



ACT
Government

Chief Minister, Treasury and
Economic Development

Freedom of Information Disclosure Log Publication Coversheet

The following information is provided pursuant to section 28 of the *Freedom of Information Act 2016*.

Application Details	
Ref. No.	CMTEDDFOI 2024-122
Date of Application	3 April 2024
Date of Decision	5 June 2024
Processing time (in working days)	43
Fees	N/A
Decision on Access	Partial Release
Information Requested (summary)	Noise Assessment Report prepared in 2021 for on a property in Braddon.
Publication Details	
Original application	<input checked="" type="checkbox"/> Published <input type="checkbox"/> N/A
Decision notice	<input checked="" type="checkbox"/> Published <input type="checkbox"/> N/A
Documents and schedule	<input checked="" type="checkbox"/> Published <input type="checkbox"/> N/A
Decision made by Ombudsman	N/A
Additional information identified by Ombudsman	N/A
Decision made by ACAT	N/A
Additional information identified by ACAT	N/A

From: [Cubin, Derise](#)
To: [CMTEDD FOI](#)
Subject: Noise Assessment [REDACTED] Braddon - copy of "noise" report.
Date: Wednesday, 3 April 2024 6:10:56 PM
Attachments: [image001.png](#)

OFFICIAL

Dear FOI team

Please see a request below from [REDACTED] in relation to a 'Noise testing' report that was prepared by a third party under a contract arrangement with Access Canberra.

I have advised [REDACTED] that I am referring his request to the FOI team. (I think he previously sought a copy of the report via FOI & it was refused at that time because of legal regulatory matters being underway) .

Happy to discuss further if helpful.

Thank you

Derise

Derise Cubin | Executive Branch Manager

Licensing and Registration Branch , Access Canberra

Phone: 6205 3732 | [REDACTED] derise.cubin@act.gov.au

Chief Minister, Treasury and Economic Development Directorate | ACT Government

Cosmopolitan Centre, Woden | GPO Box 158 Canberra City ACT 2601 | www.act.gov.au/accessCBR



We acknowledge the Traditional Custodians of the ACT. We acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

Sent: Wednesday, April 3, 2024 7:18 AM

To: Cubin, Derise <Derise.Cubin@act.gov.au>

[REDACTED]
[REDACTED] BARR <BARR@act.gov.au>; LEE <LEE@parliament.act.gov.au>;
VASSAROTTI <VASSAROTTI@act.gov.au>

Subject: Re: Noise Assessment [REDACTED] Braddon [REDACTED]

Caution: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe. [Learn why this is important](#)

Derise,

Releasing this report is surely in the public interest. I don't understand why you cannot consult with the contractor before releasing this taxpayer funded report. Imagine if all reports prepared by consultants for Territory, State and Federal governments were withheld under this provision. This level of secrecy would reduce us to a police state. Come on we have already done one FOI and you are now telling me to initiate another.

Just clear it with the contractor and release it to the taxpaying public. This was a simple noise assessment undertaken by an expert engineering company. Why the secrecy? You refuse to release it to the Braddon residents. You even refuse to release it to your own Environment Protection Agency (EPA). Come on what's going on?

Your very frustrated taxpayer and resident



Sent from my iPad

On 2 Apr 2024, at 11:47 am, Cubin, Derise <Derise.Cubin@act.gov.au> wrote:

OFFICIAL



I apologise for the delay in contacting you. Thank you for your patience.

As noted in previous emails I have needed to seek advice in relation to your request, because the report was prepared under contract (between the Government and a commercial entity) and as such has legal obligations attached to it.

In relation to your request , I am unable to send you an unredacted copy of the report. I am advised that the only pathway to request a copy of the report is via an FOI request , this is because the report was prepared by a third party under contract and as such the contracted third party must be consulted before the release of any information (this is because the report refers to the ' commercial / business activities' of the contracted entity) . I have provided the relevant links

below.

[Freedom of Information \(FOI\) - Chief Minister, Treasury and Economic Development Directorate \(act.gov.au\)](#)

[Freedom of Information \(FOI\) - Online Request Form - Chief Minister, Treasury and Economic Development Directorate \(act.gov.au\)](#)

Regards

Derise

Derise Cubin | ACT Commissioner for Fair Trading

Executive Branch Manager

Licensing and Registration Branch . Access Canberra

Phone: 6205 3732 | [REDACTED] derise.cubin@act.gov.au

Chief Minister, Treasury and Economic Development Directorate | ACT Government

Cosmopolitan Centre, Woden | GPO Box 158 Canberra City ACT 2601 |

www.act.gov.au/accessCBR



We acknowledge the Traditional Custodians of the ACT. We acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

[REDACTED]

Sent: Saturday, March 30, 2024 9:38 AM

To: Cubin, Derise <Derise.Cubin@act.gov.au>

[REDACTED] aura.Burke@act.gov.au

[REDACTED] RATTENBURY <RATTENBURY@act.gov.au>

Subject: Re: Noise Assessment [REDACTED] Braddon

Caution: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe. [Learn why this is important](#)

Derise

It's been two years and you are still stalling on the provision of this document.

This was a publicly funded study on a topic of great concern to residents in Braddon and in which a number of residents made their apartments available.

Please immediately provide a full copy of the study report (unredacted and unamended) for the residents and owners of [REDACTED]

[REDACTED]

Sent from my iPhone

On 6 Feb 2024, at 19:47, Cubin, Derise <Derise.Cubin@act.gov.au> wrote:

[REDACTED]

Laura.Burke@act.gov.au

This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.



ACT
Government

Chief Minister, Treasury and
Economic Development

Our ref: CMTEDDFOI 2024-122



FREEDOM OF INFORMATION REQUEST – NOTICE OF DECISION

I refer to your application under section 30 of the *Freedom of Information Act 2016* (the Act), received by the Chief Minister, Treasury and Economic Development Directorate (CMTEDD) on 5 April 2024. I note that the Commissioner for Fair Trading referred your request to her for the report to our team on 3 April 2024. As such, we will refer to the earlier date to calculate the due date for this access application.

Specifically, you have sought access to the following information:

“A copy of the Noise Assessment report undertaken at [redacted] Braddon in 2021 (held by Access Canberra).”

Authority

I am an Information Officer appointed by the CMTEDD Director-General under section 18 of the Act to deal with access applications made under Part 5 of the Act.

Timeframes

In accordance with section 40 of the Act, CMTEDD is required to provide a decision on your access application within 30 days.

As this matter required third party consultation, the decision due date was extended by 15 working days, in accordance with section 40(2) of the Act.

Therefore, a decision is due by **7 June 2024**.

Decision on access

Searches of CMTEDD records have identified one document within the scope of your request.

I have decided to grant **partial access** to this document.

Release of documents

The information being released to you is provided at **Attachment A**.

Statement of Reasons

In accordance with section 54(2) of the Act a statement of reasons outlining my decisions is below. In reaching my access decisions, I have taken the following into account:

- the Act
- the information that falls within the scope of your request
- third party views
- *Human Rights Act 2004*
- *Territory Privacy Principles*

As a decision maker, I am required to determine whether the information within scope is in the public interest to release. To make this decision, I am required to:

- assess whether the information would be contrary to public interest to disclose as per **Schedule 1** of the Act.
- perform the public interest test as set out in section 17 of the Act by balancing the factors favouring disclosure and factors favouring non-disclosure in **Schedule 2** of the Act.

There are no Schedule 1 provisions relevant to this material.

Public Interest Test

The Act has a presumption in favour of disclosure. As a decision maker I am required to decide where, on balance, public interest lies. As part of this process, I must consider factors favouring disclosure and nondisclosure.

In *Hogan v Hinch* (2011) 243 CLR 506, [31] French CJ stated that when ‘used in a statute, the term [public interest] derives its content from “the subject matter and the scope and purpose” of the enactment in which it appears’. Section 17(1) of the Act sets out the test, to be applied to determine whether disclosure of information would be contrary to the public interest. These factors are found in subsection 17(2) and Schedule 2 of the Act.

Schedule 2: Factors to be considered when deciding the public interest.

Taking into consideration the information contained in the documents found to be within the scope of your request, I have identified that the following public interest factors are relevant to determine if release of the information contained within these documents is within the ‘public interest’.

Factors favouring disclosure (Section 2.1)

- *Section 2.1(a)(ii) - contribute to positive and informed debate on important issues or matters of public interest.*
- *Section 2.1(a)(viii) - reveal the reason for a government decision and any background or contextual information that informed the decision.*
- *Section 2.1(a)(iii) - inform the community of the government’s operations, including the policies, guidelines and codes of conduct followed followed by the government in its dealings with members of the community.*

I have placed substantial weight on the above factors favouring disclosure. The release of this information would inform the community of the government’s operation specifically

the Noise Assessment report which can reasonably be expected to reveal any background or contextual information on a government decision.

I am satisfied that these factors favouring disclosure carry some weight. However, these factors are to be balanced against the factors favouring nondisclosure.

Factors favouring nondisclosure (Section 2.2)

- *Section 2.2(a)(ii) - prejudice the protection of an individual's right to privacy or any other right under the Human Rights Act 2004*
- *Section 2.2(a)(xi) - prejudice trade secrets, business affairs or research of an agency or person.*

When considering this finding against the factors favouring nondisclosure, I am satisfied that the protection of an individual's right to privacy is a significant factor. The parties involved did not provide their consent to release their personal information which are names and signature. These individuals are entitled to expect that the personal information they have supplied as part of this process will be dealt with in a manner that protects their privacy. *The Territory Privacy Principles 6* provides that an agency must not use or disclose personal information about an individual that was collected for a particular purpose for another purpose without consent. This information has been redacted, as release could or would also be reasonably be expected to prejudice their right to privacy under the *Human Rights Act 2004*.

Schedule 2, Section 2.2(a)(xi) allows for government information to be withheld from release if disclosure of the information could reasonably be expected to prejudice the trade secrets, business affairs or research of an agency or person. I note that the disclosure of this information could potentially cause damage to the business' reputation and impact the competitive commercial activities of the business.

Having applied the test outlined in section 17 of the Act and deciding that release of personal information contained in the documents is not in the public interest to release, I have chosen to redact this specific information in accordance with section 50(2). Noting the pro-disclosure intent of the Act, I am satisfied that redacting only the information that I believe is not in the public interest to release will ensure that the intent of the Act is met and will provide you with access to the majority of the information held by CMTEDD within the scope of your request.

Charges

Processing charges are not applicable for this request because the number of pages released to you is below the charging threshold of 50.

Online publishing – Disclosure Log

Under section 28 of the Act, CMTEDD maintains an online record of access applications called a [disclosure log](#).

Your original access application and my decision will be published on the CMTEDD disclosure log. Your personal contact details will not be published.

Ombudsman Review

My decision on your access request is a reviewable decision as identified in Schedule 3 of the Act. You have the right to seek Ombudsman review of this outcome under section 73

of the Act within 20 working days from the day that my decision is provided to you, or a longer period allowed by the Ombudsman.

We recommend using this form [Applying for an Ombudsman Review](#) to ensure you provide all of the required information. Alternatively, you may write to the Ombudsman at:

The ACT Ombudsman
GPO Box 442
CANBERRA ACT 2601

Via email: actfoi@ombudsman.gov.au

ACT Civil and Administrative Tribunal (ACAT) Review

Under section 84 of the Act, if a decision is made under section 82(1) on an Ombudsman review, you may apply to the ACAT for review of the Ombudsman decision. Further information may be obtained from the ACAT at:

ACT Civil and Administrative Tribunal
GPO Box 370
Canberra City ACT 2601
Telephone: (02) 6207 1740
<http://www.acat.act.gov.au/>

Should you have any queries in relation to your request please contact the Information Access Team by telephone on 6207 7754 or email CMTEDDFOI@act.gov.au.

Yours sincerely,



Katharine Stuart
Information Officer
Chief Minister, Treasury and Economic Development Directorate

5 June 2024

**Design
for a better
*future /***

ACCESS CANBERRA

BRADDON, ACT

NOISE MONITORING
REPORT

wsp

JUNE 2021

Question today *Imagine tomorrow* Create for the future

Braddon, ACT

Noise monitoring report

[Access Canberra](#)

WSP

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Canberra ACT 2601

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Canberra ACT 2600

Tel: +61 2 6201 9600

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REV	DATE	DETAILS
0	27/05/2021	Issue
1	30/06/2021	Revised issue

	NAME	DATE	SIGNATURE
Prepared by:	Sch 2.2(a)(ii)	30/06/2021	Sch 2.2(a)(ii)
Reviewed by:		30/06/2021	
Approved by:		30/06/2021	

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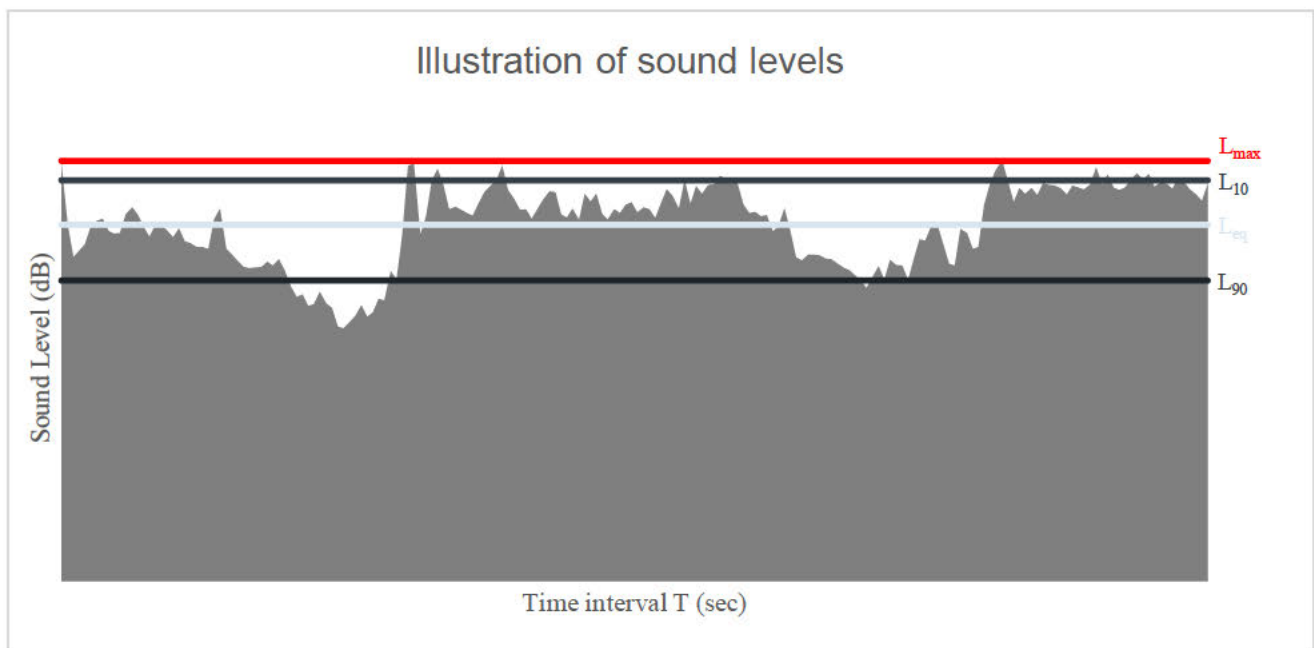
APPENDIX A UNATTENDED NOISE MONITORING RESULTS
APPENDIX B RELEVANT NOISE ASSESSMENT GUIDELINES
FROM OUTSIDE THE ACT

GLOSSARY

NOISE MEASUREMENT INDICES

Sound can be defined as pressure variations in air that the ear can detect for which the decibel (dB) scale is used to represent the range of sound perceptible to human hearing. When analysing sound, different sound levels and weightings are used. Relevant sound levels to this report can be described as follows:

- L_{max} , presents the maximum sound pressure level reached during, for example, an aircraft passby or when a specific sound is notably audible above background noise, illustrated below.
- L_{10} , presents the sound pressure level exceeded for 10% of the measurement time period. L_{10} is commonly used to describe the ‘average maximum’ sound pressure level, illustrated below.
- L_{eq} , presents the equivalent continuous sound level of the measurement time period and is used as an ‘average’ sound pressure level, illustrated below.
- L_{90} , presents the sound pressure level exceeded 90% of a given time interval, illustrated below. It is typically taken as representative of background noise.
- The A-weighted decibel scale dB approximates the sound sensitivity of humans across the audio frequency spectrum, ranging from low (20 Hz) to high (20 kHz) frequency sounds. Denoted with an ‘A’, e.g. L_{Amax} or dBA.
- Fast time weighting of sound level meter time constant which is 0.125 seconds. Denoted with an ‘F’, e.g. L_{Fmax} .



Indicative sound pressure variance over time during a noise event, with L_{90} , L_{eq} , L_{10} and L_{max} values indicated

EXECUTIVE SUMMARY

WSP Australia Pty Ltd (WSP) has been engaged by Fair Trading and Compliance Unit, Access Canberra, to conduct noise monitoring at three residential units located at [REDACTED] in Braddon ACT.

It is understood that adverse comments have been received from residents at this location regarding the noise levels from a liquor-licensed venue located at the adjacent [REDACTED] Sch 2.2(a)(xi) [REDACTED] Braddon ACT. The aim of the noise monitoring is to quantify and characterise the noise emissions to these residencies and assist Access Canberra in their determination of the validity of the raised complaints.

Unattended noise monitoring was conducted for approximately three weeks commencing on 1 April 2021. The noise monitoring was conducted on three external residential balconies overlooking the licensed venue's outdoor seating area.

The noise monitoring was attended by WSP personnel for six evenings between 8.30 and 11.30 pm during the monitoring period. Operator observations were taken during the attended noise monitoring, along with recording noise levels.

Results from the noise monitoring are summarised in Section 2.2.2 for attended noise monitoring and Appendix A for unattended noise monitoring. Based on the noise monitoring conducted, the following general findings were made:

- During certain times and days during monitoring, patron noise and music from the subject licensed venue were found to dominate the noise environment at the monitoring locations. Noise levels ranging 65 dBA and 85 dBA have been recorded due to the licensed venue on several occasions.
- Patron noise and music noise were observed to be sustaining and continuous during certain times of the following evenings as well as during most of the attended monitoring periods:
- On several occasions, music noise in excess of 70 dBA was measured.

It is understood that the focus of Access Canberra's assessment is noise generated by patrons. As limited by the current scope of this work, this report presents results and observations from the noise monitoring and does not advise on noise complaints, or compliance with regulation. Relevant ACT noise legislation is summarised as follows:

- The Liquor Act (ACT) 2010 includes various requirements for the assessment or management of noise, though specific noise sources are not discussed.
- The Liquor Regulation (ACT) 2010 includes similar noise management and assessment controls to the Liquor Act. Specific noise sources are not discussed. The Liquor Regulation refers to the Environment Protection Regulation (ACT) 2005 for determination of noise standards in different parts of the ACT.
- The Environment Protection Regulation clarifies that the Environment Protection Act (ACT) 1997 does not apply to noise made by "a person using only his or her body". As such patron noise is not normally assessed in the ACT. The authors of this report are not aware of an available precedent of assessment.

In the absence of objective targets in the ACT for patron noise, additional guidance from NSW and World Health Organisation have been reviewed to aid in assessing noise disturbance risk. This however should be used in a limited manner as discussed in Section 3.3 The following conclusions can generally be made from the noise monitoring results:

- Music noise has been measured to be non-compliant with the day and night time noise standards per Environment Protection Regulation 2005 on several occasions.
- While patron noise is strictly not covered by any objective standards in the ACT, measured noise levels from the subject licensed venue could be considered excessive, and at risk of causing notable noise disturbance to the residents at [REDACTED] by review of NSW and WHO guidelines.

1 PROJECT BACKGROUND

WSP Australia Pty Ltd (WSP) has been engaged by Fair Trading and Compliance Unit, Access Canberra, to conduct monitoring of noise levels at selected residential premises at Block [redacted] Braddon ACT.

1.1 PROJECT UNDERSTANDING AND SCOPE

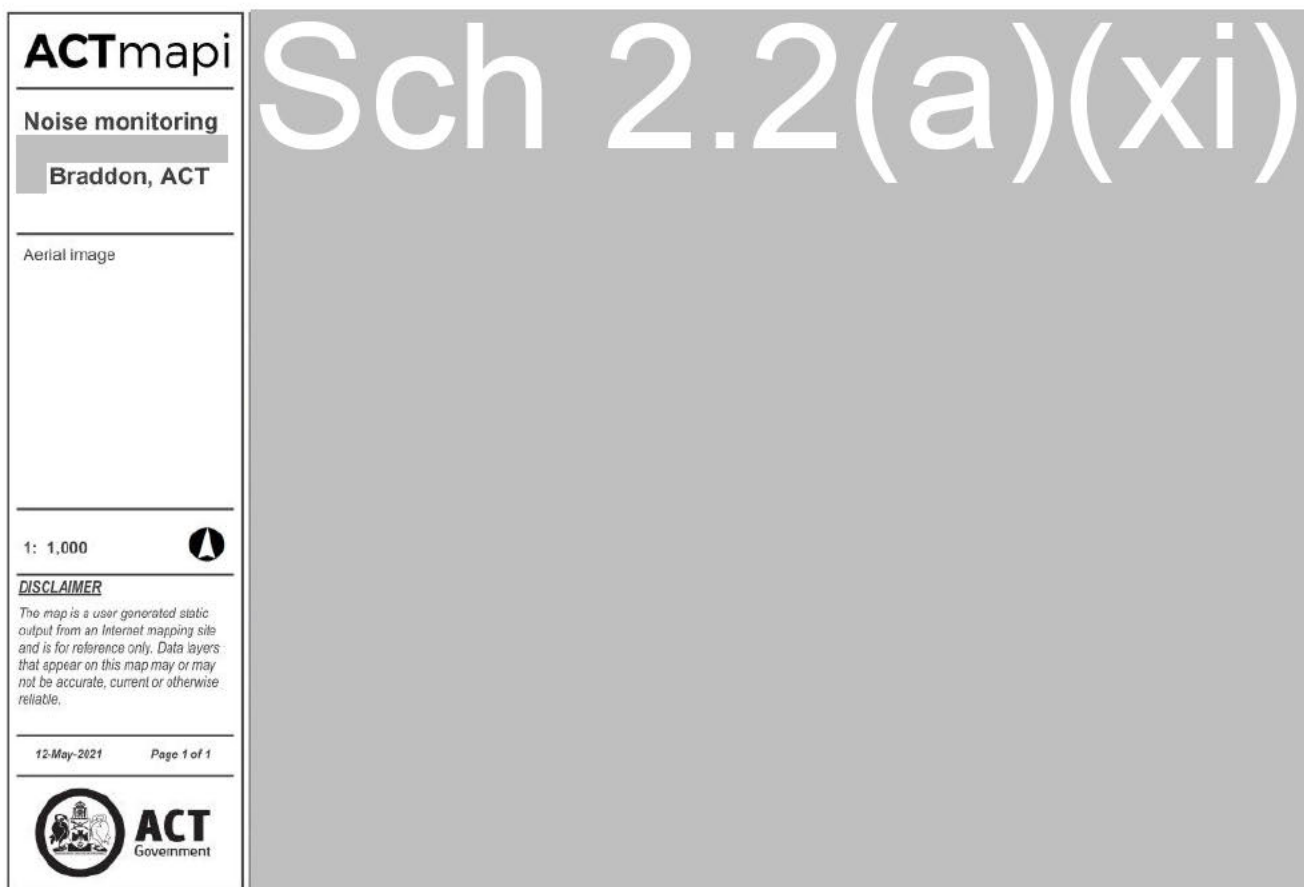
Access Canberra would like to assess noise emissions from a [redacted] Sch 2.2(a)(xi) Braddon ACT to multiple nearby residential receivers located at [redacted] Braddon ACT.

Noise monitoring was requested for a period of three weeks, to quantify and characterise the noise emissions at the nearby residencies and assist Access Canberra in their determination of the validity of adverse comments received, and to inform appropriate actions required.

As limited by the current scope of this work, this report presents results and observations from the noise monitoring and does not advise on noise complaints, or compliance with regulation.

1.2 PROJECT LOCATION

The noise monitoring location and licenced venue are presented in Figure 1.1, located within [redacted] Braddon ACT.



Source: ACTmapi, accessed 12 May 2021

Figure 1.1 [redacted] Braddon, indicating licensed venue [redacted] Sch 2.2(a)(xi) and noise monitoring location [redacted]

2 NOISE SURVEYS

2.1 METHODOLOGY

Measurements were made in accordance with *AS 1055-2018 Acoustics – Description and measurement of environmental noise*. Measurements were carried out in one-third octave bands from 20 Hz to 20 kHz in 5-min intervals for unattended monitoring and 15-min intervals for attended monitoring.

The data has been adjusted for the meteorological conditions using data from BOM (Station ID 070351) to exclude data where wind speed exceeds 5 m/s and periods of rain.

2.1.1 MONITORING LOCATIONS

The residential building used for noise monitoring is located at [REDACTED] of Braddon, ACT. The microphones were placed at approximately 1.2 metres above balcony floor level. The noise survey was performed at three different residential units as summarised in Table 2.1.

Table 2.1 Monitoring locations

NOISE MONITORING LOCATION	DESCRIPTION OF NOISE MONITORING PERFORMED	DESCRIPTION OF LOCATION		
		UNIT LEVEL	APPROXIMATE BALCONY SIZE	BALCONY DESCRIPTION
A	External noise monitoring at the balcony with direct line of sight from the microphone to the outdoor seating of the licenced venue.	3	9 m ²	The balustrade is an approximately 1 m high concrete structure. The balcony is otherwise surrounded with full height walls.
B	External noise monitoring with audio recording at the balcony with direct line of sight from the microphone to the outdoor seating of the licenced venue. Additional internal noise monitoring, placed in living room directly inside the façade as requested by Access Canberra. It is understood that the aim is to gauge the experienced internal noise levels.	2	23 m ²	The balustrade is an approximately 1 m high concrete structure. Approximately half of the balcony is surrounded by full height walls. The outer part, where the noise monitor was placed is without cover, and has walls of an approximate height of 2 m.
C	External noise monitoring at the balcony with direct line of sight from the microphone to the outdoor seating of the licenced venue	2	39 m ²	

2.1.2 MONITORING PERIOD

Monitoring periods at each location are presented in Table 2.2. The monitoring period varies slightly between monitoring locations due to the availability of access to the residential properties.

Table 2.2 Noise monitoring period at each location

NOISE MONITORING LOCATION	START	END	DAYS IN TOTAL
A	01/04/2021	22/04/2021	21
B	01/04/2021	24/04/2021	22 ⁽¹⁾
C	06/04/2021	29/04/2021	23

(1) Approximately one day of monitoring was lost due to a delay in service visit (7 PM 8/4 – 21.30 PM 9/4)

2.1.3 EQUIPMENT

For unattended monitoring Class 1 Noise Loggers were used and for the attended monitoring a Class 2 Sound Level Meter. All equipment used are presented in Table 2.3. At deployment and decommissioning of equipment the signal was checked with an acoustic calibrator and no significant drift was noted (+/- 0.5 dB).

Table 2.3 Survey equipment

EQUIPMENT	MANUFACTURER	TYPE	SERIAL NUMBER	CALIBRATION NEXT DUE	LOCATION
Acoustic Calibrator	Rion	NC-74	34315156	08/04/2022	All locations
Sound Level Meter	NTi	XL2	A2A-05718-E0	04/11/2022	Location A & Location B (Balcony)
Noise Monitor	Svantek	958A	45591	04/11/2021	Location A (Balcony)
Noise Monitor	Svantek	958A	36659	09/06/2022	Location B (Living room)
Noise Monitor	Svantek	958A	45586	05/11/2021	Location C (Balcony)
Noise Monitor	ARL	Ngara	878097 (used to 09/04) 878201 (used after 09/04)	22/10/2022 18/12/2022	Location B (Balcony)

2.2 RESULTS

2.2.1 UNATTENDED NOISE MONITORING

Results for the unattended noise monitoring at each location are presented in Appendix A as L_{Aeq} , L_{Amax} , L_{A90} and L_{A10} in hourly averages, as well as in 5-min intervals graphically. Through these results, it was indicated that noise levels at Location A represent the worst case scenario of all locations. A limited review of the unattended noise logging data and audio recording is performed to quantify noise levels associated with the subject licenced venue. The findings made are summarised in Table 2.4 (review is limited to evenings when hourly L_{eq} noise levels of 70 dBA or above are recorded).

It should be noted that these findings of the unattended noise monitoring are made based on the noise logging charts and audio recording. Findings related to “due to music noise and patron noise from subject licenced venue” are based on WSP’s on site observations that the subject licenced venue is the only venue in the vicinity that is capable of producing the recorded patron and music noise. These findings were also supported by attended noise monitoring completed by WSP as reported in Section 2.2.2.

Table 2.4 Unattended noise monitoring findings at Location A

START TIME (EVENING)	END TIME (EARLY MORNING)	OBSERVATIONS
01/04/2021	02/04/2021	<ul style="list-style-type: none"> — Music noise of exceeding 75 dBA observed, exceeding the EPR noise standard — Hourly Leq noise levels in excess of 80 dBA observed between 7pm and 12am, highly likely due to music noise and patron noise from the subject licensed venue.
02/04/2021	03/04/2021	<ul style="list-style-type: none"> — Music noise of exceeding 70 dBA observed, exceeding the EPR noise standard — Hourly Leq noise levels in excess of 72 dBA observed between 3pm and 11pm, highly likely due to music noise and patron noise from the subject licensed venue.
03/04/2021	04/04/2021	<ul style="list-style-type: none"> — Music noise of exceeding 70 dBA observed, exceeding the EPR noise standard — Hourly Leq noise levels in excess of 80 dBA observed between 7pm and 12am, highly likely due to music noise and patron noise from the subject licensed venue.
04/04/2021	05/04/2021	<ul style="list-style-type: none"> — Music noise of exceeding 70 dBA observed, exceeding the EPR noise standard — Hourly Leq noise levels in excess of 80 dBA observed between 4pm and 11pm, highly likely due to music noise and patron noise from the subject licensed venue.
08/04/2021	09/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels in excess of 70 dBA observed between 6pm and 11pm (no audio recording during this time).
09/04/2021	10/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels of 70 dBA to 83 dBA observed between 4pm and 11pm, — Hourly Leq noise levels of 78 to 83 dBA observed highly likely due to music noise and patron noise from the subject licensed venue.
10/04/2021	11/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels of 76 to 81 dBA observed between 6pm and 12am highly likely due to music noise and patron noise from the subject licensed venue.
11/04/2021	12/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels of 71 to 73 dBA observed between 2pm and 8pm highly likely due to music noise and patron noise from the subject licensed venue.
15/04/2021	16/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels of 76 to 84 dBA observed between 5pm and 11pm highly likely due to music noise and patron noise from the subject licensed venue.
16/04/2021	17/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels of 75 to 80 dBA observed between 4pm and 11pm highly likely due to music noise and patron noise from the subject licensed venue.
17/04/2021	18/04/2021	<ul style="list-style-type: none"> — Hourly Leq noise levels of 77 to 83 dBA observed between 5pm and 1am highly likely due to music noise and patron noise from the subject licensed venue.

2.2.2 ATTENDED NOISE MONITORING

Attended monitoring was performed two nights each week during the monitoring period by WSP personnel.

Recorded noise levels and operator observations are presented in Table 2.5 to Table 2.11.

Table 2.5 Attended noise monitoring – 9 April – Noise monitoring location B

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
9 April, 2021	9.36 PM	73	89	75	69	Outdoor seating area at full capacity with live music at outside stage. Music mainly guitar and vocals with low base. Patron noise alone (~66-74 dBA).
	9.51 PM	72	87	75	67	Outdoor seating area still at full capacity with live music at outside stage. Patron occasionally singing along (75-85 dBA). Live music ends at 10 PM after which noise level goes down.
	10.06 PM	66	75	68	63	Outdoor seating area around half capacity. Low music in the background with patron noise dominant – talking (~64 dBA).
	10.21 PM	66	78	68	62	Outdoor seating area around half capacity. Low music in the background with patron noise dominant – talking (65-68 dBA) and occasional shouts and clapping (~68 dBA). Glass dropped into container in alley at 10.30 PM (~77 dBA).

Table 2.6 Attended noise monitoring – 10 April – Noise monitoring location B

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
10 April, 2021	9.00 PM	69	77	70	66	Outdoor seating area around full capacity. Low music in the background with patron noise dominant – talking, laughing and cutlery on plates (66-70 dBA).
	9.15 PM	69	80	71	67	Outdoor seating area still around full capacity. Patron noise dominant – talking, laughing and cutlery on plates (66-70 dBA). Music increased slightly in noise level with outside speakers in use.
	9.30 PM	70	79	71	67	Outdoor seating area still around full capacity. Patron noise dominant – talking and laughing (66-70 dBA) with occasional yelling and chanting (~74 dBA).
	9.45 PM	69	85	72	64	Outdoor seating area still high in occupancy but less than previously. Patron noise dominant – talking and laughing (66-70 dBA) with occasional yelling and singing (~78 dBA). Light rain falling from 9.55 PM to 10 PM. Object dragged over concrete in alley at 10 PM (~70 dBA).

Table 2.7 Attended noise monitoring – 15 April – Noise monitoring location A

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
15 April, 2021	9.04 PM	74	89	76	70	Wedding reception being held at outdoor seating area. Music played by DJ with heavy bass that occasionally is causing perceivable vibrations at balcony (77-80 dBA). Patron noise – singing along with music (~78 dBA), laughing (~80 dBA) and cheering (~83 dBA).
	9.20 PM	74	85	76	71	Wedding reception still being held. Bass of music more audible (~74 dBA). Patron noise – singing along with music (~75 dBA), glasses clinking (~74 dBA), laughing (~76 dBA) and shouting (~77 dBA).
	9.35 PM	74	84	77	70	Wedding reception still being held. Music and patron variable in dominance. DJ music (74-83 dBA). Patron noise – talking (~75 dBA) and shouting (~76 dBA).
	9.50 PM	73	87	75	67	Wedding reception still being held. Music in background with patron noise being dominant – talking (69-75 dBA), shouting (~74 dBA) and clapping (~75 dBA). Amplified speech (~75 dBA). People being told to go inside venue at 10 PM. Outside noise level after 10 PM – patrons taking (67-69 dBA), no music on speakers.

Table 2.8 Attended noise monitoring – 16 April – Noise monitoring location B

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
16 April, 2021	9.04 PM	69	81	70	66	Outdoor seating area around full capacity. Low music in the background with patron noise dominant – talking (68-70 dBA).
	9.20 PM	70	93	71	66	Live music starting up on outside stage around 9.20 PM. Music mainly guitar and vocals with low base (~72 dBA). Patron noise alone (~68 dBA).
	9.38 PM	69	83	71	66	Outdoor seating area at about 80% capacity. Live music (~72 dBA). Plant noise (not quantifiable due to level of patron noise) and patron noise – talking and occasionally singing along (68-73 dBA). Period without live music around 9.50 PM where plant and patron noise is dominant (~67 dBA). Occasional road traffic (~74 dBA).
	9.54 PM	69	78	71	66	Live music ending around 10 PM. Low amplified music in background (65-66 dBA) with patron noise dominant (66-70 dBA).

Table 2.9 Attended noise monitoring – 12 April – Noise monitoring location A

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
12 April, 2021	8.40 PM	63	77	64	61	Outdoor seating area at about half capacity with a generally calm atmosphere. Mechanical rooftop plant audible in background (not quantifiable due to level of patron noise) with patron noise dominant – talking and laughing (62-65 dBA). Glass dropped into container at alley (68-72 dBA).
	8.55 PM	63	73	64	60	Mechanical plant audible in background with patron noise dominant – talking (62-66 dBA) and yelling (~68 dBA). Glass dropped into container at alley (68-72 dBA). Car speeding off at Lonsdale Street (~71 dBA).
	9.10 PM	62	75	64	59	Mechanical plant audible in background with patron noise dominant – talking (62-66 dBA), singing (~68 dBA), yelling (~69 dBA) and cutlery on plates (~60 dBA). Running in alley (~63 dBA). Server collecting glasses from tables at outdoor seating area (~63 dBA).
	9.25 PM	62	79	64	59	Mechanical plant audible in background with patron noise dominant – talking (60-62 dBA), yelling (74 dBA) and singing (~70 dBA). Running in alley (~63 dBA). Trash being disposed of in alley (~63 dBA) and glass dropped into container (~65 dBA). Motorbike passing on Lonsdale Street (~63 dBA).

Table 2.10 Attended noise monitoring – 24 April – Noise monitoring location B

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
24 April, 2021	10.44 PM	70	81	72	68	Outdoor seating area at about half capacity. Patron noise dominant – talking (~68 dBA), and cheering at high pitch (~79 dBA). Bass noise from music in background (not quantifiable due to level of patron noise). Rooftop condenser visible (operation not known).
	10.59 PM	70	81	72	67	Patron noise dominant (70-73 dBA). Glass dropped into container in alley (68-71 dBA). Noisy car passing on Lonsdale Street (~75 dBA).

Table 2.11 Attended noise monitoring – 24 April – Noise monitoring location B (Inside living room)

DATE	START TIME	RECORDED SOUND LEVELS, dB				OPERATOR OBSERVATIONS
		L _{Aeq} , 15min	L _{Amax} , 15min	L _{A10} , 15min	L _{A90} , 15min	
24 April, 2021	11.15 PM	58	76	59	54	Observations from inside the unit with door closed. Patron noise with music in the background (56-58 dBA). Shouts from outside (62-68 dBA). Noisy car exhaust (64-66 dBA). Noise from inside unit – cooking, washer, resident moving around and resident talking (61-68 dBA).
	11.30 PM	58	82	60	50	Shouts from outside (~63 dBA). Glass dropped into container in alley and shouting (62-65 dBA). Noise from inside unit – cooking and resident movements (57-59 dBA).

3 DISCUSSION

This section provides discussions on the findings from the noise monitoring and as well a comparison of these measured levels against ACT regulations and other relevant guidelines.

3.1 MEASUREMENT SUMMARY

Based on the noise monitoring conducted, the following general findings were made:

- During certain times and days during monitoring, patron noise and music noise from the subject licensed venue was typically found to dominate the noise environment at the noise monitoring locations. Noise levels from the licenced venue ranging from 65 dBA to 85 dBA were recorded on several occasions.
 - Patron noise and music noise were observed to be sustaining and continuous during certain times of the following evenings as well as during most of the attended monitoring periods:
 - 01/04/2021, 02/04/2021, 03/04/2021, 04/04/2021, 08/04/2021, 09/04/2021, 10/04/2021, 11/04/2021, 15/04/2021, 16/04/2021, 17/04/2021
 - On several occasions, music noise in excess of 70 dBA was measured at the monitoring locations.
-

3.2 ACT REGULATORY CONTEXT

The legislation relevant to noise emitted from a licenced venue in the ACT can be summarised as follows:

- Liquor Act (ACT) 2010 (LA)
- Liquor Regulation (ACT) 2010 (LR)
- Environment Protection Regulation (ACT) 2005 (EPR)
- Noise Environment Protection Policy (ACT) 2012 (NEPP)
- ACT Territory Plan

3.2.1 LIQUOR REGULATION

It is understood that the focus of Access Canberra's assessment is patron noise, and the Liquor Regulation. Part 4 Section 15 of the Liquor Regulation (ACT) 2010, made under the Liquor Act (ACT) 2010, deals with suitability of premises for licences and permits with regard to cumulative impact of noise. A relevant part of the Liquor Regulation is as follows:

(2) The commissioner must consider the impact of the proposed premises together with existing licensed premises and existing permitted premises near the proposed premises including:

(d) the noise from existing licensed premises and existing permitted premises near the proposed premises;

Note: Noise standards for different noise zones are dealt with in the Environment Protection Regulation 2005.

The Liquor Regulation does not discuss specific sources of noise that are common to a liquor licensed establishment, and as such does not include or exclude noise made by patrons with specificity.

3.2.2 ENVIRONMENT PROTECTION REGULATION

The EPR prescribes requirements designed to control or govern conduct environmental impact from activities and developments.

3.2.2.1 NOISE FROM PATRONS

Note 1 to Part 3 of the EPR states that “*The Environment Protection Act 1997 does not apply to noise made by {...} a person using his or her body*”. As such, patron noise is expressly not assessable under the EPR. There are therefore no objective standards in the ACT for managing patron noise.

3.2.2.2 NOISE FROM OTHER SOURCES

It is common to assess sources of noise from by liquor licensed premises that are regulated by the EPR, typically including amplified music and building services plant (ventilation, cooling, hydraulics etc.). Part 2.2 from Schedule 2 of the EPR define noise zones and their associated noise standards.

Table 3.1 gives the noise standards applicable to this project (Zone B1).

Once a noise zone has been identified according to the ACT Territory Plan, the Noise Standard for that zone is applicable as an upper limit. Section 8.2 of the *Noise Environmental Protection Policy, ACT (NEPP)* states that the limits shown in

Table 3.1 are to be measured as L_{A10T} , where ‘T’ is not less than 5 minutes or greater than 15 minutes.

In assessing the noise impact at sensitive receivers, the EPR describes the compliance point as any point as near as practicable to the property boundary.

Table 3.1 ACT *Environment Protection Regulation (2005)* Schedule 2 Noise zones and Standards

NOISE ZONE	ACT LAND	NOISE STANDARD ($L_{A10, T}$ dB)	
		MON – SAT 7AM – 10PM SUN AND PUB. HOLIDAYS 8AM – 10PM	MON – SAT 10PM – 7AM SUN AND PUB. HOLIDAYS 10PM – 8AM
Zone B1	Land in the city centre or a town centre	60	50

3.3 OTHER RELEVANT GUIDELINES

In the absence of specific objective targets applicable to patron noise in the ACT, the following guidelines can be used as reference to assess the disturbance risk associated with the measured patron noise levels.

These are discussed in more detail in Appendix B. It is important to note that these policies typically have their own assessment requirements, which are not followed fully in this review. There are also various other available guidelines and policies that are relevant. These guideline levels should therefore be used as high level guidance only.

At this stage, these should not be used directly as ‘pass/ fail’ targets to assess patron noise from any venue in the ACT, rather, they are provided to suggest assessment levels for patron noise. There is a variety of precedent for the use of NSW noise criteria for assessments in the ACT where the level of detail in the ACT framework is insufficient. A further literature review is recommended to inform a complete assessment.

It should also be noted some of these guideline levels apply to ‘night’ time periods (typically from 10pm until early in the next morning), whereas the observed patron noise was found to dominate the noise environment on several days from afternoon up to 1am. Using these guidelines serves as a reference only and does not mean occurrence of patron noise prior to 10pm is irrelevant in the context of likely disturbance.

NSW Noise Policy for Industry (sleep disturbance risk)

- $L_{eq, 15min} \leq 40$ dBA (external, night time)
- $L_{Fmax} \leq 52$ dBA (external, night time)

World Health Organization (WHO) *Guidelines for Community Noise*

- Day time (16 hour period, assumed to be 6am to 10pm as this has not been defined by WHO)
 - $L_{eq} \leq 50$ dBA (external), to avoid ‘moderate’ annoyance
 - $L_{eq} \leq 55$ dBA (external), to avoid ‘serious’ annoyance
 - Night time (8 hour period, assumed to be 10pm to 6am as this has not been defined by WHO)
 - $L_{eq} \leq 45$ dBA (external)
 - $L_{Fmax} \leq 60$ dBA (external)
-

3.4 DISCUSSION

Based on the ACT’s regulations and the other relevant guidelines discussed, the following comments can be made when reviewing the results of the noise monitoring:

- Music noise has been measured to be non-compliant with the day and night time noise standards per the ACT Environment Protection Regulation on several occasions.
- While patron noise is strictly not covered by any objective standards in the ACT, measured noise levels from the subject licensed venue could be considered excessive and at risk of causing notable noise disturbance to the residents at [REDACTED] in accordance with NSW’s and WHO’s guidelines.

4 CONCLUSION

WSP Australia Pty Ltd (WSP) has been engaged by Fair Trading and Compliance Unit, Access Canberra, to conduct noise monitoring at three residential units located at [REDACTED] Braddon ACT.

It is understood that adverse comments have been received from residents at this location regarding the noise levels from a [REDACTED] Sch 2.2(a)(xi) [REDACTED] Braddon ACT. The aim of the noise monitoring is to quantify and characterise the noise emissions to these residencies and assist Access Canberra in their determination of the validity of the raised complaints.

Unattended noise monitoring was conducted for three weeks commencing on 1 April 2021. The noise monitoring was conducted on three external residential balconies overlooking the licenced venue's outdoor seating area. In addition, a noise monitor was placed inside one of the units to record internal noise levels and allow estimation of building envelope sound insulation.

Noise monitoring was attended by WSP personnel for six evenings between 8.30 and 11.30 pm during the monitoring period. Operator observations were taken during the attended noise monitoring, along with recording noise levels, which have been summarised in this report.

A summary of relevant ACT legislation has been provided. Additionally, guidance from NSW and World Health Organisation have also been used to help assess level of noise disturbance risk (to be used in a limited manner).

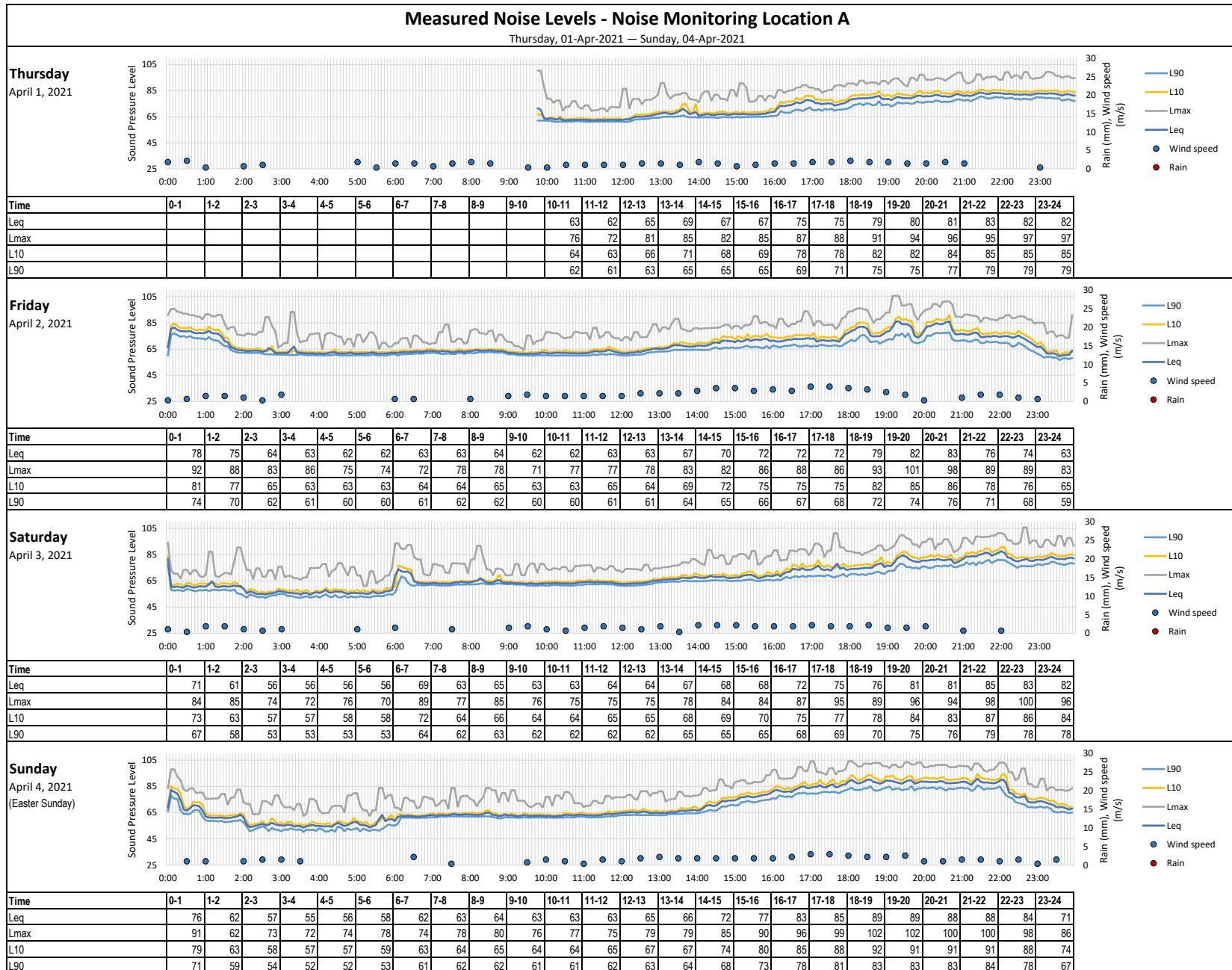
The following conclusions can generally be made from the noise monitoring results:

- Music noise has been measured to be non-compliant with the day and night time noise standards per the ACT Environment Protection Regulation on several occasions.
- While patron noise is strictly not covered by any objective standards in the ACT, measured noise levels from the subject licensed venue could be considered excessive and at risk of causing notable noise disturbance to the residents at [REDACTED] in accordance with NSW and WHO guidelines.

APPENDIX A

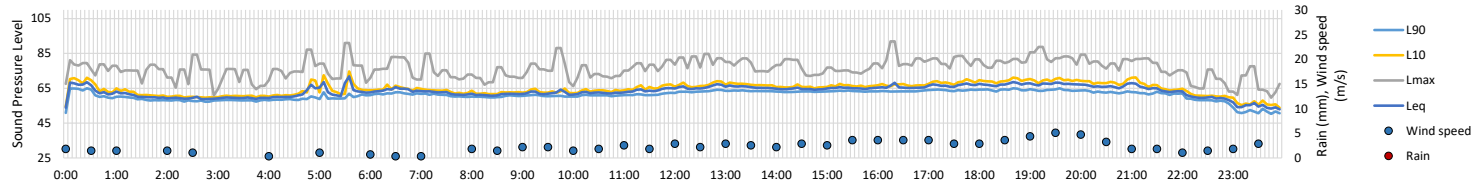
UNATTENDED NOISE MONITORING RESULTS



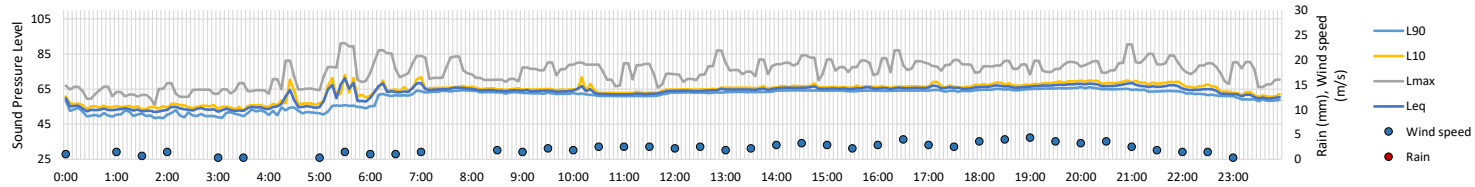


Measured Noise Levels - Noise Monitoring Location A

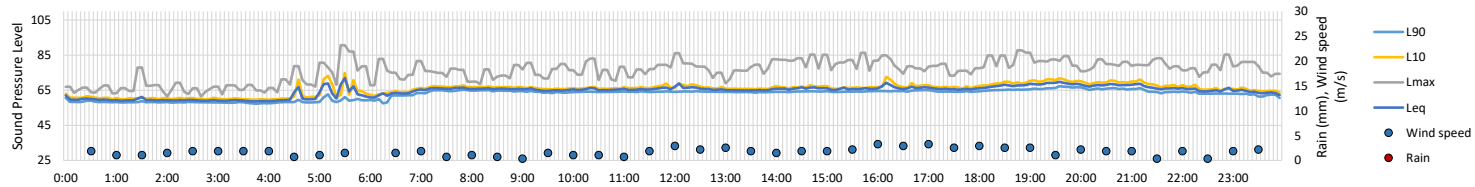
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Monday
 April 5, 2021


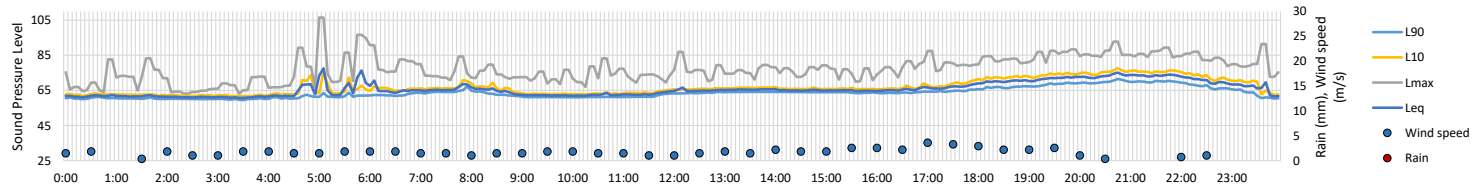
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Leq	66	61	59	59	62	66	64	62	61	62	62	64	66	66	65	65	66	67	67	68	66	65	60	55
Lmax	78	76	78	73	81	84	79	78	73	82	74	78	82	79	78	76	85	81	80	85	81	80	72	72
L10	68	62	60	61	64	68	65	63	62	63	63	66	67	67	66	66	67	69	70	70	68	67	61	57
L90	63	59	58	58	59	60	62	61	60	61	61	61	63	63	63	63	63	64	64	64	63	62	58	52

Tuesday
 April 6, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	55	53	54	54	58	65	65	66	64	64	64	63	64	65	66	65	65	66	66	67	67	67	64	61
Lmax	65	62	65	65	74	86	83	80	71	77	77	80	78	81	79	82	79	79	79	82	84	77	77	
L10	56	55	55	55	62	67	66	67	65	65	66	63	65	66	67	66	66	67	68	69	69	66	62	
L90	53	50	51	51	53	55	61	64	63	63	62	61	63	63	64	64	64	64	65	65	65	64	62	59

Wednesday
 April 7, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	60	60	59	59	61	67	63	66	66	65	65	66	66	65	66	66	67	66	67	69	68	67	65	64
Lmax	66	71	66	66	82	85	78	77	75	78	78	77	81	78	83	83	81	78	84	83	80	80	80	79
L10	61	60	60	60	63	69	64	67	67	66	66	67	67	66	67	66	69	67	69	71	70	69	66	65
L90	59	58	58	58	58	60	61	65	65	64	64	64	64	64	64	64	65	64	65	66	66	65	63	62

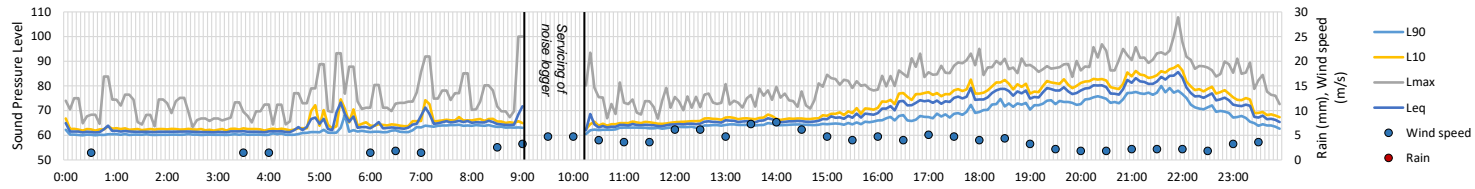
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Leq	62	62	61	61	65	72	66	66	65	62	62	63	65	65	65	65	65	67	70	72	73	74	71	67
Lmax	76	62	66	70	82	99	84	78	75	74	78	73	81	77	77	76	79	82	83	86	88	87	84	85
L10	63	63	62	62	67	69	66	67	67	63	63	64	66	66	66	66	67	69	72	74	75	76	73	68
L90	61	60	60	60	61	62	63	65	63	61	61	62	64	64	64	64	64	65	67	68	70	70	68	63

Measured Noise Levels - Noise Monitoring Location A

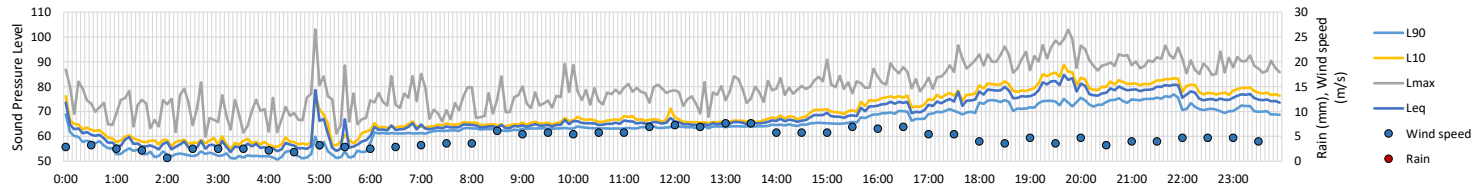
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Friday
April 9, 2021



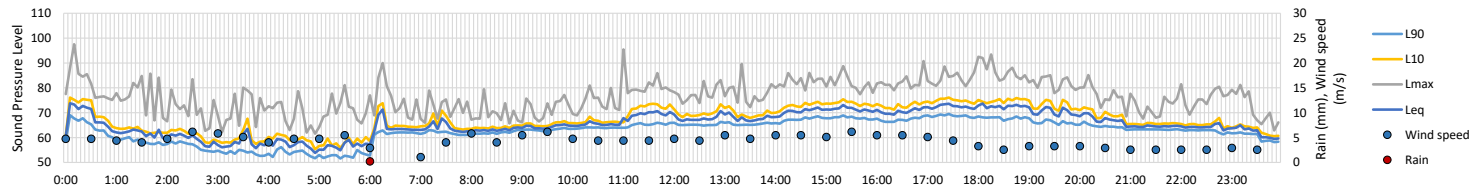
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Leq	62	61	61	61	63	67	64	67	65		63	64	65	66	66	68	72	75	77	78	79	83	77	70
Lmax	77	73	71	70	75	88	76	86	89		83	74	74	76	77	82	87	89	90	88	92	99	91	85
L10	63	62	62	62	66	68	64	69	66		63	65	66	67	67	70	75	78	80	80	82	86	80	72
L90	60	60	60	60	61	63	62	64	64		61	63	64	64	64	65	67	69	72	73	75	78	72	66

Saturday
April 10, 2021



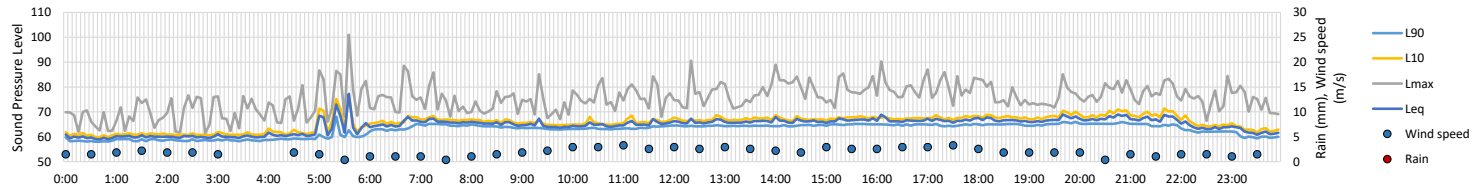
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Leq	65	57	56	56	68	62	63	64	64	65	65	66	65	66	67	70	72	74	78	81	79	80	76	76
Lmax	79	73	75	71	92	80	78	77	77	80	80	79	77	80	81	84	85	90	92	97	92	82	89	89
L10	67	59	58	58	67	64	64	65	65	66	67	68	66	66	69	72	75	76	80	85	81	82	78	78
L90	61	54	53	52	54	54	61	62	63	63	63	64	64	64	65	66	69	70	73	74	74	75	71	71

Sunday
April 11, 2021



Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	70	62	60	59	58	57	65	64	63	64	65	69	68	68	71	71	71	73	73	71	68	65	64	62
Lmax	88	81	76	75	74	74	81	74	72	73	76	86	79	81	83	83	84	84	89	83	79	74	77	76
L10	73	63	62	61	60	58	68	67	64	65	66	72	70	70	73	74	73	75	75	73	70	66	66	63
L90	65	59	57	54	54	53	62	62	62	63	64	65	65	66	67	68	67	69	68	66	65	63	63	61

Monday
April 12, 2021

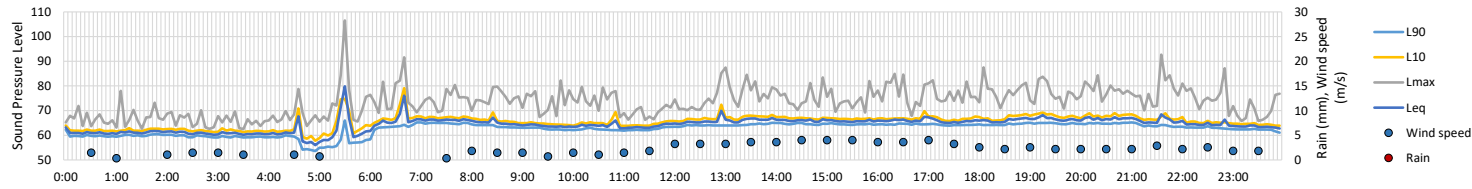


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Leq	60	60	60	60	61	70	65	66	65	65	65	65	66	66	66	67	67	67	67	67	68	67	64	62
Lmax	68	60	73	72	74	91	81	78	74	76	78	79	82	77	83	81	82	82	79	78	79	79	77	76
L10	61	61	61	61	62	71	66	67	66	65	65	66	67	67	67	68	67	68	68	69	69	69	65	63
L90	58	59	59	59	59	62	63	65	64	63	63	64	64	64	65	65	65	65	65	65	65	65	62	60

Measured Noise Levels - Noise Monitoring Location A

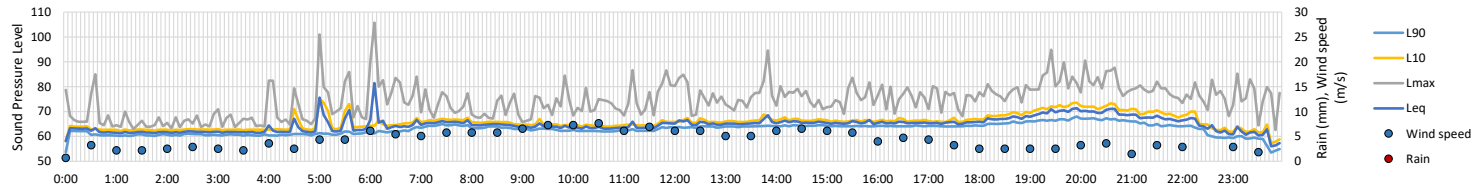
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Tuesday
April 13, 2021



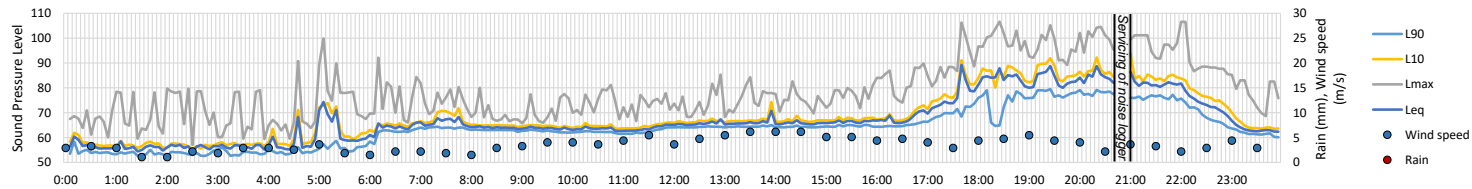
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Leq	61	61	61	61	61	70	68	66	65	64	64	66	66	66	66	66	66	66	66	66	67	67	66	65	63
Lmax	67	70	67	66	71	96	82	76	76	76	76	70	77	81	77	76	80	78	80	79	79	83	79	72	
L10	62	62	62	62	63	68	71	67	66	65	65	64	67	67	67	67	67	67	67	67	68	68	67	65	64
L90	60	60	60	59	58	59	63	65	64	63	62	63	64	64	65	64	64	64	64	65	65	64	63	62	

Wednesday
April 14, 2021



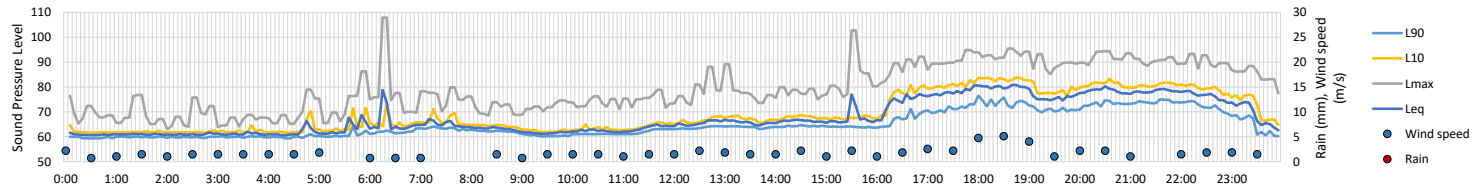
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	62	62	62	62	63	68	72	66	65	64	63	64	65	66	66	66	66	65	67	70	70	68	65	61
Lmax	76	66	66	67	76	90	95	74	72	76	74	81	79	84	77	78	77	76	78	87	85	79	78	79
L10	63	63	63	63	63	70	65	67	66	65	64	65	66	67	67	66	66	66	69	72	72	70	66	62
L90	61	60	61	61	61	61	62	64	63	63	62	63	64	64	64	64	64	64	65	67	67	65	62	58

Thursday
April 15, 2021



Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	57	56	56	56	60	68	64	66	64	64	64	64	66	67	66	66	68	81	84	84	84	82	76	64
Lmax	67	74	71	74	80	90	83	77	72	73	76	74	78	78	78	78	85	97	101	98	100	99	99	80
L10	58	57	57	57	63	69	65	69	65	65	65	65	67	68	67	67	69	83	86	87	86	87	79	65
L90	54	54	54	54	54	56	62	64	63	63	62	63	64	64	64	65	65	70	76	78	77	76	71	62

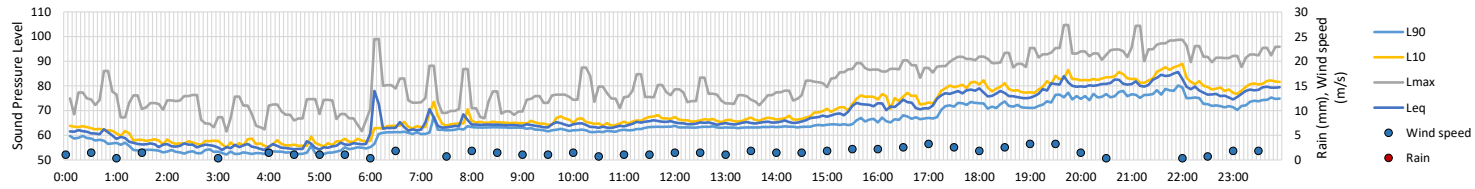
Friday
April 16, 2021



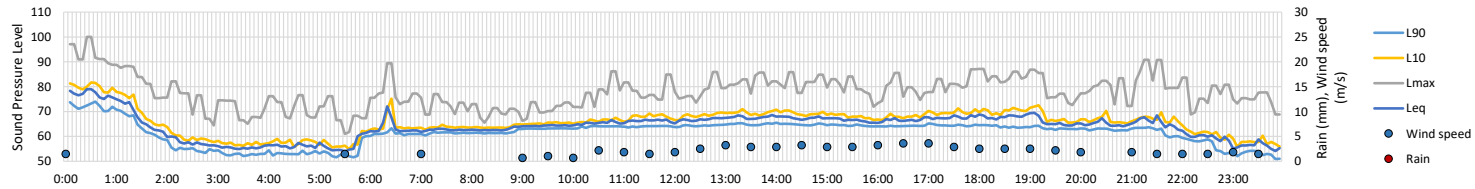
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	60	61	61	61	62	64	70	65	63	62	62	64	66	66	66	70	75	78	80	76	79	78	77	71
Lmax	70	61	71	67	73	79	100	100	77	72	73	74	76	82	83	78	89	91	93	90	92	91	91	86
L10	62	62	62	62	64	66	67	67	64	62	63	64	67	67	68	68	78	81	83	79	81	81	80	74
L90	59	60	60	60	60	61	62	63	62	60	61	62	64	64	64	64	68	71	74	71	73	74	73	66

Measured Noise Levels - Noise Monitoring Location A

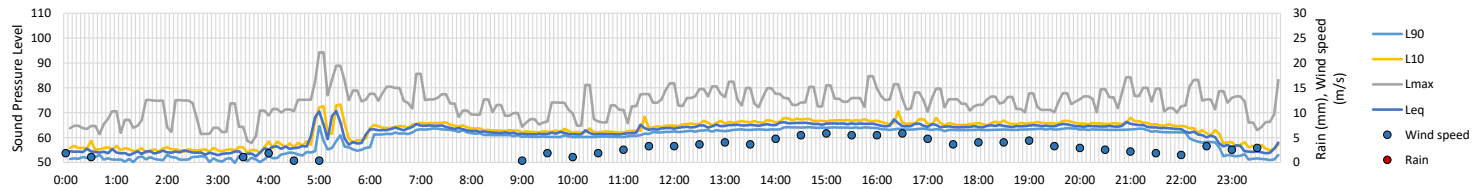
Saturday, 17-Apr-2021 — Tuesday, 20-Apr-2021

Saturday
 April 17, 2021


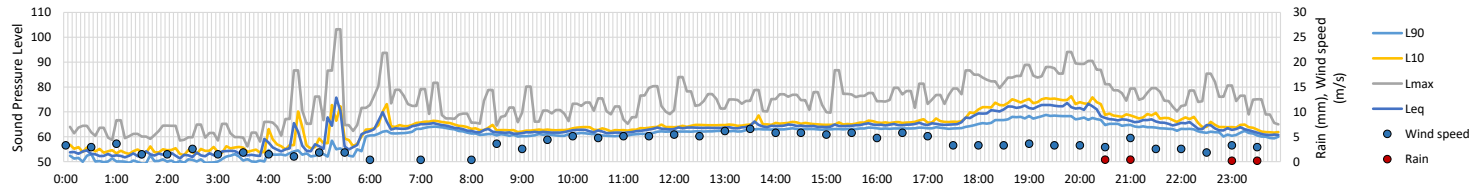
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	61	57	56	55	55	56	69	66	64	64	65	65	65	66	71	72	77	77	80	81	83	78	78	
Lmax	80	73	74	71	72	70	91	83	73	75	82	80	79	75	80	86	88	90	91	98	93	99	94	94
L10	63	59	57	57	57	57	63	68	65	66	65	67	66	66	68	74	75	79	79	82	83	85	82	81
L90	58	55	53	53	53	54	61	63	63	62	62	63	63	63	64	65	67	72	72	75	76	78	74	74

Sunday
 April 18, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	77	70	58	56	56	57	65	63	63	64	65	66	67	68	68	67	67	68	68	66	65	66	60	56
Lmax	95	85	77	72	74	71	83	74	71	72	80	80	80	83	83	81	81	83	85	82	80	87	80	75
L10	80	74	60	57	58	58	67	64	64	65	66	68	68	70	70	68	68	70	70	69	67	67	62	58
L90	72	67	55	53	53	55	61	61	62	63	64	64	64	65	65	64	64	65	64	63	63	62	57	53

Monday
 April 19, 2021


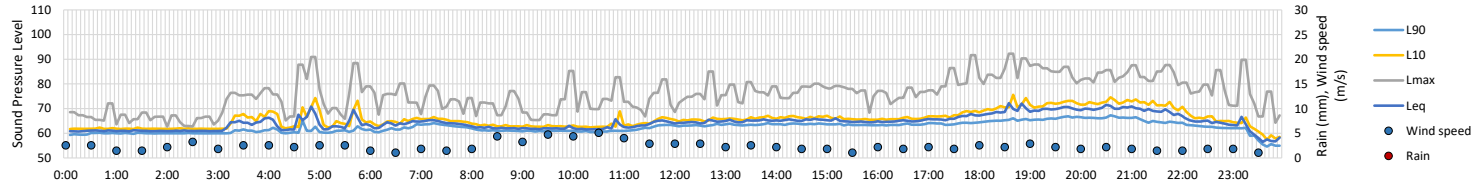
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	54	54	54	54	60	66	64	64	62	62	62	63	64	65	66	66	65	64	65	65	65	64	61	55
Lmax	65	72	71	69	75	88	79	78	72	71	75	77	78	79	77	80	78	76	75	75	78	78	79	75
L10	56	55	55	55	59	69	64	65	63	62	62	64	66	66	67	67	67	66	66	66	66	66	63	57
L90	52	51	52	51	53	58	61	63	61	60	60	61	63	63	64	64	63	63	63	63	63	63	59	52

Tuesday
 April 20, 2021


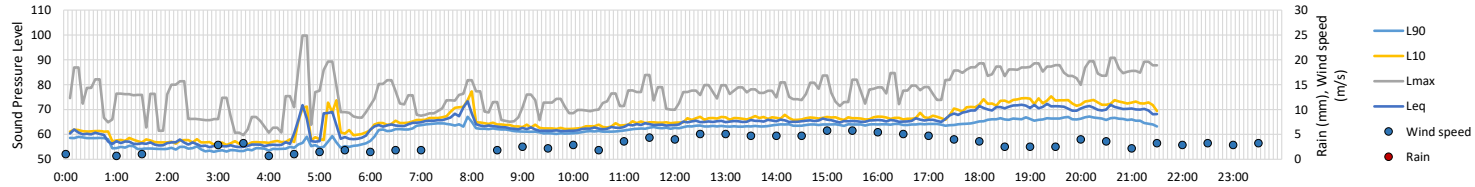
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	53	53	53	54	59	67	65	64	62	62	62	63	64	64	64	65	65	66	71	72	70	66	64	62
Lmax	62	53	62	62	79	96	86	76	73	74	73	76	79	75	75	81	78	81	84	89	87	77	80	75
L10	55	54	54	55	62	66	67	66	63	63	63	64	64	65	65	65	66	67	73	75	72	68	66	63
L90	51	50	50	51	53	55	62	63	61	61	61	61	62	63	63	63	63	64	67	68	66	64	62	61

Measured Noise Levels - Noise Monitoring Location A

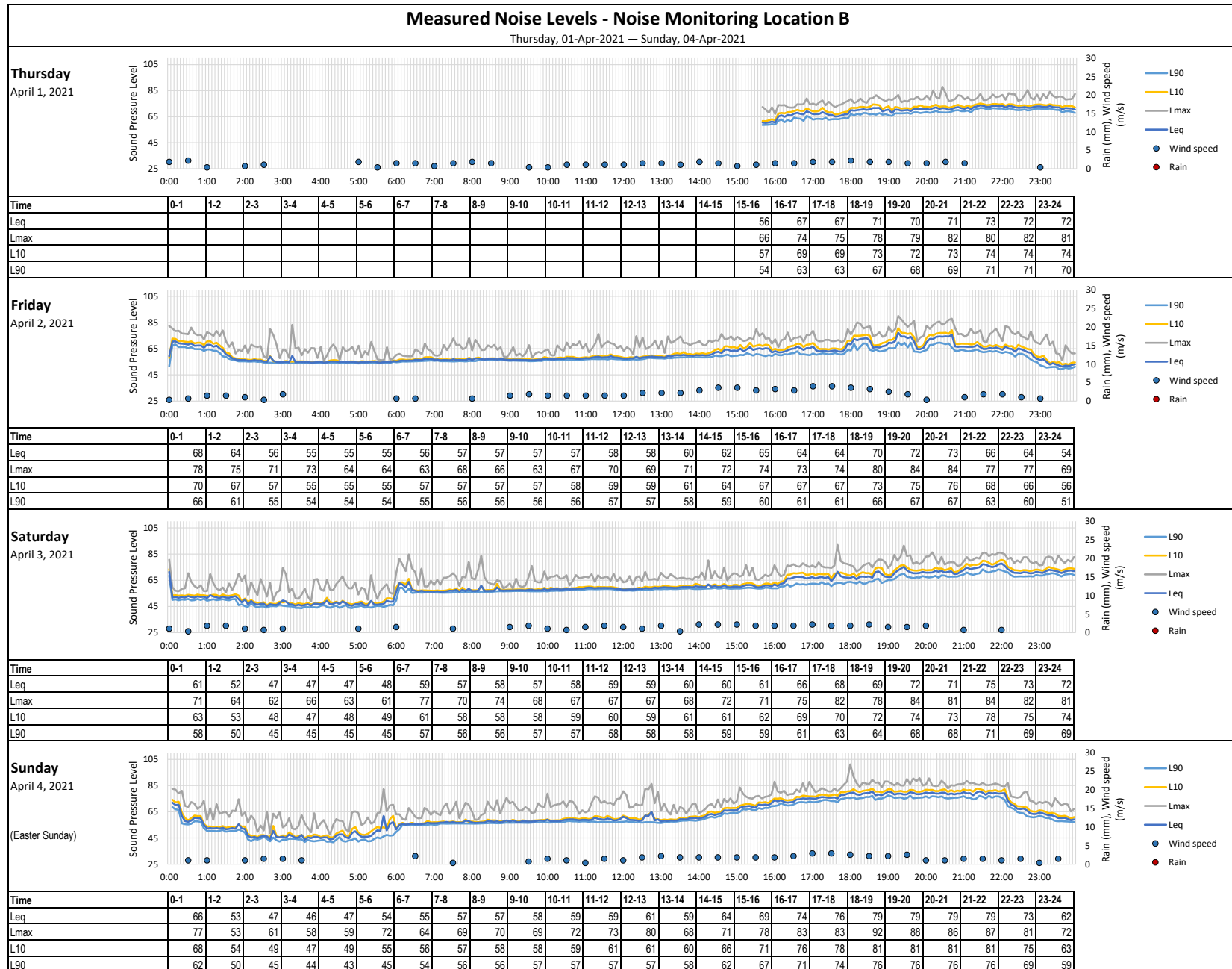
Wednesday, 21-Apr-2021 — Thursday, 22-Apr-2021

Wednesday
 April 21, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	61	61	61	64	66	64	64	64	62	62	64	65	65	65	65	65	65	66	69	70	70	69	65	61
Lmax	68	67	65	75	85	81	77	75	73	76	79	76	79	78	78	78	76	86	88	86	84	85	81	82
L10	62	62	62	66	68	67	65	65	63	63	64	65	65	66	66	66	66	68	71	72	73	72	67	62
L90	59	60	60	61	62	61	62	63	61	61	61	62	63	64	64	63	63	64	65	66	66	65	63	59

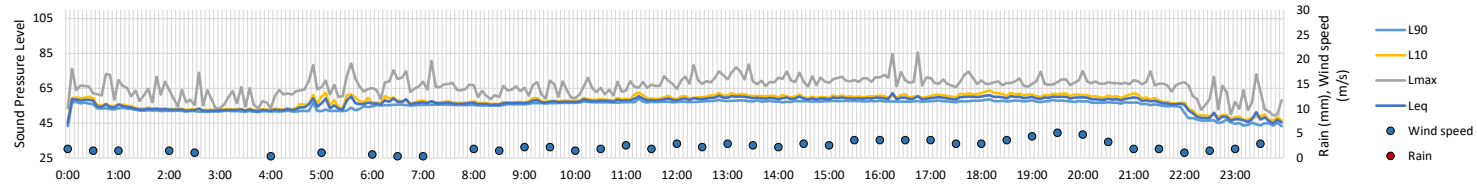
Thursday
 April 22, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	60	56	56	55	64	64	64	68	64	62	62	64	65	65	66	65	66	68	71	71	71	67		
Lmax	81	75	77	69	92	83	78	75	74	73	72	79	77	78	79	79	80	84	87	87	87	85		
L10	61	57	57	57	64	67	65	69	68	63	63	65	66	67	67	67	67	69	73	74	73	70		
L90	58	55	54	54	56	56	62	64	62	61	61	62	63	63	64	64	64	64	66	66	66	62		

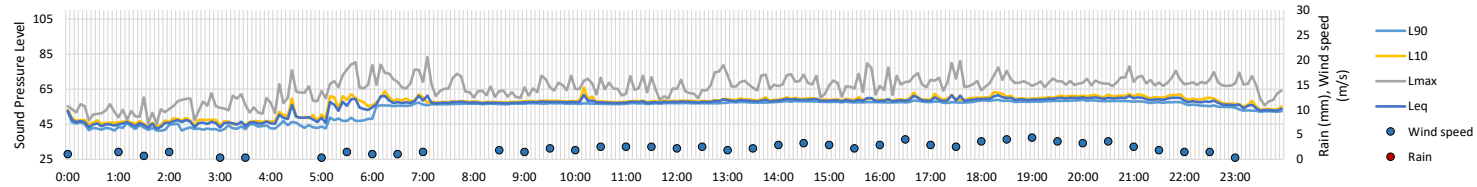


Measured Noise Levels - Noise Monitoring Location B

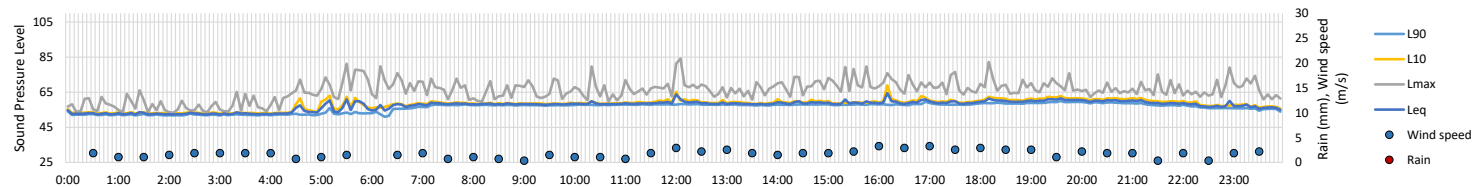
Monday, 05-Apr-2021 — Thursday, 08-Apr-2021

Monday
 April 5, 2021


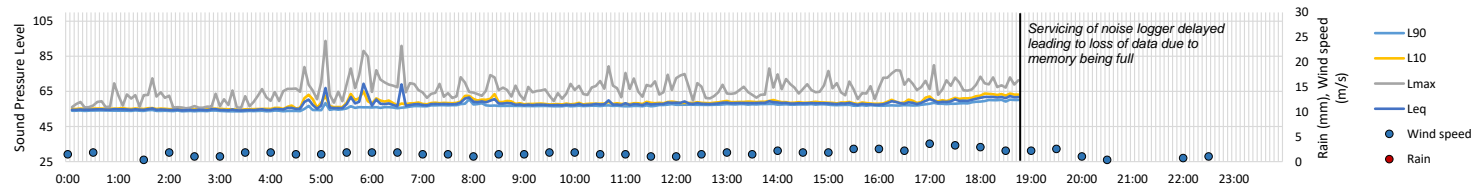
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	57	54	52	52	54	57	57	57	56	57	58	59	59	60	59	59	60	60	60	60	59	57	50	47
Lmax	69	66	65	60	69	71	70	71	64	66	66	68	72	73	71	70	78	70	68	69	69	69	65	64
L10	58	54	53	53	56	59	58	57	57	58	59	60	60	61	60	60	60	61	62	61	60	59	51	48
L90	55	53	52	52	52	53	55	55	55	56	57	57	58	58	57	58	57	58	58	58	57	56	47	44

Tuesday
 April 6, 2021


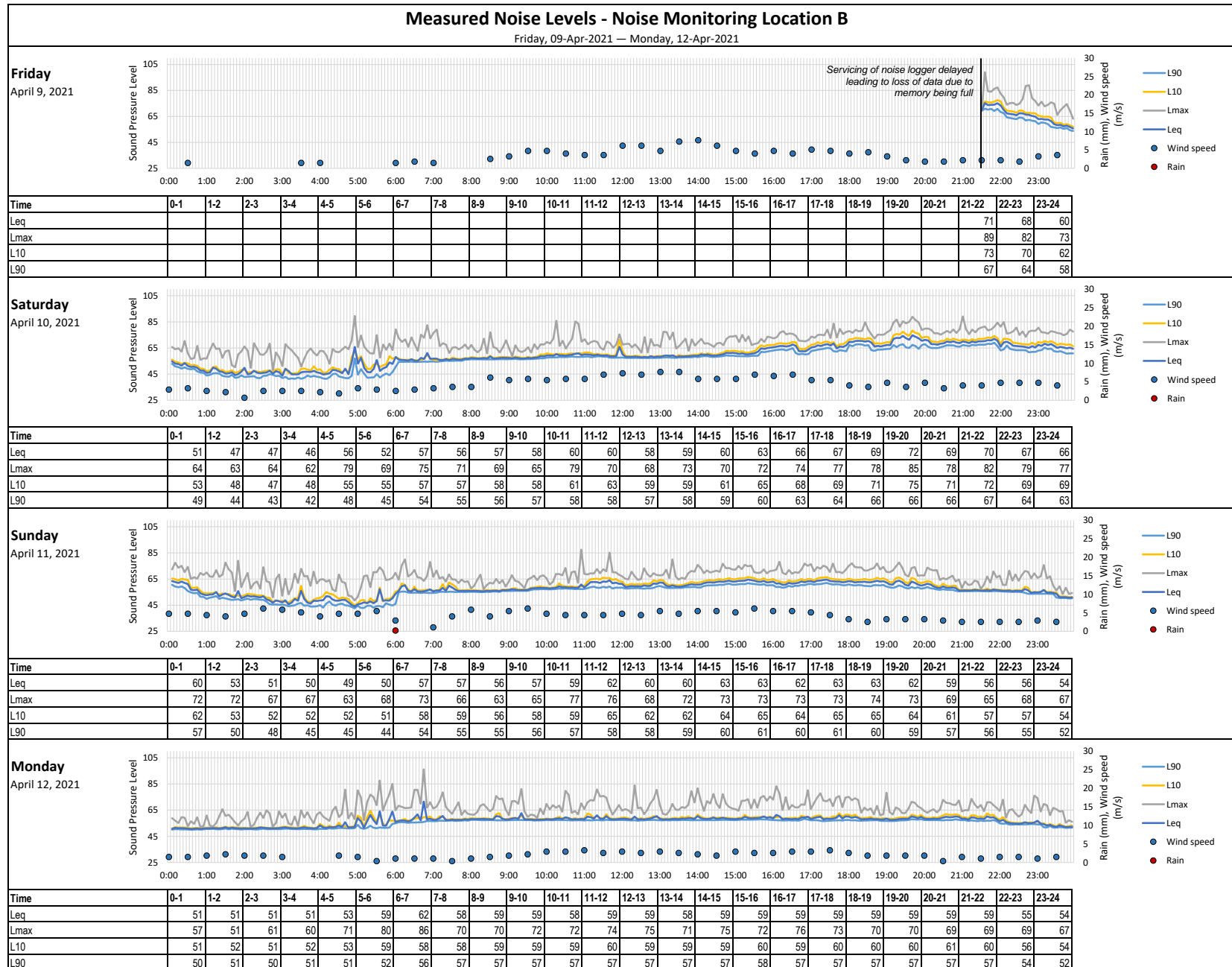
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	47	45	46	45	50	56	59	58	57	58	58	58	58	58	59	59	59	59	60	60	60	60	57	54
Lmax	54	53	58	57	67	74	74	74	63	68	68	68	71	69	70	72	71	74	72	69	71	71	69	68
L10	48	46	47	46	52	59	60	58	58	58	60	58	58	59	59	59	60	60	60	61	60	61	59	55
L90	46	43	43	43	44	47	56	56	57	57	57	57	57	57	58	58	58	58	58	58	58	58	56	53

Wednesday
 April 7, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	53	53	53	53	54	58	57	58	58	58	59	59	60	58	59	59	60	59	60	61	60	59	58	57
Lmax	59	60	56	60	65	75	72	69	68	68	70	68	76	67	70	74	71	70	73	70	66	69	70	69
L10	53	53	53	53	56	60	58	59	59	59	59	60	61	59	60	59	62	60	61	62	61	60	58	57
L90	52	52	52	52	52	53	55	58	58	58	58	58	58	58	58	58	58	58	58	59	59	59	58	55

Thursday
 April 8, 2021


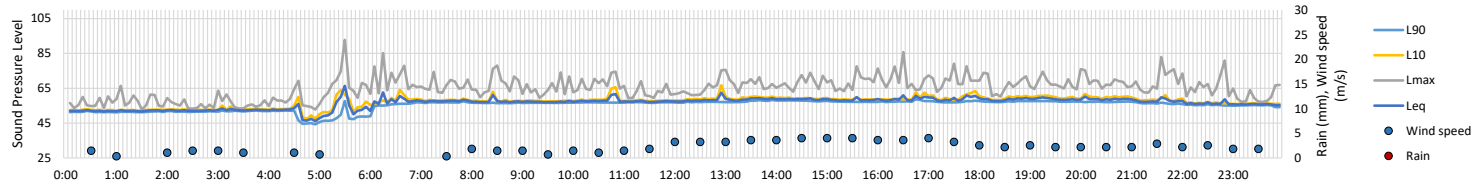
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	54	55	54	54	56	62	61	59	59	57	58	58	58	59	58	58	59	60	61					
Lmax	61	55	58	62	70	85	81	67	68	65	71	70	70	69	69	69	73	72	70					
L10	55	55	55	55	58	61	59	59	60	58	58	58	59	59	59	58	59	61	62					
L90	54	54	54	54	54	56	56	58	57	57	57	57	57	58	58	57	57	58	59					



Measured Noise Levels - Noise Monitoring Location B

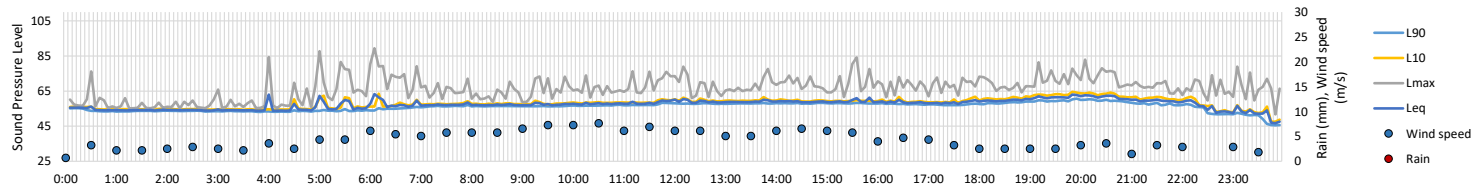
Tuesday, 13-Apr-2021 — Friday, 16-Apr-2021

Tuesday
April 13, 2021



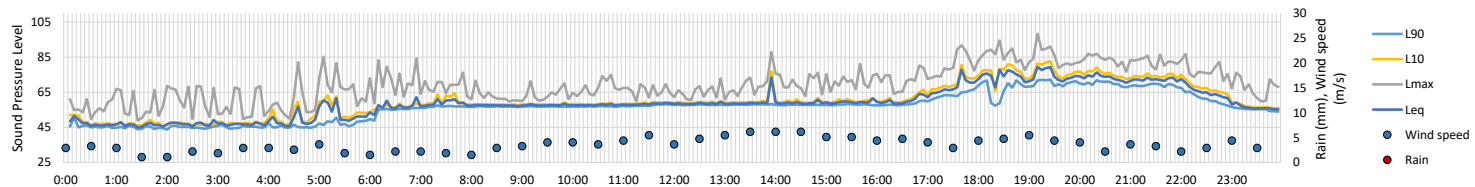
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	52	52	52	53	52	58	58	58	58	57	59	57	59	59	59	58	59	59	59	59	59	58	57	56
Lmax	57	60	56	58	61	82	76	68	71	67	70	64	67	70	69	70	76	73	69	69	71	74	72	62
L10	52	52	53	53	54	58	59	58	59	58	61	58	60	60	59	59	60	60	60	60	60	59	57	56
L90	51	51	52	52	50	50	56	57	57	57	57	57	57	58	58	57	58	57	57	58	57	56	55	55

Wednesday
April 14, 2021



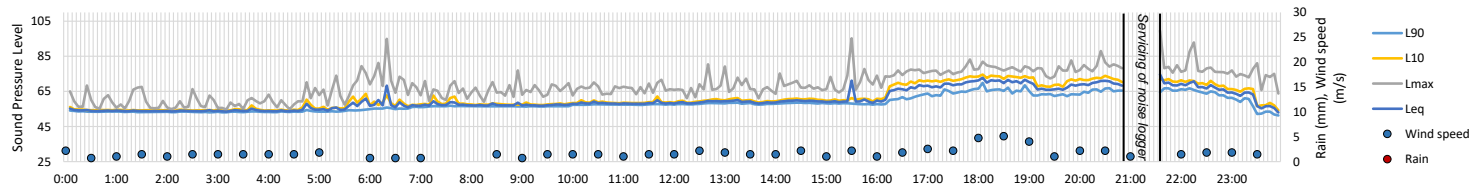
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	55	54	54	54	56	58	59	57	57	57	58	58	59	59	59	59	59	59	60	62	62	60	57	53
Lmax	66	57	57	59	74	79	80	67	64	69	67	72	72	70	70	76	69	69	69	75	76	68	69	71
L10	55	55	55	55	56	59	58	58	58	58	58	59	60	60	60	59	59	59	61	63	63	61	58	53
L90	54	54	54	53	53	54	55	56	56	56	57	57	58	58	58	58	58	57	58	60	60	58	55	50

Thursday
April 15, 2021

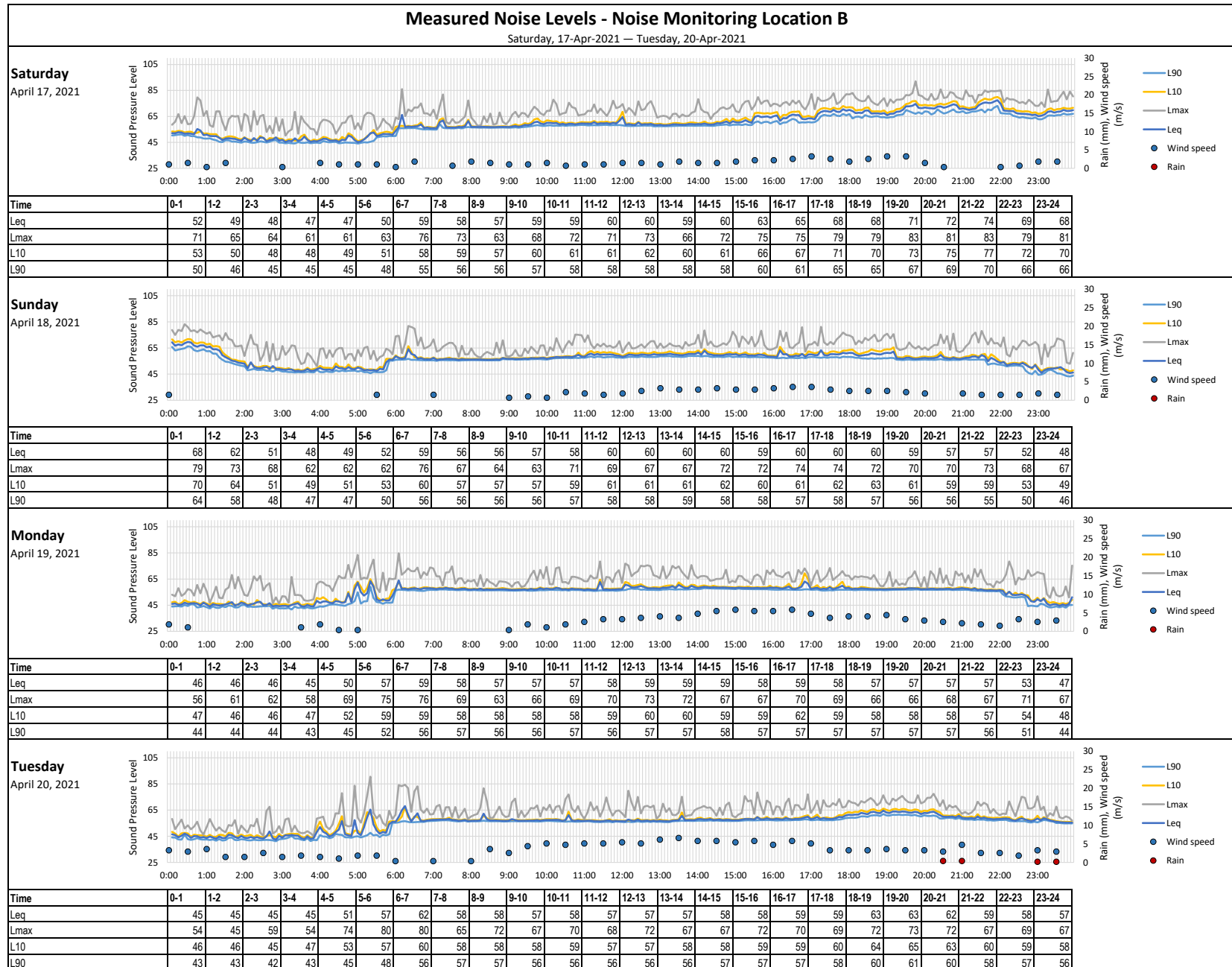


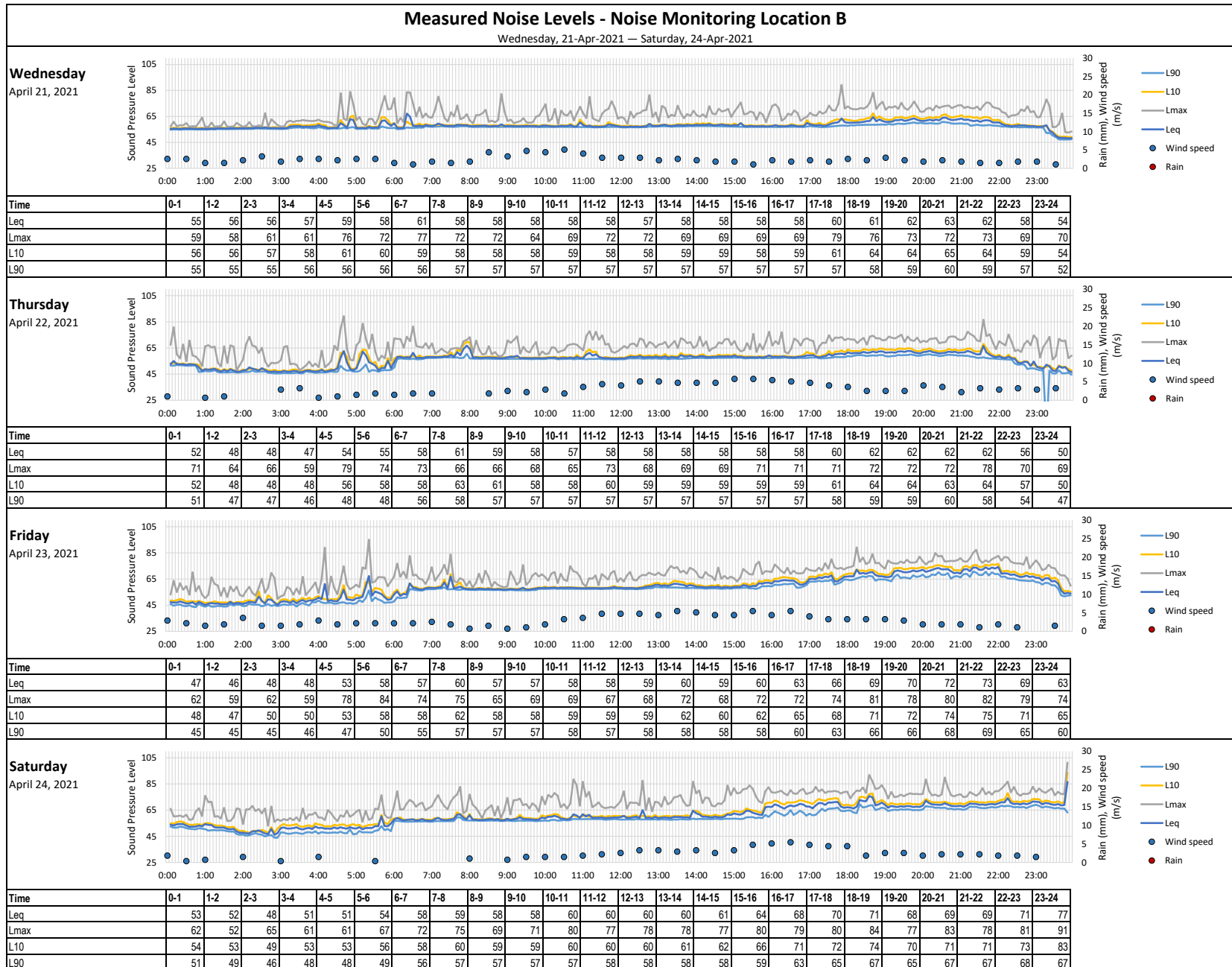
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	47	46	47	47	50	56	58	59	57	58	58	58	59	64	59	59	61	70	75	76	74	72	67	57
Lmax	57	62	66	63	71	76	77	70	64	66	70	67	78	72	74	75	85	88	88	90	84	83	80	70
L10	49	47	47	47	53	58	57	61	58	58	58	59	59	67	60	60	62	73	78	78	76	74	69	57
L90	46	45	45	45	46	48	55	57	57	57	57	58	58	58	58	58	58	64	69	71	70	69	63	55

Friday
April 16, 2021



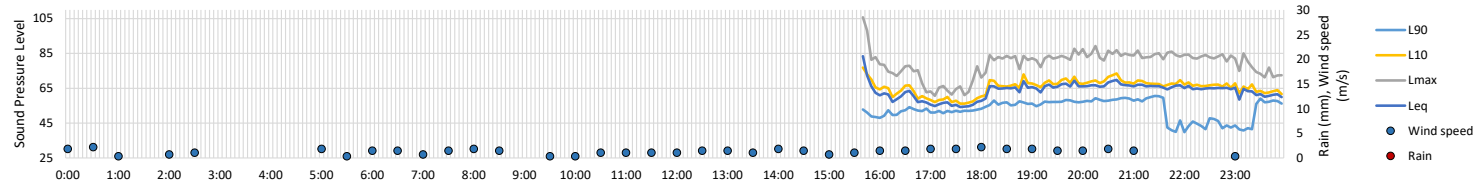
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	54	54	54	54	55	57	60	58	57	57	58	58	59	59	59	63	66	69	71	68	69	67	66	61
Lmax	62	54	60	58	63	72	85	66	69	67	67	68	71	71	69	85	75	78	79	78	81	89	84	75
L10	54	54	54	55	56	59	59	59	58	58	59	59	60	60	60	60	69	72	73	70	72	68	70	64
L90	53	53	53	53	54	54	55	56	57	56	58	58	58	58	58	58	61	65	67	63	65	62	65	58



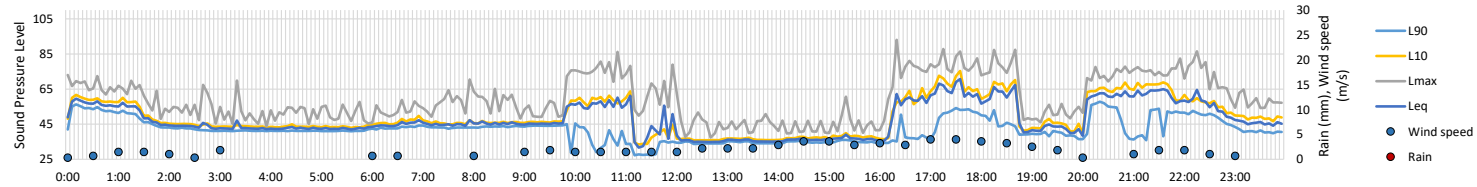


Measured Noise Levels - Noise Monitoring Location B (Living room)

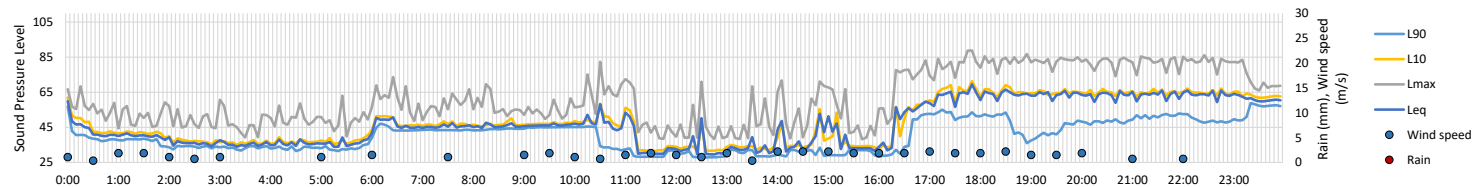
Thursday, 01-Apr-2021 — Sunday, 04-Apr-2021

Thursday
 April 1, 2021


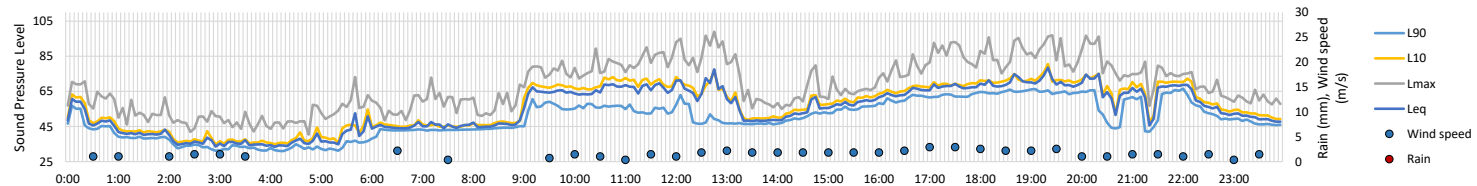
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq																	73	60	56	65	66	67	66	65	62
Lmax																	96	76	69	82	83	85	84	83	78
L10																	68	64	58	68	69	70	68	67	64
L90																	46	52	52	56	57	58	58	45	55

Friday
 April 2, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	57	53	44	43	43	43	45	45	45	50	57	53	36	36	36	37	58	66	62	43	61	63	58	46
Lmax	68	64	59	60	52	53	54	62	60	67	79	72	52	46	44	51	83	82	81	52	74	77	78	59
L10	59	55	45	44	44	44	47	46	46	50	59	55	36	37	37	38	60	70	66	45	65	67	58	49
L90	54	49	42	41	41	41	43	43	44	44	40	32	34	35	35	35	41	52	47	39	54	50	50	41

Saturday
 April 3, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	50	40	36	36	36	36	48	46	46	46	50	45	40	34	44	43	54	64	64	64	64	64	64	61
Lmax	61	53	51	53	52	54	66	60	62	56	62	60	58	65	61	77	83	83	83	83	83	83	83	77
L10	53	42	37	36	37	38	49	47	47	47	51	48	38	34	46	43	55	67	66	65	65	65	65	63
L90	47	38	34	33	33	33	44	43	44	45	43	30	29	30	31	31	46	53	50	44	48	51	50	56

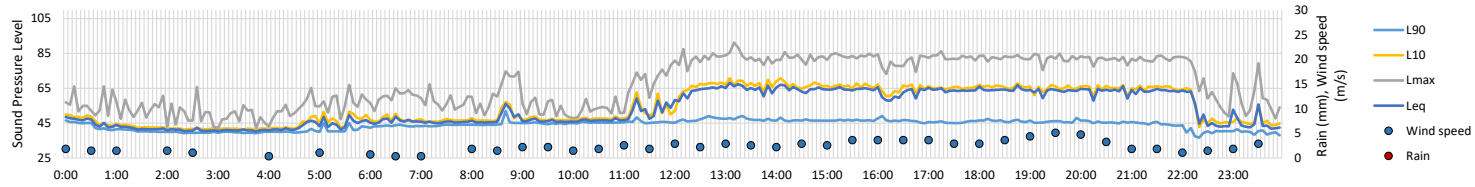
Sunday
 April 4, 2021
 (Easter Sunday)


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	55	41	37	35	36	45	45	46	46	65	66	68	71	55	56	58	64	68	71	72	70	66	63	50
Lmax	66	41	49	48	51	63	58	64	61	78	82	85	93	78	71	67	79	89	90	91	91	76	71	61
L10	57	42	38	37	39	46	46	45	47	68	70	71	70	57	57	61	66	69	72	74	71	69	66	52
L90	51	39	34	33	33	35	43	43	44	57	57	54	56	47	51	55	61	63	65	65	61	62	59	47

Measured Noise Levels - Noise Monitoring Location B (Living room)

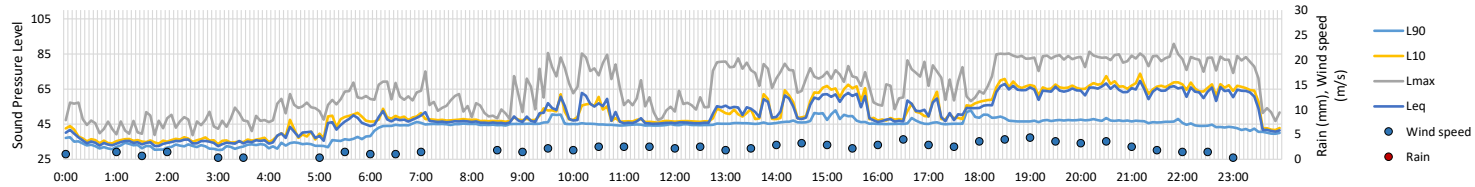
Monday, 05-Apr-2021 — Thursday, 08-Apr-2021

Monday
April 5, 2021



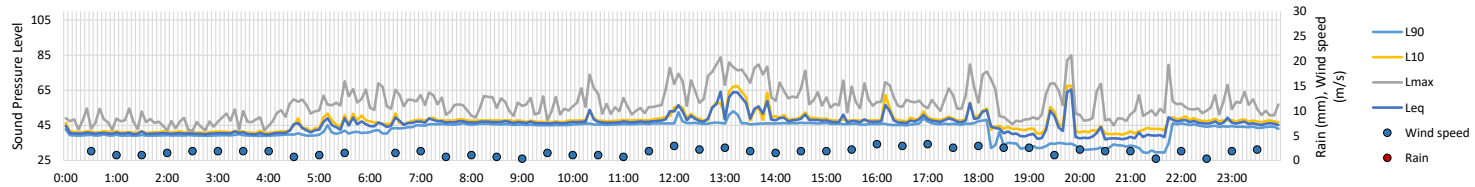
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	46	42	41	41	43	46	46	46	50	46	47	54	64	66	65	65	62	64	65	64	64	64	58	48
Lmax	60	55	56	50	57	60	61	60	69	55	55	72	83	85	83	84	81	83	83	83	82	82	76	70
L10	48	43	42	42	45	48	47	46	51	47	48	56	66	68	68	66	65	65	66	65	65	65	59	48
L90	44	41	40	40	40	42	43	44	46	45	45	46	47	47	47	47	47	46	46	46	46	45	40	40

Tuesday
April 6, 2021



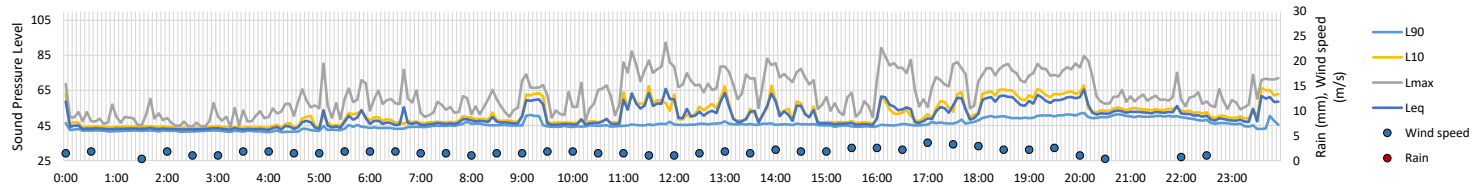
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	37	34	35	35	39	46	48	48	46	54	57	46	50	55	58	60	52	54	64	64	65	66	64	60
Lmax	52	46	48	49	56	62	65	65	62	78	80	61	73	78	74	73	75	72	83	83	83	85	82	78
L10	39	36	36	36	41	48	49	48	47	54	55	47	49	55	60	64	51	56	67	66	68	68	66	62
L90	34	32	32	32	33	36	44	45	45	47	45	44	45	45	48	49	46	48	48	48	47	47	44	41

Wednesday
April 7, 2021



Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	41	40	40	40	43	47	46	47	47	46	48	48	56	59	49	48	50	50	47	57	39	44	47	46
Lmax	49	49	46	50	56	63	67	59	58	57	65	67	76	77	67	64	63	70	68	76	60	69	60	58
L10	42	41	41	41	44	49	47	48	48	47	49	49	54	62	50	48	54	51	48	60	41	45	48	47
L90	40	39	39	39	40	41	43	46	46	45	46	46	47	48	46	46	46	46	46	42	34	32	39	44

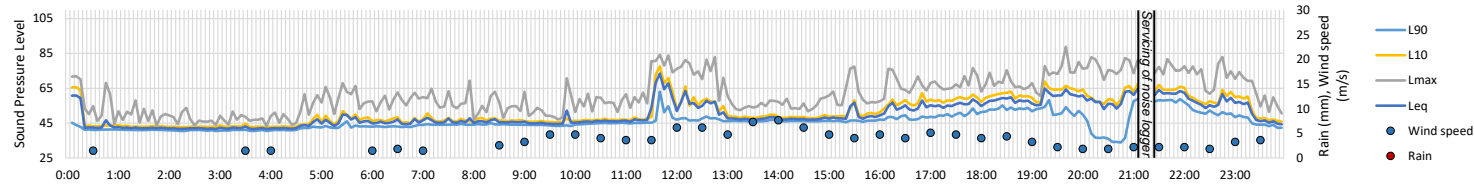
Thursday
April 8, 2021



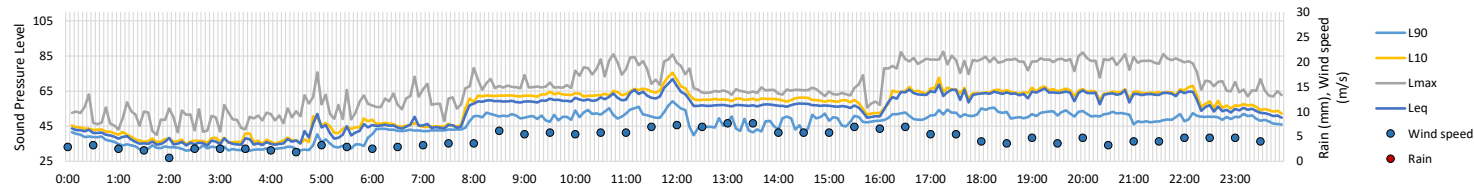
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	49	43	43	43	45	49	48	47	47	56	47	60	54	57	53	46	56	56	60	60	58	53	50	57
Lmax	59	43	50	51	58	70	67	57	58	67	63	84	73	76	74	58	81	75	76	77	77	66	60	69
L10	53	44	44	44	47	50	48	48	49	59	47	61	56	60	55	47	55	58	63	63	60	54	52	61
L90	43	42	42	42	42	44	44	45	45	48	45	46	46	46	46	45	45	47	50	51	51	50	48	46

Measured Noise Levels - Noise Monitoring Location B (Living room)

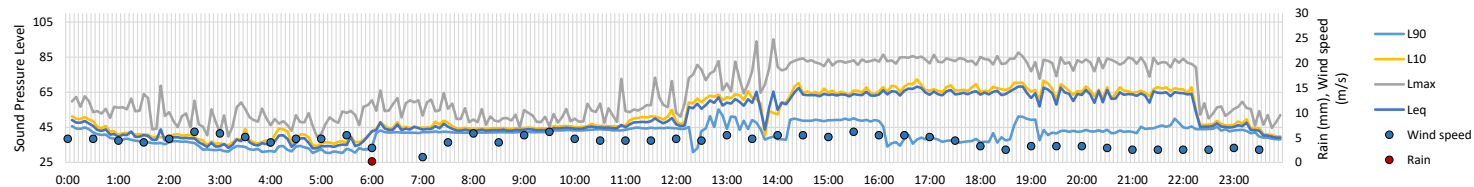
Friday, 09-Apr-2021 — Monday, 12-Apr-2021

Friday
 April 9, 2021


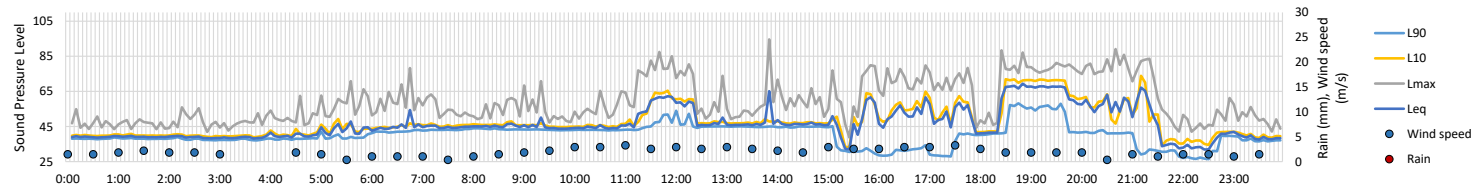
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	55	42	42	42	43	47	46	46	46	46	46	65	57	48	47	51	54	56	58	61	59	61	58	53
Lmax	66	52	48	48	55	63	59	62	56	61	58	78	78	56	56	70	70	70	70	80	79	76	76	68
L10	59	43	43	43	45	48	47	47	47	46	47	69	59	49	48	52	57	59	61	64	61	64	61	56
L90	42	41	41	41	42	43	43	44	44	44	45	54	47	46	46	46	48	50	53	53	43	57	52	46

Saturday
 April 10, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	41	37	36	36	43	43	46	49	59	59	61	66	61	57	57	55	63	65	64	64	63	63	60	53
Lmax	55	52	51	51	65	59	64	64	71	69	80	81	74	65	65	66	82	83	82	83	83	83	76	66
L10	43	38	37	38	43	45	46	52	62	63	63	69	65	60	60	58	64	67	65	66	64	64	62	56
L90	39	33	33	32	34	35	43	44	51	50	53	54	51	46	49	48	50	52	53	53	52	49	50	49

Sunday
 April 11, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	46	40	38	36	37	36	45	44	43	44	45	48	57	61	63	64	66	65	66	64	64	64	58	44
Lmax	58	61	53	53	49	53	60	58	50	52	63	65	76	87	82	83	84	83	84	82	83	82	77	54
L10	48	41	39	38	41	37	45	46	44	45	46	51	60	61	65	65	69	67	68	67	66	66	61	45
L90	43	37	35	33	33	32	42	42	42	43	43	45	48	47	48	49	41	38	46	45	43	46	44	41

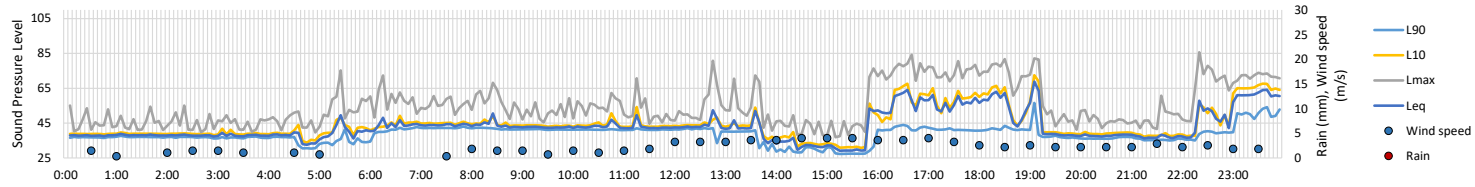
Monday
 April 12, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	39	39	39	39	40	44	47	45	45	45	45	59	55	55	47	55	55	54	65	67	59	59	37	39
Lmax	48	39	51	48	54	63	68	57	57	63	59	81	73	84	64	74	74	73	81	79	82	78	53	52
L10	40	40	40	40	41	45	45	46	46	45	45	61	57	47	47	57	58	57	68	70	59	65	39	40
L90	38	38	38	38	38	39	42	43	44	43	43	47	48	45	45	38	31	37	53	55	42	33	35	38

Measured Noise Levels - Noise Monitoring Location B (Living room)

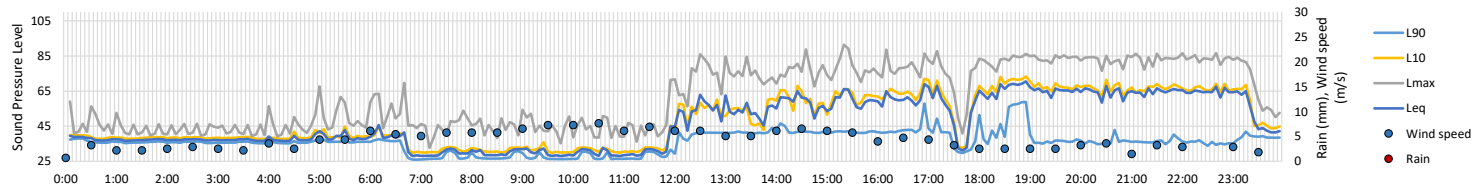
Tuesday, 13-Apr-2021 — Friday, 16-Apr-2021

Tuesday
April 13, 2021



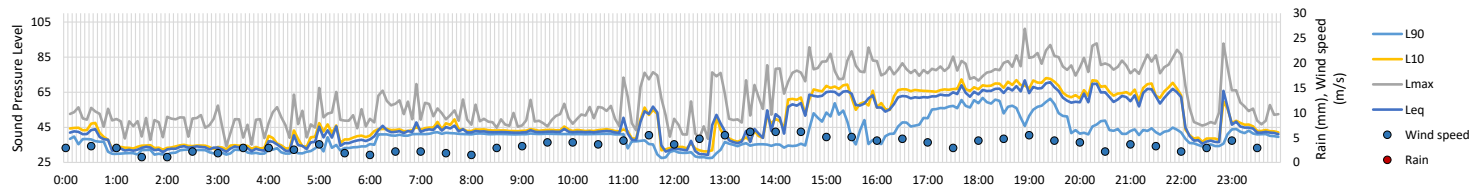
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	38	38	38	38	37	42	44	44	45	43	44	44	46	45	33	45	59	57	58	59	38	37	51	62
Lmax	49	47	48	46	47	65	64	57	61	53	57	61	70	65	45	67	78	76	76	74	48	52	76	72
L10	38	39	39	39	39	43	45	45	45	44	45	46	45	46	35	47	62	60	62	63	39	38	50	66
L90	36	37	37	37	35	36	41	42	42	41	41	41	41	39	30	29	42	41	42	46	36	36	39	51

Wednesday
April 14, 2021



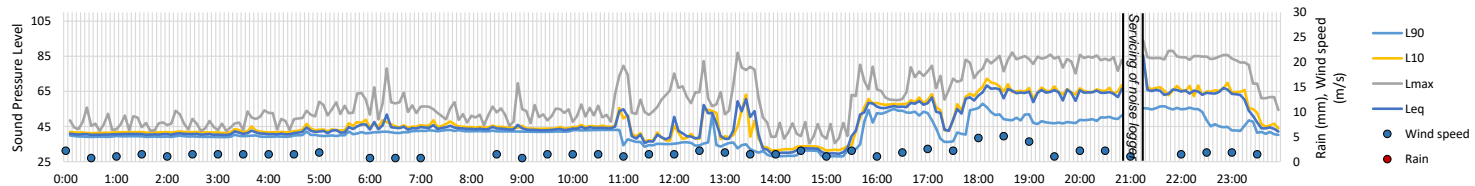
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	38	37	37	37	38	39	40	30	30	30	30	35	56	56	60	61	62	61	67	66	65	65	65	60
Lmax	51	45	44	43	49	59	61	47	46	48	46	61	79	78	80	84	82	80	83	84	83	84	84	78
L10	39	38	38	38	39	41	40	31	32	32	36	56	55	63	63	65	65	70	68	67	67	67	62	62
L90	36	36	36	36	36	36	35	28	28	27	28	29	40	42	43	42	48	42	54	37	37	37	36	39

Thursday
April 15, 2021



Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	41	33	33	33	36	41	43	44	42	43	42	51	44	45	60	64	61	64	67	67	65	64	57	44
Lmax	53	47	50	49	55	59	63	55	51	54	54	71	70	71	82	84	78	80	91	86	86	83	83	60
L10	44	34	34	34	38	43	44	46	43	44	43	50	42	44	62	66	64	67	69	70	67	67	55	46
L90	37	31	31	31	31	35	40	42	41	41	41	36	30	35	46	52	46	57	58	56	45	43	37	42

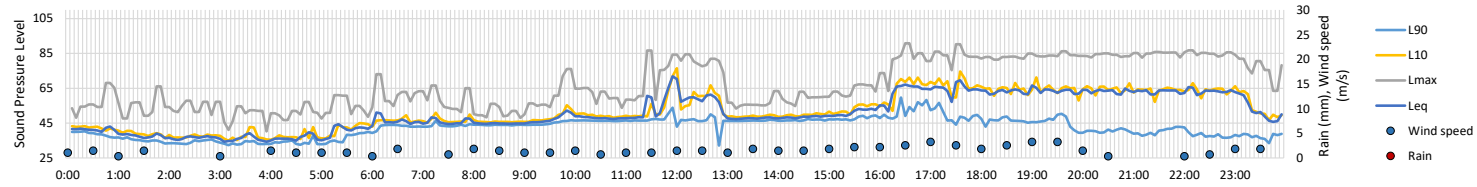
Friday
April 16, 2021



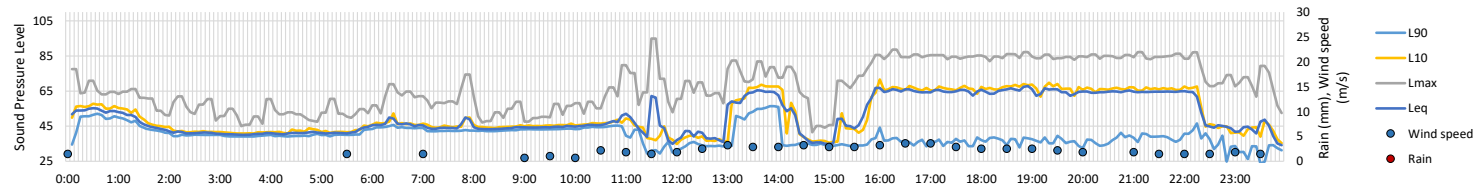
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	40	41	41	41	42	44	46	44	44	43	46	46	50	53	31	52	57	58	65	64	64	75	65	58
Lmax	49	41	48	49	51	59	68	55	60	54	64	70	73	78	44	72	77	83	83	84	84	87	85	78
L10	41	42	42	43	43	45	46	46	45	44	48	44	50	53	33	53	59	59	68	65	66	74	66	60
L90	39	39	39	39	40	41	42	43	42	42	43	35	42	33	30	45	53	49	53	48	49	54	52	44

Measured Noise Levels - Noise Monitoring Location B (Living room)

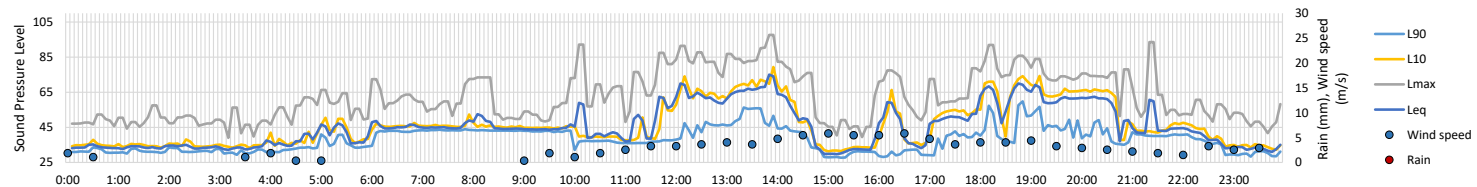
Saturday, 17-Apr-2021 — Tuesday, 20-Apr-2021

Saturday
 April 17, 2021


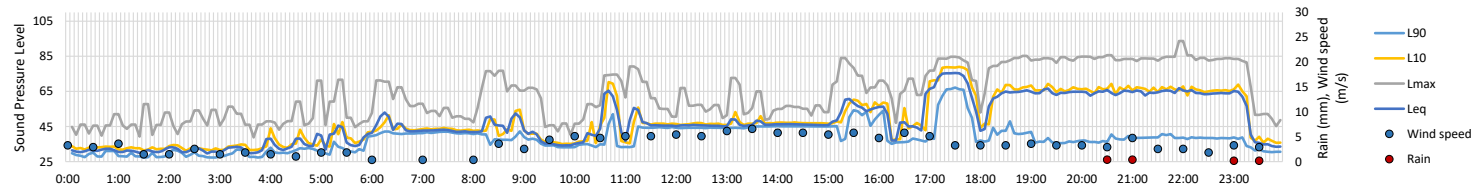
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	41	38	37	36	37	42	47	46	45	48	48	63	62	48	48	51	65	66	63	64	63	63	64	57
Lmax	62	60	55	52	52	57	66	62	52	69	63	80	82	57	60	65	85	86	83	84	84	85	85	79
L10	42	39	38	38	38	42	47	47	46	50	49	62	67	49	50	54	67	69	65	66	65	64	64	59
L90	39	35	34	34	34	37	43	44	44	45	46	48	47	46	47	48	54	51	47	47	41	41	39	38

Sunday
 April 18, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	54	49	41	40	41	42	47	46	44	45	47	55	40	63	54	58	65	65	66	65	65	65	59	44
Lmax	71	63	58	53	53	55	64	68	56	54	70	87	67	79	73	77	86	85	85	84	85	85	81	74
L10	56	52	42	41	42	43	47	46	45	45	47	44	38	66	59	56	67	66	67	67	66	66	63	43
L90	50	46	40	39	40	41	44	43	43	43	44	38	34	53	46	35	38	36	37	37	37	39	40	32

Monday
 April 19, 2021


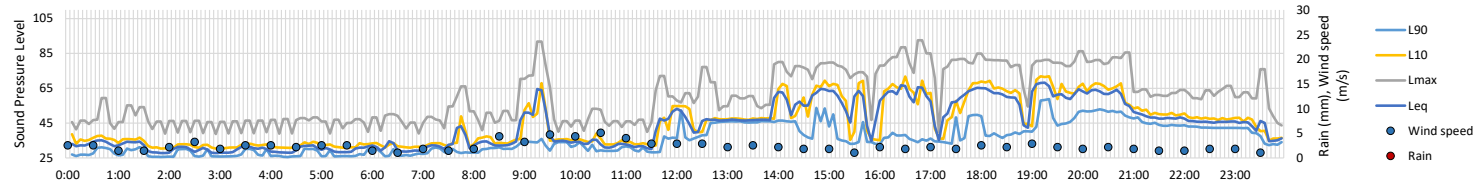
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	33	34	34	34	38	43	46	46	48	44	51	56	65	69	58	33	53	50	66	64	60	53	41	33
Lmax	49	52	49	50	58	62	66	64	70	63	84	81	86	91	77	53	72	72	86	78	75	86	56	51
L10	35	35	35	35	39	46	46	47	46	45	41	53	67	72	62	33	56	53	70	68	64	45	43	34
L90	31	31	32	31	33	37	42	43	43	43	37	37	45	53	42	30	30	40	53	50	43	41	38	30

Tuesday
 April 20, 2021


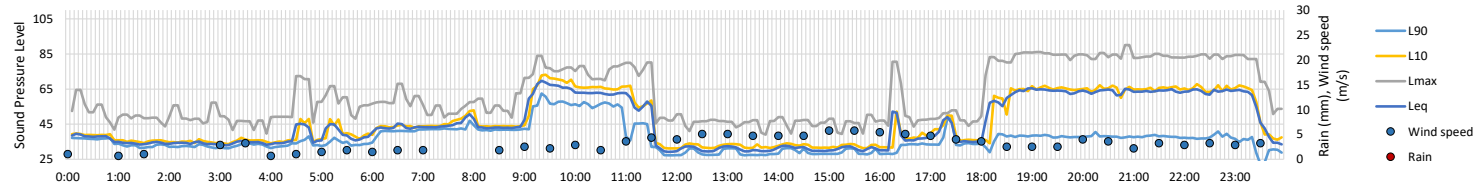
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	31	31	32	33	36	40	47	43	48	38	58	49	46	47	46	56	55	73	63	65	65	65	64	58
Lmax	46	31	51	51	61	66	67	53	73	62	70	73	61	66	56	78	69	82	82	83	84	86	86	78
L10	33	32	33	33	38	41	46	44	48	39	63	48	46	48	47	56	53	77	65	67	67	66	66	61
L90	29	28	29	29	32	33	41	41	39	36	43	43	44	45	45	50	46	63	42	37	38	39	38	35

Measured Noise Levels - Noise Monitoring Location B (Living room)

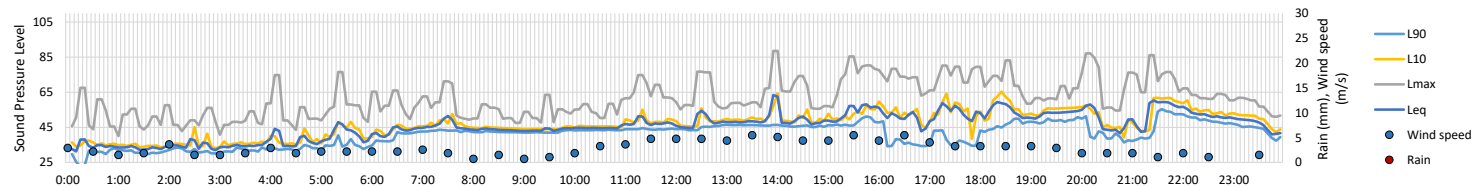
Wednesday, 21-Apr-2021 — Saturday, 24-Apr-2021

Wednesday
 April 21, 2021


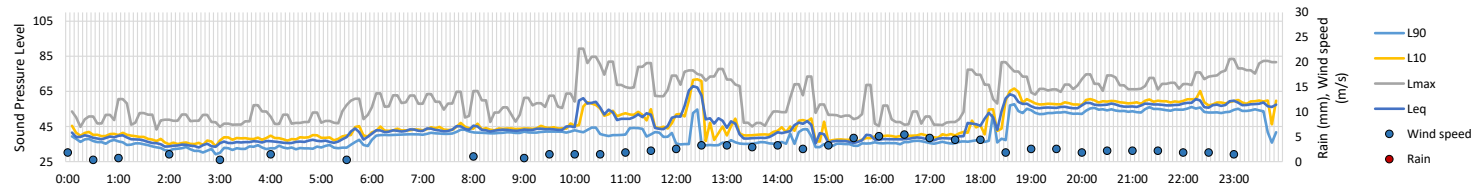
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq	33	32	30	30	30	30	31	37	38	57	33	44	48	51	61	60	63	60	61	65	62	49	46	43	
Lmax		52	51	45	45	47	45	47	59	60	84	49	65	70	68	78	76	87	81	80	81	83	62	63	69
L10		36	34	32	32	32	32	40	35	58	35	46	51	48	64	64	66	62	65	68	66	51	48	45	
L90		28	28	28	28	28	27	28	29	31	34	31	33	45	46	48	42	37	45	41	53	52	45	43	39

Thursday
 April 22, 2021


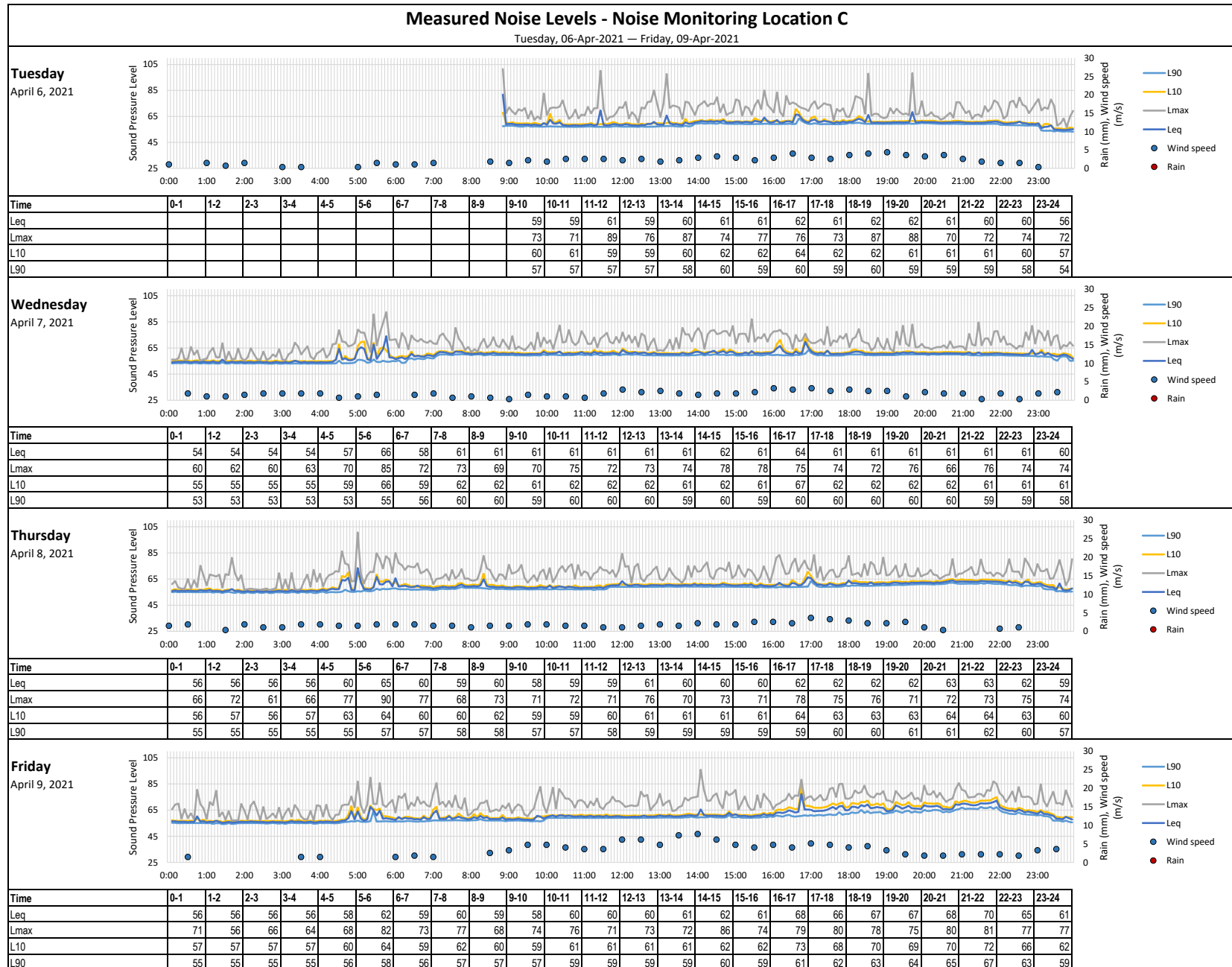
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	38	34	34	34	41	41	43	46	44	66	63	56	31	31	31	31	45	43	61	64	64	64	64	60
Lmax		58	49	53	47	67	61	62	54	58	79	76	47	46	46	47	73	50	83	85	86	84	84	80
L10		38	35	35	42	42	43	47	46	70	66	60	33	33	33	33	43	44	62	66	65	65	65	62
L90		36	33	32	33	34	34	41	43	42	57	56	41	29	29	30	29	32	41	37	38	38	38	34

Friday
 April 23, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq	35	33	35	35	39	43	43	47	44	44	45	48	49	54	53	55	52	55	56	53	53	57	53	48	
Lmax		61	52	52	52	67	69	62	65	54	57	69	72	78	78	80	75	77	77	65	81	79	64	59	
L10		35	35	38	36	39	44	44	48	45	44	45	50	49	51	55	53	55	57	59	55	52	59	56	50
L90		30	31	32	32	33	36	40	43	42	42	43	44	45	46	46	48	41	39	47	49	44	51	50	44

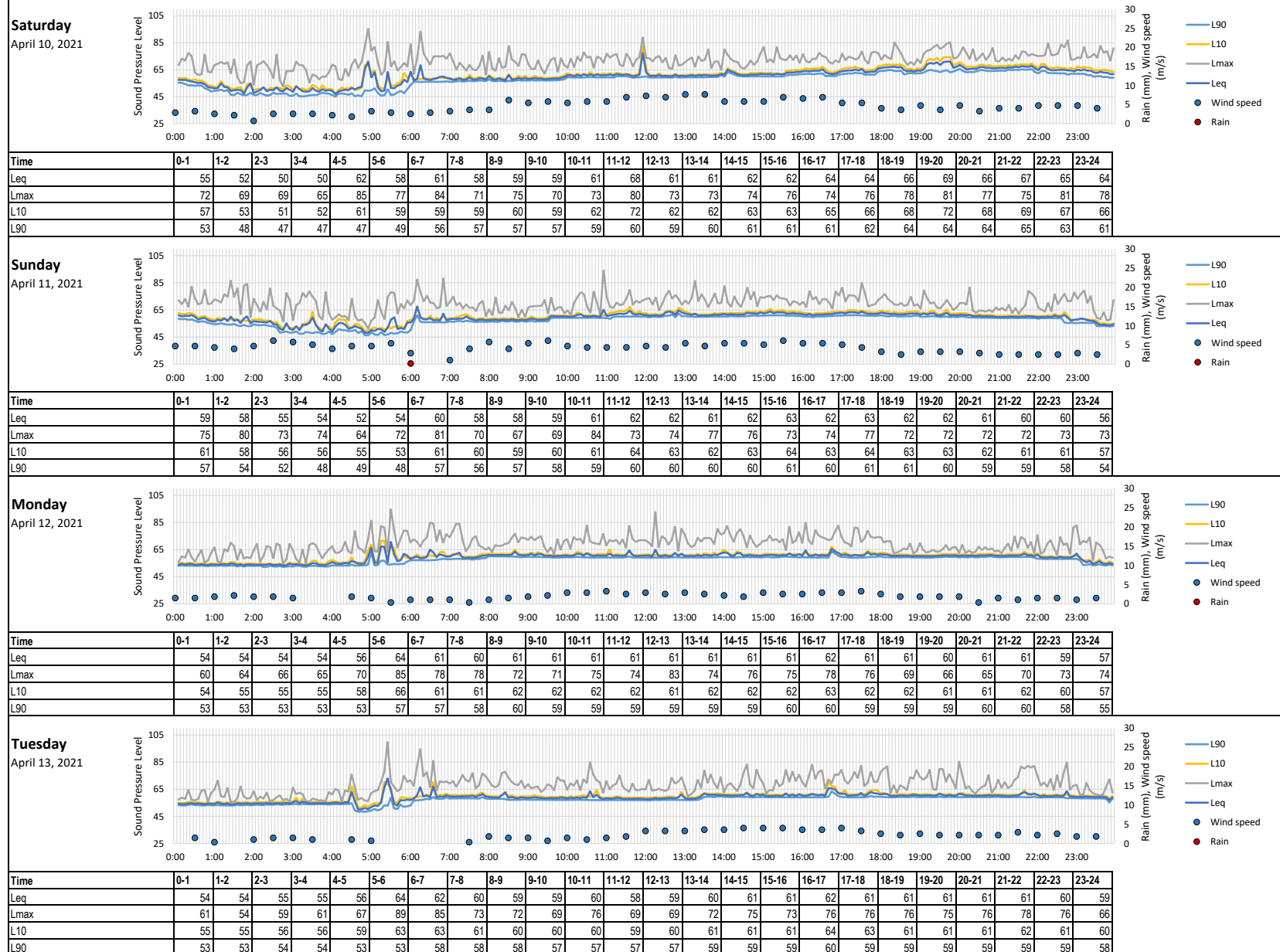
Saturday
 April 24, 2021


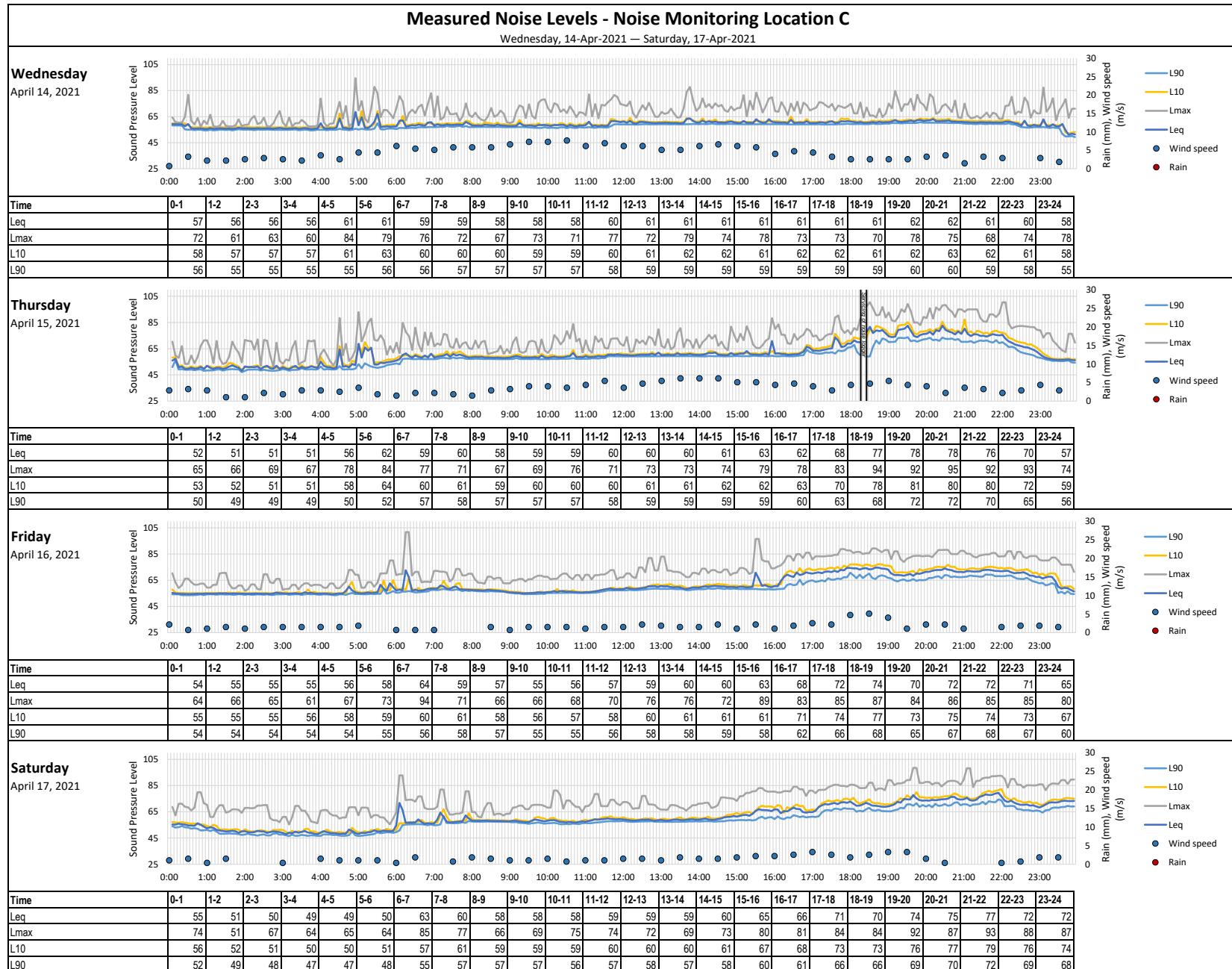
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	39	37	34	36	36	39	42	44	43	44	57	50	62	42	44	37	38	42	58	56	57	57	58	57
Lmax		50	37	50	52	50	56	61	59	61	84	76	75	66	67	61	52	71	77	67	72	69	76	80
L10		41	39	35	38	39	41	43	44	44	44	55	51	66	43	46	38	40	42	61	58	59	60	59
L90		37	35	32	33	33	34	40	42	41	42	42	42	46	36	39	35	36	36	52	53	54	54	53



Measured Noise Levels - Noise Monitoring Location C

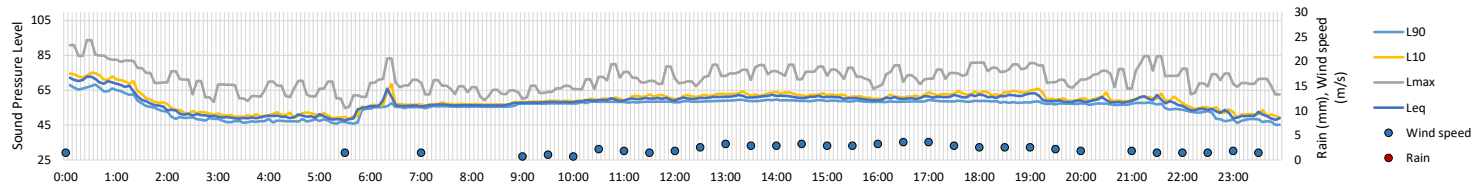
Saturday, 10-Apr-2021 — Tuesday, 13-Apr-2021



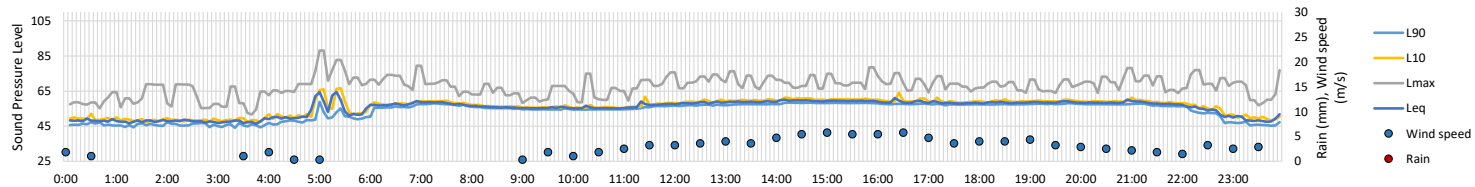


Measured Noise Levels - Noise Monitoring Location C

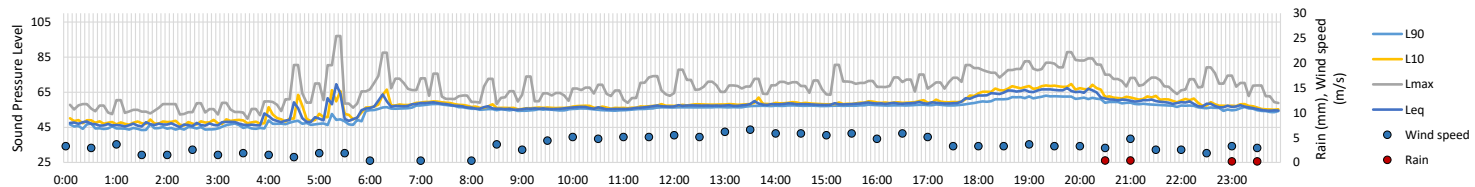
Sunday, 18-Apr-2021 — Wednesday, 21-Apr-2021

Sunday
 April 18, 2021


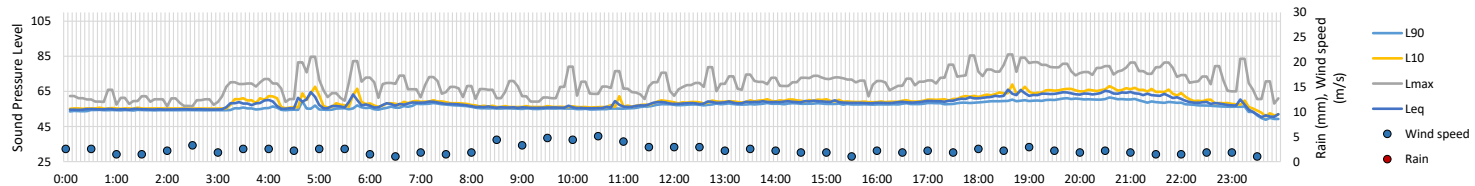
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	71	64	52	49	50	51	59	56	57	58	59	60	61	62	61	60	60	61	62	60	59	60	54	50
Lmax	89	79	71	66	67	65	76	67	64	66	74	74	74	76	77	75	74	76	78	76	74	81	73	69
L10	73	67	53	50	51	51	61	57	57	59	60	61	62	63	63	62	61	63	64	62	60	61	55	51
L90	66	61	49	47	48	49	56	56	56	57	58	59	59	59	59	58	58	59	58	58	57	57	52	47

Monday
 April 19, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	48	48	48	48	54	59	57	58	56	55	55	57	58	59	60	59	59	58	58	59	59	58	55	49
Lmax	59	66	65	62	69	82	73	71	66	65	68	70	72	73	70	73	72	69	68	69	72	72	72	69
L10	49	49	49	49	53	62	58	58	56	56	56	58	59	60	61	60	59	59	59	59	59	59	56	50
L90	46	46	46	45	48	53	56	57	55	55	55	56	57	57	58	58	58	57	57	57	58	57	53	46

Tuesday
 April 20, 2021


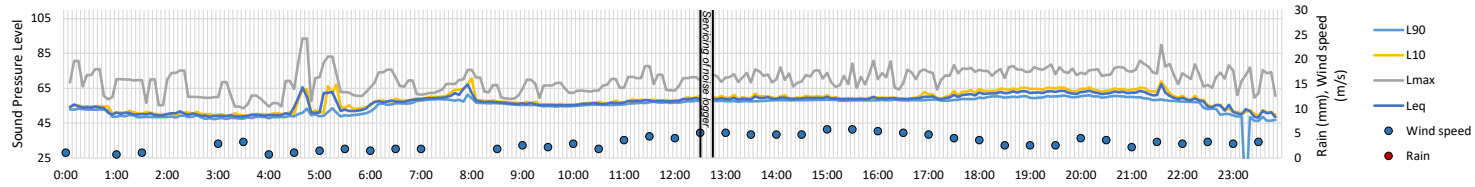
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	47	47	46	48	52	61	59	58	56	56	56	56	57	58	58	58	59	60	65	66	64	60	58	56
Lmax	56	57	56	56	73	89	80	70	67	68	67	70	72	69	70	74	72	75	78	83	80	71	74	69
L10	48	48	48	48	55	59	60	59	56	56	57	57	58	59	59	59	59	60	67	68	66	61	59	57
L90	45	45	44	45	48	50	56	58	55	55	55	56	56	57	57	57	58	58	61	62	60	58	56	55

Wednesday
 April 21, 2021


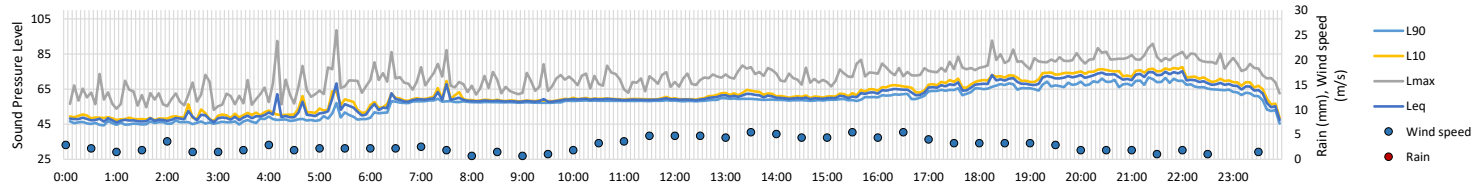
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Leq	54	55	55	58	60	58	58	58	56	56	56	58	58	59	59	59	59	60	63	64	64	63	59	55
Lmax	62	55	59	69	79	75	70	69	67	69	73	70	73	72	72	71	70	79	82	80	77	79	74	76
L10	55	55	55	59	62	60	58	59	57	56	57	58	59	59	60	59	59	61	65	65	66	65	60	56
L90	54	54	54	55	56	55	56	58	55	55	55	57	57	58	58	58	58	58	59	60	61	59	57	54

Measured Noise Levels - Noise Monitoring Location C

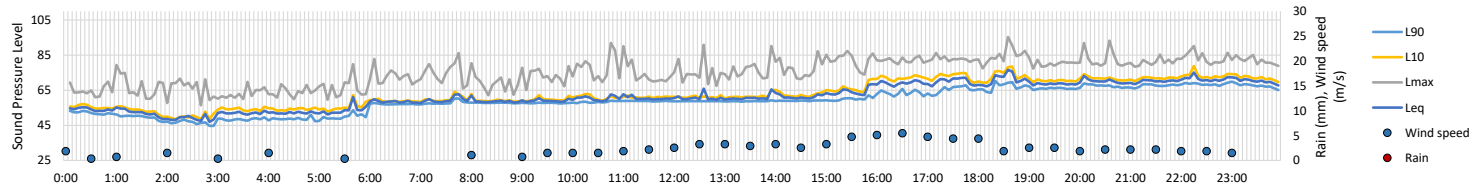
Thursday, 22-Apr-2021 — Sunday, 25-Apr-2021

Thursday
 April 22, 2021


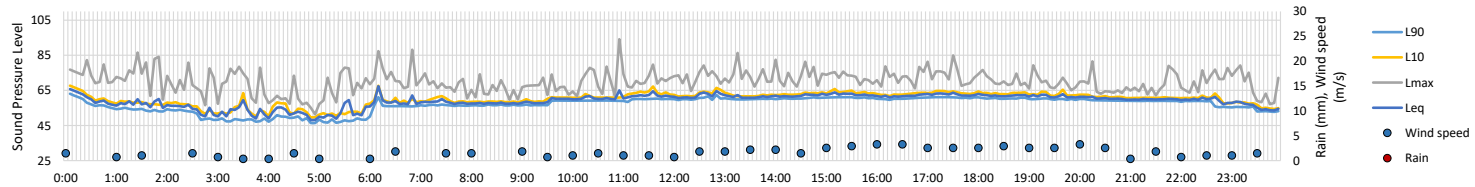
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq	53	50	50	49	57	58	57	62	58	56	56	58	58	59	59	59	59	60	63	63	63	63	57	50	
Lmax		75	69	70	63	86	77	72	68	68	67	66	73	70	72	73	74	74	75	75	76	75	81	74	72
L10		54	51	50	50	58	60	58	63	62	56	57	58	59	60	60	60	60	62	64	65	64	64	58	51
L90		52	49	49	48	50	50	56	59	57	55	55	57	57	58	58	58	58	60	60	60	60	59	55	47

Friday
 April 23, 2021


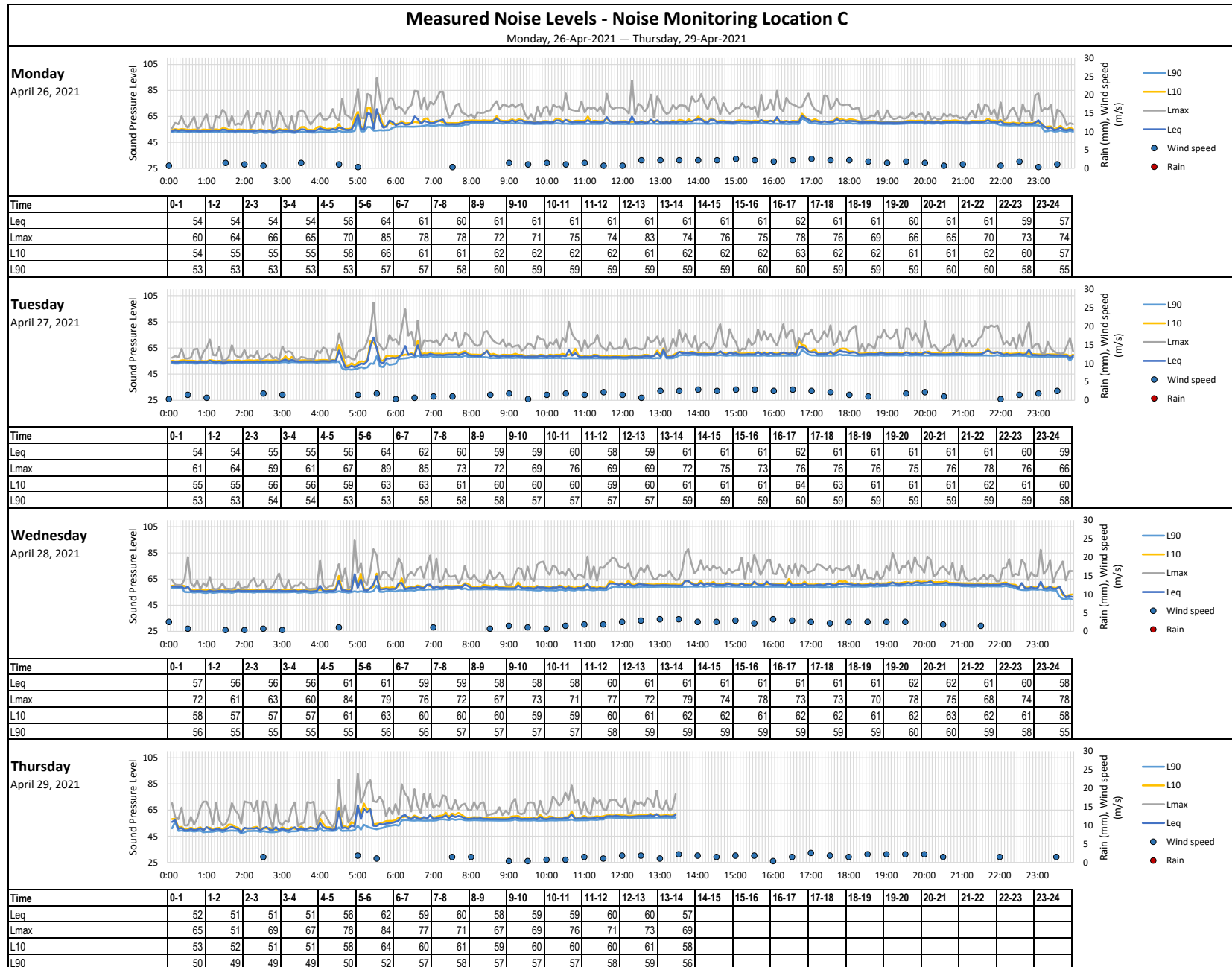
Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq	47	47	49	49	54	59	58	61	58	58	59	59	60	61	60	61	64	67	70	71	73	74	70	64	
Lmax		65	63	66	63	82	88	77	78	68	72	73	70	71	75	72	76	75	78	85	82	84	85	83	77
L10		49	48	51	50	54	58	59	63	59	59	60	59	60	63	61	63	66	68	71	73	75	76	72	66
L90		45	45	46	47	48	51	56	58	57	57	58	58	58	59	59	59	61	64	66	67	69	70	66	60

Saturday
 April 24, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq		54	53	49	52	52	55	59	60	59	59	61	61	61	61	65	69	70	72	69	70	70	72	70	
Lmax		65	72	68	64	65	71	75	78	72	75	83	81	81	80	84	82	83	88	81	86	82	85	82	
L10		55	54	50	54	54	56	59	60	59	60	61	61	61	62	63	67	72	73	75	71	72	72	74	72
L90		52	50	47	48	49	50	57	58	58	58	58	59	59	59	60	64	66	67	66	68	68	69	68	

Sunday
 April 25, 2021


Time	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Leq	61	58	55	54	52	54	60	58	58	59	61	62	62	61	62	63	62	63	62	62	61	60	60	56	
Lmax		76	58	73	74	64	72	81	70	67	69	84	73	74	77	76	73	74	72	72	72	72	73	73	
L10		63	58	56	56	55	53	61	60	59	60	61	64	63	62	63	64	63	64	63	63	62	61	61	57
L90		59	54	52	48	49	48	57	56	57	58	59	60	60	60	61	60	61	61	61	60	59	58	54	



APPENDIX B

RELEVANT NOISE ASSESSMENT
GUIDELINES FROM OUTSIDE THE ACT



In the absence of specific objective targets applicable to patron noise in the ACT, the following guidelines can be used as reference to assess the disturbance risk associated with the measured patron noise levels.

B1 NSW POLICIES

Assessment guidelines in regard to sleep disturbance are discussed in the Noise Policy for Industry (NPfI, NSW EPA, 2017). It should also be noted some of these guideline levels apply to ‘night’ time periods (typically from 10pm until early in the next morning), whereas the observed patron noise was found to dominate the noise environment on several days from afternoon up to 1am.

Using these guidelines serves as a reference only and does not mean occurrence of patron noise prior to 10pm is irrelevant in the context of likely disturbance.

B1.1 NOISE POLICY FOR INDUSTRY (NSW)

The potential for sleep disturbance from maximum noise level events from premises during the night-time period needs to be considered. Sleep disturbance is considered to be both awakenings and disturbance to sleep stages.

The transient noise level event criteria nominated in the NPfI are the following:

- $L_{eq, 15min}$ 40 dBA or the rating background level plus 5 dB, whichever is the greater, and/or
- L_{Fmax} 52 dBA or the rating background level plus 15 dB, whichever is the greater.

The rating background level represents the background level to be used for assessment purposes per definition in the NPfI while not impacted by noise sources that are the subject of an assessment. An assessment of the rating background level has not been conducted for this project and therefore not used.

The NPfI also recommends further assessment per the following for such assessment:

Other factors that may be important in assessing the extent of impacts on sleep include:

- how often high noise events will occur
- the distribution of likely events across the night-time period and the existing ambient maximum events in the absence of the subject development
- whether there are times of day when there is a clear change in the noise environment (such as during early-morning shoulder periods)
- current scientific literature available at the time of the assessment regarding the impact of maximum noise level events at night.

B1.2 WORLD HEALTH ORGANIZATION GUIDELINES FOR COMMUNITY NOISE

In lieu of specific objective standards in the ACT for managing patron noise, one possible source of reference is Guidelines for Community Noise by World Health Organization (<https://apps.who.int/iris/handle/10665/66217>) dated April 1999.

Regarding “domestic noise and noise from leisure activities”, the guideline discusses that:

“In residential areas, noise may stem from mechanical devices (e.g. heat pumps, ventilation systems and traffic), as well as voices, music and other kinds of sounds generated by neighbours (e.g. lawn movers, vacuum cleaners and other household equipment, music reproduction and noisy parties). Aberrant social behavior is a well-recognized noise problem in multifamily dwellings, as well as at sites for entertainment (e.g. sports and music events). Due to predominantly low-frequency components, noise from ventilation systems in residential buildings may also cause considerable concern even at low and moderate sound pressure levels.”

Regarding suitable guideline noise levels to avoid noise related disturbance, the guidelines recommends that:

*“In dwellings, the critical effects of noise are on sleep, annoyance and speech interference. To avoid sleep disturbance, **indoor guideline values for bedrooms are 30 dB LAeq for continuous noise and 45 dB LMax for single sound events**. Lower levels may be annoying, depending on the nature of the noise source. The maximum sound pressure level should be measured with the instrument set at “drier”.*

*To protect the majority of people from being seriously annoyed during the **daytime**, the sound pressure level on balconies, terraces and outdoor living areas should not exceed **55 dB LAeq for a steady, continuous noise**. To protect the majority of people from being moderately annoyed during the daytime, the **outdoor sound pressure level should not exceed 50 dB LAeq**. These values are based on annoyance studies, but most countries in Europe have adopted 40 dB LAeq as the maximum allowable level for new developments (Gottlob 1995). Indeed, the lower value should be considered the maximum allowable sound pressure level for all new developments whenever feasible.*

***At night, sound pressure levels at the outside façades of the living spaces should not exceed 45 dB LAeq and 60 dB LMax, so that people may sleep with bedroom windows open.** These values have been obtained by assuming that the noise reduction from outside to inside with the window partly open is 15 dB.”*