March 2026

Construction noise and vibration Monthly Report – March 2026

Lichfield District Council

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Non-Technical Summary

This Noise and Vibration Monitoring Report fulfils HS2 Limited's commitment detailed in the Environmental Minimum Requirements (EMRs), Annex 1, Code of Construction Practice, to present the results of noise and vibration monitoring carried out within Lichfield District Council during the month of March 2026.

Within this period monitoring was undertaken at the following worksites:

- Fradley Wood Embankment (ref.: FEW) worksite where road realignment works, haul road and site maintenance, vegetation removal, utility works and track mat installation were underway.

- A38 Southbound Slip Road Realignment (ref: A38SSRR) worksite where excavation, arising removal, pile cropping, road construction, stone deliveries, removals and installation, drainage works, piling and material deliveries were underway.

- Streethay Cutting Retaining Structure (ref: SCRS) worksite where excavation, arising removal, pile cropping, road construction, stone deliveries, removals and installation, drainage works, piling and material deliveries were underway.

- Staffs Lane (ref: SSL) worksite where no works were undertaken.

- Whittington Common Cutting (ref: WCC) worksite where no works were undertaken.

- Swinfen Cutting South (ref: SCS) worksite where no works were undertaken.

- Trunk's Road (ref.: N23) worksite where haul road maintenance, excavation, stockpiling, piling works, stone placement, bridge works, de-watering and water pumping were underway.

- Sutton Road Overbridge (ref.: SRO) worksite where no works were undertaken.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (https://www.gov.uk/government/publications/hs2-information-papersenvironment) were exceeded eleven (11) times during the reporting period.

There were no exceedances of trigger levels as defined in section 61 consents during the reporting period at any monitoring position.

No complaints were received during the monitoring period.

Abbreviations and Descriptions

The abbreviations, descriptions and project terminology used within this report can be found in Table 1.

Table 1: Table of Abbreviations

Acronym/Term	Definition
LAeq,T	See equivalent continuous sound pressure level.
Ambient Sound	A description of the all-encompassing sound at a given location and time which will include sound from many sources near and far. Ambient sound can be quantified in terms of the equivalent continuous sound pressure level, LpAeq,T
Decibel(s), or dB	Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
Decibel(s) A-weighted, or dB(A)	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dB(A)'.
Equivalent continuous sound pressure level, or LAeq,T	An index used internationally for the assessment of environmental sound impacts. It is defined as the notional unchanging level that would, over a given period of time (T), deliver the same sound energy as the actual time-varying sound over the same period. Hence fluctuating sound levels can be described in terms of an equivalent single figure value, typically expressed as a decibel level.
Exclusion of data	Measurement of noise levels can be affected by weather conditions such as prolonged periods of rain, winds speeds higher than 5m/s and snow/ice ground cover. Noise levels measured during these periods are considered not representative of normal noise conditions at the site and, for the purposes of this report, are excluded from the assessment of exceedances and calculation of typical noise levels and are also greyed out in charts. Identifiable incongruous noise and vibration events not attributable to HS2 construction noise are also excluded.
Façade	A facade noise level is the noise level 1m in front of a large reflecting surface. The effect of reflection, is to produce a slightly higher (typically +2.5 to +3 dB) sound level than it would be if the reflecting surface was not there.
Free-field	A free-field noise level is the noise level measured at a location where no reflective surfaces, other than the ground, lies within 3.5 metres of the microphone position.
LOAEL	Lowest Observed Adverse Effect Level - the level above which adverse effects on health and quality of life can be detected.
Peak particle velocity, or PPV	Instantaneous maximum velocity reached by a vibrating element as it oscillates about its rest position. The PPV is a simple indicator of perceptibility and risk of damage to structures due to vibration. It is usually measured in mm/s.
SOAEL	Significant Observed Adverse Effect Level - the level above which significant adverse effects on health and quality of life occur.

Sound pressure level	The parameter by which sound levels are measured in air. It is measured in decibels. The threshold of hearing has been set at 0dB, while the threshold of pain is approximately 120dB. Normal speech is approximately 60dB at a distance of 1 metre and a change of 3dB in a time varying sound signal is commonly regarded as being just detectable. A change of 10dB is subjectively twice, or half, as loud.
Vibration dose value, or VDV	An index used to evaluate human exposure to vibration in buildings. While the PPV provides information regarding the magnitude of single vibration events, the VDV provides a measure of the total vibration experienced over a specified period of time (typically 16h daytime and 8h night-time). It takes into account the magnitude, the number and the duration of vibration events and can be used to quantify exposure to continuous, impulsive, occasional and intermittent vibration. The vibration dose value is measured in $m/s^{1.75}$.

1 Introduction

1.1.1 HS2 is required to undertake noise (and vibration) monitoring as necessary to comply with the requirements of the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, including specifically Annex 1: Code of Construction Practice, in addition to any monitoring requirements arising from conditions imposed through consents under Section 61 of the Control of Pollution Act, 1974 or through Undertakings & Assurances given to third parties. Such monitoring may be undertaken for the following purposes:

- monitoring the impact of construction works;
- to investigate complaints, incidents and exceedance of trigger levels; or
- monitoring the effectiveness of noise and vibration control measures.

Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the Lichfield District Council (LDC) area for the period 1-31 March 2026.

1.1.2 Active construction sites in the local authority area during this period include:

- South Staffs Lane ref: SSL (see Worksite Identification Plan 2 in Appendix A), where no works were undertaken.

- Whittington Common Cutting ref: WCC (see Worksite Identification plan 3 in Appendix A), where no works were undertaken.

- Fradley Wood Embankment ref: FEW (see Worksite Identification plan 1 in Appendix A), where work activities included:
  - Road realignment works
  - Haul road maintenance
  - Site maintenance
  - Vegetation removal
  - Utility works
  - Track mat installation

- Trunk's Road ref: N23 (see Worksite Identification plan 4 in Appendix A), where work activities included:
  - Haul road maintenance
  - Excavation
  - Bridge works including steel fixing, installation and removal of formwork, and concrete pouring
  - De-watering

- Water pumping

- Swinfen Cutting South ref: SCS (see Worksite Identification plan 4 in Appendix A), where no works were undertaken.

- Streethay Cutting Retaining Structure ref: SCRS (see Worksite Identification plan 2 in Appendix A), where work activities included:
  - Excavation
  - Arising removal
  - Pile cropping
  - Road construction including asphalt installation and compaction
  - Stone deliveries, removals and installation
  - Drainage works
  - Piling
  - Material deliveries including concrete and cages

- Sutton Road Overbridge ref: SRO (see Worksite Identification plan 5 in Appendix A), where no works were undertaken.

- A38 Southbound Slip Road Realignment ref: A38SSRR (see Worksite Identification plan 2 in Appendix A), where work activities included:
  - Excavation
  - Arising removal
  - Pile cropping
  - Road construction including asphalt installation and compaction
  - Stone deliveries, removals and installation
  - Drainage works
  - Piling
  - Material deliveries including concrete and cages

1.1.3 The applicable standards, guidance, and monitoring methodology is outlined in the construction noise and vibration monitoring methodology report which can be found at the following location https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2. Noise and vibration monitoring reports for previous months can also be found at this location.

1.2 Measurement Locations

1.2.1 12 noise and 3 vibration monitoring installations were active in March in the Lichfield District Council area. Tables 2a and 2b summarise the position of noise and vibration monitoring installations within the Lichfield District Council area in March 2026.

1.2.2 Maps showing the position of noise and vibration monitoring installations are presented in Appendix B.

Table 2a: Noise Monitoring Locations

Worksite Reference	Measurement Reference	Address
A38SSRR	A38SSRR-N1	Thompson Way, Streethay, Lichfield
FEW	FEW-N1	Wood End Farm, Wood End Lane, Curborough, Lichfield
N23	N23-N1	21 Roman Road
SCRS	SCRS-N1	Manor House, Burton Road, Streethay Lichfield
	SCRS-N2	Kings Orchard Marina, Broad Lane, Huddlesford, Lichfield
	SCRS-N4	(west of) Streethay Farm, Lichfield
SCS	SCS-N1	The Lodge, Rock Hill, Weeford, Lichfield
SRO	SRO-N1	Sutton Road, Drayton Bassett, Tamworth
	SRO-N3	White House Farm, Bangley Lane, Tamworth
SSL	SSL-N1	(North east of) Hill Farm, Ash Tree Lane, Streethay
WCC	WCC-N2	Ellfield House, Lichfield Road, Whittington
	WCC-N3	(south of) Whittington Hill Farm, Darnford Lane

Table 2b: Vibration Monitoring Locations

Worksite Reference	Measurement Reference	Address
FEW	FEW-V3	Wood End Farm, Wood End Lane
SRO	SRO-V2	Sutton Road, Drayton Bassett, Tamworth
	SRO-V3	White House Farm, Bangley Lane, Tamworth

2 Summary of Results

2.1 Summary of Measured Noise and Vibration Levels

2.1.1 Table 3 presents a summary of the measured noise levels at each monitoring location over the reporting period. The LAeq,T is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period LAeq,T that was found to occur within the month.

Table 3: Summary of Measured dB LAeq Data over the Monitoring Period

Worksite Reference.	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average LAeq,T (Highest Day LAeq,T)					Saturday Average LAeq,T (Highest Day LAeq,T)					Sunday / Public Holiday LAeq,T (Highest Day LAeq,T)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
A38SSRR	A38SSRR-N1	Thompson Way, Streethay,	Free-field	61.0 (64.7)	61.3 (67.9)	60.0 (65.0)	59.0 (63.6)	57.0 (62.8)	54.5 (56.8)	60.1 (66.8)	57.5 (59.0)	57.2 (59.0)	54.6 (61.1)	58.5 (63.5)	57.1 (64.7)
FEW	FEW-N1	Wood End Farm, Wood End Lane,	Free-field	60.4 (63.1)	57.1 (62.8)	58.3 (71.5)	55.8 (62.4)	55.5 (63.4)	56.5 (61.2)	58.6 (62.7)	58.8 (62.9)	57.9 (63.9)	50.8 (59.1)	56.9 (63.1)	54.2 (63.4)
N23	N23-N1	21 Roman Road	Free-field	59.4 (62.1)	57.7 (61.0)	56.6 (59.6)	53.0 (56.7)	51.5 (60.2)	54.9 (56.9)	56.7 (58.1)	59.7 (63.6)	55.1 (60.1)	49.7 (57.0)	54.8 (58.6)	51.9 (59.4)
SCRS	SCRS-N1	Manor House, Burton Road, Streethay	Free-field	54.3 (58.1)	57.7 (60.3)	57.3 (62.7)	56.6 (63.9)	51.7 (59.9)	49.5 (49.6)	51.0 (55.7)	50.1 (53.7)	50.7 (58.7)	49.7 (54.7)	51.8 (56.0)	51.0 (58.7)
	SCRS-N2	Kings Orchard Marina, Broad Lane, Huddlesford,	Free-field	51.5 (56.8)	51.1 (57.6)	50.2 (56.2)	49.8 (55.0)	48.5 (56.3)	47.3 (50.6)	49.9 (51.9)	52.2 (54.1)	47.5 (53.1)	43.2 (52.3)	47.3 (53.5)	46.0 (51.6)
	SCRS-N4	Streethay Farm, Lichfield	Free-field	59.3 (62.9)	61.5 (66.2)	57.8 (62.1)	57.5 (68.7)	56.0 (67.9)	54.2 (57.2)	56.1 (60.3)	56.0 (60.2)	54.8 (59.7)	52.8 (66.0)	56.9 (64.5)	55.7 (65.6)
SCS	SCS-N1	The Lodge, Rock Hill, Hints	Free-field	54.3 (56.3)	53.1 (57.5)	52.4 (54.5)	49.4 (53.8)	48.5 (58.3)	49.5 (51.6)	52.8 (55.0)	52.6 (54.5)	50.8 (55.3)	45.7 (55.2)	50.1 (57.2)	48.5 (55.5)
WCC	WCC-N2	Ellfield House, Lichfield Road, Whittington,	Free-field	50.4 (53.2)	48.9 (56.4)	47.6 (52.9)	45.5 (50.3)	45.2 (53.2)	47.9 (50.2)	47.5 (52.0)	47.2 (52.4)	45.9 (52.5)	42.7 (49.3)	47.7 (52.9)	45.3 (51.5)
	WCC-N3	Whittington Hill Farm, Darnford Lane	Free-field	50.4 (53.2)	48.9 (56.4)	47.6 (52.9)	45.5 (50.3)	45.2 (53.2)	47.9 (50.2)	47.5 (52.0)	47.2 (52.4)	45.9 (52.5)	42.7 (49.3)	47.7 (52.9)	45.3 (51.5)
SRO	SRO-N1	Sutton Road, Drayton Bassett	Free-field	51.2 (54.6)	50.1 (55.9)	50.2 (54.4)	48.0 (51.7)	45.3 (52.7)	46.6 (49.0)	48.9 (51.2)	48.3 (53.3)	49.2 (54.7)	43.5 (48.2)	48.7 (51.5)	44.9 (52.8)
	SRO-N3	White House Farm, Bangley Lane	Free-field	46.9 (50.8)	46.4 (54.5)	45.4 (55.3)	43.3 (46.9)	41.6 (48.7)	44.2 (45.4)	45.6 (49.9)	44.5 (53.1)	44.7 (54.7)	38.0 (44.1)	44.2 (49.2)	40.8 (47.9)
SSL	SSL-N1	Ash Tree Lane, Streethay,	Free-field	56.5 (61.5)	55.7 (62.5)	54.8 (61.3)	54.4 (59.5)	52.6 (60.3)	50.4 (56.0)	52.6 (56.6)	52.4 (55.9)	51.8 (56.5)	47.3 (54.5)	53.1 (59.7)	52.0 (60.2)

2.1.2 Table 4: Summary of Measured PPV Data over the Monitoring Period presents a summary of the measured vibration levels at each monitoring location over the reporting period. The highest PPV measured during the monitoring along any axis is presented in the table.

Table 4: Summary of Measured PPV Data over the Monitoring Period

Worksite Reference	Measurement Reference	Monitor Address	Highest PPV measured in any axis, mm/s
FEW	FEW-V3	Wood End Farm, Wood End Lane	3.71 (x-axis)
SRO	SRO-V2	Drayton Lane End Farm, Sutton Road, Drayton Bassett	2.91 (X-axis)
	SRO-V3	(east of) White House Farm, Bangley Lane, Tamworth	0.94 (X-axis)

2.1.3 Appendix C presents graphs of the noise and vibration monitoring data over the month for each of the measurement locations. Noise data presented consists of the hourly LAeq values and, where relevant, the LAeq,T values (where the time period T has been taken to be the averaging period as specified in Table 1 of HS2 Information Paper E23). Vibration data presented consist of hourly PPV values. The full data set for the monitoring equipment can be found at the following location: https://data.gov.uk/dataset/24542ae7-dd44-444f-b259-871c4cc43b5e/environmental-monitoring-data.

2.2 Exceedances of the LOAEL and SOAEL

2.2.1 The lowest observed adverse effect level (LOAEL) is defined in the Planning Practice Guidance – Noise (PPG) as the level above which "noise starts to cause small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life".

2.2.2 The significant observed adverse effect level (SOAEL) is defined in the 'Planning Practice Guidance – Noise' as the level above which "noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area."

2.2.3 HS2 Phase One Information Paper E23: Control of Construction Noise and Vibration sets out the LOAEL and SOAELs for construction noise.

2.2.4 Where construction noise levels exceed the SOAEL, relevant periods will be identified, and summary statistics provided in order to evaluate ongoing qualification for noise insulation and temporary rehousing.

2.2.5 Table 5 presents a summary of recorded exceedances of the LOAEL and SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of LOAEL and SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
A38SSRR	A38SSRR-N1	Thompson Way, Streethay	Weekday	0700 - 0800	1	No exceedances
				0800 - 1800	1	No exceedances
				1800 - 1900	2	No exceedances
				1900 - 2200	13	No exceedances
			Saturday	0800 - 1300	1	No exceedances
			Sunday	0700 - 2200	4	No exceedances
			Night	2200 - 0700	24	4
FEW	FEW-N1	Wood End Farm, Wood End Lane	All periods	No exceedances	No exceedances	All periods
N23	N23-N1	21 Roman Road	All periods	No exceedances	No exceedances	All periods
SCRS	SCRS-N1	Manor House, Burton Road, Streethay	Weekday	1900 - 2200	1	No exceedances
	SCRS-N2	Kings Orchard Marina, Broad Ln	Weekday	1900 - 2200	1	No exceedances
			Night	2200 - 0700	22	No exceedances
	SCRS-N4	Streethay Farm, A5127, Streethay	Weekday	1900 - 2200	3	2
			Sunday	0700 - 2200	2	No exceedances
			Night	2200 - 0700	28	6
SCS	SCS-N1	Ash Tree Lane, Hill Farm, Fradley and Streethay	All days	All periods	No exceedances	No exceedances
SRO	SRO-N1	Sutton Road, Drayton Bassett, Mile Oak	All days	All periods	No exceedances	No exceedances
	SRO-N3	White House Farm, Bangley Lane, Tamworth	All days	All periods	No exceedances	No exceedances
SSL	SSL-N1	Ash Tree Lane, Streethay, Lichfield	All days	All periods	No exceedances	No exceedances
WCC	WCC-N2	Ellfield House, Whittington Common Road	All days	All periods	No exceedances	No exceedances
	WCC-N3	Whittington Hill Farm,Darnford Lane, Whittington	All days	All periods	No exceedances	No exceedances

2.2.6 There were exceedances of the LOAEL, during March 2026, due to HS2 construction works.

2.2.7 For the purpose of assessing eligibility for noise insulation or temporary rehousing, multiple exceedances of the SOAEL in a 24-hour period would be counted as a single exceedance during that day. Over the reporting period, the overall number of SOAEL exceedances at each measurement location is shown in Table 6 and may be lower than the total sum of individual exceedances reported in Table 5 for each location.

Table 6: Summary of Total Exceedances of SOAEL

Worksite Reference	Measurement Reference	Monitor Address	Total of SOAEL exceedances in the month
A38SSRR	A38SSRR-N1	Thompson Way, Streethay	4
SCRS	SCRS-N4	Streethay Farm, Lichfield	7

2.3 Exceedances of Trigger Level

2.3.1 Table 7 provides a summary of exceedances of the S61 trigger noise levels determined to be due to HS2 related construction noise measured during the reporting period, along with the findings of any investigation.

Table 7: Summary of Exceedances of Trigger Levels

Complaint Reference Number (if applicable)	Worksite Reference	Date and Time Period	Identified Source	Results of Investigation (including noise monitoring results)	Actions Taken
-	-	-	-	-	-

2.4 Complaints

2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
-	-	-	-	-

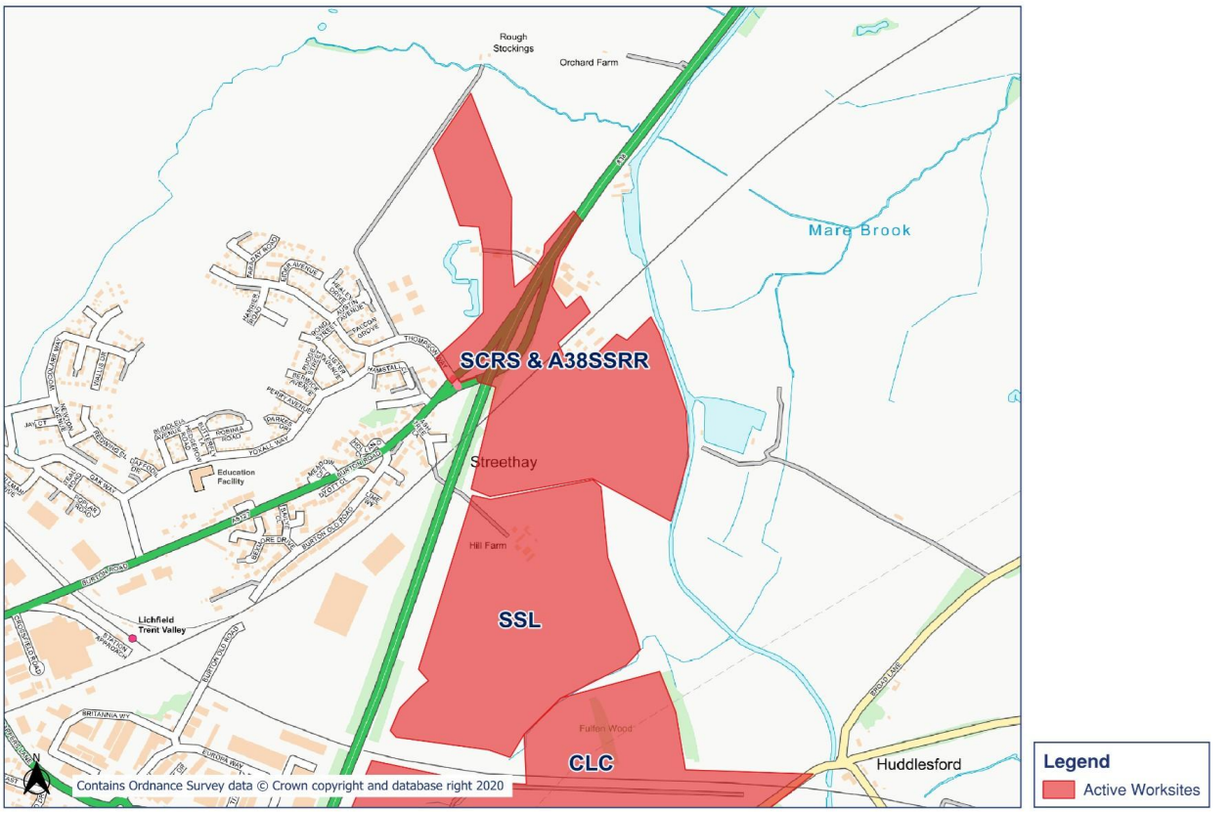
Appendix A Site Locations

HS2 Worksite Identification Plan - Overview

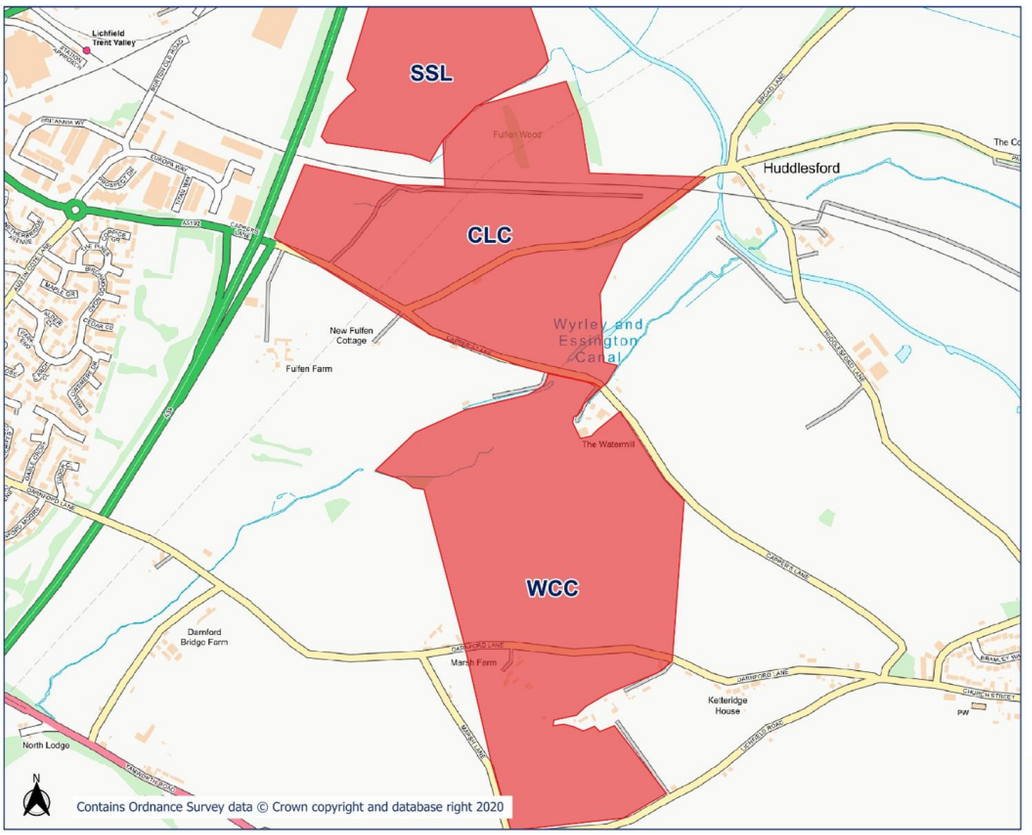
HS2

Worksite Identification Plan - 1

Worksite Identification Plan - 2



Worksite Identification Plan - 3



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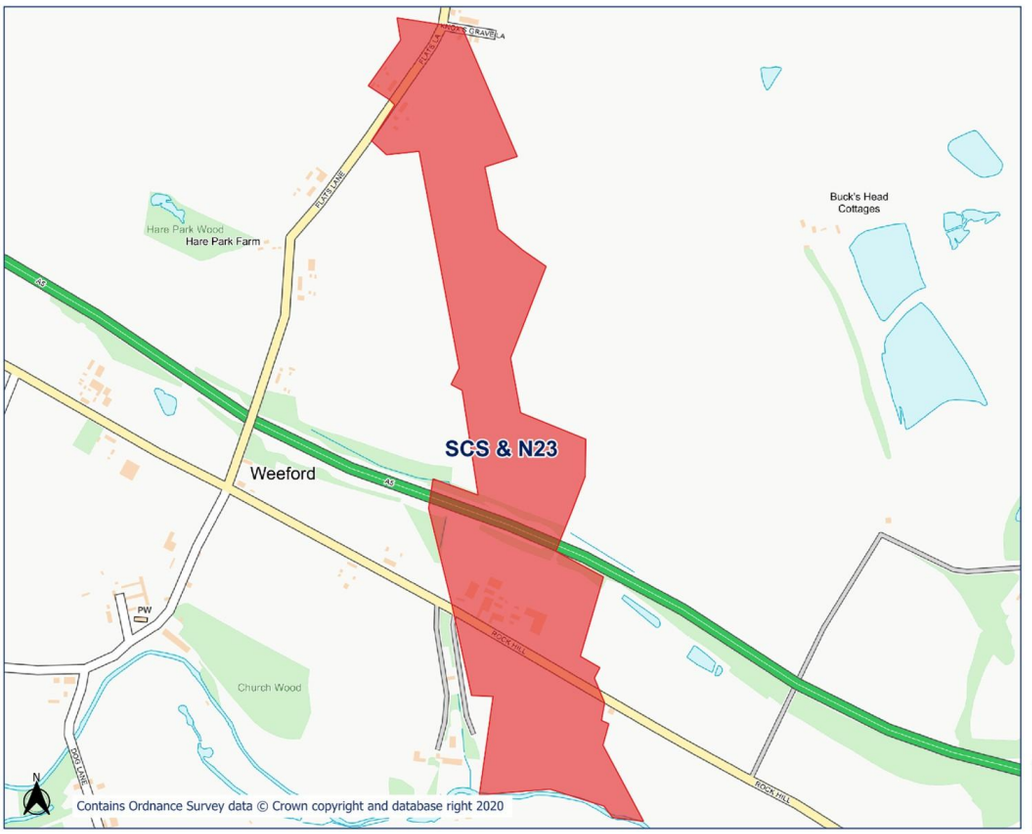
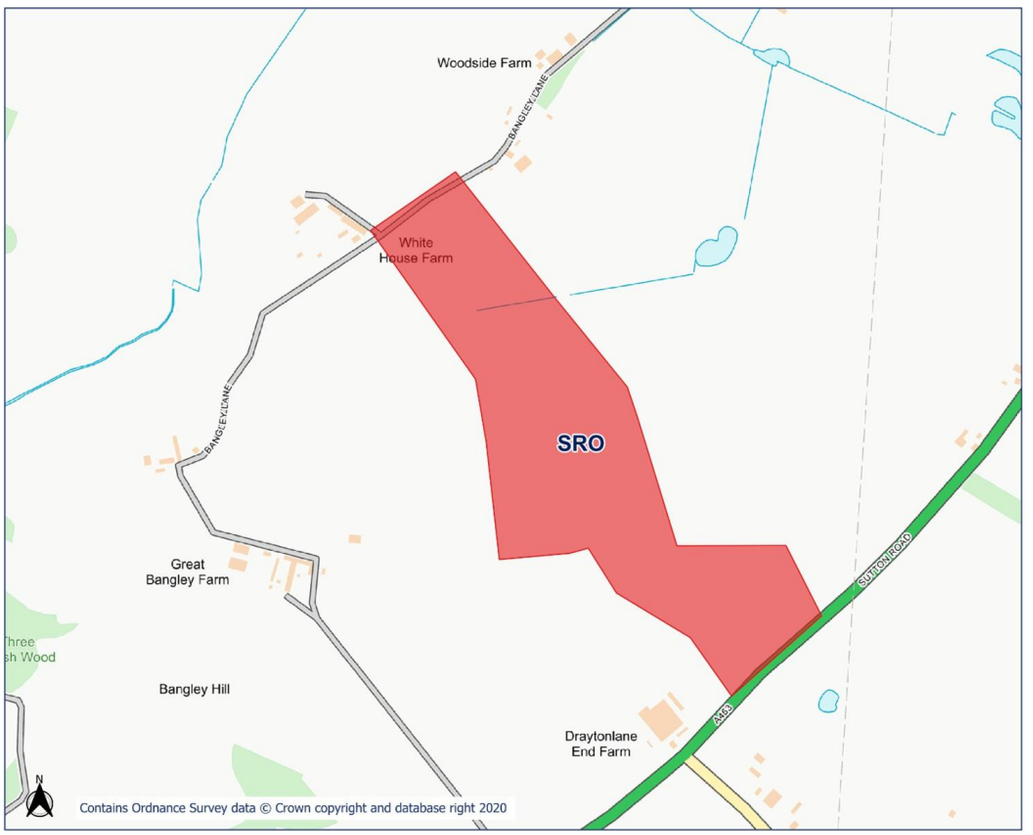
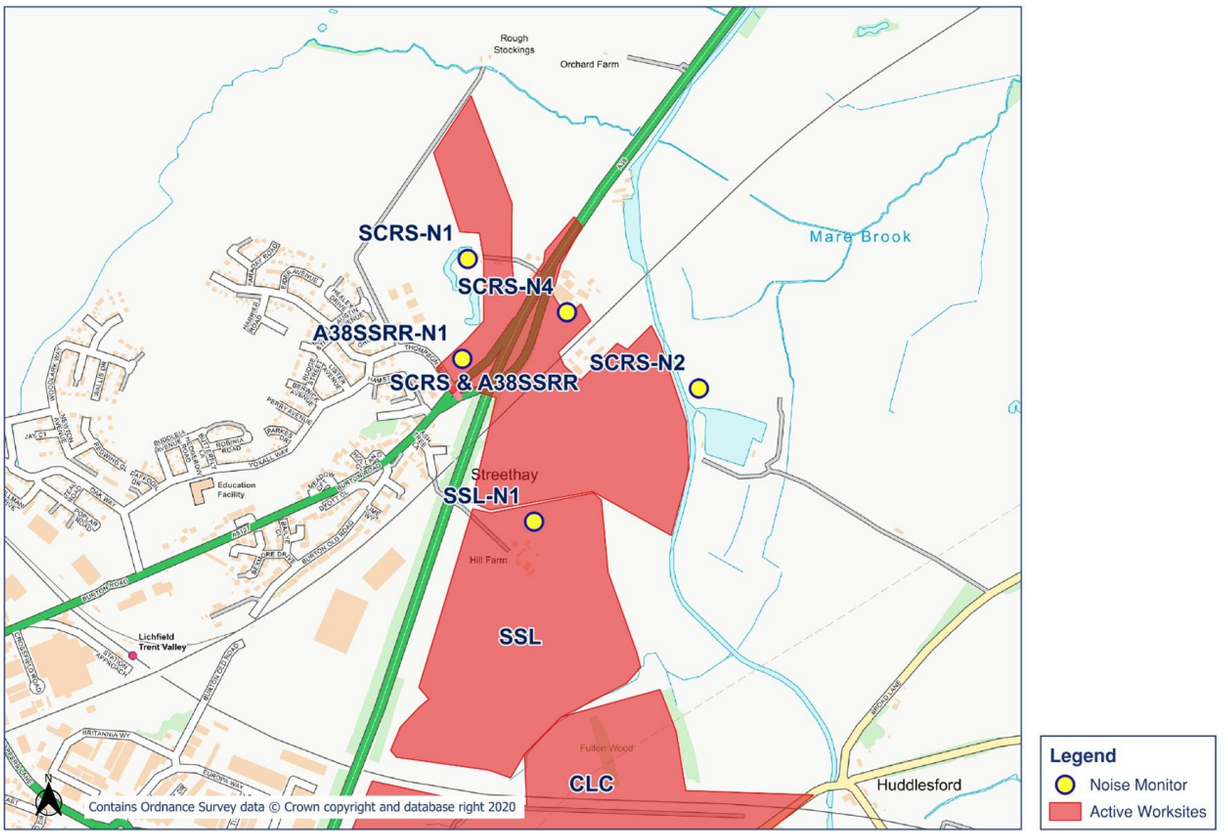


Worksite Identification Plan - 5

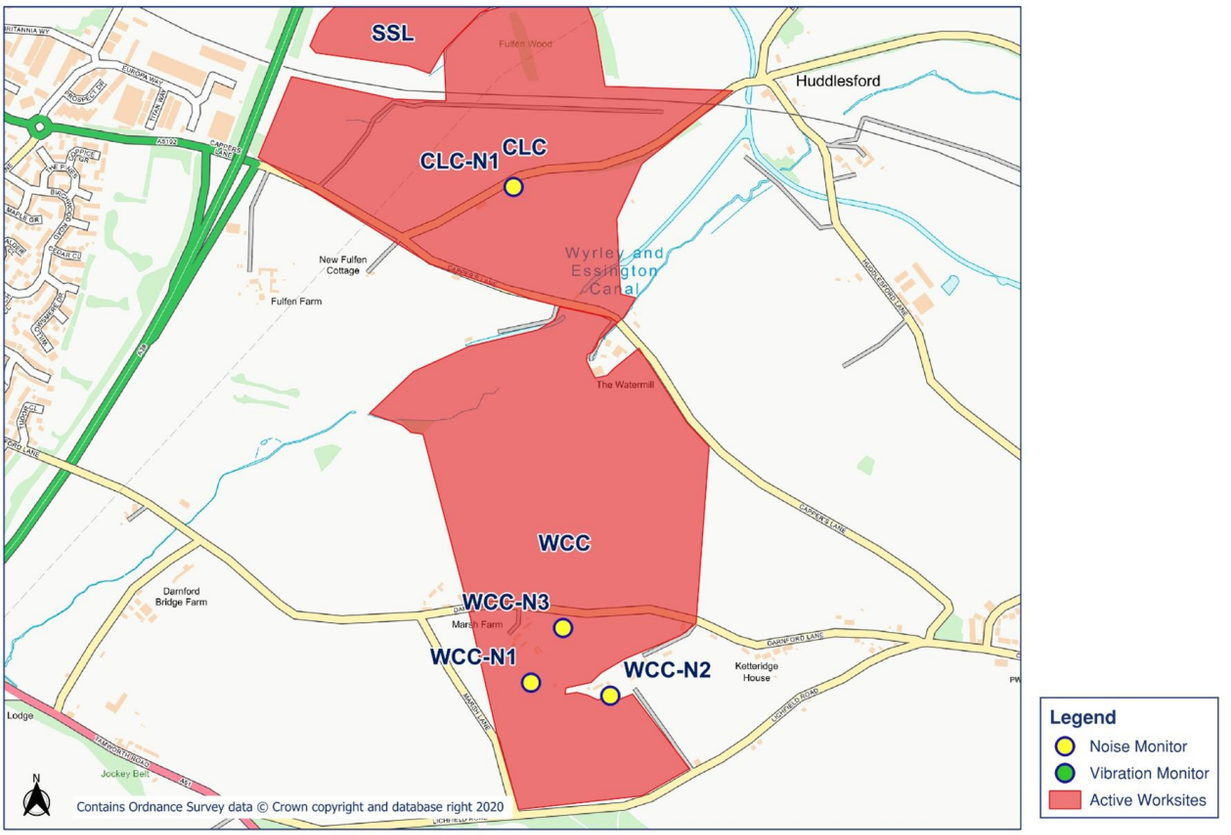


Appendix B Monitoring Locations

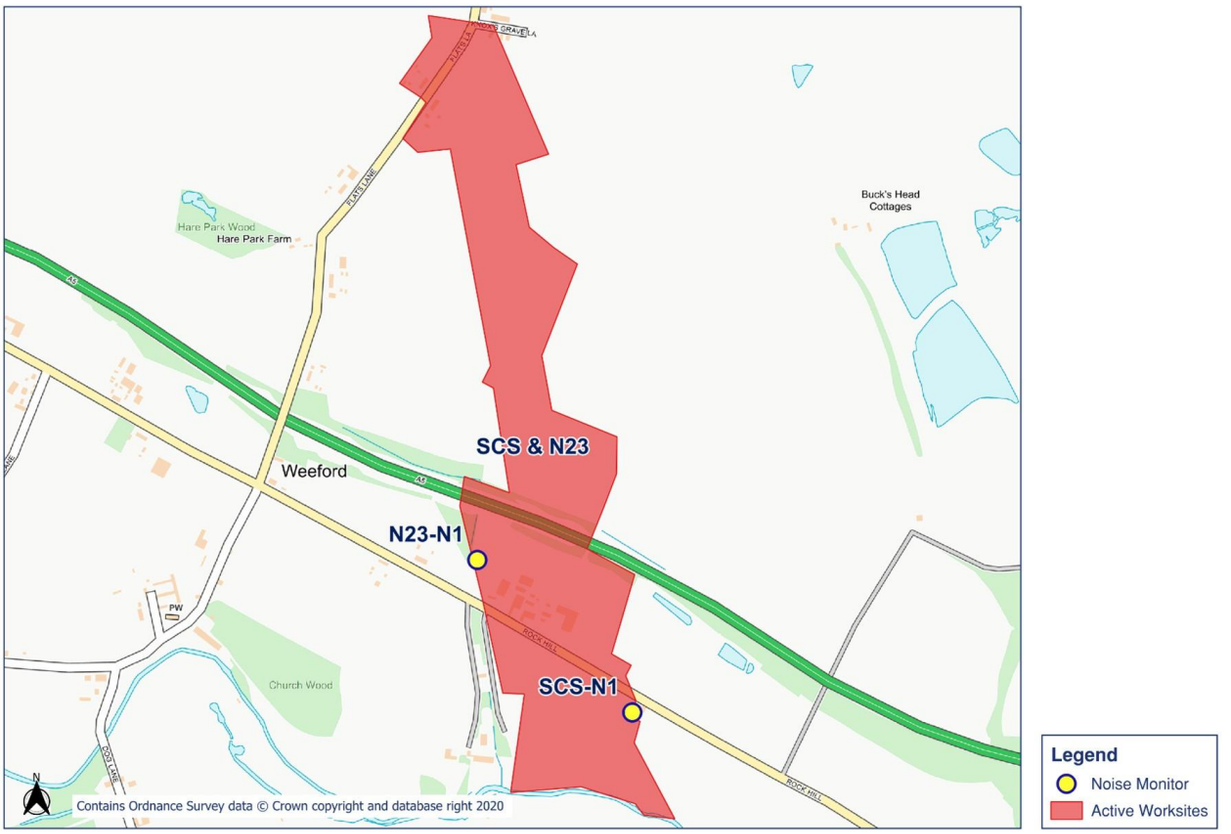
HS2 **Noise and Vibration Monitoring Plan - 1**


Rough Stockings
Orchard Farm
Mare Brook
SCRS-N1
SCRS-N4
A38SSRR-N1
SCRS & A38SSRR
SCRS-N2
Streethay
SSL-N1
Hill Farm
SSL
CLC
Fullen Wood
Huddlesford
Lichfield Trent Valley
Education Facility
Contains Ordnance Survey data © Crown copyright and database right 2020
Legend
Noise Monitor
Active Worksites

Noise and Vibration Monitoring Plan - 3



Noise and Vibration Monitoring Plan - 4



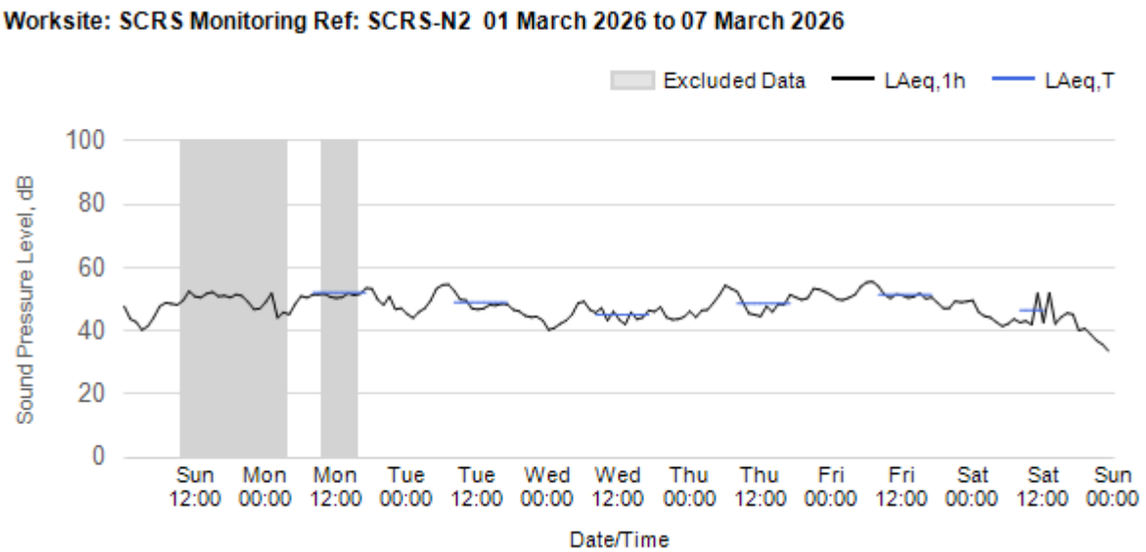
Noise and Vibration Monitoring Plan - 5

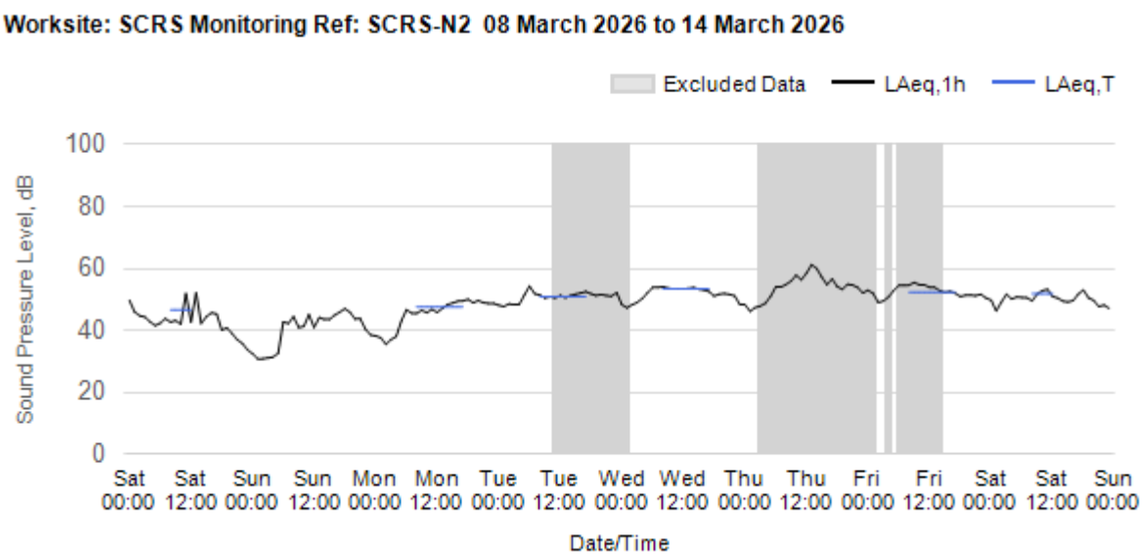
Appendix C Data

Noise

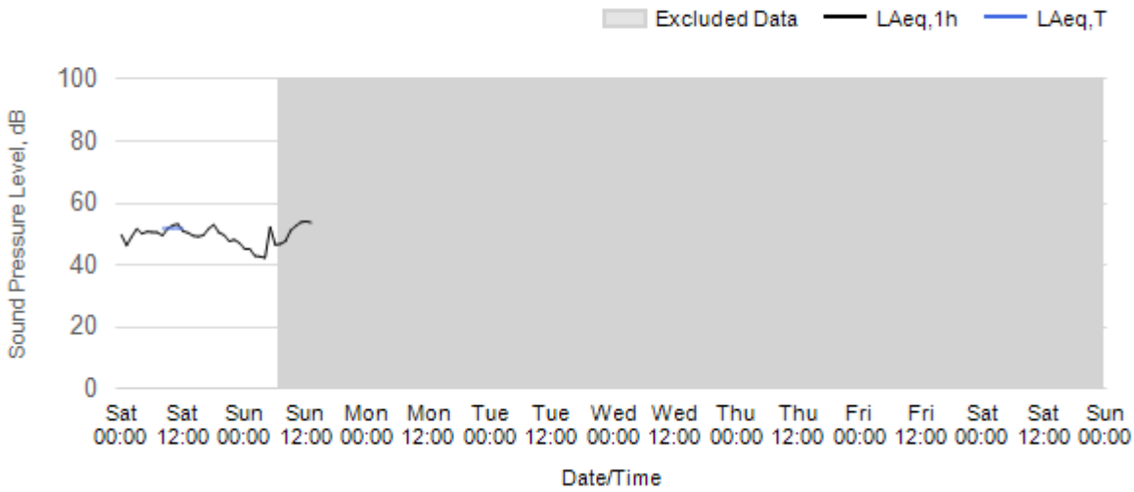
The following graphs show the hourly measured ambient noise level LAeq,1h and, where relevant, the averaged noise level LAeq,T values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part of the period, which are not representative of HS2 construction works, have been greyed out and excluded from the calculation of the LAeq,T values in in Table 3 of the main report.

Worksite: SCRS - Monitoring Ref: SCRS-N2

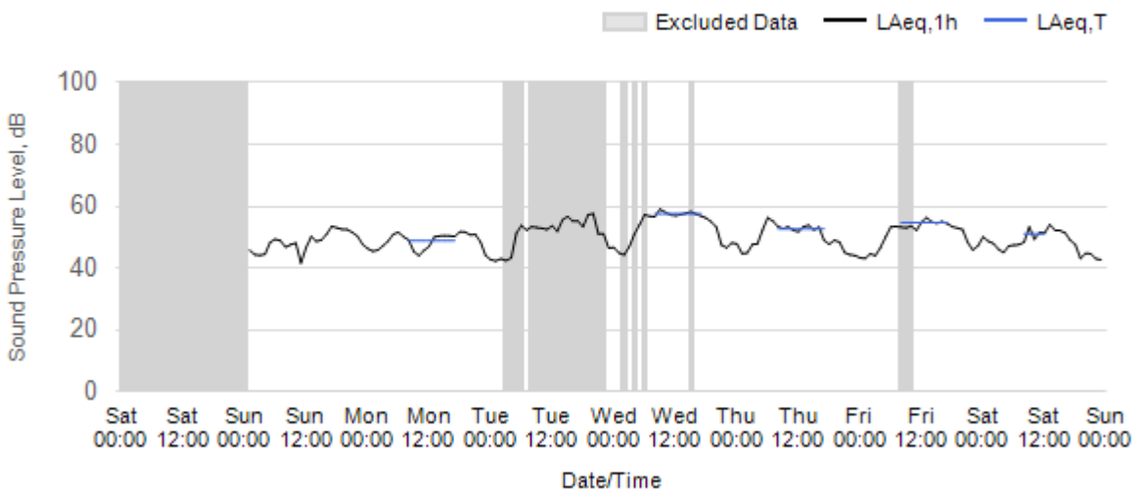




Worksite: SCRS Monitoring Ref: SCRS-N2 15 March 2026 to 21 March 2026



Worksite: SCRS Monitoring Ref: SCRS-N2 22 March 2026 to 28 March 2026



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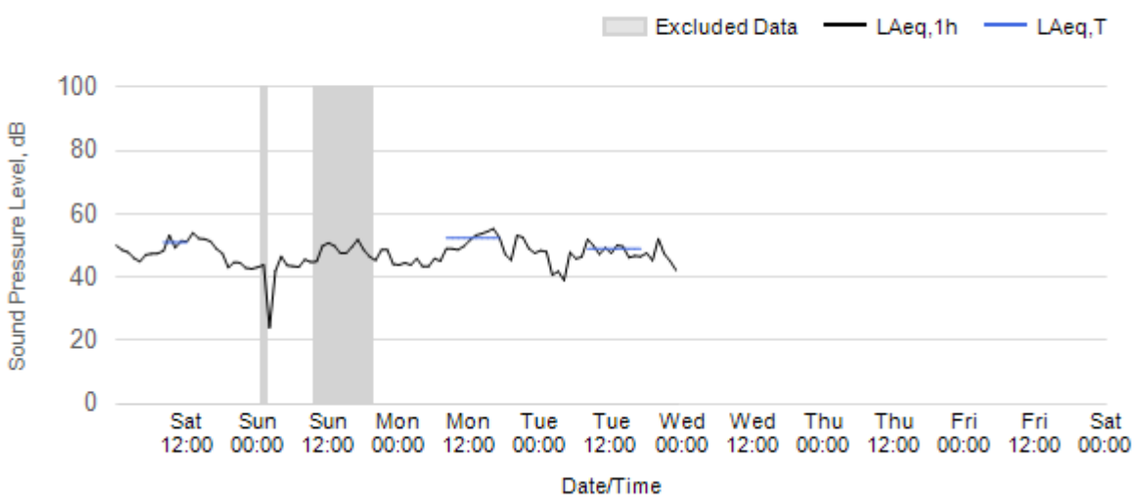

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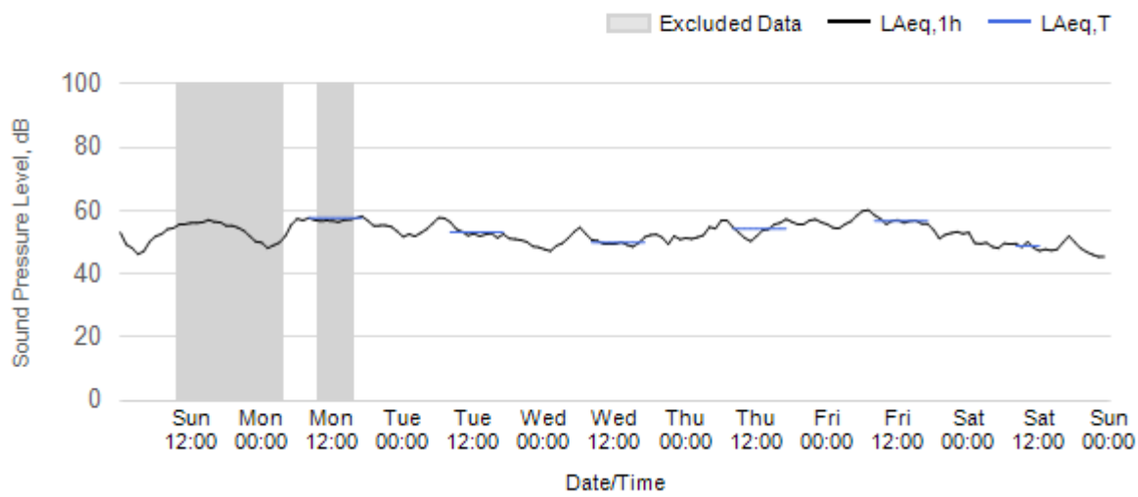
Worksite: SSL Monitoring Ref: SSL-N1 01 March 2026 to 07 March 2026



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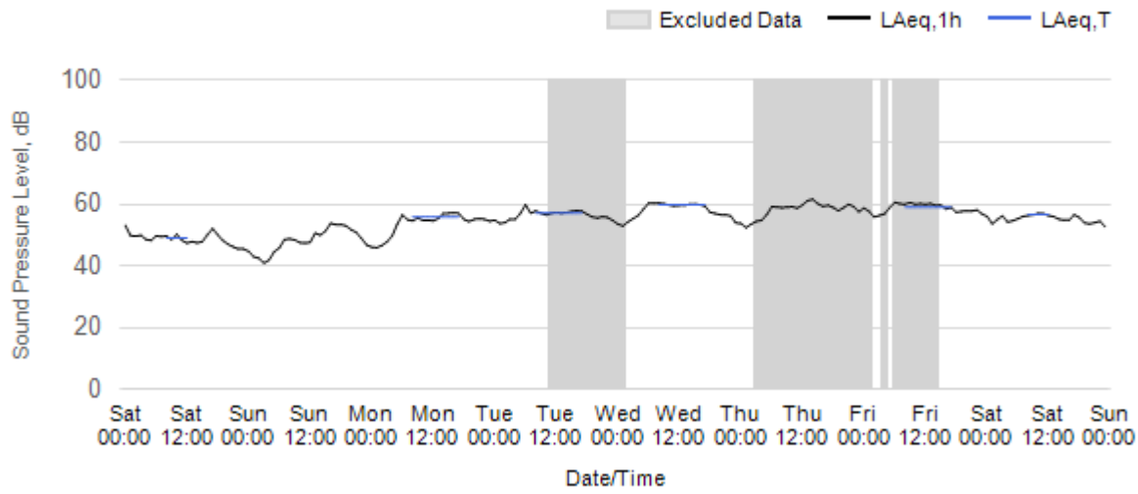

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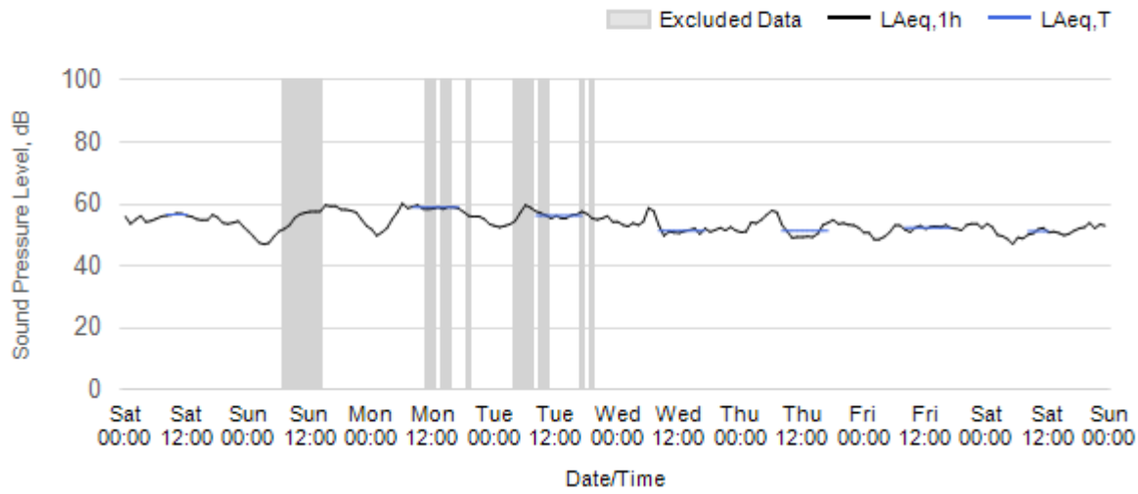

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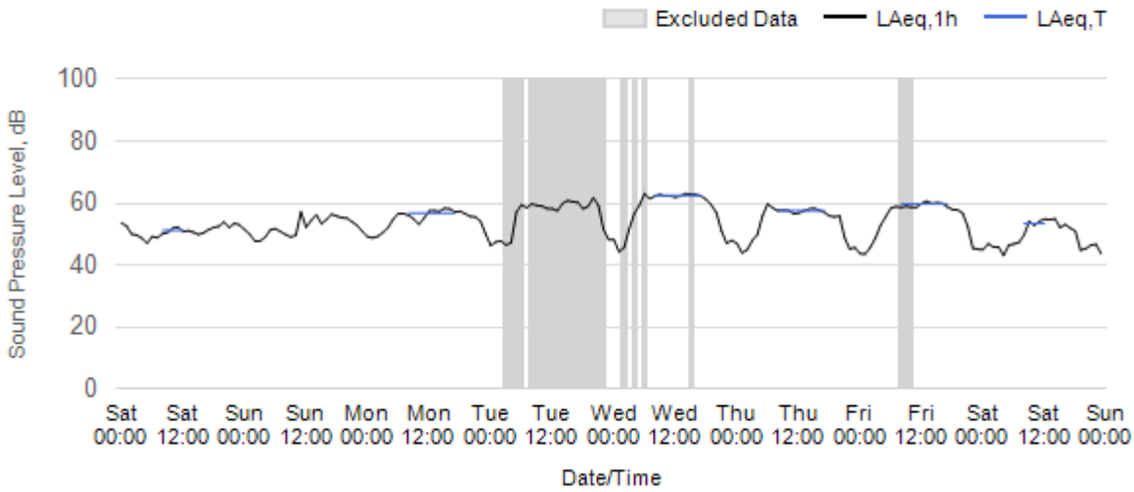

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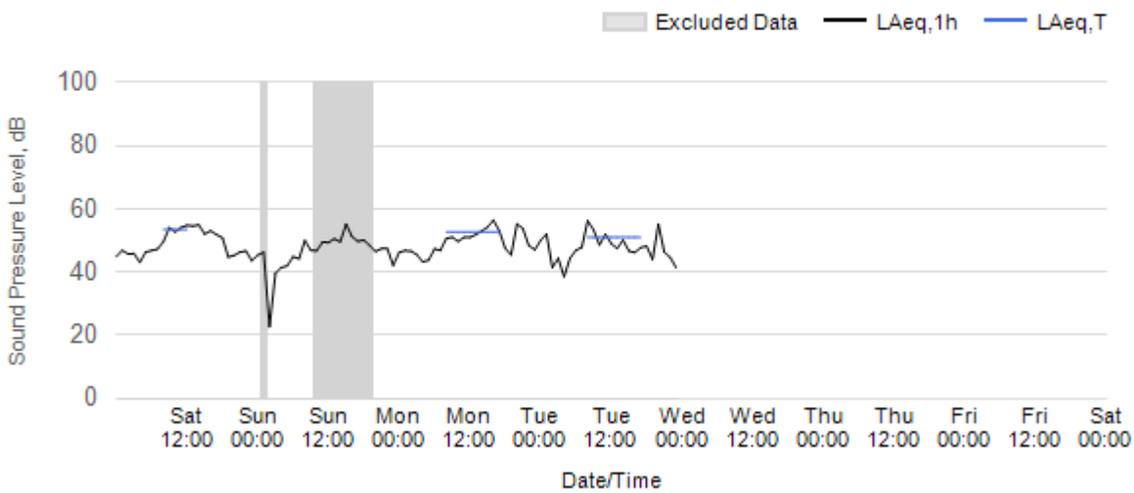

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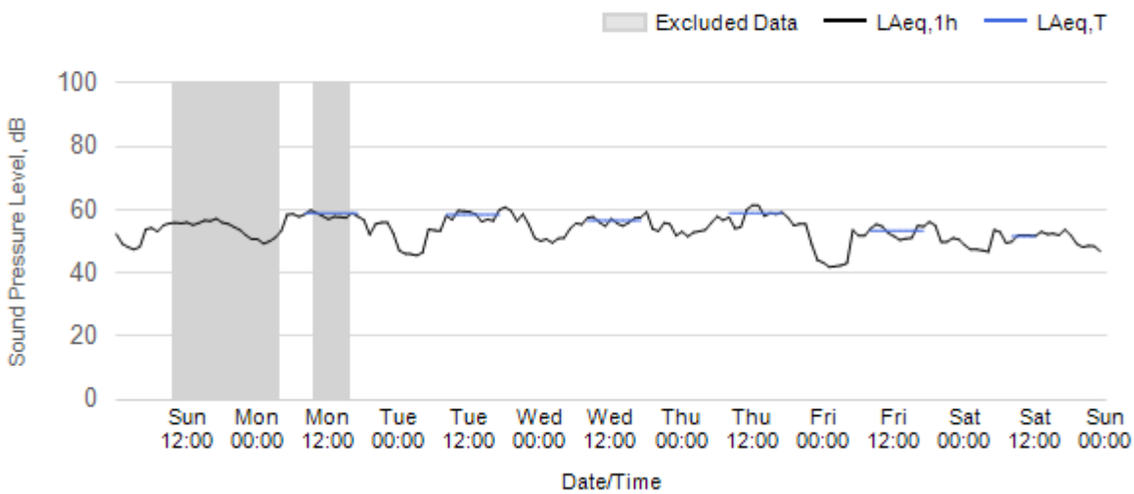

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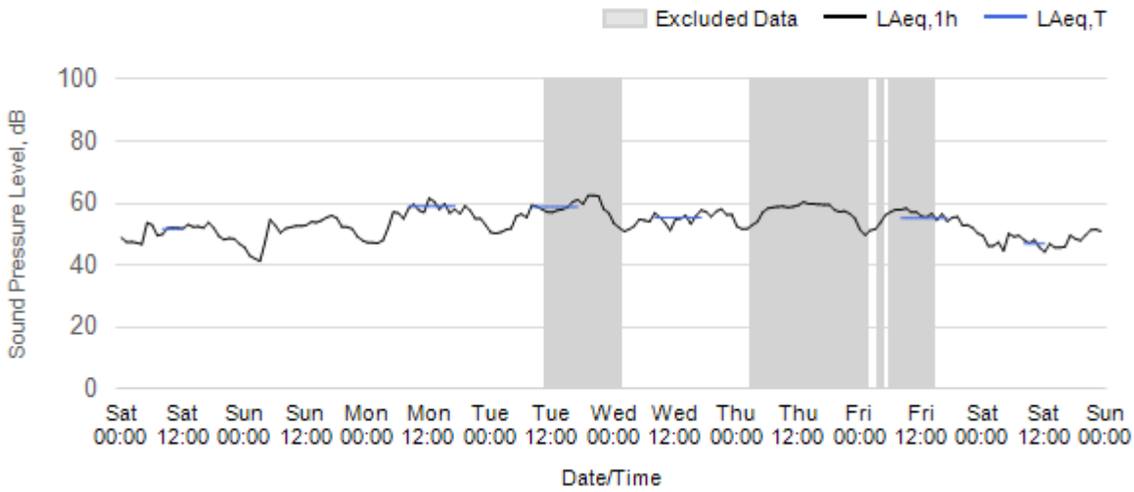

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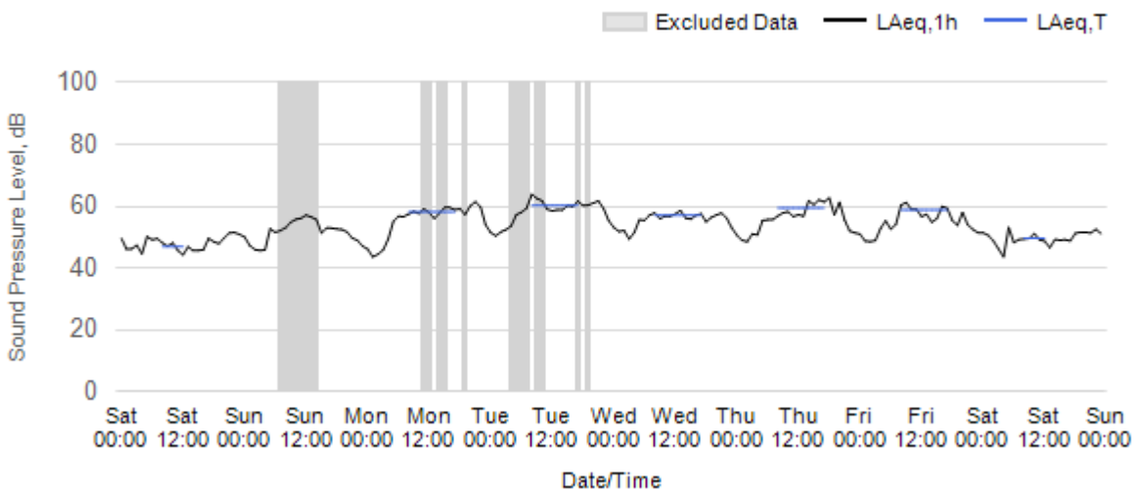

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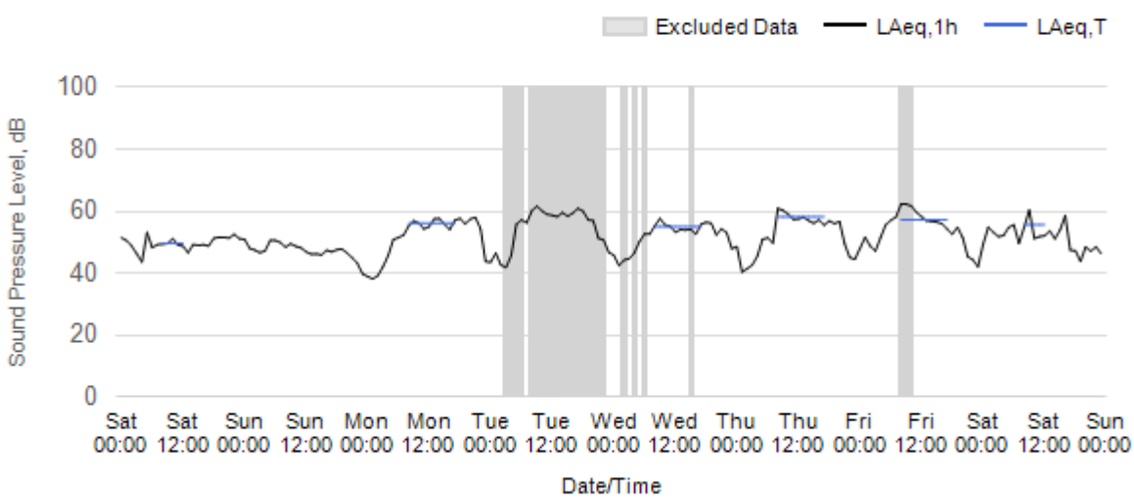

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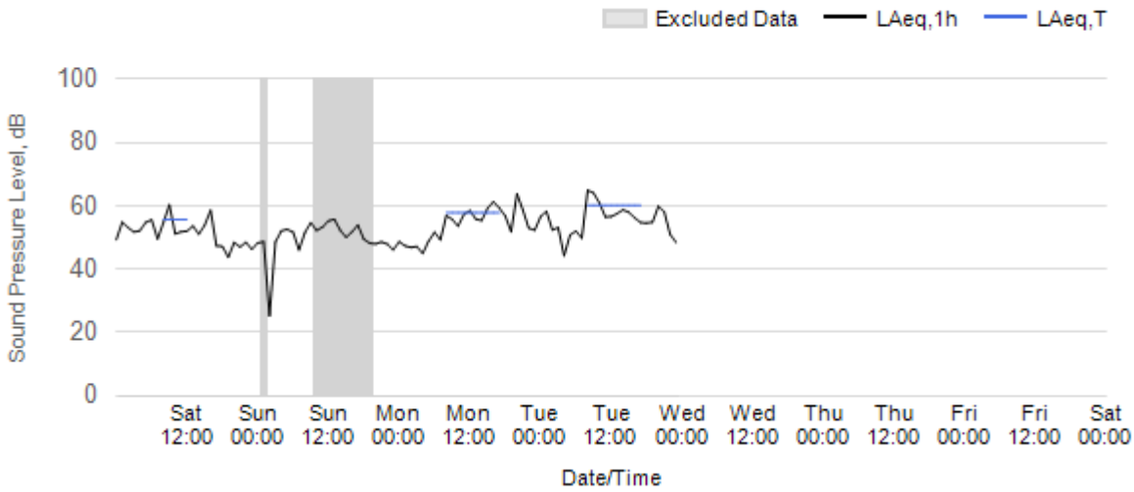

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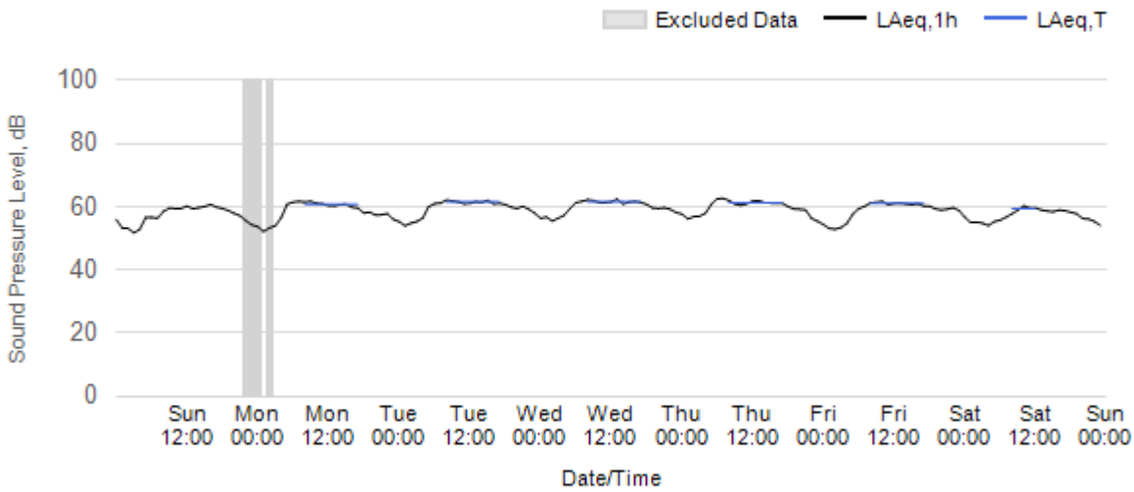

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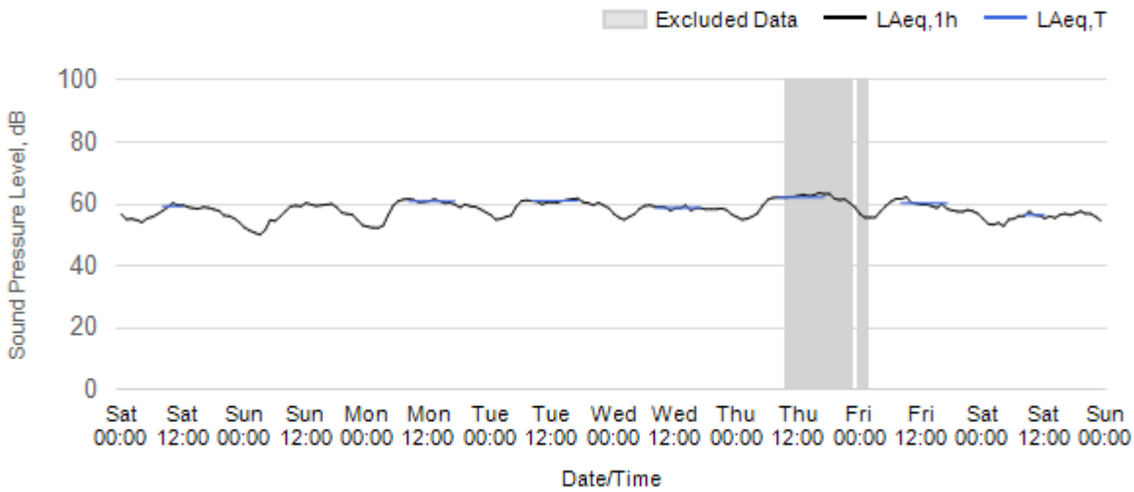

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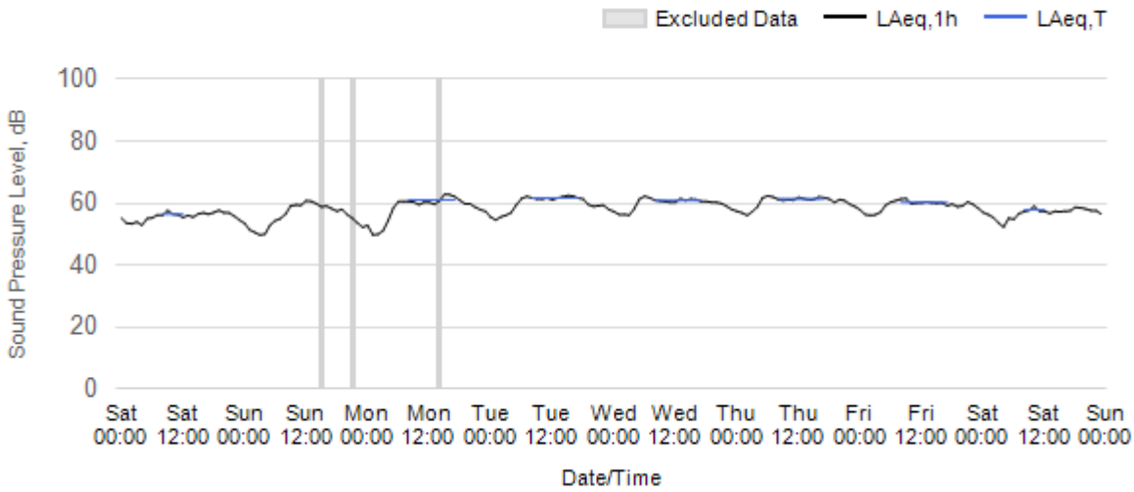

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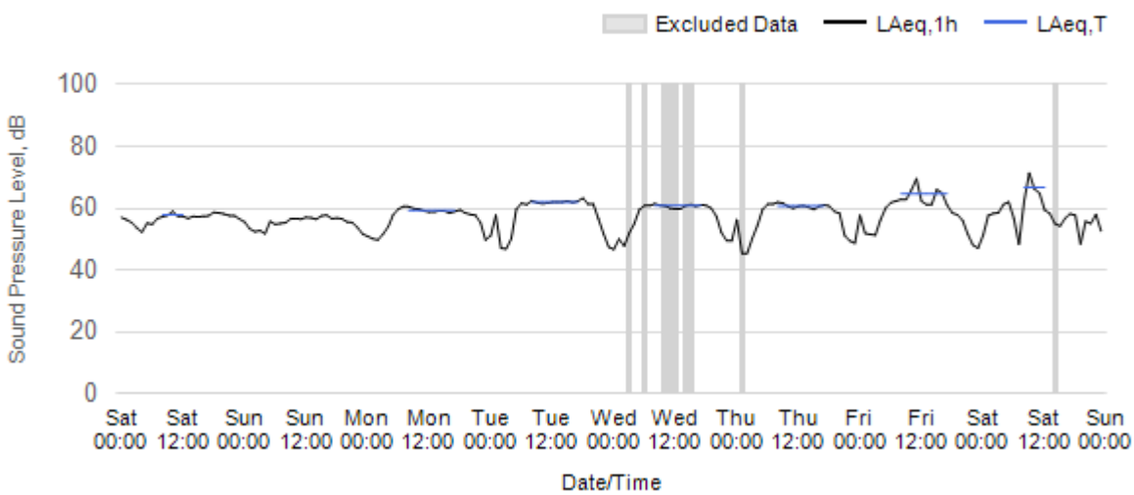

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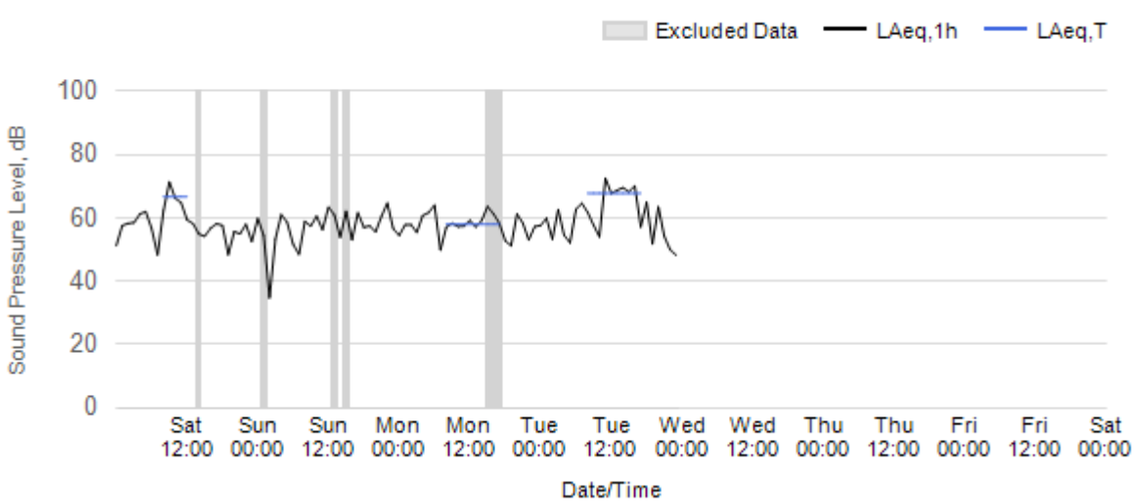

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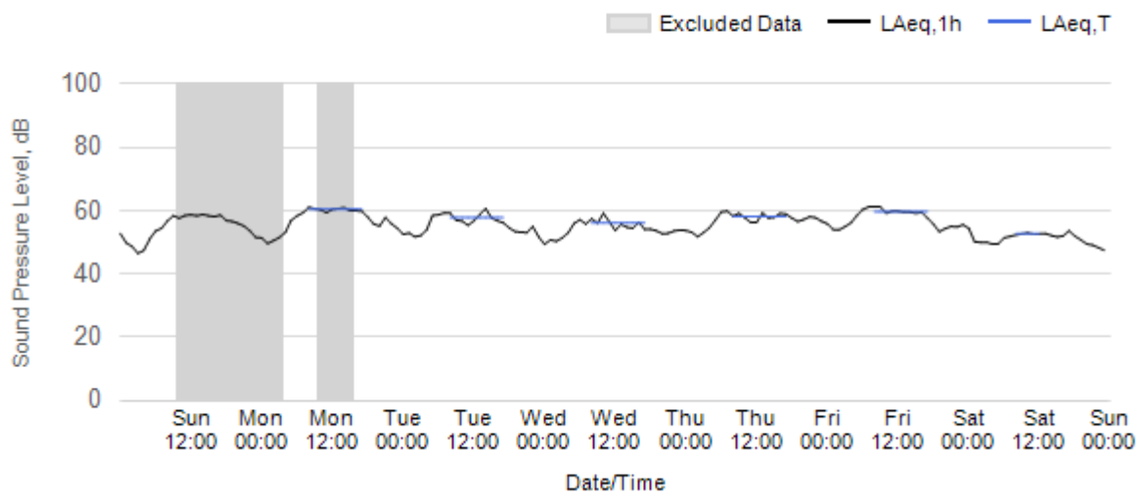

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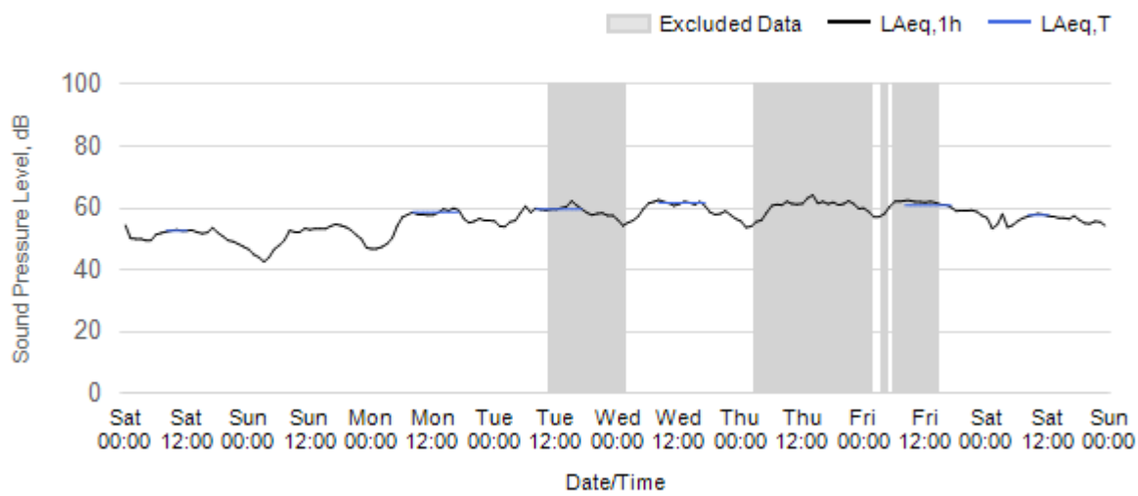

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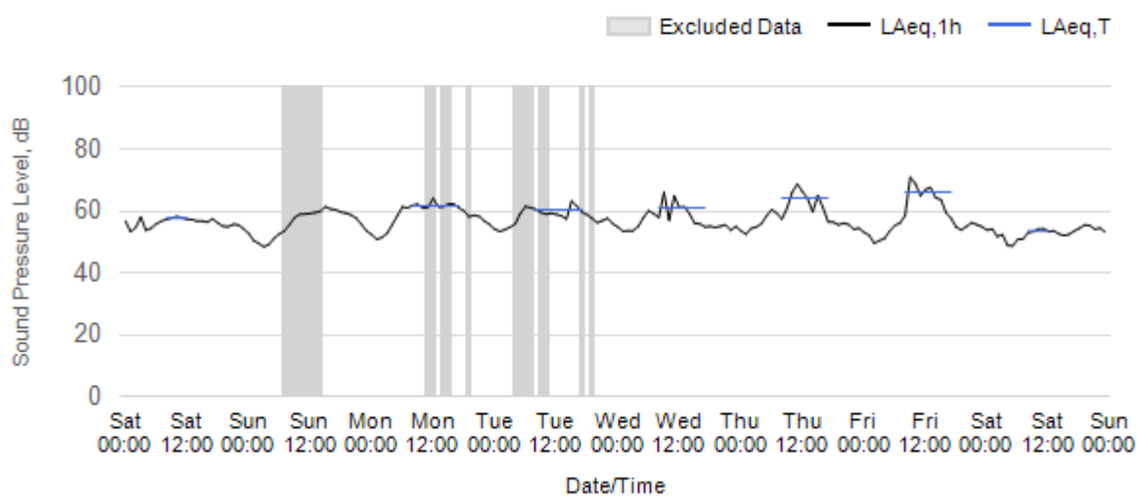

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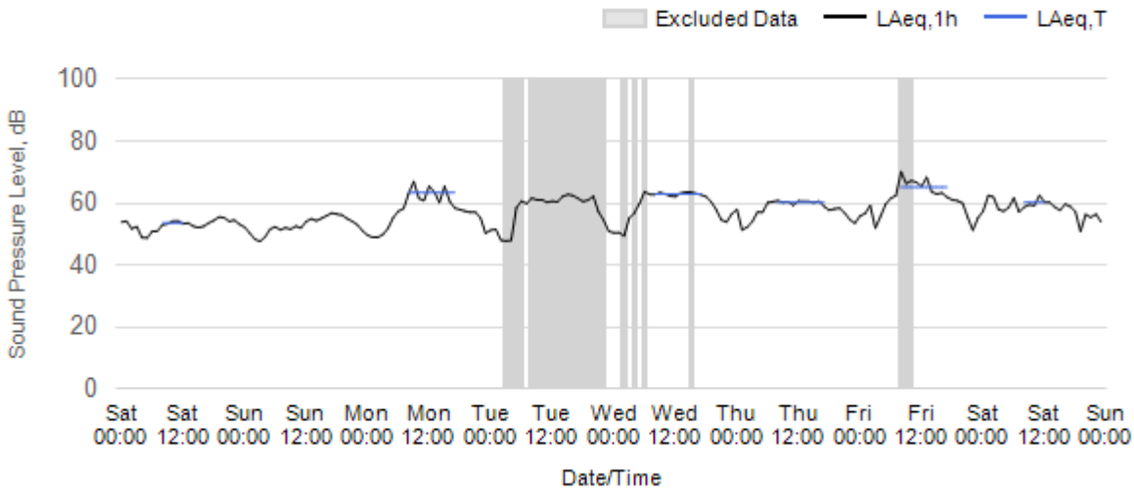

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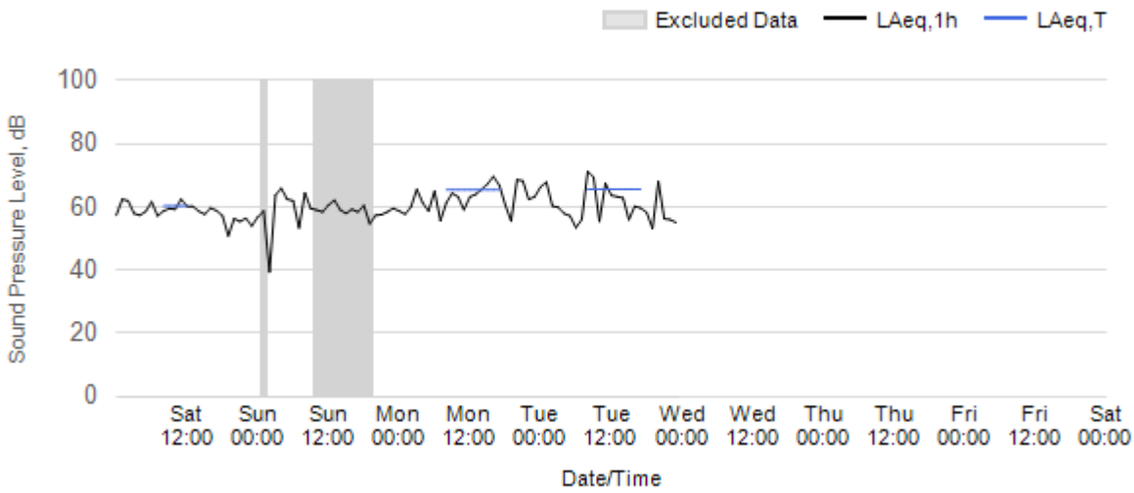

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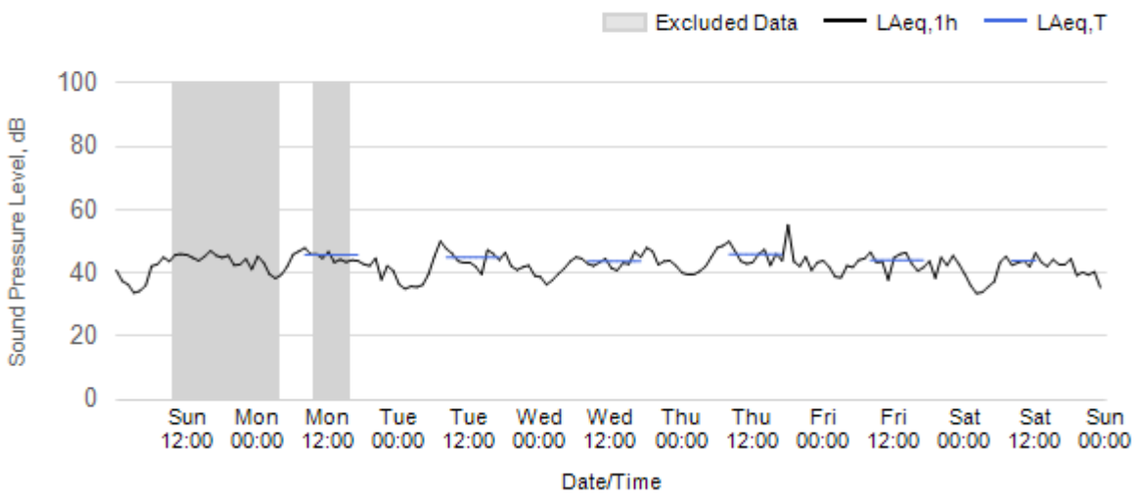

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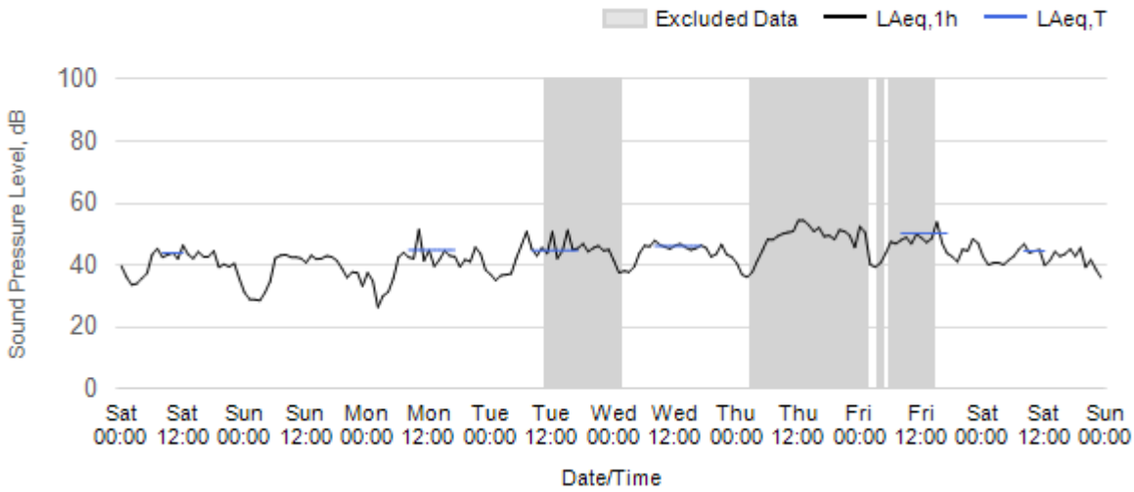

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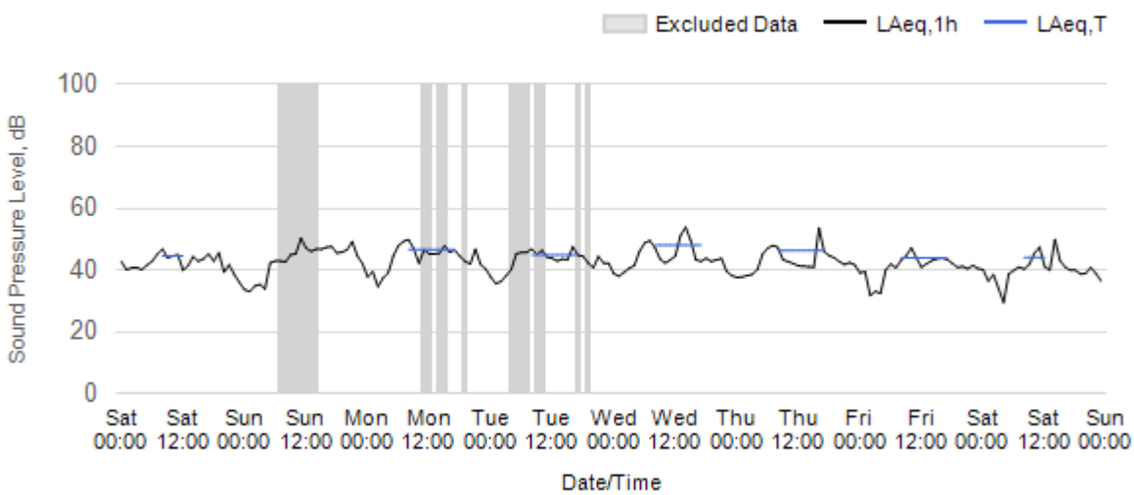

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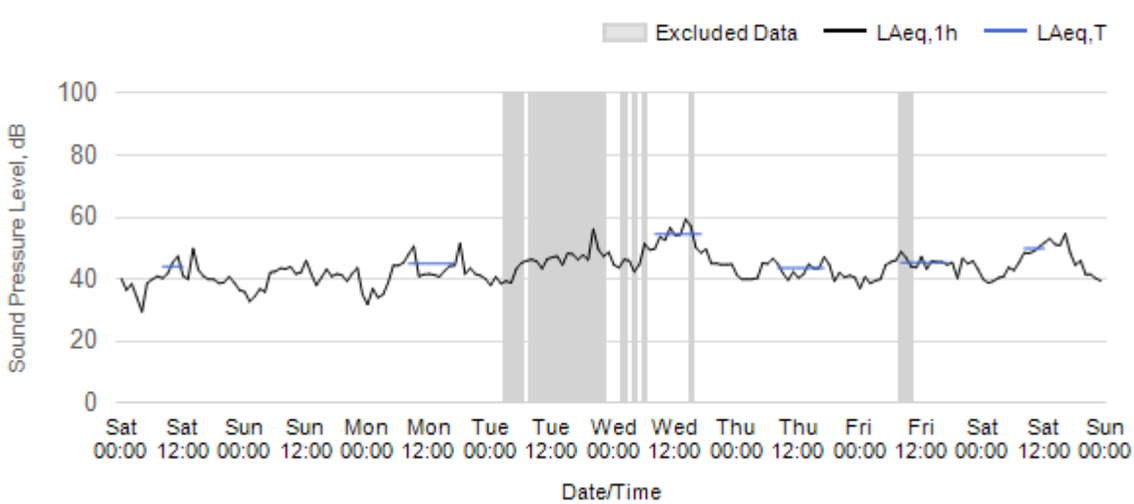

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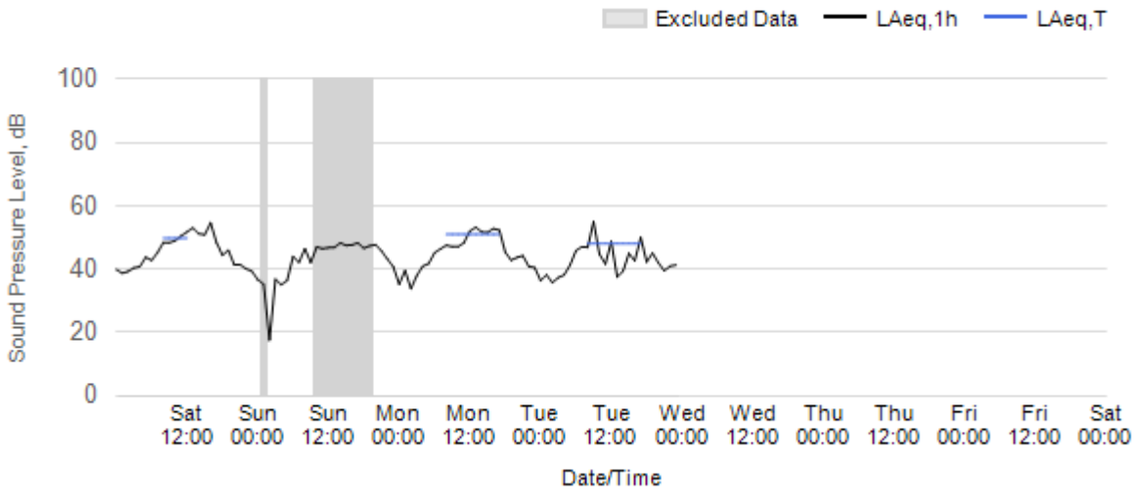

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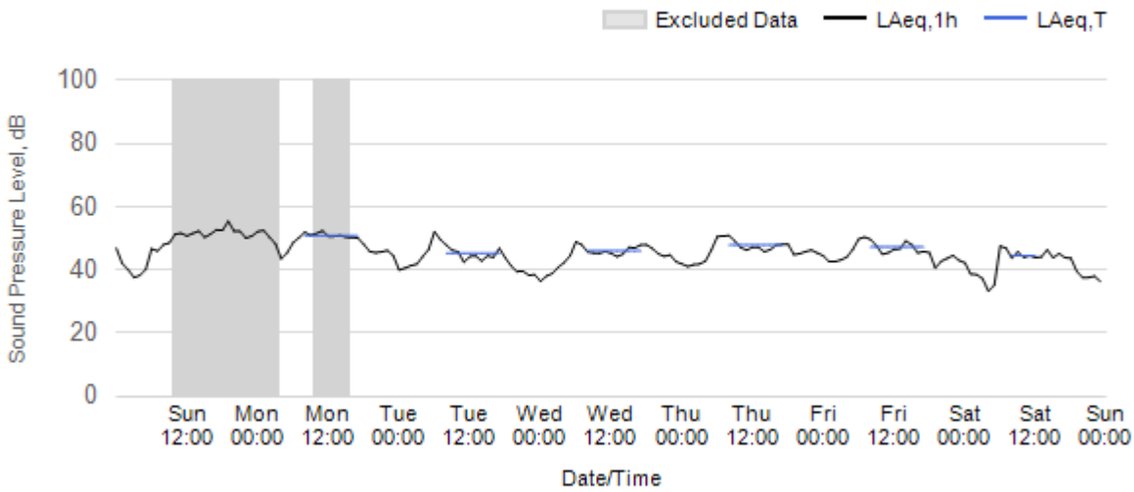

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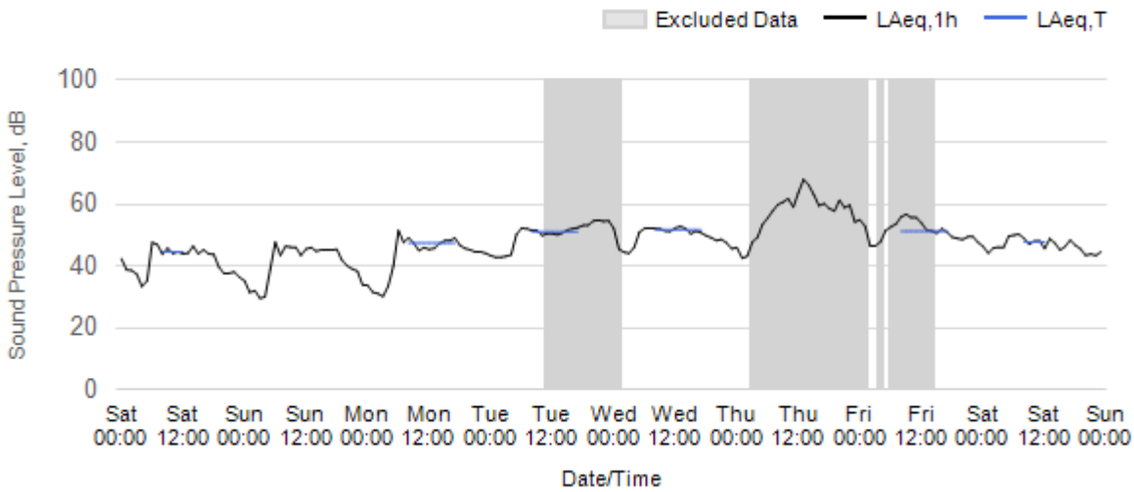

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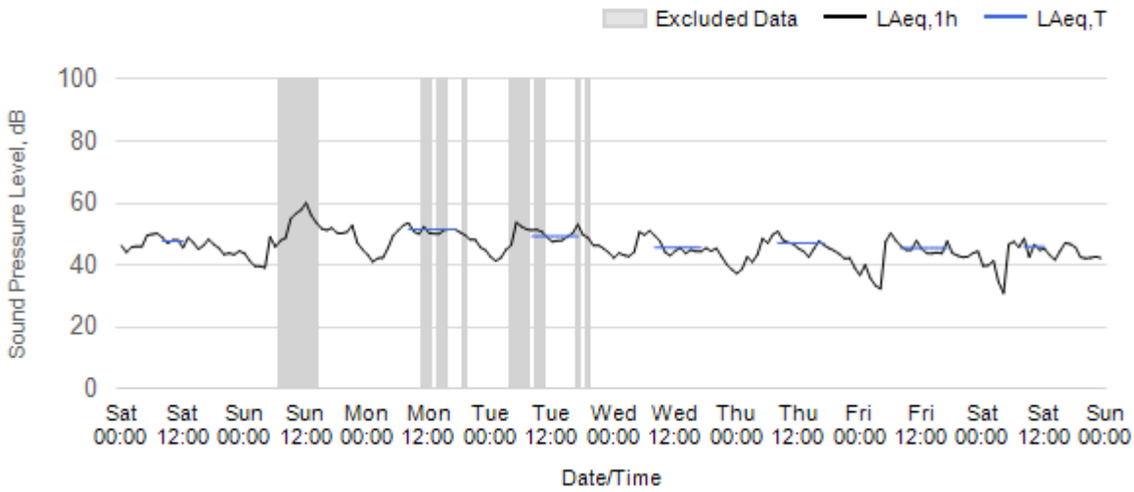

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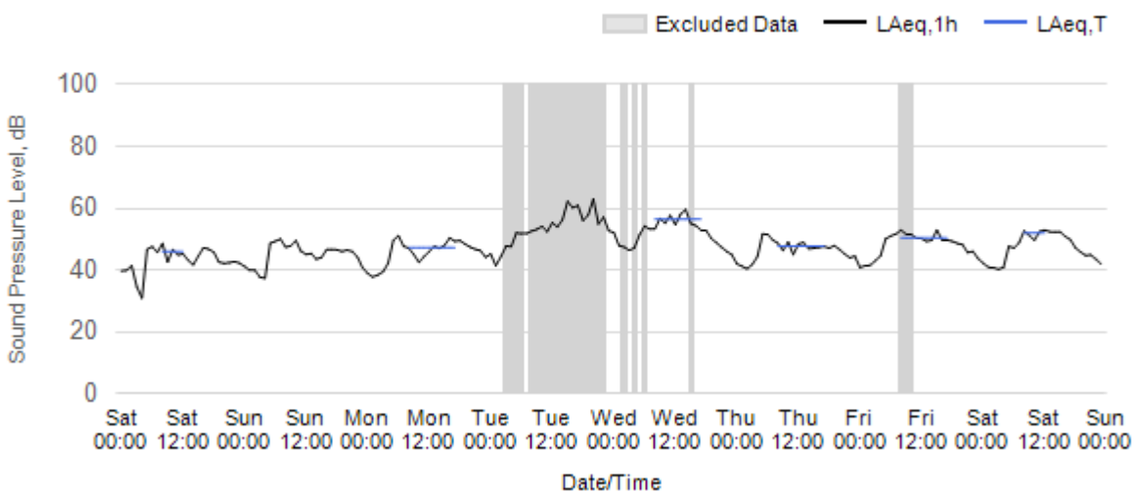

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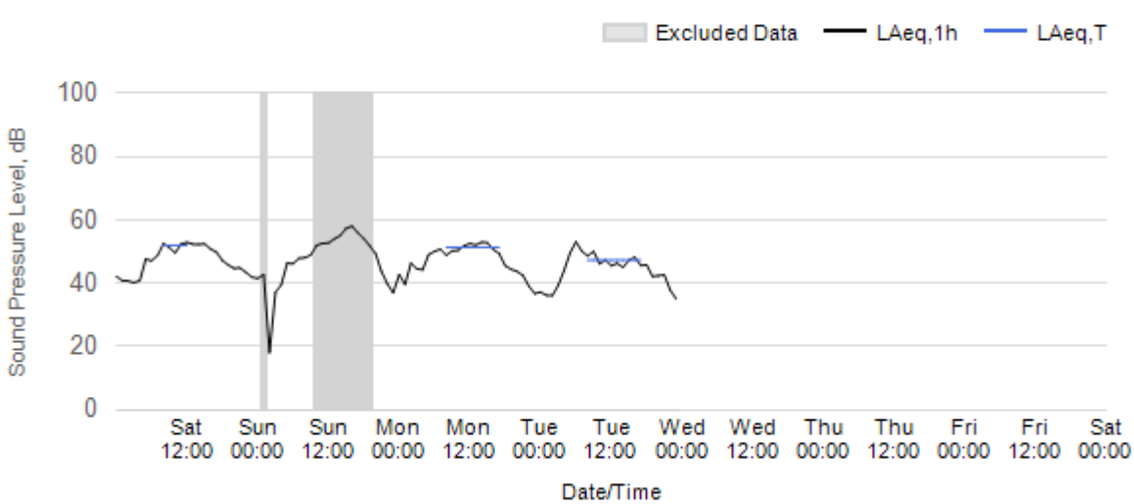

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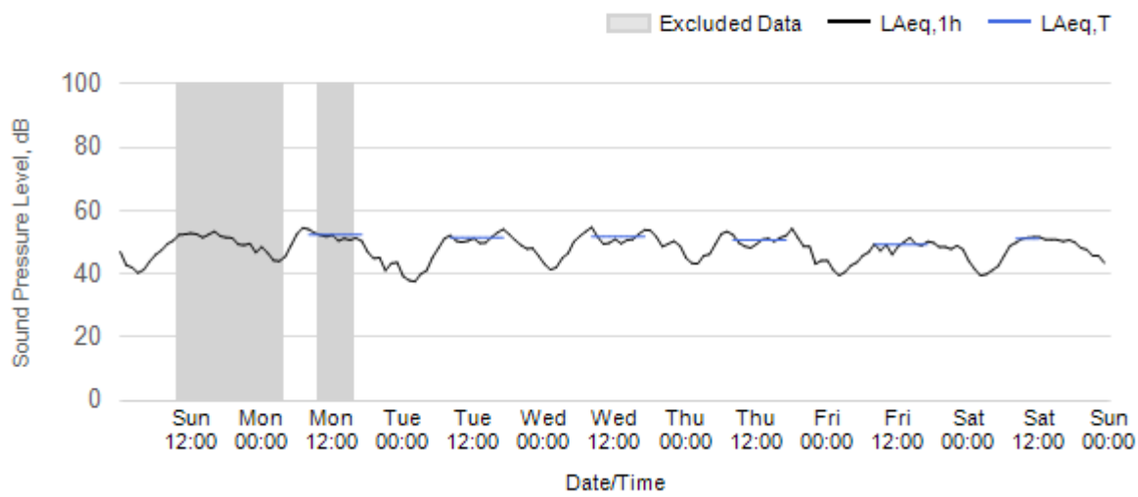

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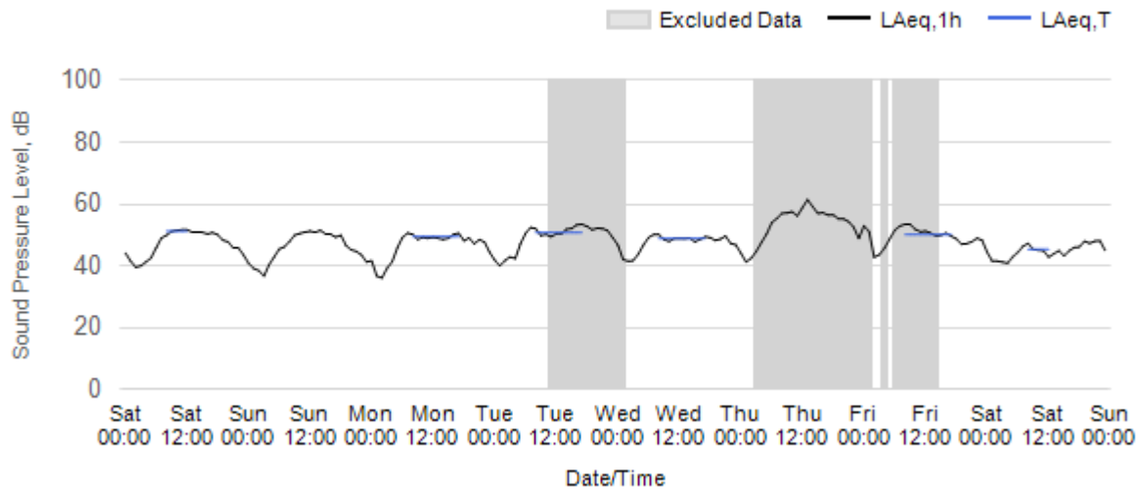

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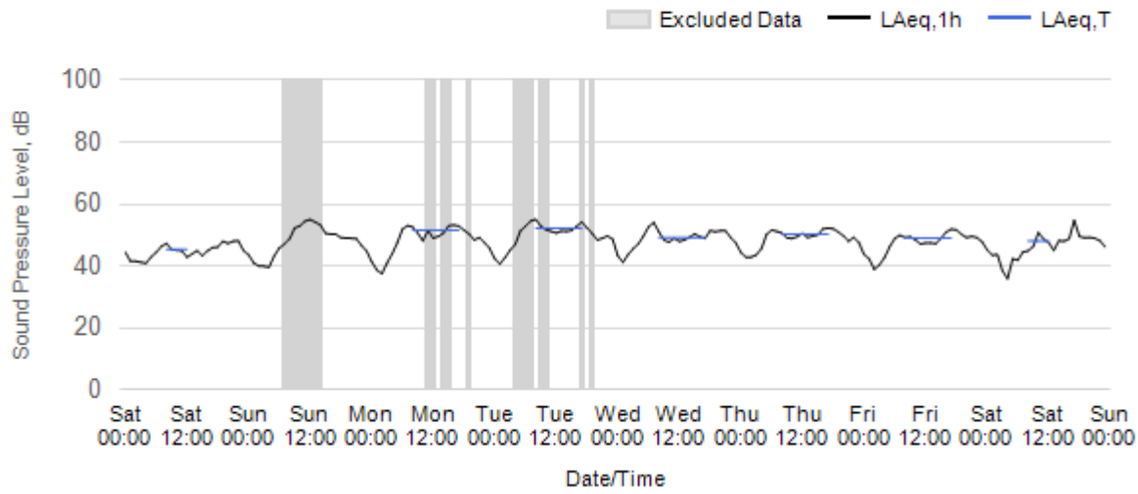

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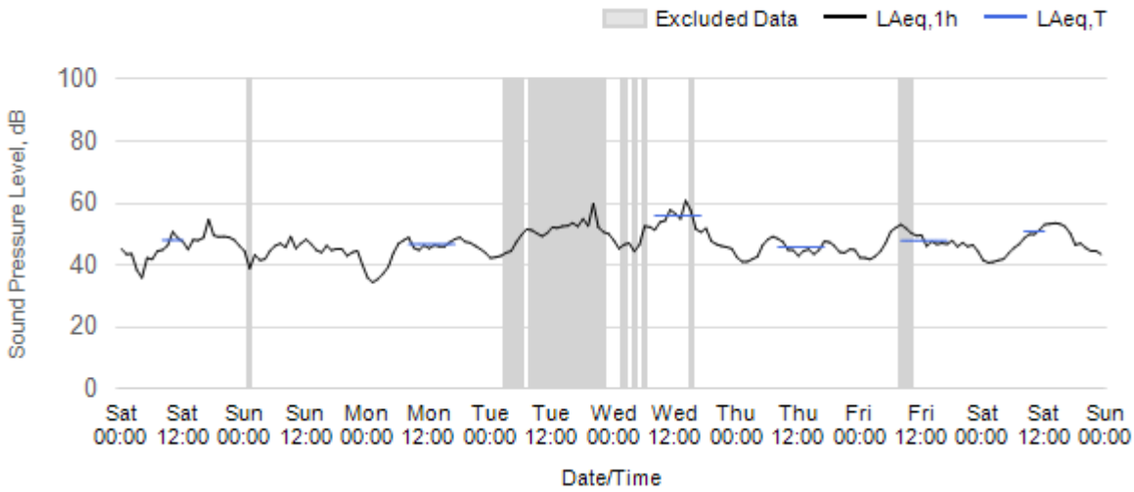

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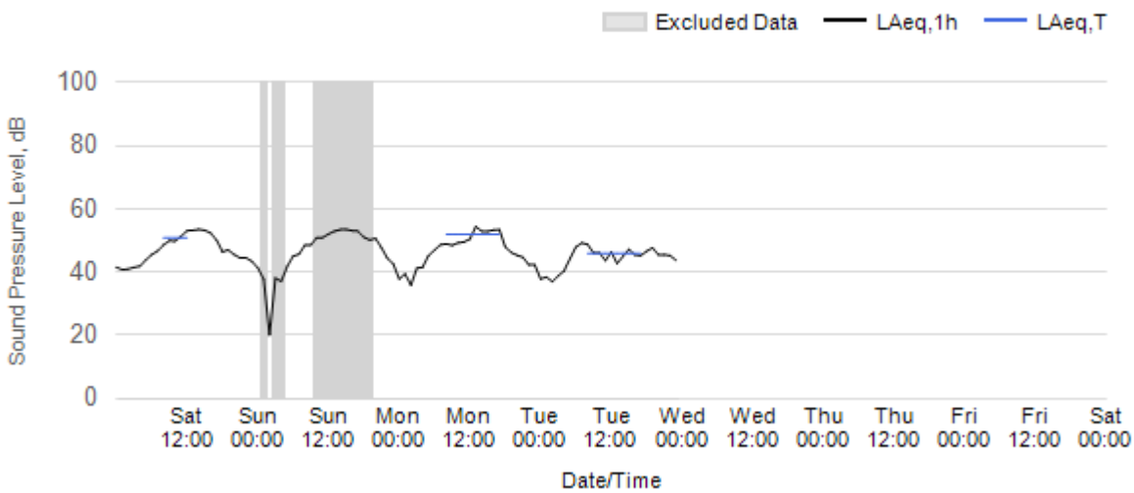

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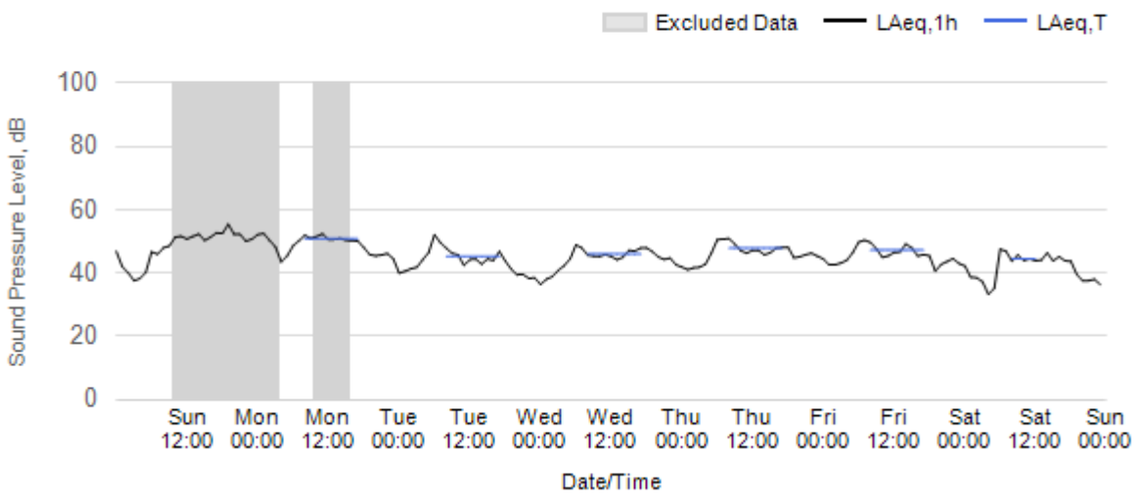

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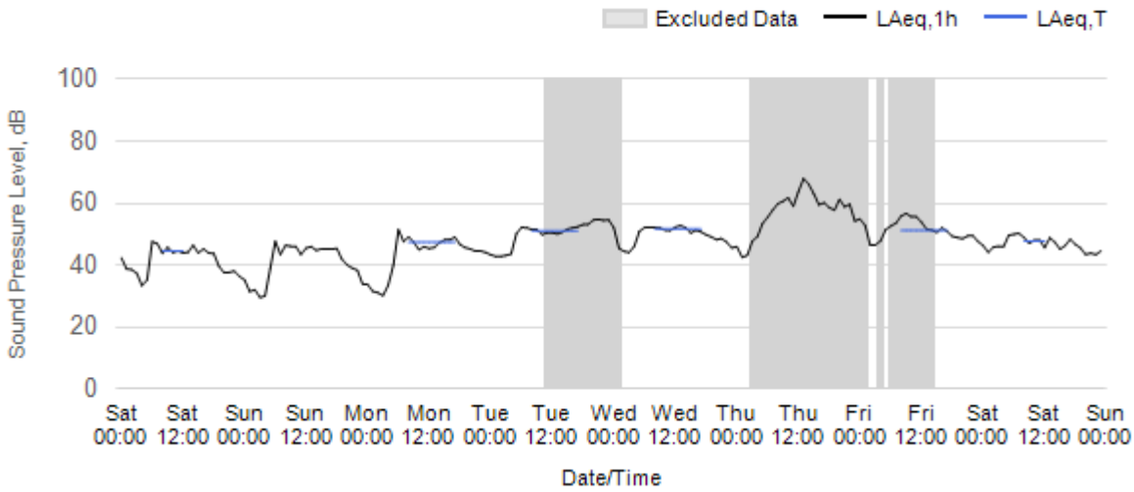

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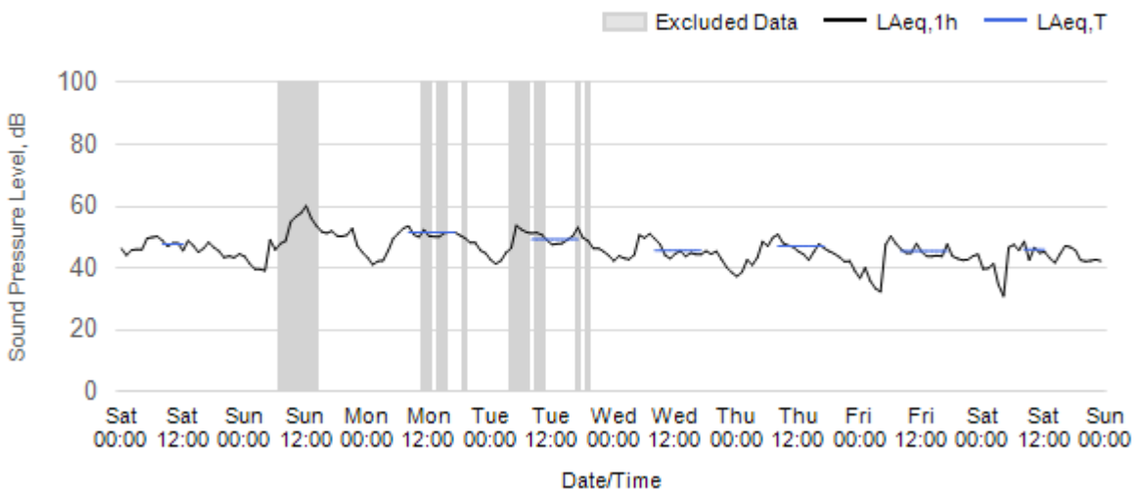

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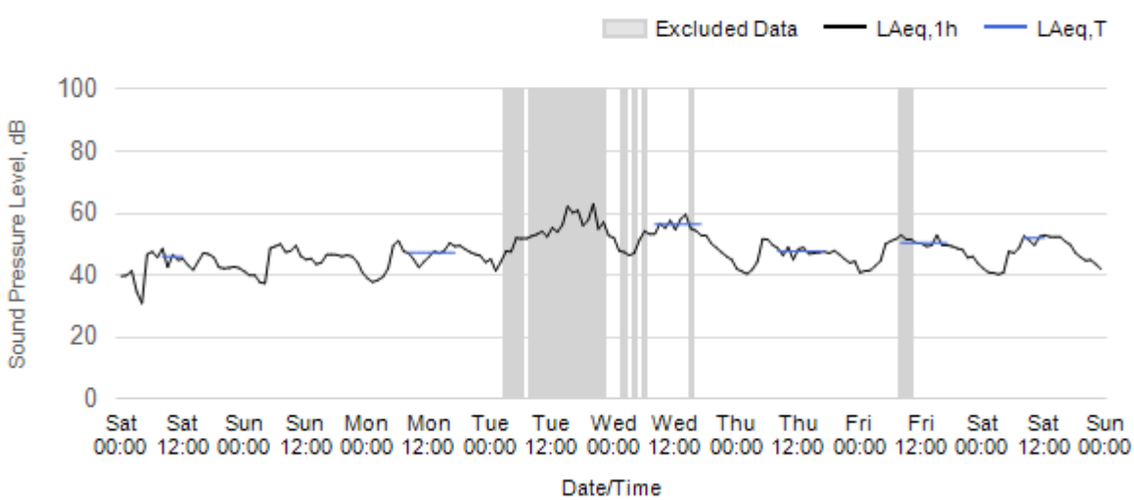

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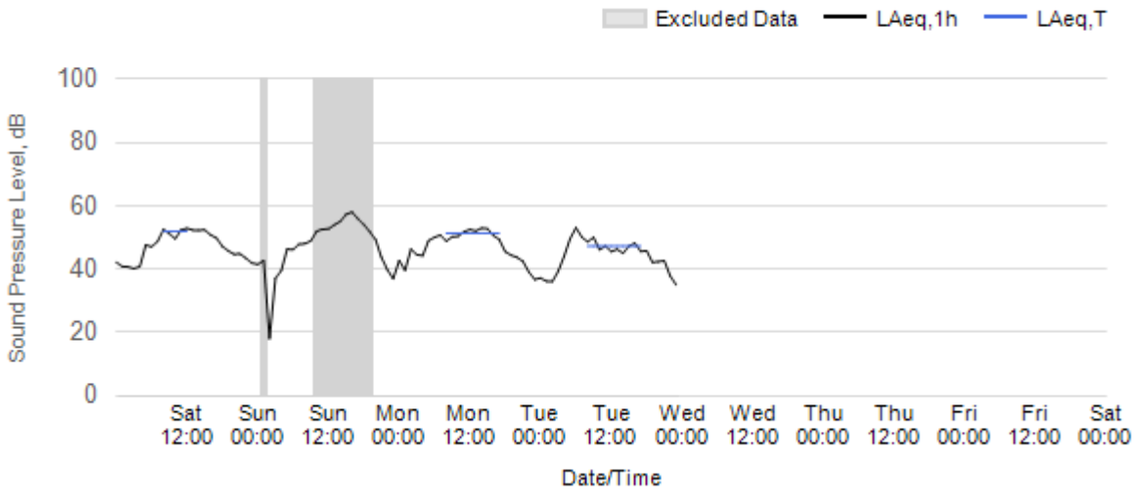

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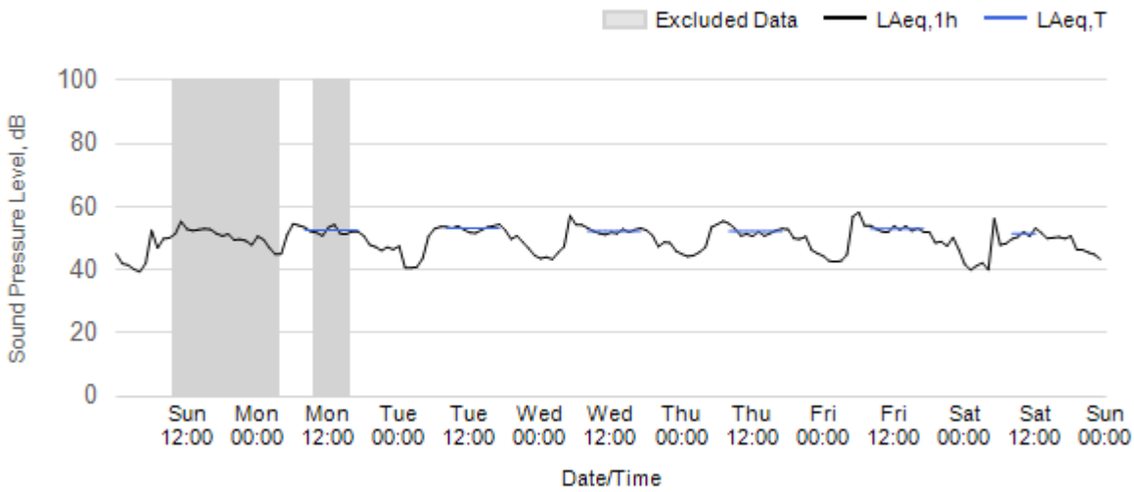

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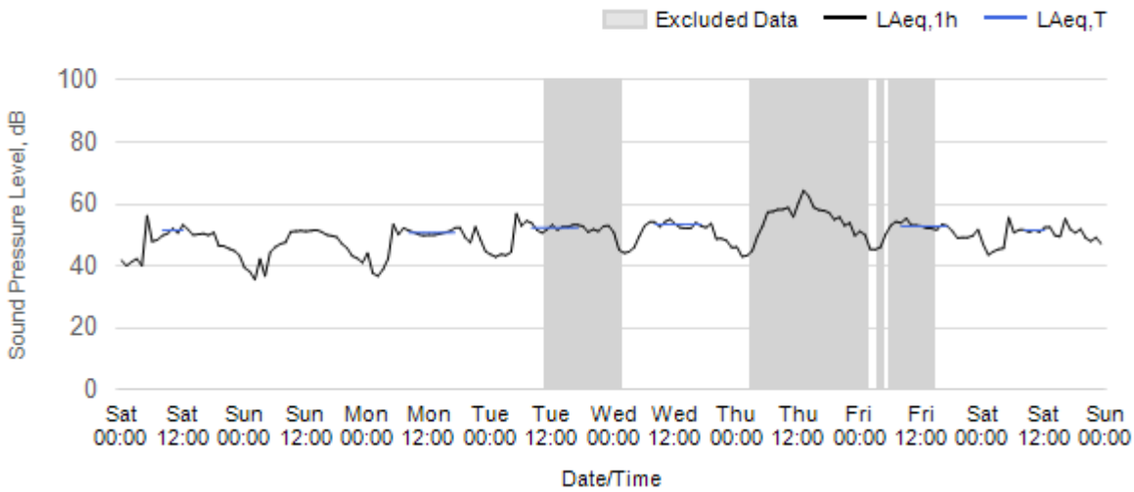

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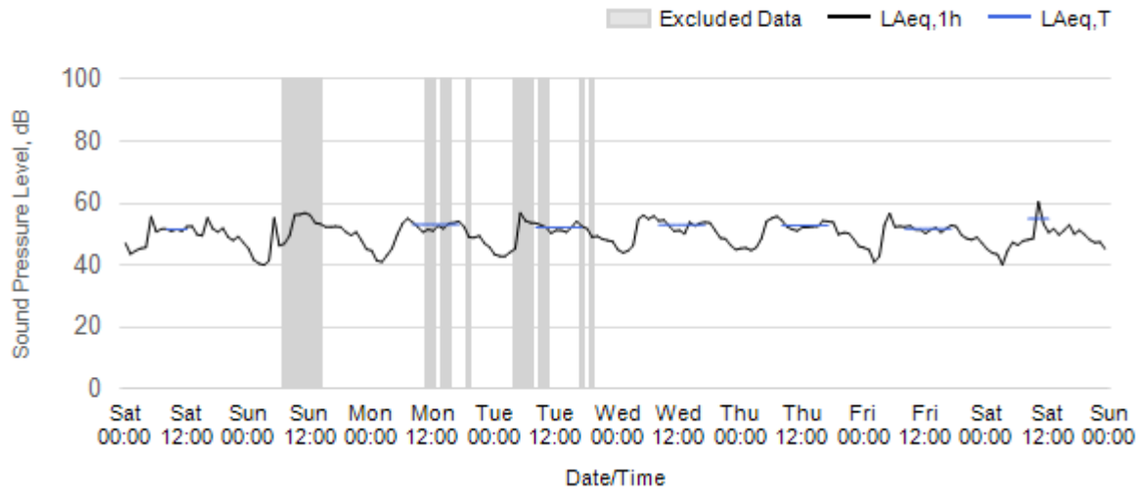

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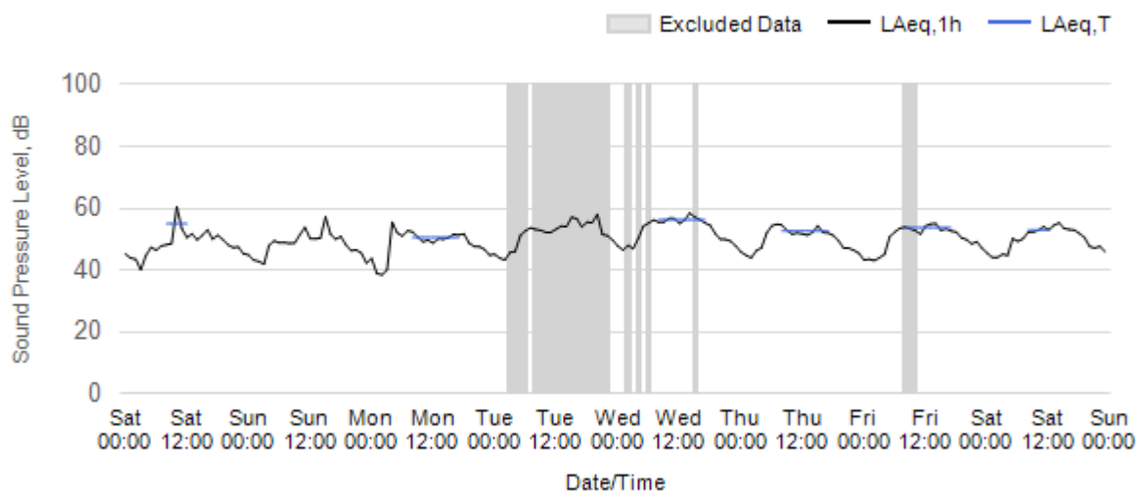

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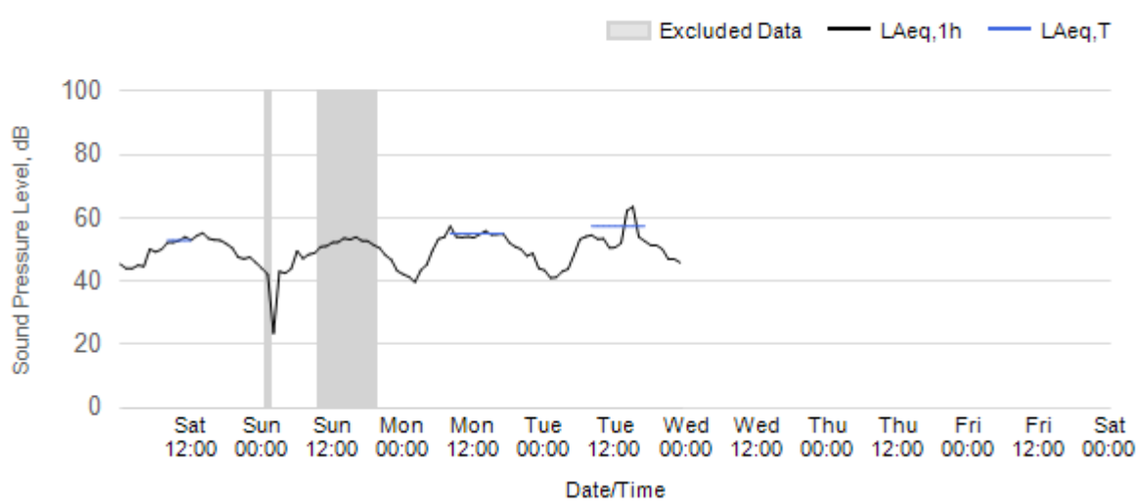

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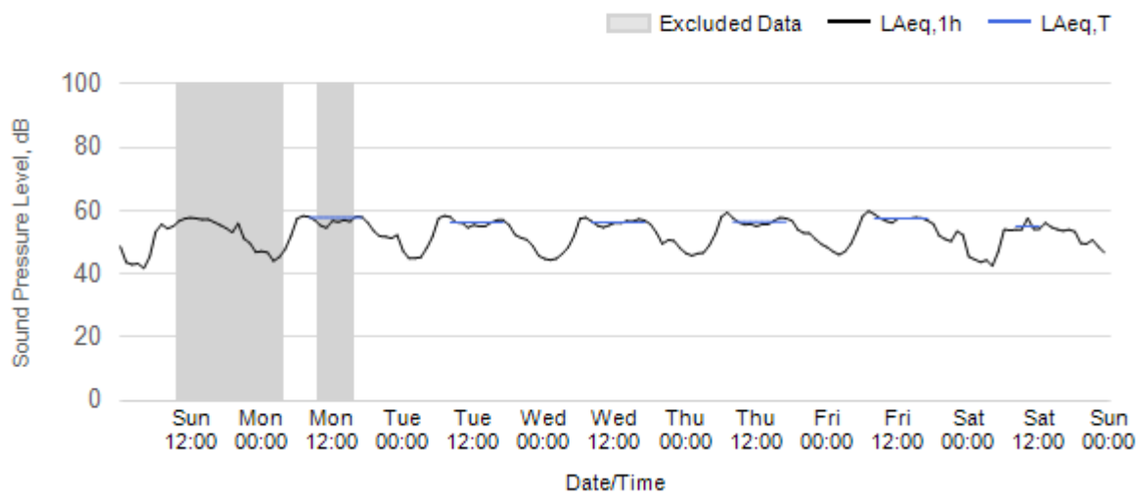

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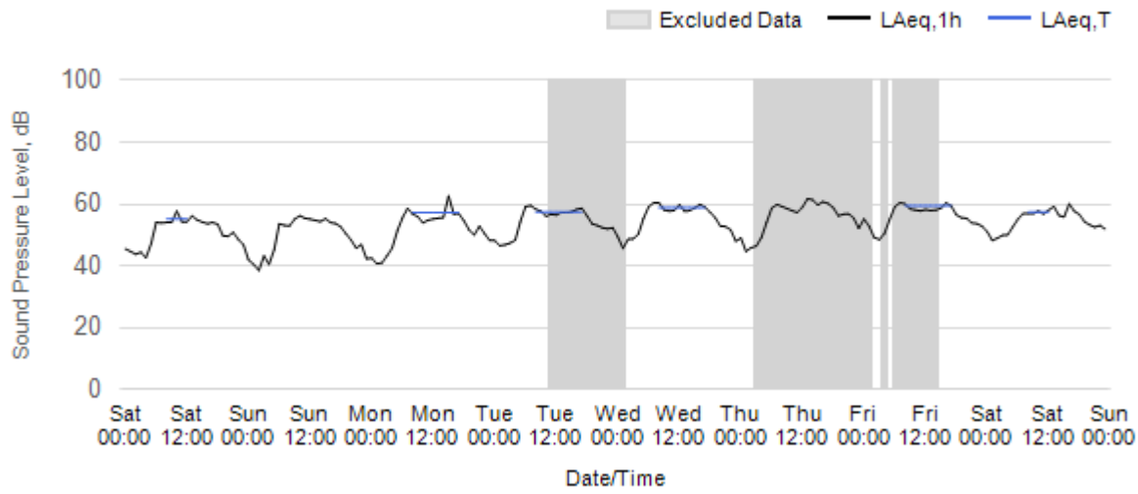

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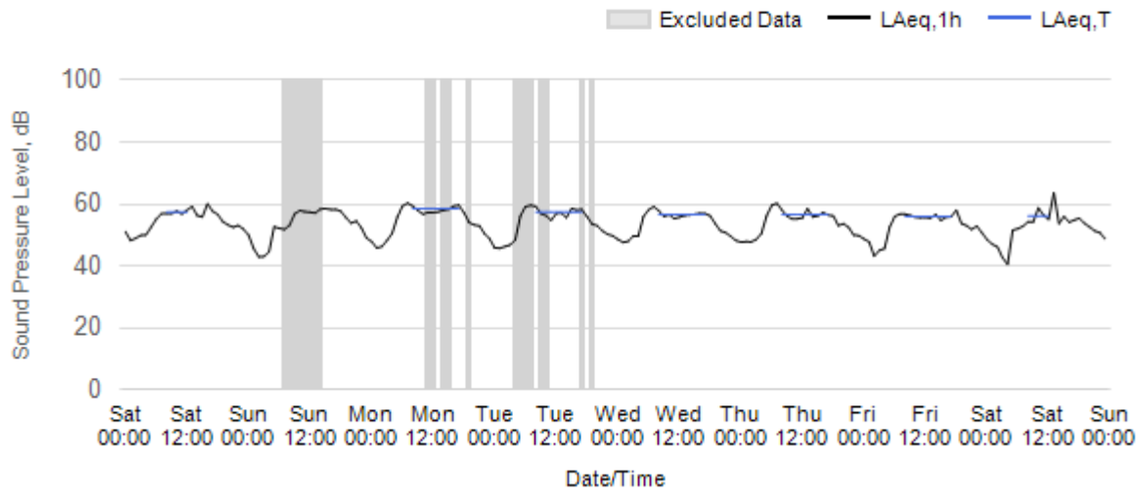

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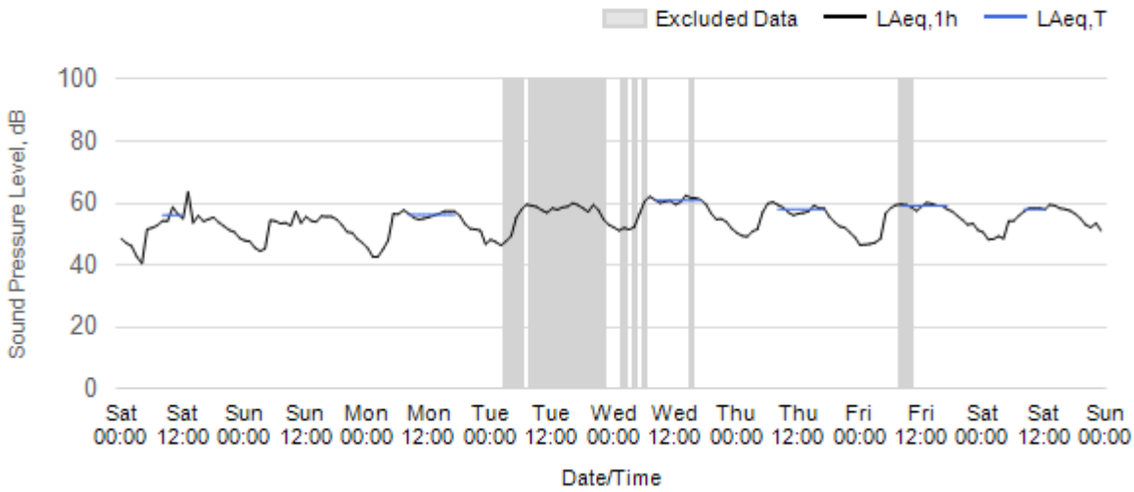

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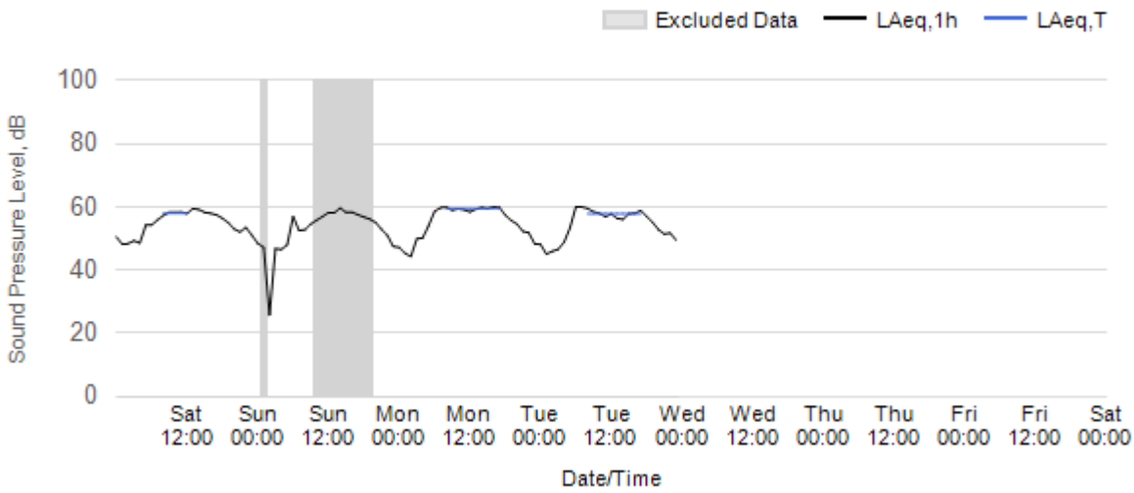
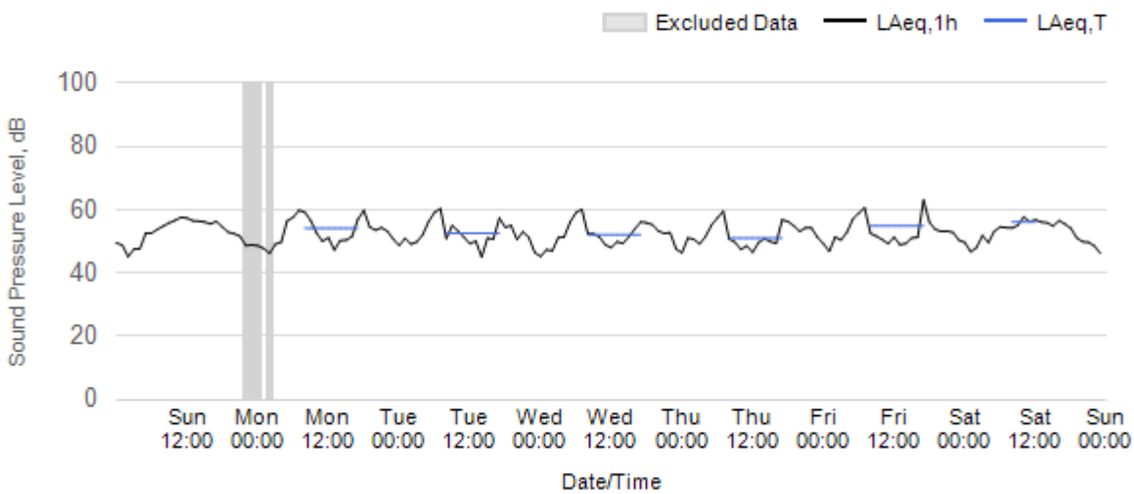
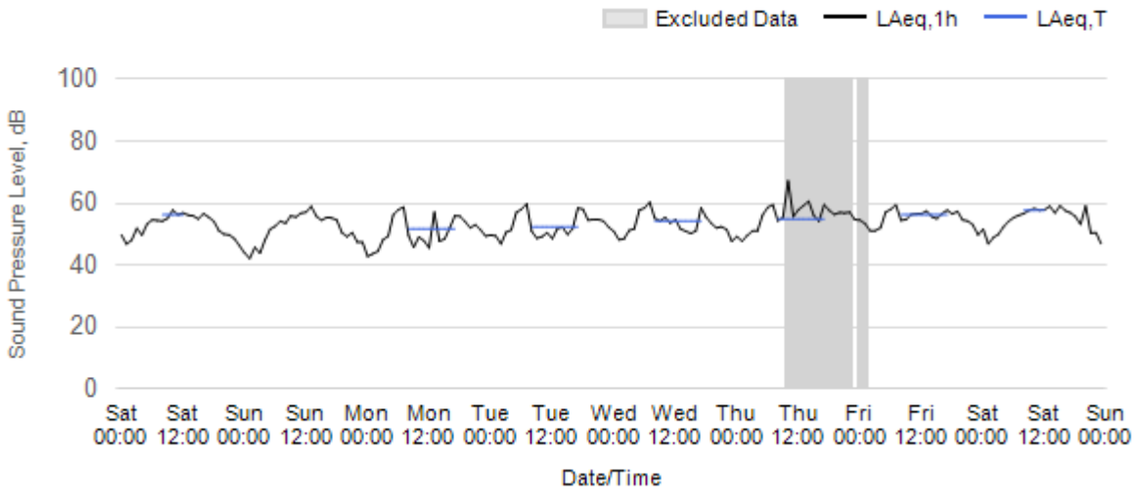


Worksite: FEW - Monitoring Ref: FEW-N1

Worksite: FEW Monitoring Ref: FEW-N1 01 March 2026 to 07 March 2026



Worksite: FEW Monitoring Ref: FEW-N1 08 March 2026 to 14 March 2026



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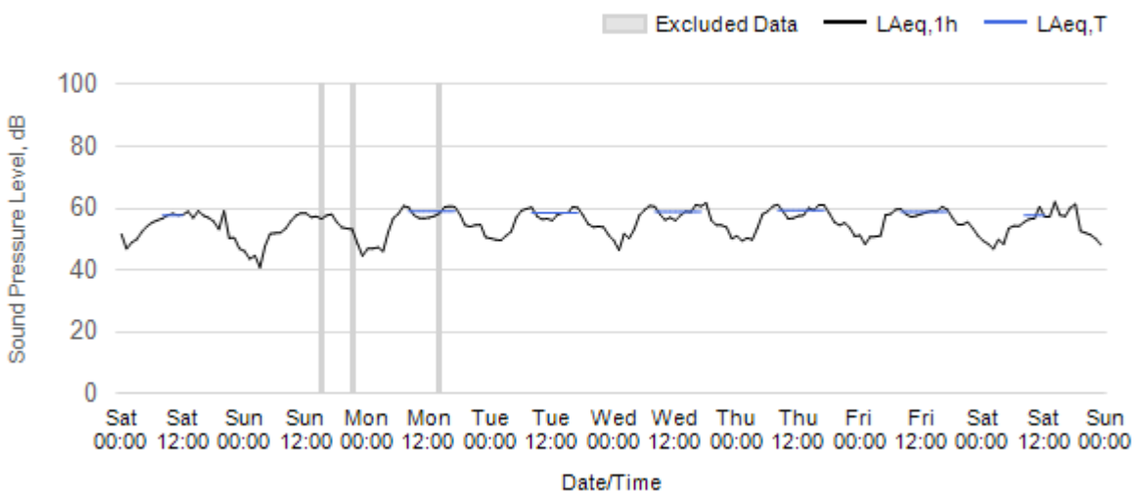
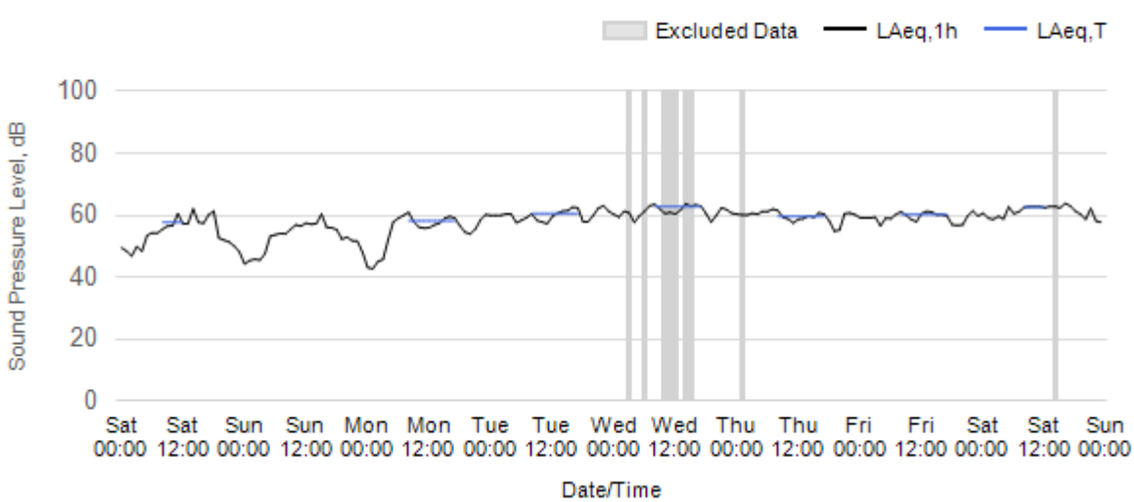


Worksite: FEW Monitoring Ref: FEW-N1 22 March 2026 to 28 March 2026



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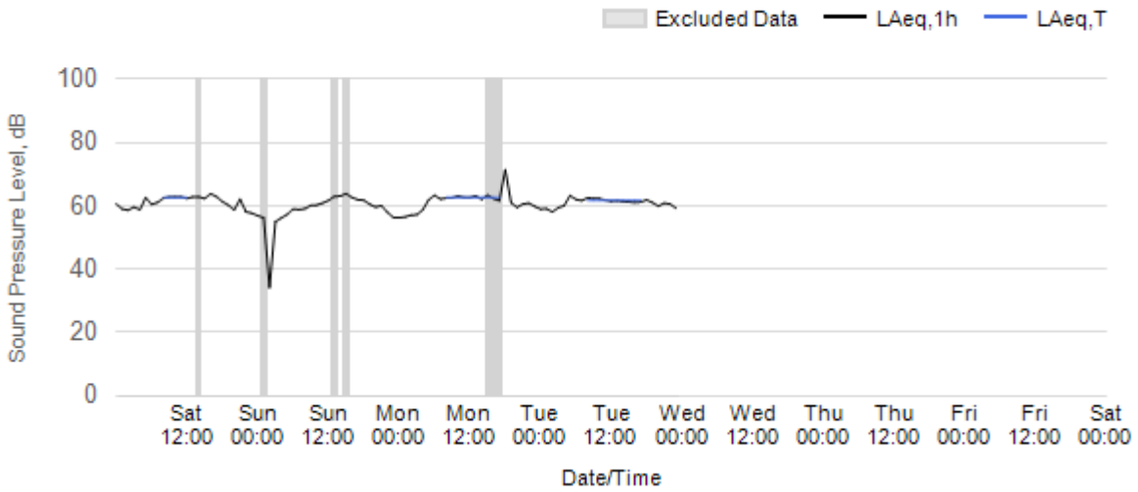
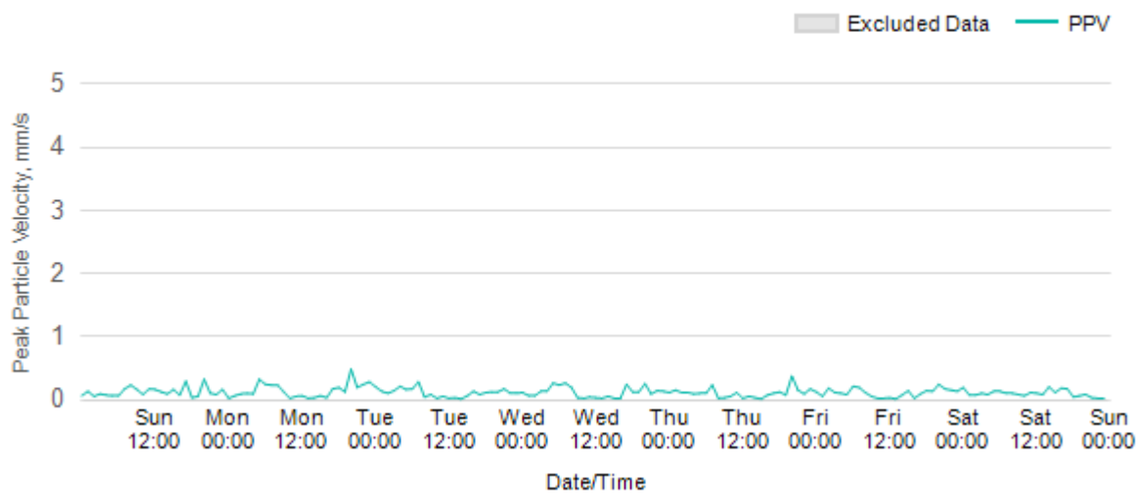


Vibration

The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which are not representative of HS2 construction works, these values have been greyed out in the following charts and have been excluded to calculate values in Table 4 of the main report.

Worksite: FEW - Monitoring Ref: FEW-V3

Worksite: FEW Monitoring Ref: FEW-V3 01 March 2026 to 07 March 2026



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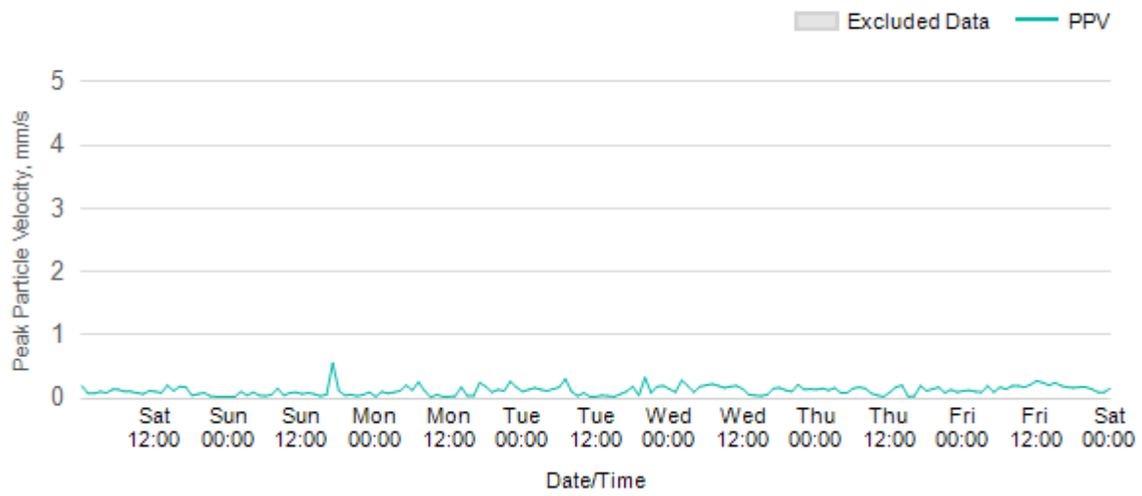

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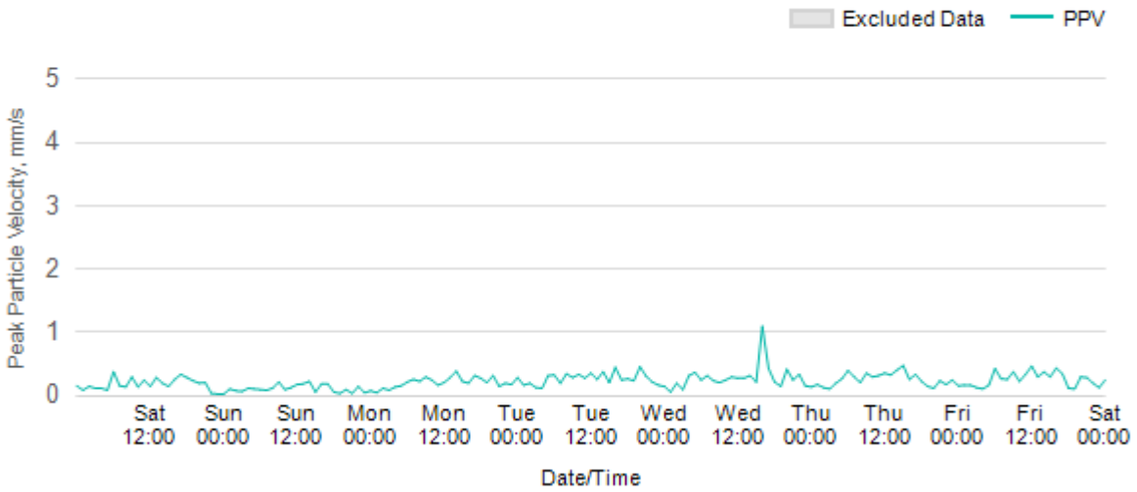

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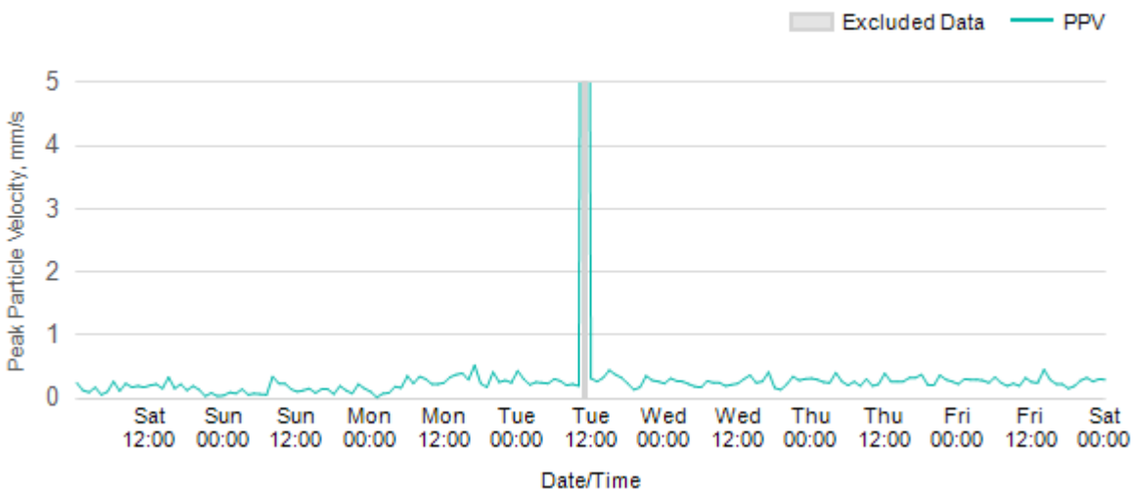

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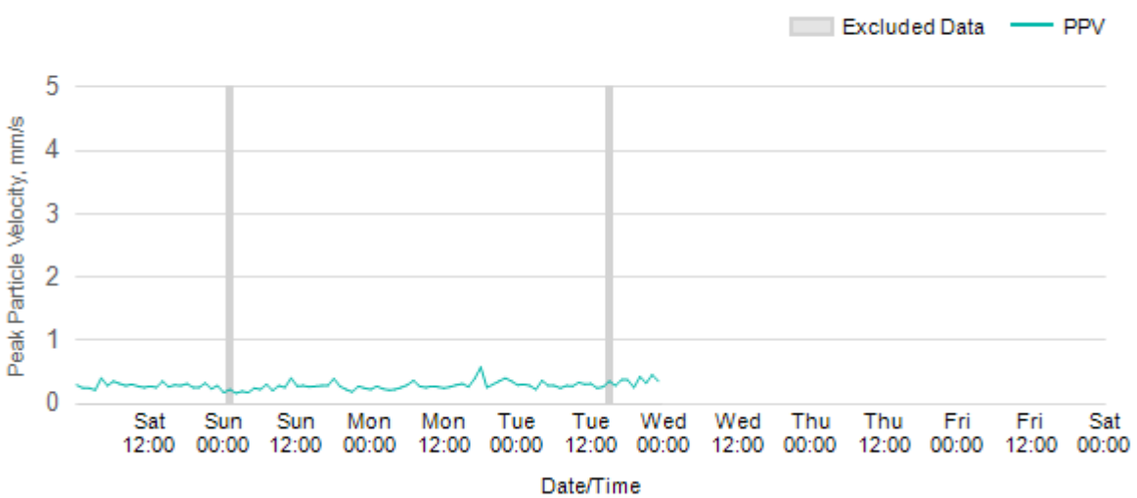

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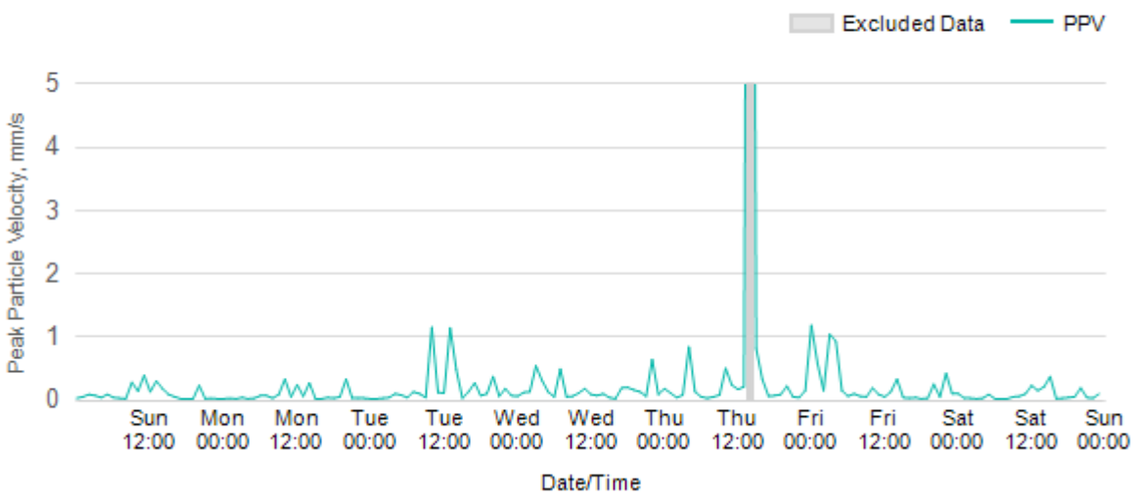
Worksite: SRO Monitoring Ref: SRO-V2 01 March 2026 to 07 March 2026



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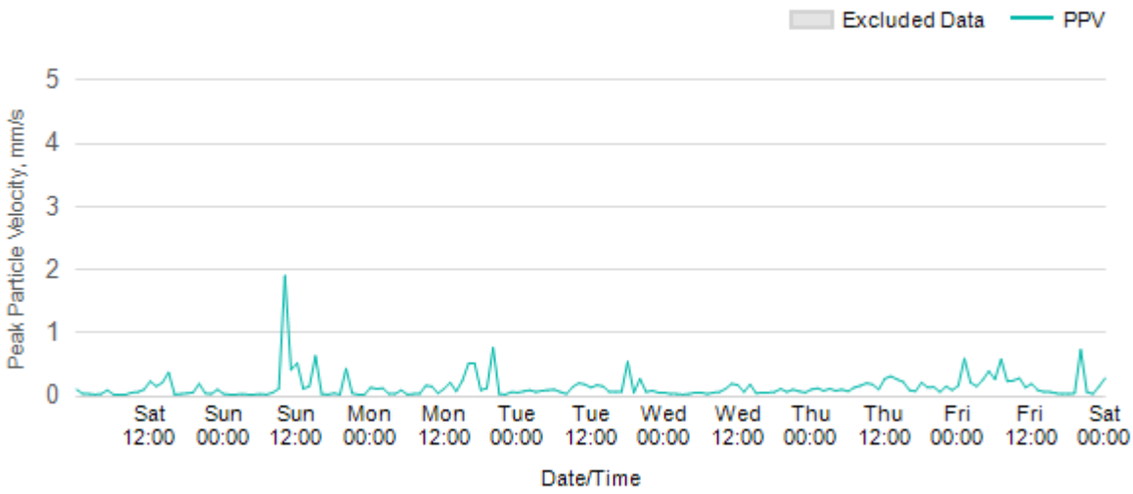

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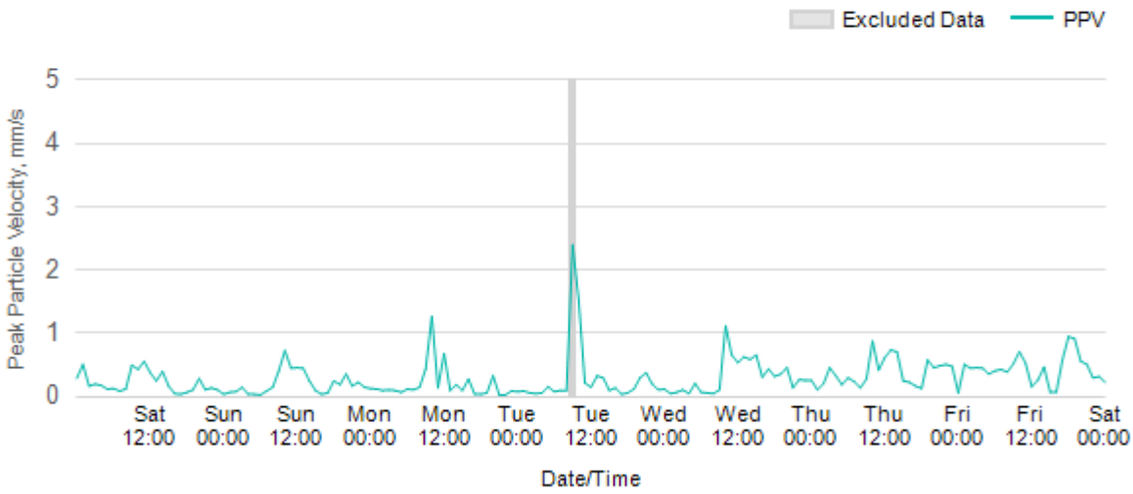

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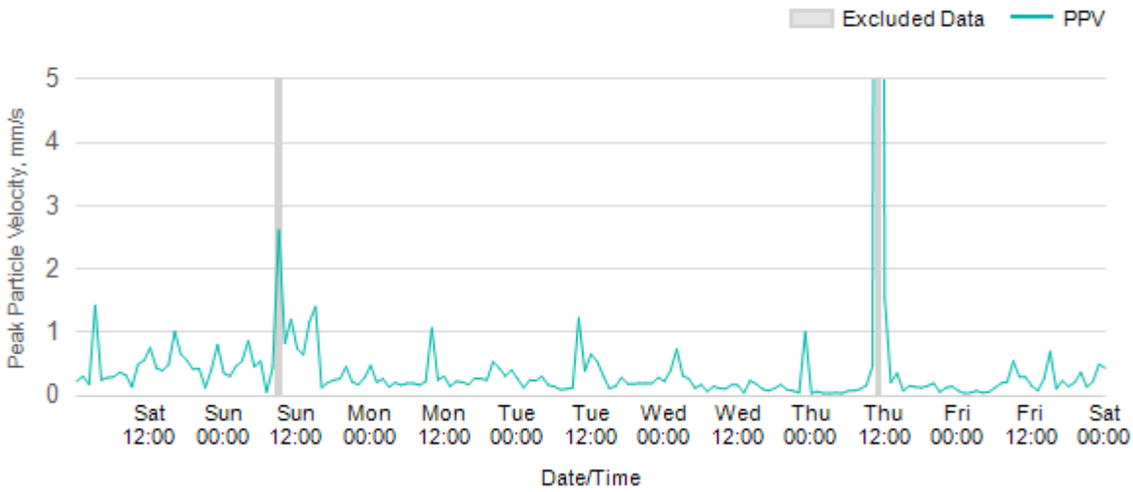

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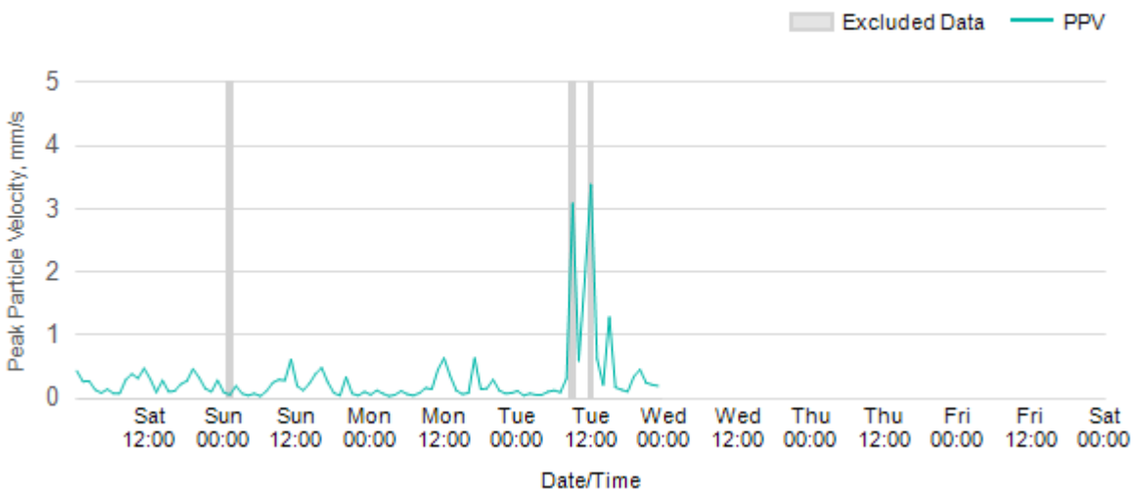

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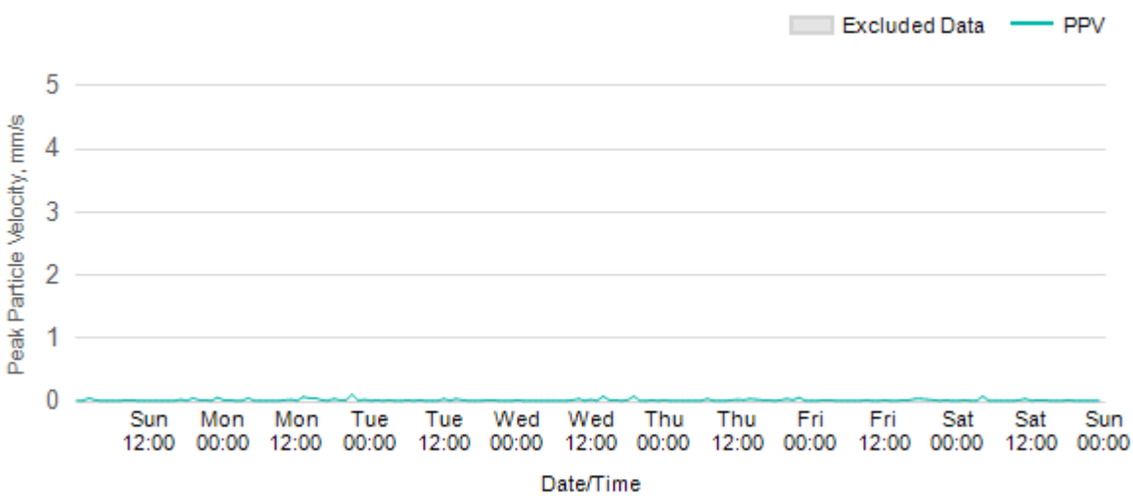
Worksite: SRO Monitoring Ref: SRO-V3 01 March 2026 to 07 March 2026



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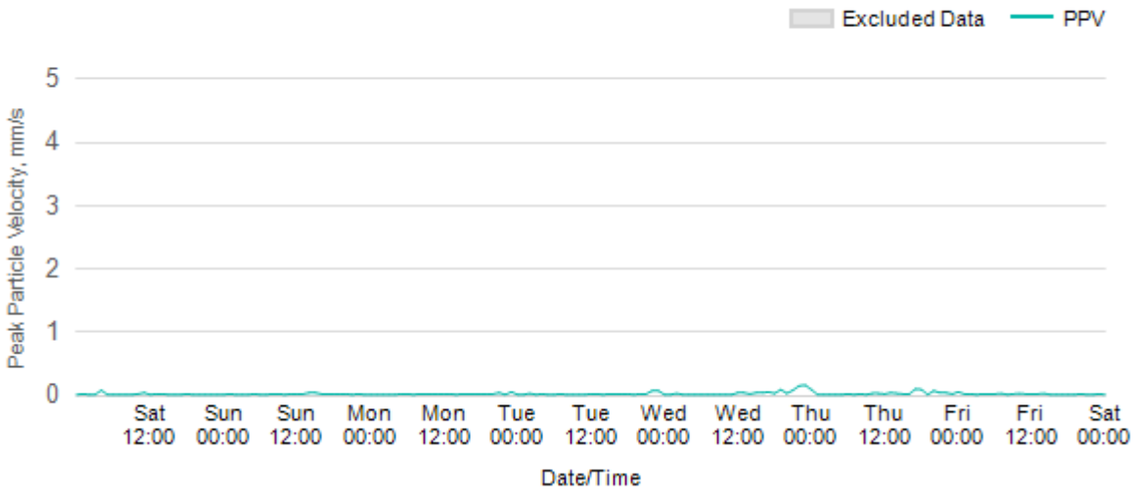

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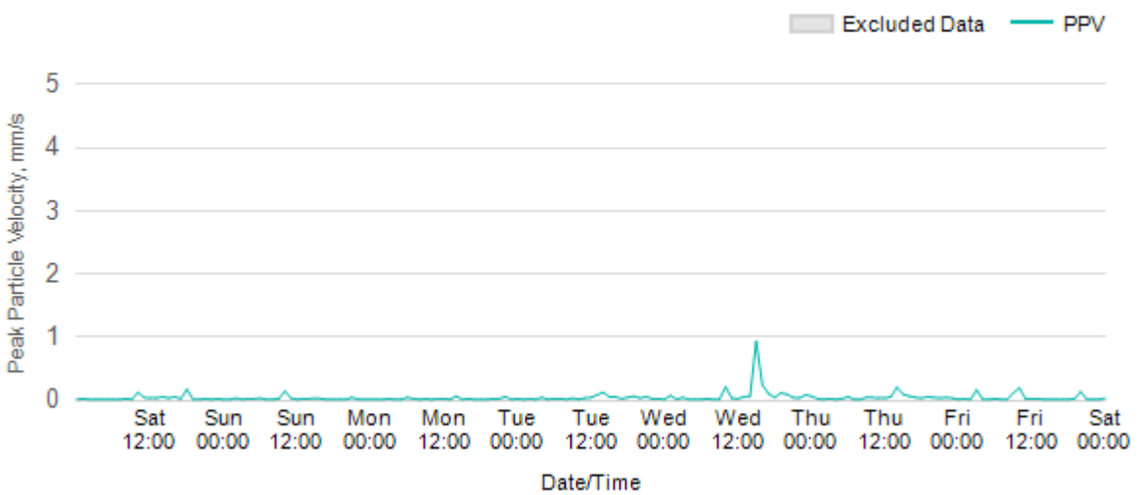
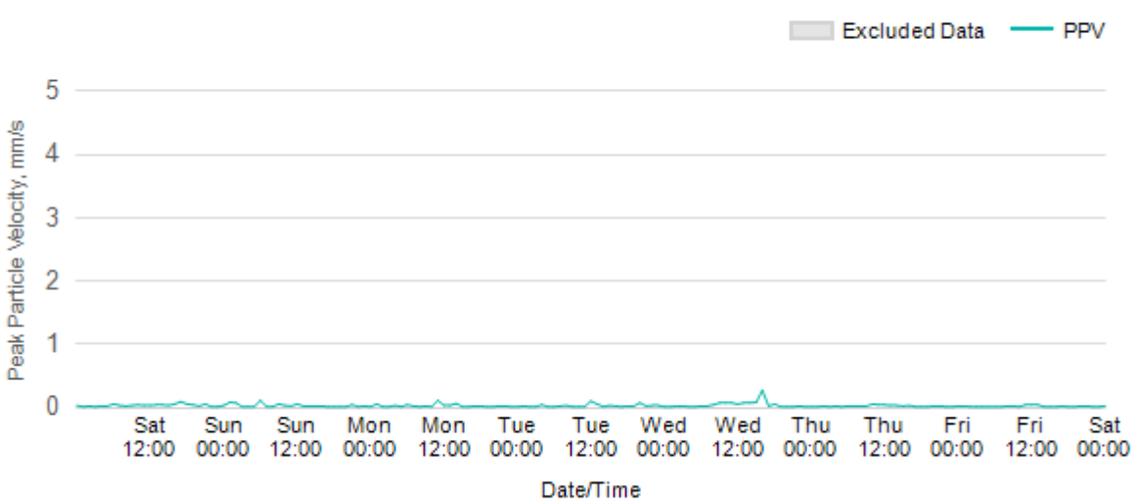


Worksite: SRO Monitoring Ref: SRO-V3 22 March 2026 to 28 March 2026



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