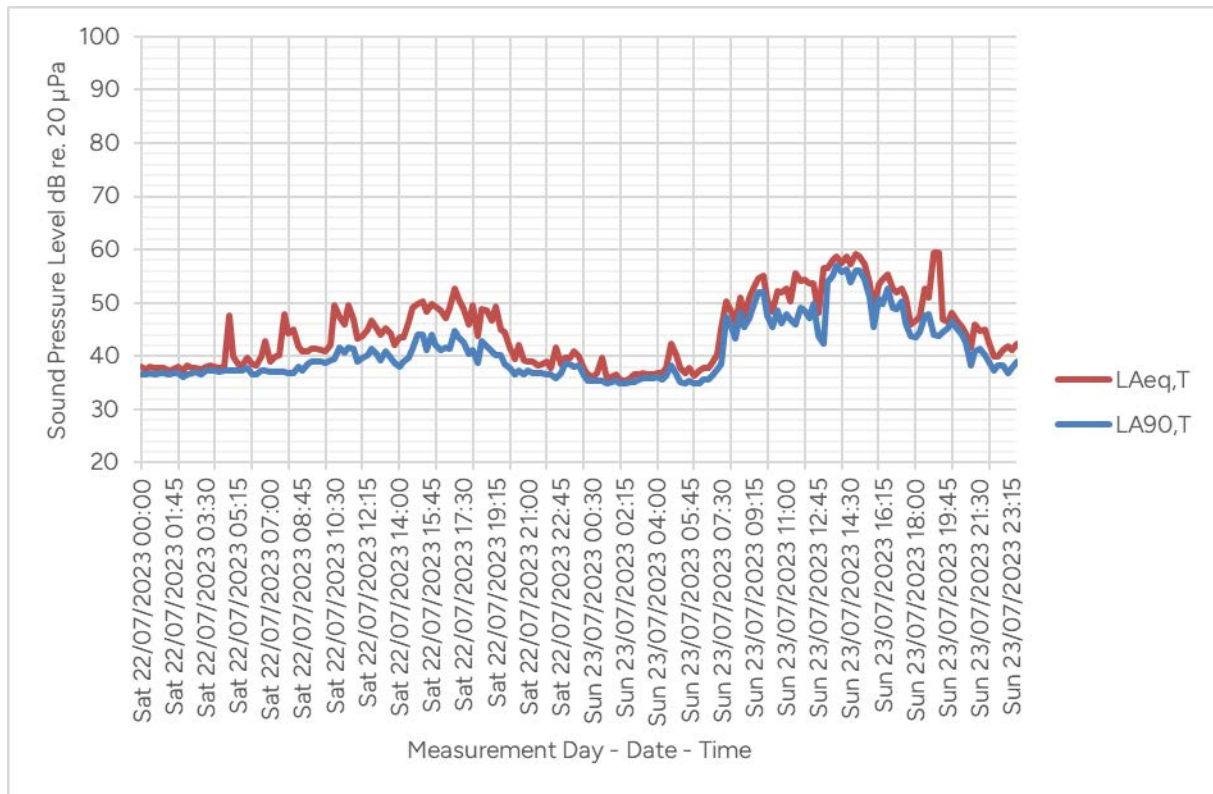
Michelle Dawson BSc(Hons) MIOA
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Baseline Survey Data

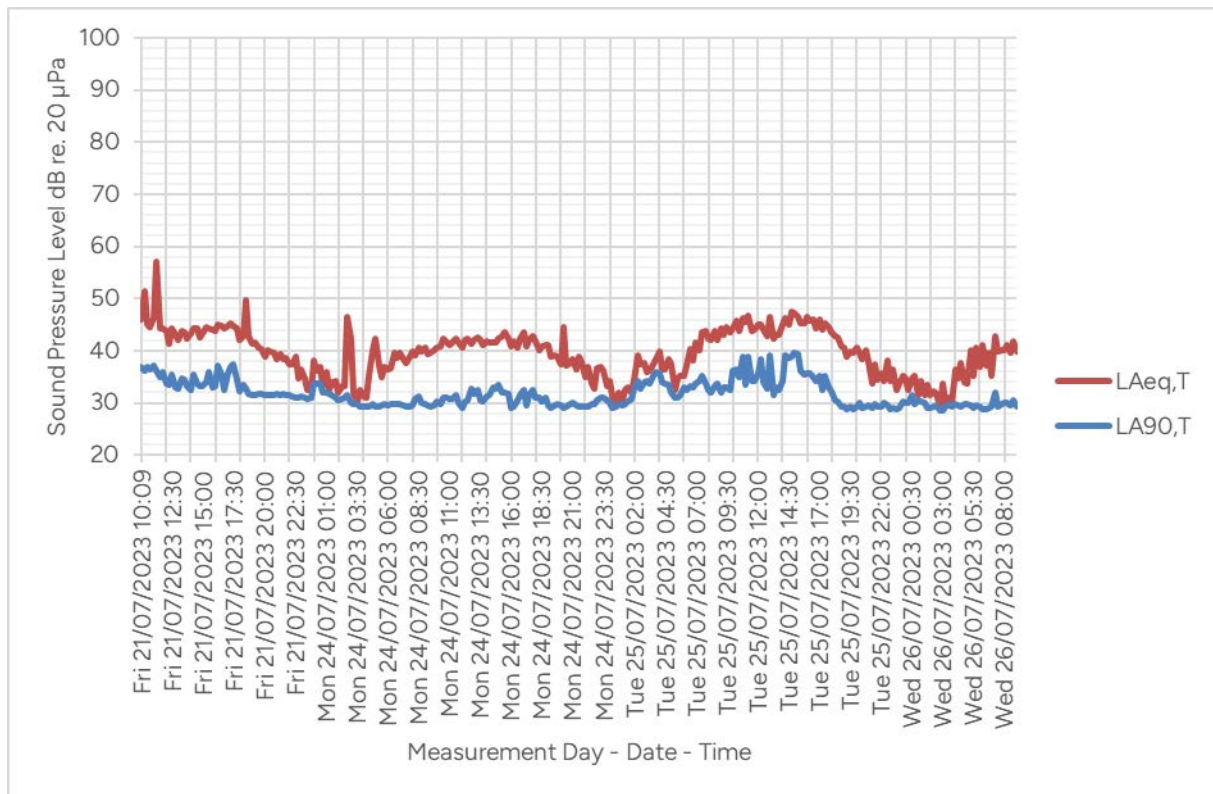
ML1- Weekday Survey Data Summary dB $L_{A90,T}$ / dB $L_{Aeq,T}$



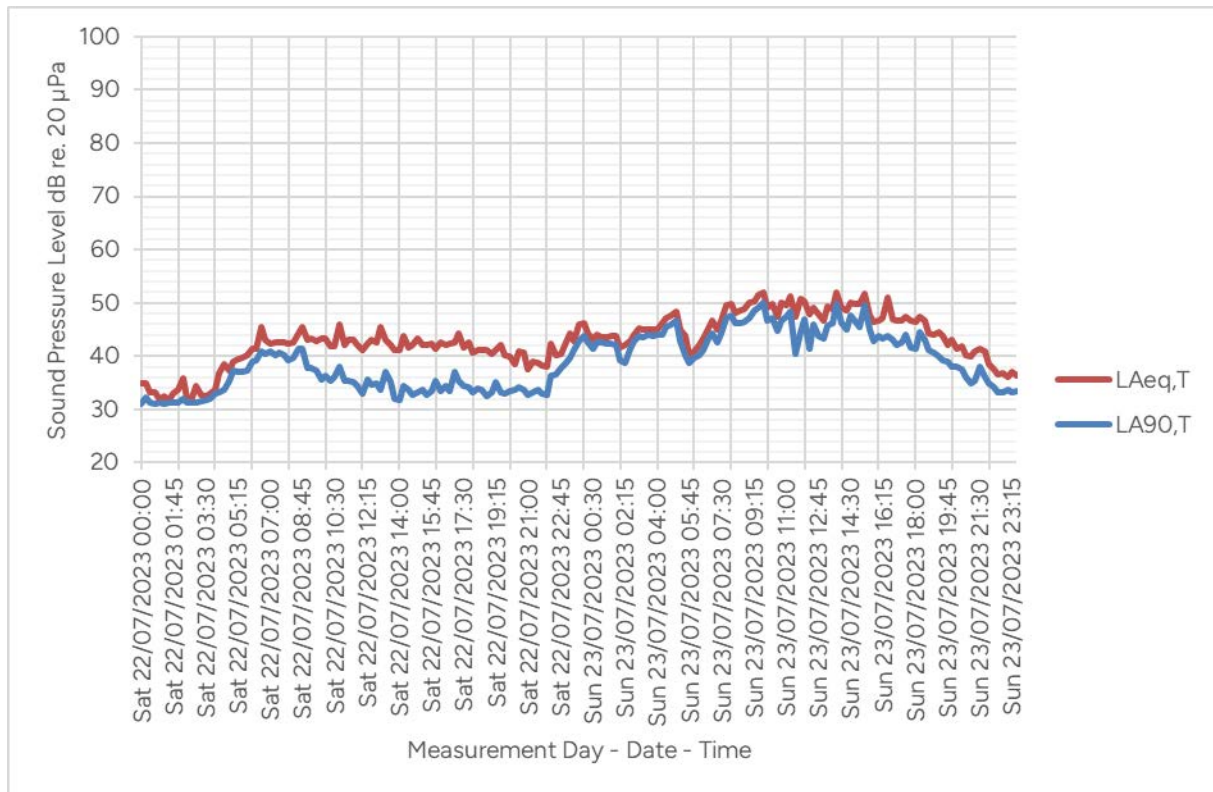
ML1- Weekend Survey Data Summary dB $L_{A90,T}$ / dB $L_{Aeq,T}$



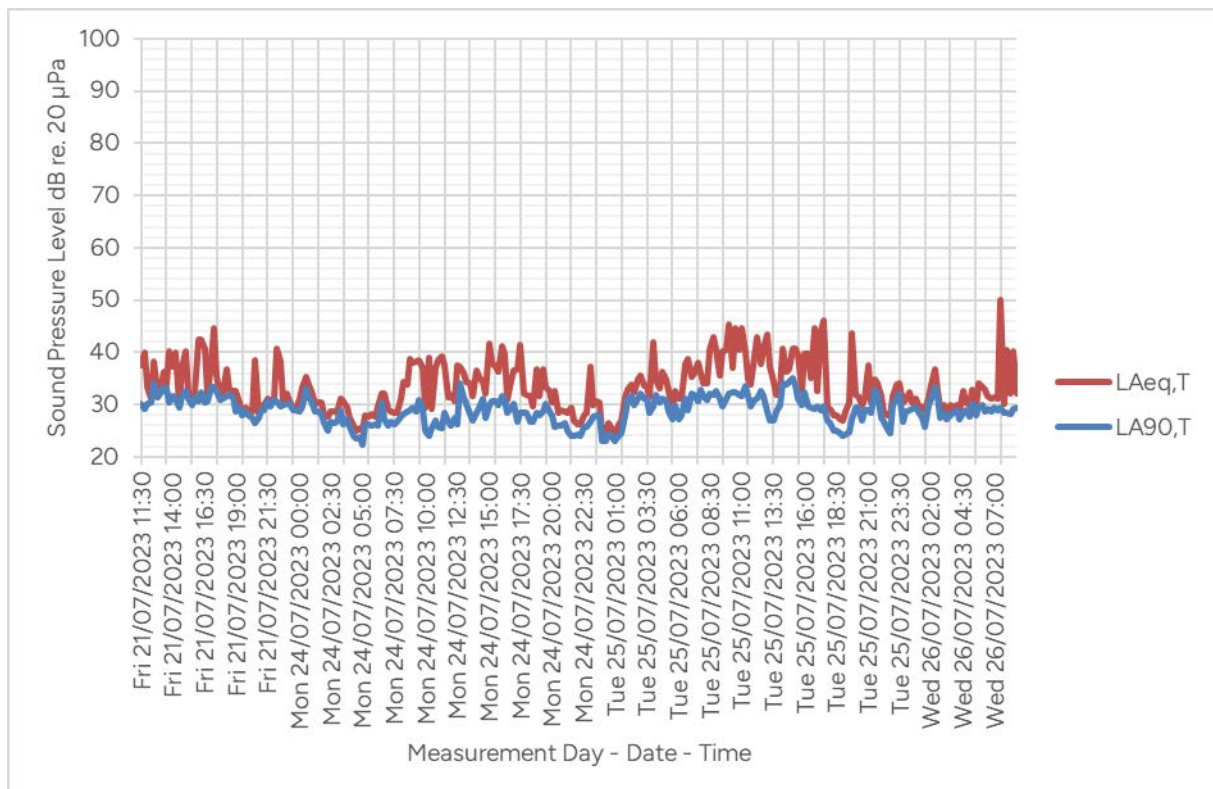
ML2- Weekday Survey Data dB LA90 T/dB LAeqT



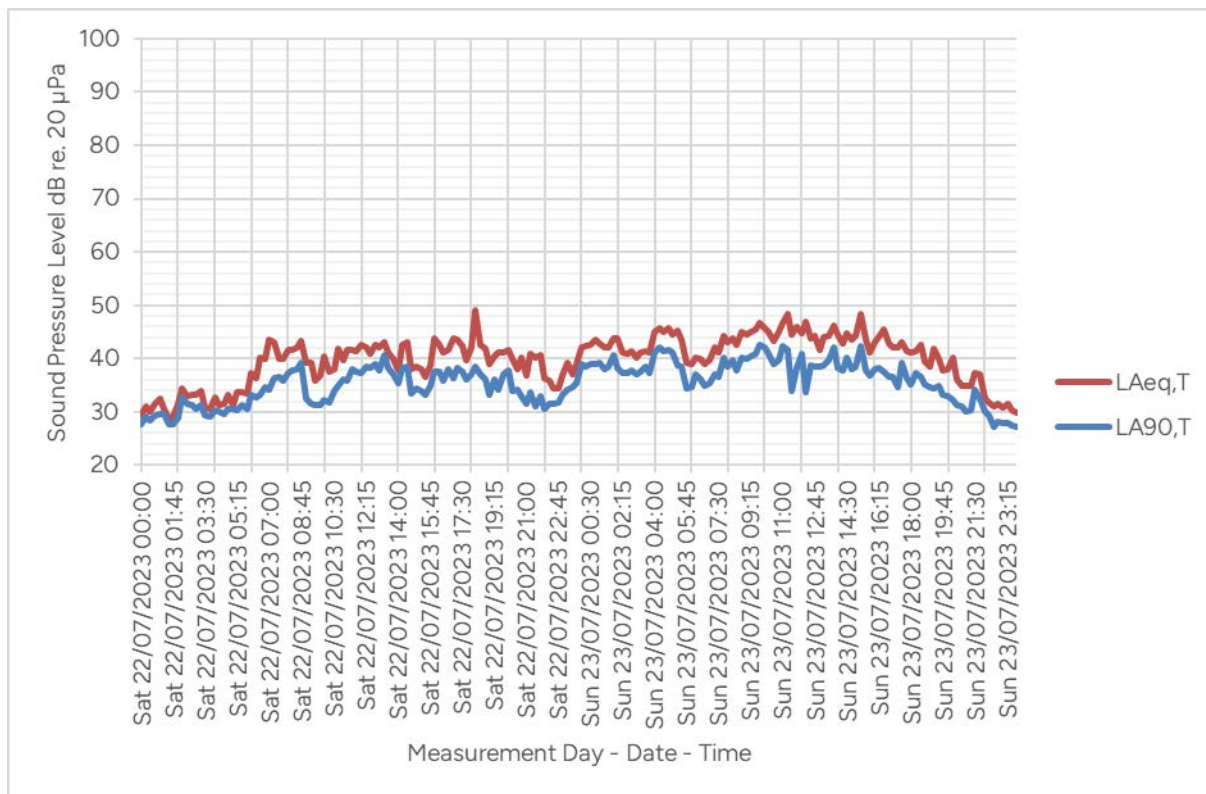
ML2 Weekend Survey Data dB LA90 T/dB LAeqT



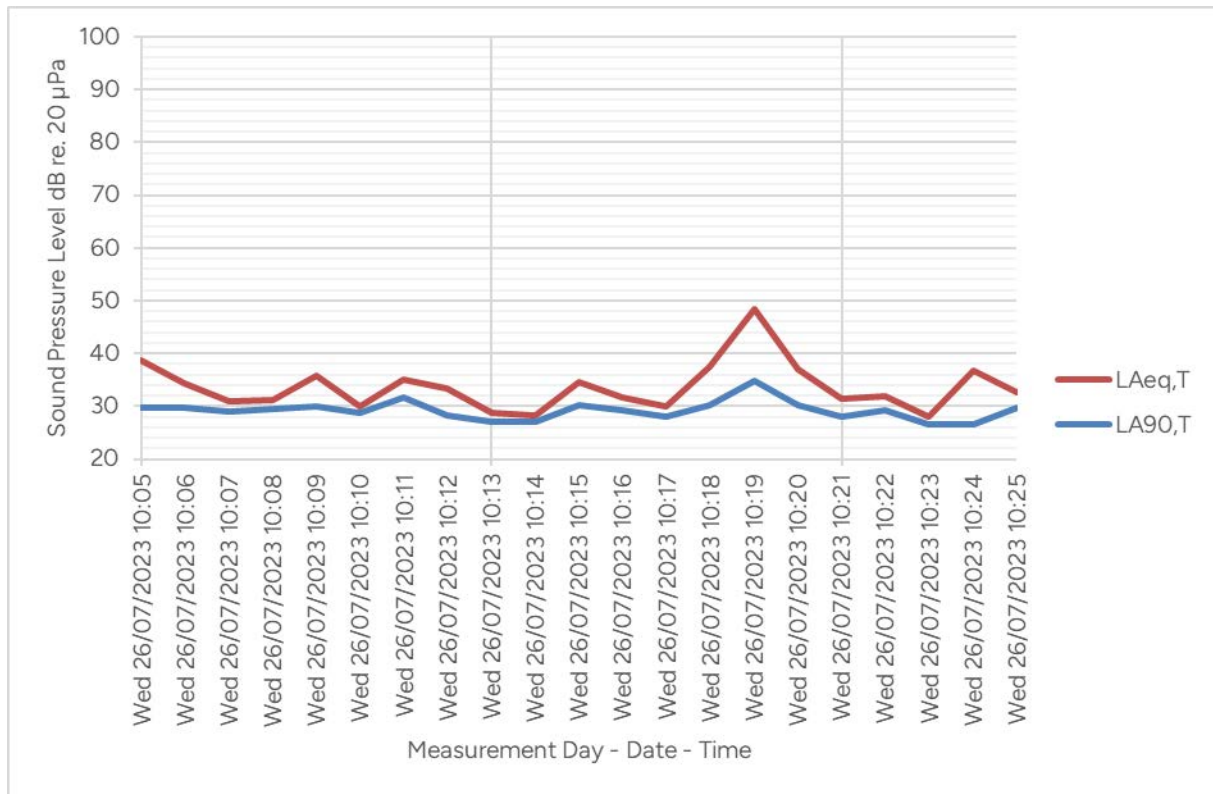
ML3 Weekday Survey Data dB LA90,T/dB LAeq,T



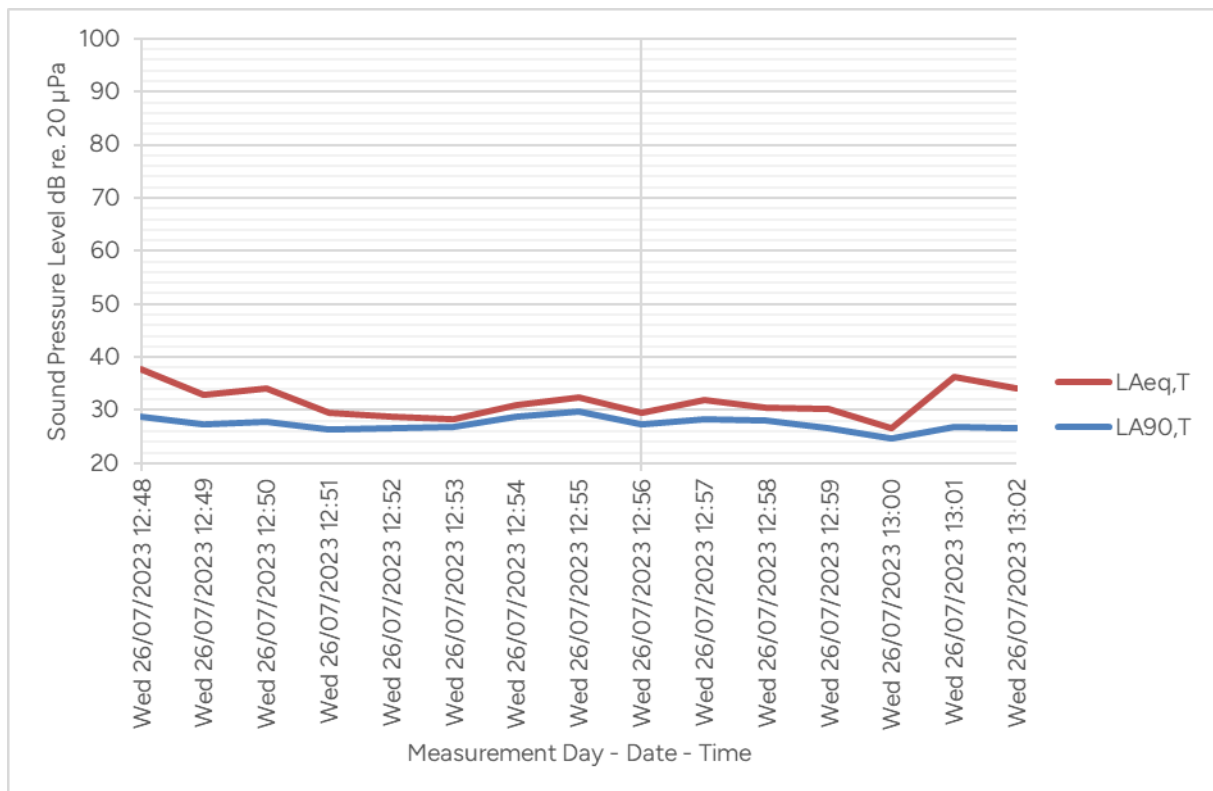
ML3 Weekend Survey Data dB $L_{A90,T}$ /dB $L_{Aeq,T}$



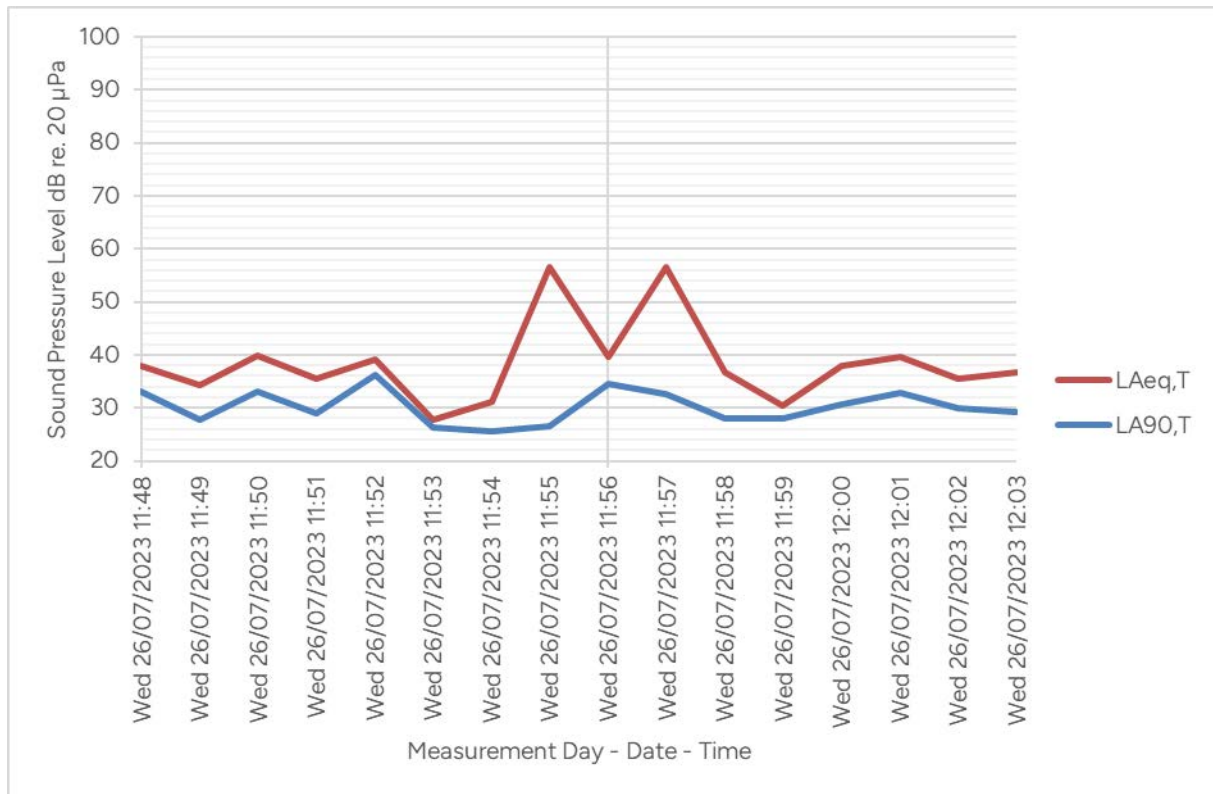
ML4 Attended Short Term Measurements Survey Data dB $L_{A90,T}$ /dB $L_{Aeq,T}$



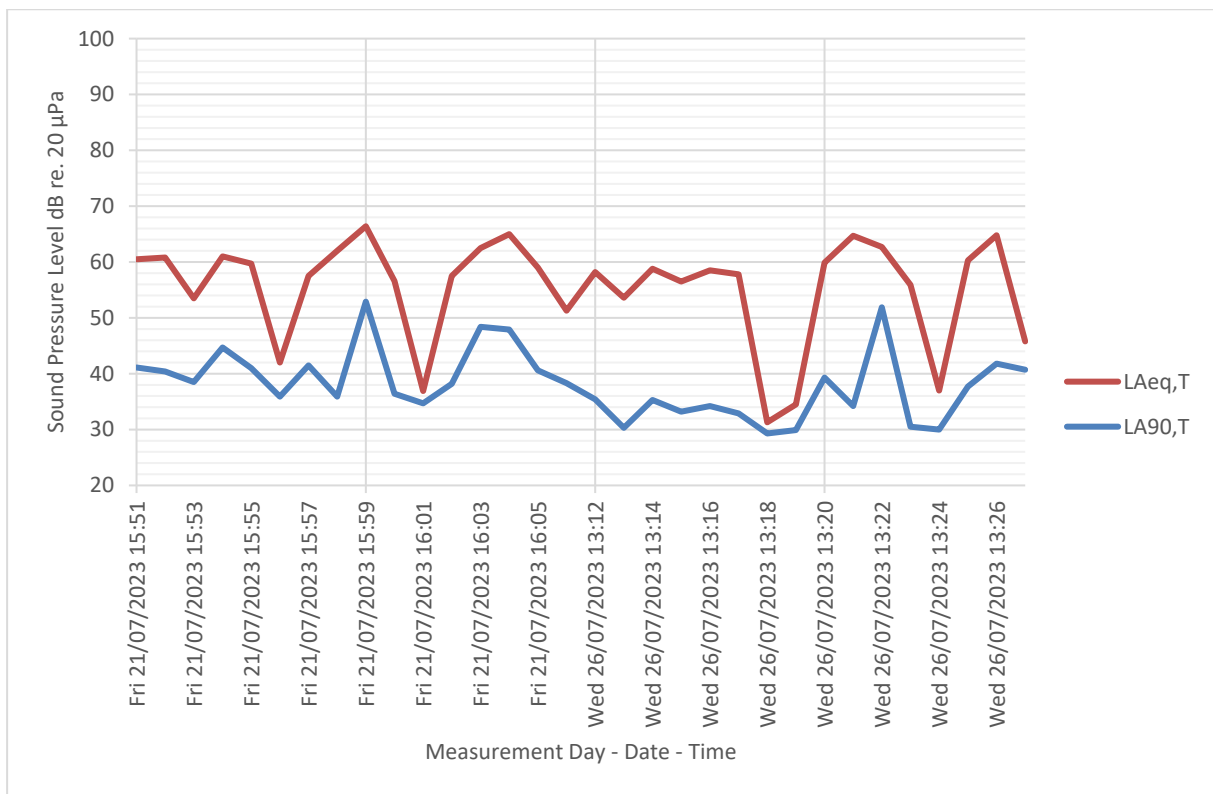
ML5 Attended Short Term Measurements Survey Data dB LA90,T/dB LAeq,T



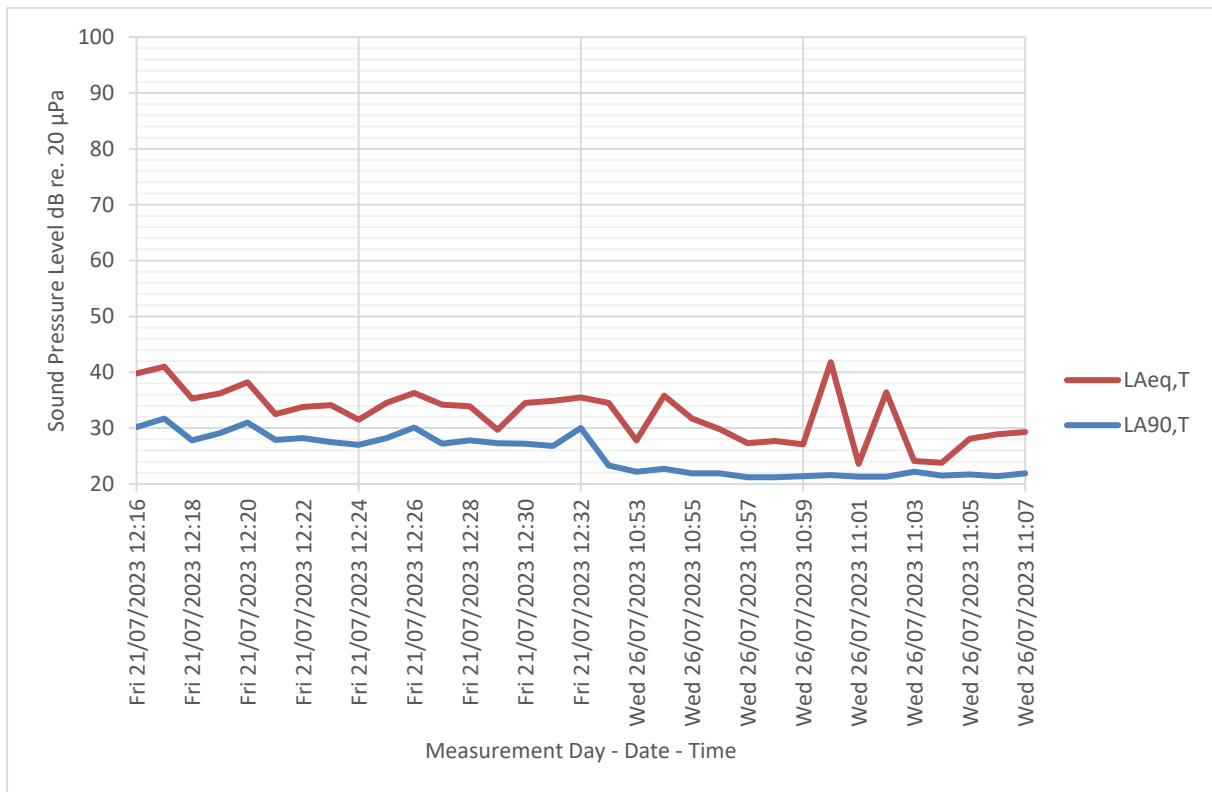
ML6 Attended Short Term Measurements Survey Data dB LA90 T/dB LAeqT



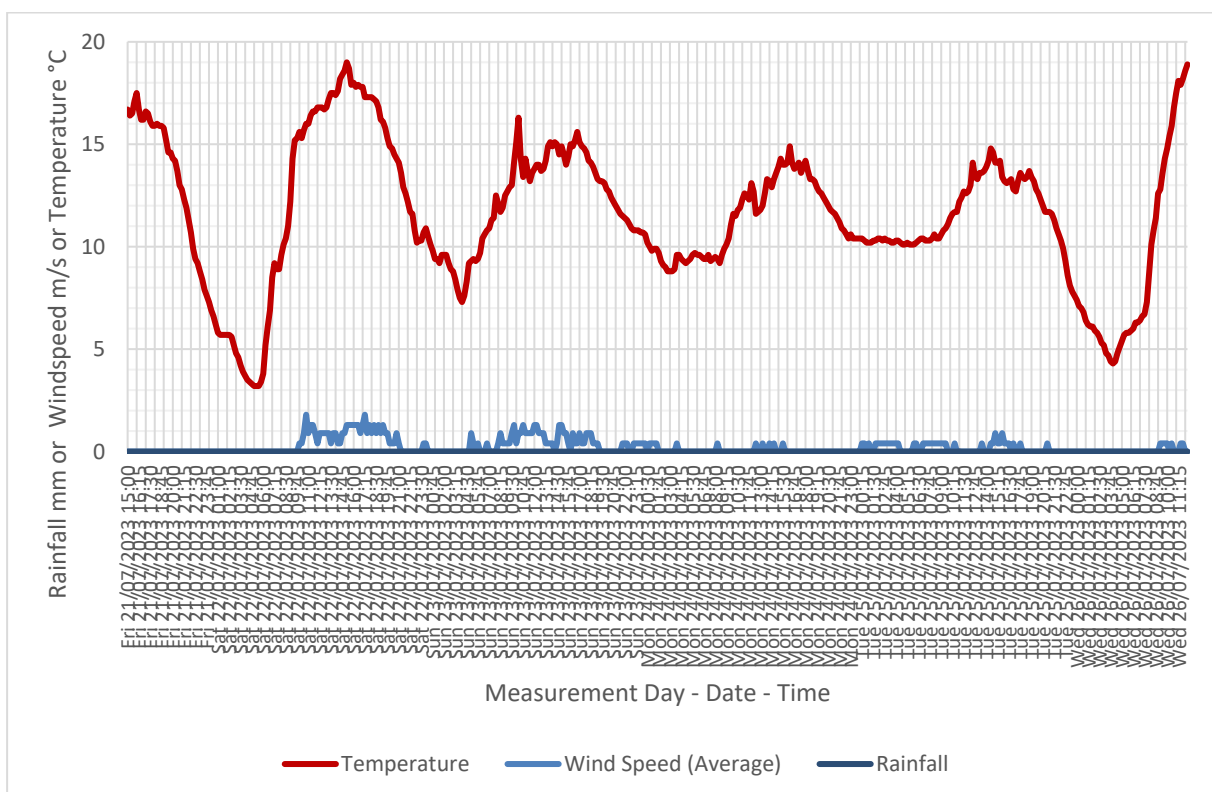
ML7 Attended Short Term Measurements Survey Data dB LA90 T/dB LAeqT



ML8 Attended Short Term Measurements Survey Data dB L_{A90,T}/dB L_{Aeq,T}



Unattended Weather Station Data (Installed at ML1)



Measurement Equipment

Sound pressure level and vibration measurements were carried out using the following equipment listed in Table 18-A1-1, confirming to Class 1 acoustic accuracy for sound level meters and matched calibrators.

The sound level meters were calibrated before the measurements using the handheld acoustic calibrator and the calibration was checked upon completion of the survey.

No significant drift was observed with calibration offsets of ≤ 1 dB. The calibration chain of equipment has been maintained to traceably to national standards, no greater than one year for sound calibrators and two years for sound level meters. Further details of the calibration chain are available on request.

Table 18-A1-1: Sound Monitoring Equipment

Location	Equipment Description	Serial No.
ML1	RION SLM	586907
ML2	Cirrus SLM	87922
ML3	RION SLM	G302667
ML4	Cirrus SLM	G301839
ML5	Cirrus SLM	G301839
ML6	Cirrus SLM	G301839
ML7	Cirrus SLM	G301839
ML8	Cirrus SLM	G301839