

HS2

February 2026

**Construction Noise and Vibration
Monthly Report – February 2026**
London Borough of Ealing

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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 London Borough of Ealing during the month of February 2026.

Within this period monitoring was undertaken at the following worksites:

- Mandeville Road Ventilation Shaft worksite (ref.: MRVS), where installation works, concrete element construction, installation of steel elements, shaft and tunnel connection works, compound operation, utility works, steel fixing and shuttering were underway.
- Green Park Way Ventilation Shaft worksite (ref.: GPWVS), where general site operations including road sweeping, utility works, maintenance of shaft dewatering system, breaking concrete, removal works, concrete element construction, steel fixing, shuttering and reinforced concrete works were underway.
- Westgate Ventilation Shaft (ref.: WVS), where general site maintenance, cladding, application of spray coating, construction of secondary lining, backfill removal, waterproofing, concrete works including coring, general support tasks and site security were underway.
- Atlas Road worksite (ref.: AR) where general maintenance works, tunnel bore machine construction support, transfer of tunnel boring machine back up and conveyor components, operation of tunnel boring machine, conveyor and gantry crane and material deliveries were underway.
- Willesden EuroTerminal worksite (ref.: WET), where general site maintenance, testing and operation of conveyor system and stockpile management were underway.
- Victoria Road Crossover Box worksite (worksite ref.: VRCB), where support works for tunnelling, breaking of concrete, operation of craneage, ventilation fans and water treatment plant, installation of steel elements and secondary lining construction were underway.
- Flat Iron compound (worksite ref.: FIC), where lorry holding area and batching plant operation and tunnel boring machine works were underway.
- Old Oak Common depot worksite (ref.: OOC), where general site maintenance, steel fixing, formwork, carpentry works, backfilling, road sweeping, utility works, installation of cable management system, water pumping, blockwork and attenuation tank works were underway.

Further works, where monitoring did not take place, were also undertaken at the following location:

- Northolt Tunnels East and East Cross Passage, where segment repair, leak sealing, dust management cleaning and cross passage construction works were underway.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (<https://www.gov.uk/government/publications/hs2-information-papers-environment>), were exceeded four (4) times during the reporting period.

There were no exceedances of trigger levels as defined in Section 61 consents during the reporting period.

Twelve (12) complaints were received during the reporting period. A description of complaints, the results of investigation and any actions taken are detailed in **Error! Reference source not found.** of this report.

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
L _{Aeq,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, L _{pAeq,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 L _{Aeq,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 London Borough of Ealing (LBE) area for the period 1-28 February 2026.

1.1.2 Select monitoring locations in the London Borough of Hammersmith and Fulham (LBFH) and London Borough of Brent (LBB) associated with HS2 sites within LBE are presented in this report.

Active construction sites in the local authority area, where noise and vibration monitoring were conducted during this period, include:

- Mandeville Road Ventilation Shaft worksite, reference MRVS (see plan 1 in Appendix A), where work activities included:
 - Installation works, including gabions.
 - Concrete element construction.
 - Installation of steel elements.
 - Shaft and tunnel connection works.
 - Compound operation.
 - Utility works.
 - Steel fixing.
 - Shuttering.
- Green Park Way Ventilation Shaft worksite, reference GPWVS (see plan 2 in Appendix A), where work activities included:
 - General site operations, including maintenance and road sweeping.
 - Utility works.
 - Maintenance of shaft dewatering system.

- Breaking and trimming concrete.
- Removal works, including gantry crane and steel shutters.
- Concrete element construction, including slabs and columns.
- Reinforce concrete works, including steel fixing and shuttering.
- Westgate Ventilation Shaft worksite, reference WVS (see plan 3 in Appendix A), where work activities included:
 - General site maintenance.
 - Cladding, including blockwork.
 - Application of spray coating.
 - Construction of secondary lining.
 - Backfill removal.
 - Waterproofing.
 - Concrete works, including coring holes and casting concrete.
 - General support tasks including site security.
- Atlas Road worksite, ref. AR (see plan 4 in Appendix A), where work activities included:
 - General maintenance works.
 - Tunnel bore machine construction support.
 - Transfer of tunnel bore machine back up and conveyor components.
 - Operation of tunnel bore machine.
 - Operation of conveyor.
 - Operation of gantry crane.
 - Delivery of tunnel segments and conveyor components.
 - Spoil removal
- Willesden EuroTerminal worksite, ref. WET (see plan 4 in Appendix A), where work activities included:
 - General site maintenance.
 - Testing and operation of conveyor system.
 - Stockpile management.
- Victoria Road Crossover Box worksite, ref. VRCB (see plan 4 in Appendix A), where work activities included:
 - Support works for tunnelling, including segment repairs and cleaning.
 - Breaking of concrete.

- Operation of craneage, ventilation fans and water treatment plant.
- Installation of steel elements, including steel decking.
- Secondary lining construction.
- Tunnel works and maintenance.
- Flat Iron compound, worksite ref. FIC (see plan 4 in Appendix A), where work activities included:
 - Operation of lorry holding area.
 - Operation of batching plant.
 - Tunnel bore works including stripping and scraping of sections.
- Old Oak Common depot worksite, located in the London Borough of Hammersmith and Fulham (LBHF), ref. OOC (see plan 4 in Appendix A), where work activities included:
 - General site maintenance including cleaning, materials management and haulage.
 - Steel fixing.
 - Formwork.
 - Carpentry works.
 - Backfilling
 - Road sweeping.
 - Utility works, including digging, pipe cutting, welding and installation ground anchor works and level surfacing.
 - Installation of cable management system.
 - Water pumping.
 - Blockwork.
 - Attenuation tank works, including piling, store set up and striking.

Further works, where monitoring did not take place, were also undertaken at the following location:

- Northolt Tunnels East and East Cross Passage, where segment repair, leak sealing, dust management tunnel cleaning and cross passage construction works were underway.

The applicable standards, guidance, and monitoring methodology are 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 20 noise and 7 vibration monitoring installations were active in February in the London Borough of Ealing area. Tables 2a and 2b summarise the position of noise and vibration monitoring installations within the London Borough of Ealing area in February 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
MRVS	BLV-N001	45 Belvue Road
	N040	Badminton Close
	N040b	Badminton Close
	N058	Mandeville Road North hoarding, Northeast Part of Site
	N063	Mandeville Road, North Hoarding, Northwest part of Site
FIC	N029	Braitrim House, Victoria Road
	N042	Boden House Car Park
	N049	Flat Iron compound railway fence, Victoria Rd North Acton
VRCB	N031	School Road, outside Acton Business Centre
	N031b	School Road
	N050c	VRCB Welfare Cabin Rooftop
WET	N034	Stephenson Street (north)
	N035	Stephenson Street (south)
	N041a	Harley Road
GPWVS	N059	Greenpark Way East boundary on hoarding
	N064	Greenpark Way outside Tetris building
WVS	N062	Westgate Ventilation Shaft, on site hoarding in Northeast corner of site.
OOC	OOC-N01	Adjacent to 205 Old Oak Common Lane
	OOC-N02	Old Oak Common Lane, Hilltop Works
	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road

Table 2b: Vibration Monitoring Locations

Worksite Reference	Measurement Reference	Address
OOC	OOC-V03	Wells House Road Alleyway
WET	V052b	63, Stephenson Street
	V057	37, Stephenson Street
GPWVS	V053	Greenpark Way Eastern boundary
	V054	Greenpark Way outside Tetris building (West of Site)
MRVS	V055b	Carr Road rear garden
	V056a	Mandeville Road, North Hoarding, Northwest part of Site

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
MRVS	BLV-N001	45 Belvue Road	Free-field	56.5 (58.4)	59.5 (61.7)	55.6 (57.5)	55.1 (57.2)	51.4 (58.6)	53.6 (56.5)	55.2 (55.9)	53.0 (55.3)	53.0 (56.0)	49.7 (54.6)	53.5 (56.4)	51.6 (57.4)
	N040	Badminton Close	Free-field	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
	N040b	Badminton Close	Free-field	59.6 (62.7)	66.2 (70.8)	59.1 (63.2)	58.0 (63.3)	56.9 (63.2)	57.6 (58.4)	62.2 (72.1)	59.3 (62.5)	58.9 (63.3)	57.8 (60.7)	58.3 (62.1)	58.7 (66.1)
	N058	Mandeville Road	Free-field	59.1 (61.9)	64.2 (67.6)	58.2 (60.0)	56.2 (60.2)	53.6 (64.2)	53.1 (55.2)	55.0 (56.9)	53.3 (55.7)	53.6 (55.6)	51.5 (55.0)	53.6 (55.6)	51.8 (62.0)
	N063	Mandeville Road,	Free-field	60.0 (63.5)	68.3 (70.9)	57.6 (59.5)	57.7 (60.1)	54.9 (59.7)	57.5 (59.7)	59.0 (59.7)	58.9 (65.6)	58.6 (68.3)	55.9 (59.4)	57.4 (59.4)	55.7 (59.9)
FIC	N029	Braitrim House, Victoria Road	Free-field	56.2 (62.9)	61.7 (65.6)	58.2 (64.3)	59.5 (66.9)	57.1 (64.7)	56.9 (60.4)	58.6 (60.4)	54.0 (56.8)	52.5 (58.2)	47.9 (50.7)	51.6 (55.3)	55.5 (66.0)
	N042	Boden House Car Park	Free-field	61.3 (63.3)	65.3 (69.4)	57.1 (64.2)	58.1 (66.2)	55.4 (63.3)	59.9 (61.1)	67.6 (70.9)	61.0 (65.6)	57.5 (63.3)	53.6 (59.6)	56.6 (61.3)	53.7 (59.8)
	N049	Flat Iron compound	Free-field	57.7 (62.5)	62.8 (67.7)	56.6 (61.5)	57.6 (64.0)	56.4 (63.0)	56.0 (56.1)	59.6 (64.8)	54.8 (56.6)	52.9 (59.8)	49.0 (53.3)	51.9 (56.1)	53.9 (60.0)
VRCB	N031	School Road, outside Acton Business Centre	Free-field	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
	N031b	School Road	Free-field	62.7 (67.0)	66.1 (73.4)	58.8 (61.2)	61.2 (74.5)	57.5 (62.8)	60.1 (62.0)	64.5 (66.5)	61.8 (62.7)	60.2 (63.3)	56.8 (59.6)	60.8 (66.0)	58.0 (62.4)
	N050c	VRCB Welfare Cabin Rooftop	Free-field	64.1 (69.8)	67.3 (74.7)	61.9 (62.8)	62.0 (63.2)	58.4 (62.2)	61.5 (62.6)	67.3 (73.6)	62.2 (62.9)	61.4 (63.9)	57.8 (60.8)	60.7 (64.5)	57.3 (61.9)
WET	N034	Stephenson Street (north)	Free-field	56.0 (67.2)	56.7 (59.9)	53.7 (58.4)	53.5 (58.5)	48.3 (58.2)	55.1 (56.4)	56.5 (57.8)	55.1 (57.3)	52.9 (57.2)	48.5 (52.1)	53.3 (56.5)	48.1 (54.2)

	N035	Stephenson Street (south)	Free-field	55.3 (62.7)	54.8 (58.5)	51.4 (63.2)	50.6 (55.5)	46.7 (54.7)	54.1 (57.5)	54.5 (56.3)	52.5 (54.1)	49.4 (53.9)	46.8 (51.5)	50.1 (55.7)	47.3 (51.9)
	N041a	Harley Road	Free-field	63.9 (67.2)	65.1 (70.3)	64.2 (68.3)	63.5 (65.9)	57.0 (60.7)	63.6 (65.7)	64.8 (66.7)	65.2 (67.0)	63.7 (66.8)	58.1 (61.2)	63.5 (67.1)	57.0 (60.8)
GPWVS	N059	Greenpark Way East boundary on hoarding	Free-field	57.1 (60.5)	61.0 (69.6)	53.1 (56.4)	57.3 (63.3)	54.2 (69.5)	57.7 (58.9)	58.2 (58.9)	58.1 (60.2)	57.3 (63.1)	53.4 (58.6)	55.4 (61.4)	54.0 (62.8)
	N064	Greenpark Way outside Tetris building	Façade	56.0 (60.9)	57.6 (59.5)	56.0 (58.8)	54.3 (57.4)	51.8 (57.8)	52.7 (55.5)	54.3 (56.4)	54.4 (56.3)	54.8 (58.5)	52.3 (56.2)	53.9 (56.4)	52.2 (57.7)
WVS	N062	Westgate Ventilation Shaft	Free-field	62.6 (64.8)	63.7 (67.2)	57.1 (64.9)	56.9 (64.2)	55.8 (65.0)	62.1 (69.7)	60.6 (64.5)	59.3 (63.1)	56.1 (59.0)	54.3 (57.1)	56.5 (59.6)	55.4 (59.8)
OOO	OOO-N01	Westgate Ventilation Shaft	Free-field	65.4 (68.2)	69.4 (72.2)	65.1 (69.4)	64.0 (69.0)	60.5 (67.8)	60.6 (65.3)	64.5 (74.7)	63.8 (72.9)	63.3 (70.9)	59.9 (64.3)	58.8 (68.2)	55.4 (63.1)
	OOO-N02	Westgate Ventilation Shaft	Free-field	60.2 (64.6)	70.0 (80.2)	62.2 (71.6)	60.2 (66.8)	56.0 (66.0)	58.0 (63.0)	67.9 (73.3)	61.0 (65.6)	61.8 (68.7)	56.4 (62.9)	63.8 (81.3)	57.7 (67.5)
	OOO-N03	Westgate Ventilation Shaft	Free-field	59.0 (60.4)	62.7 (69.4)	59.6 (61.4)	58.9 (61.1)	55.4 (74.7)	57.4 (60.1)	64.2 (75.6)	59.7 (61.7)	58.6 (61.5)	53.5 (58.7)	57.3 (60.8)	54.8 (60.1)

*Missing data at N040 and N031 was due to loss of power throughout the month.

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
GPWVS	V053	Green Park Way, Greenford	0.79 (Z-axis)
	V054	Green Park Way Ventilation Shaft	2.21 (Y-axis)
MRVS	V055b	Carr Road rear garden	1.87 (X-axis)
	V056a	Mandeville Road	1.26 (Z-axis)
OOO	OOO-V03	Wells House Road Alleyway	1.41 (X-axis)
WET	V052b	63, Stephenson Street	1.79 (Z-axis)
	V057	37, Stephenson Street	1.71 (Z-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 SOAEL

- 2.2.1 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."
- 2.2.2 HS2 Phase One Information Paper E23: Control of Construction Noise and Vibration sets out the SOAELs for construction noise.
- 2.2.3 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.
- 2.2.4 Table 5 presents a summary of recorded exceedances of the SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
FIC	N029	Off Victoria Road, North Acton, NW10 6NY.	All days	All periods	No exceedances
	N042	Off Victoria Road, North Acton, NW10 6NY.	All days	All periods	No exceedances
	N049	Off Victoria Road, North Acton, NW10 6NY.	All days	All periods	No exceedances
GPWVS	N059	Off Rockware Avenue, Greenford, Middlesex, UB6 0AQ.	All days	All periods	Not applicable*
	N064	Off Rockware Avenue, Greenford, Middlesex, UB6 0AQ.	All days	All periods	Not applicable*

MRVS	BLV-N001	Off Mandeville Road, Northolt, Middlesex, UB5 4NA.	All days	All periods	No exceedances
	N040	Off Mandeville Road, Northolt, Middlesex, UB5 4NA.	All days	All periods	No exceedances
	N040b	Off Mandeville Road, Northolt, Middlesex, UB5 4NA.	All days	All periods	No exceedances
	N058	Off Mandeville Road, Northolt, Middlesex, UB5 4NA.	All days	All periods	No exceedances
	N063	Off Mandeville Road, Northolt, Middlesex, UB5 4NA.	All days	All periods	No exceedances
OOC	OOC-N01	Adjacent to 205 Old Oak Common Lane	All days	All periods	No exceedances
	OOC-N02	Old Oak Common Lane, Hilltop Works	Weekday Sunday	0800 - 1800 0700 - 2200	2 1
	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road	Night	2200 - 0700	1
VRCB	N031	Off Victoria Road, North Acton, NW10 6NY	All days	All periods	Not applicable*
	N031b	Off Victoria Road, North Acton, NW10 6NY	All days	All periods	Not applicable*
	N050c	Off Victoria Road, North Acton, NW10 6NY	All days	All periods	No exceedances
WET	N034	Off Channelgate Road, London NW10 6UQ	All days	All periods	No exceedances
	N035	Off Channelgate Road, London NW10 6UQ	All days	All periods	No exceedances
	N041a	Off Channelgate Road, London NW10 6UQ	All days	All periods	No exceedances

WVS	N062	Manhattan Business Park, Off Westgate, Park Royal, London, W5 1UP.	All days	All periods	No exceedances
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* The defined SOAEL criteria are not applicable to non-residential properties

2.2.5 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
OOC	OOC-N02	Old Oak Common Lane, Hilltop Works	3
	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road	1

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

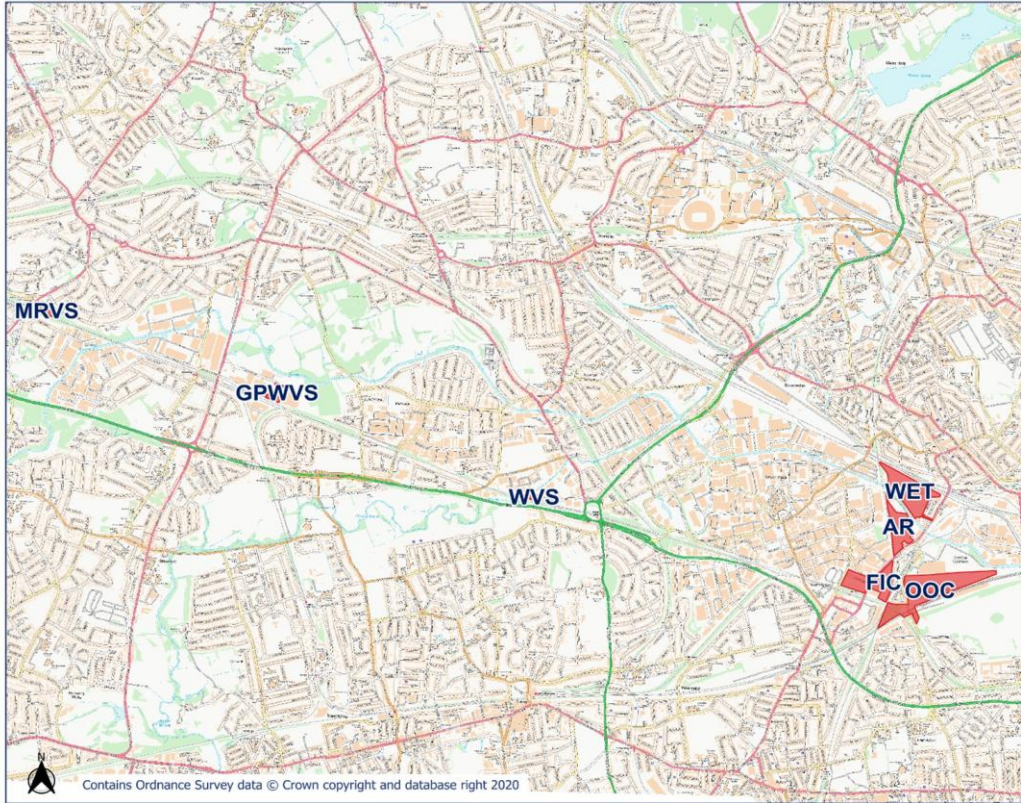
2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

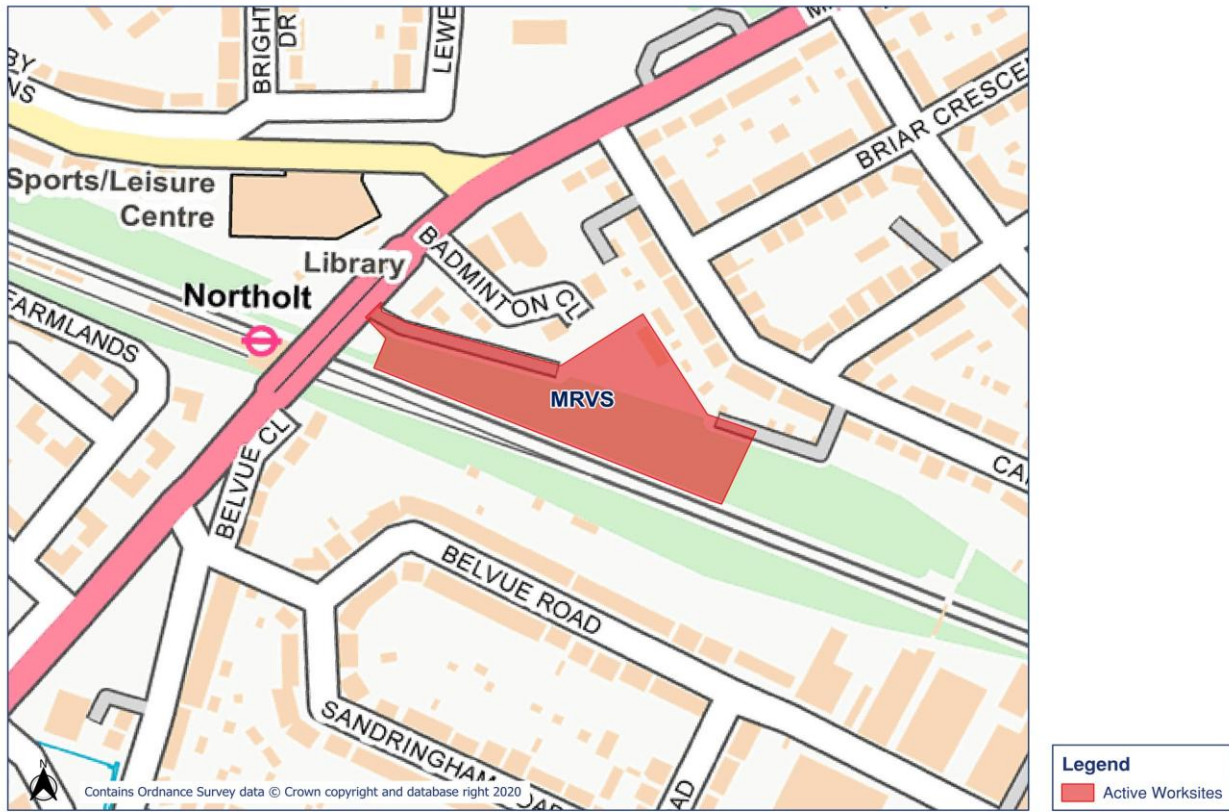
Table 8: Summary of Complaints

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-26-47059-C	MRVS	Complaint regarding the prolonged nature of construction works for the tunnel connection works.	Noise related to Mandeville Road tunnel connection works.	Information was provided to the stakeholders confirming the results of investigation.
HS2-26-47089-C	Altas Road Logistic Tunnel	Compliant regarding excessive noise (and light) at night.	It is unclear if the alleged noise and light issues relate to works at the Atlas Road (and Flat-iron sites). Additional information requested. All monitors were checked, and no exceedances were recorded. Works took place with the consent of local authorities.	Response made to the stakeholder in relation to the noise and light impacts. Further information requested from the stakeholder to confirm whether the works were due to HS2 activity or other parties.
HS2-26-130490-E-C	MRVS	Night time noise from construction works including use of tower cranes.	Noise related to works at the bottom of the Main Shaft at the Mandeville road Vent Shaft Site. Use of tower crane was as a result of strong winds preventing lifting of material into the shaft taking place earlier in the date, as was originally planned. The works are ongoing 24 hours a day, 7 days a week with the relevant consents in place with the local authority. The contractor has confirmed that they are working within permitted levels on noise and vibration and that the noisier works are being conducted outside of overnight hours.	The contractors are working to mitigate the impacts of disturbance as far as is practicable, they are continuing to monitor noise levels. Information provided to the stakeholder confirming the results of the investigation.
HS2-26-47099-C	Old Oak Common Depot	Complaint regarding loud banging noise in front of property	Contractors were aware of the noise at the time of the complaint and stood down works immediately. This was due to a bucket on an excavator.	Information was provided to the stakeholders confirming the results of investigation.

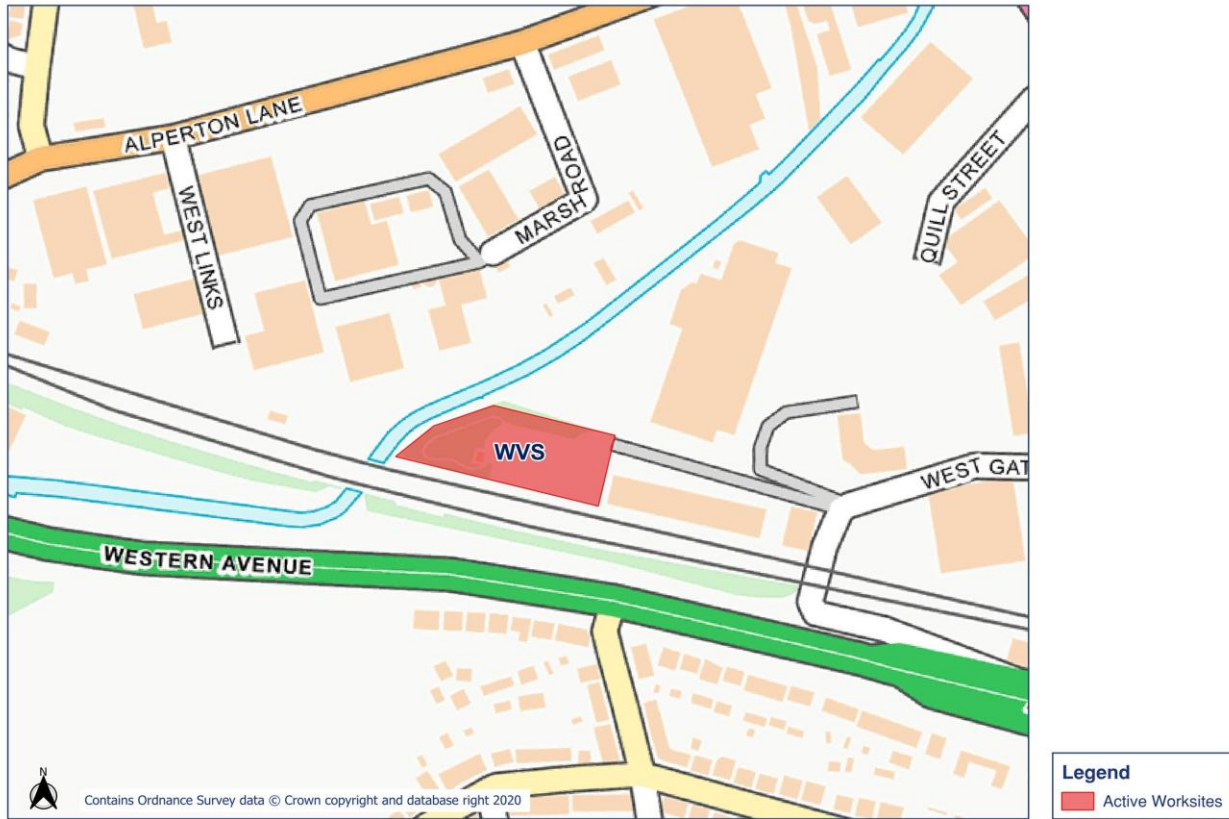
Appendix A Site Locations

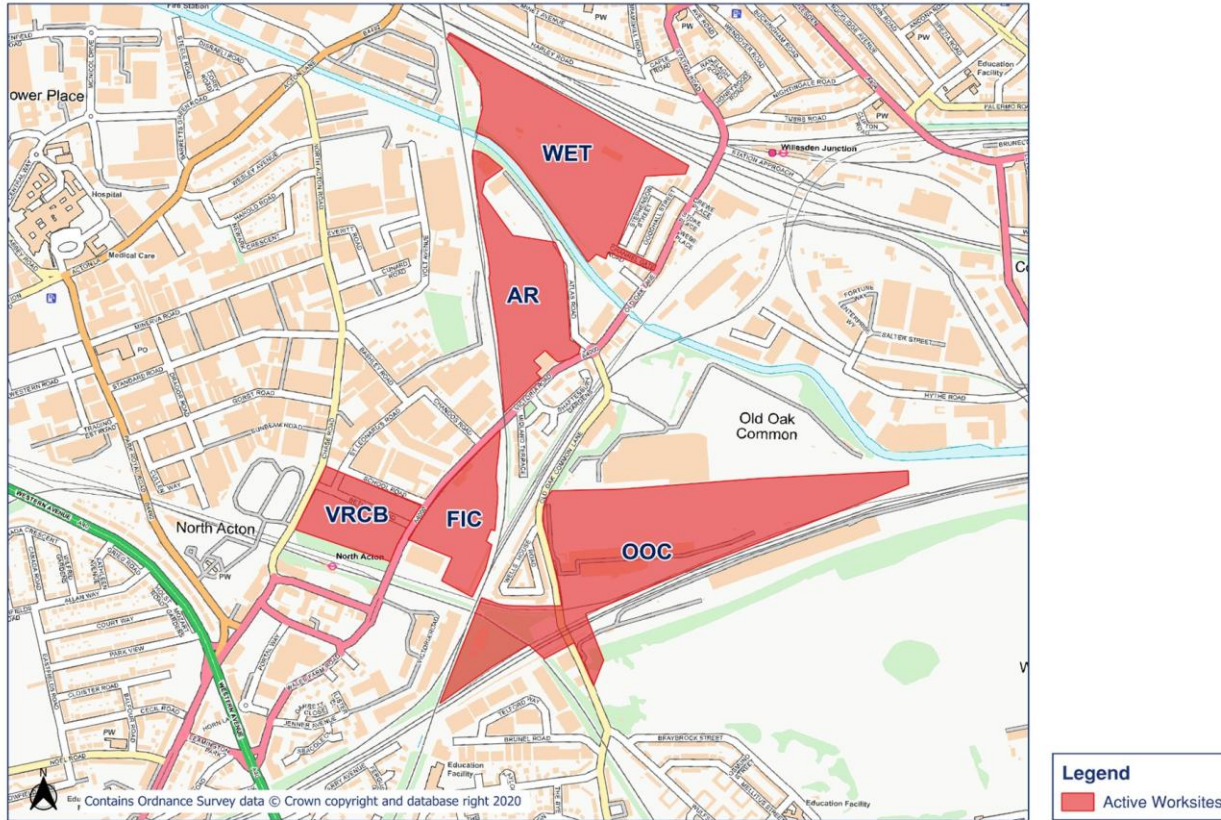
HS2 Worksite Identification Plan - Overview

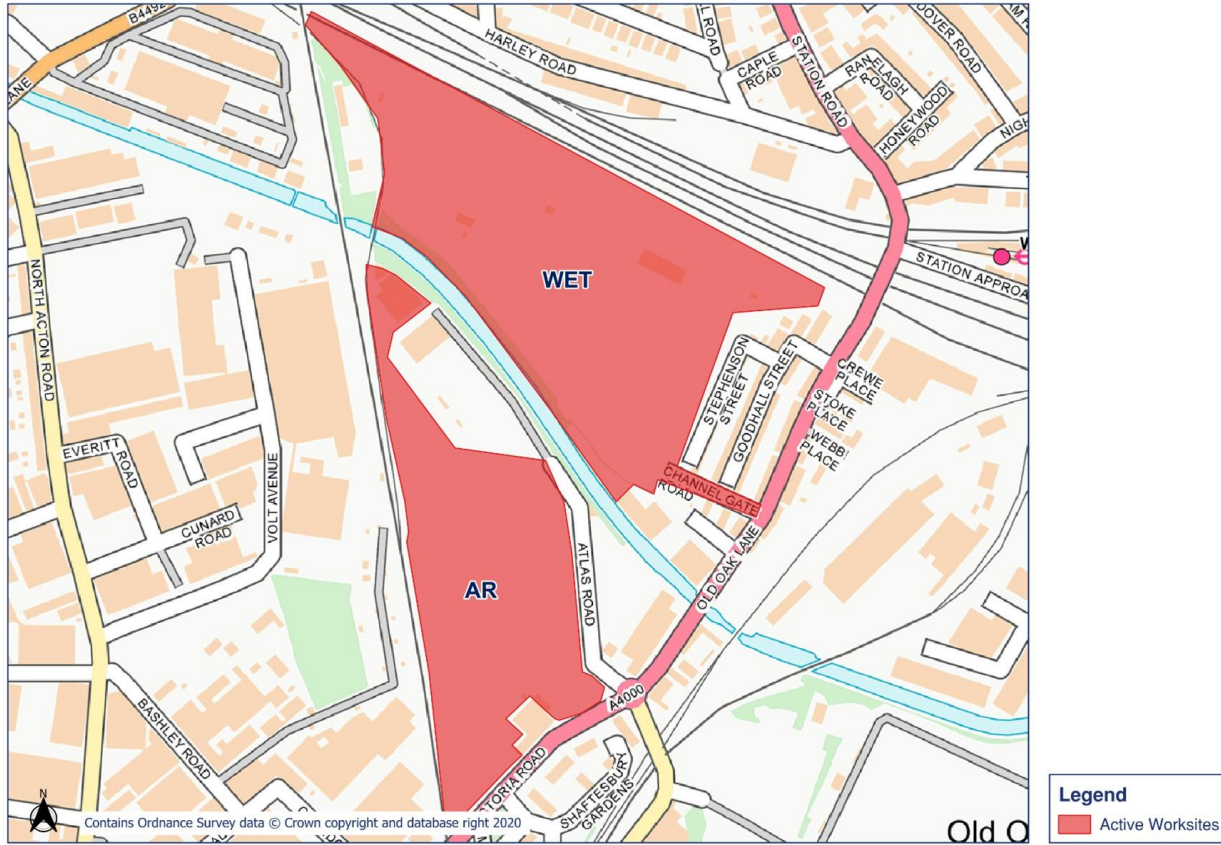


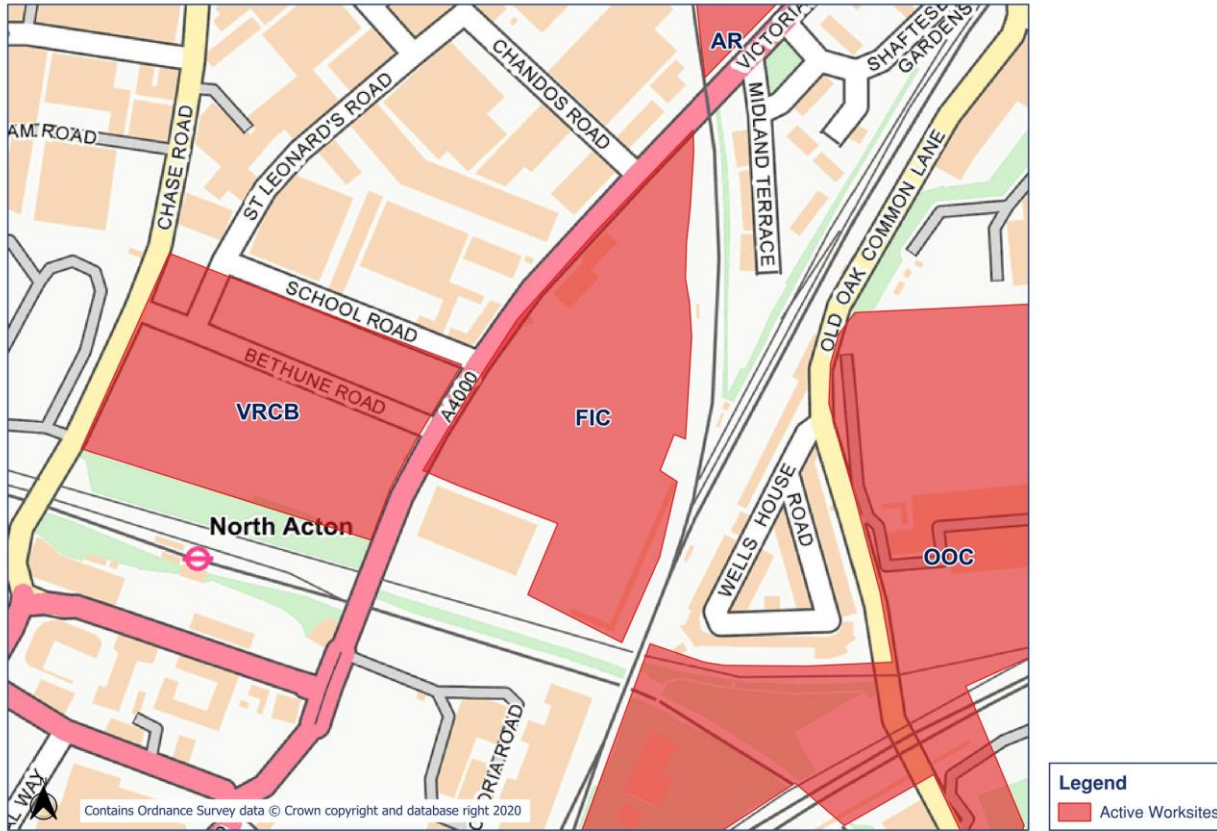


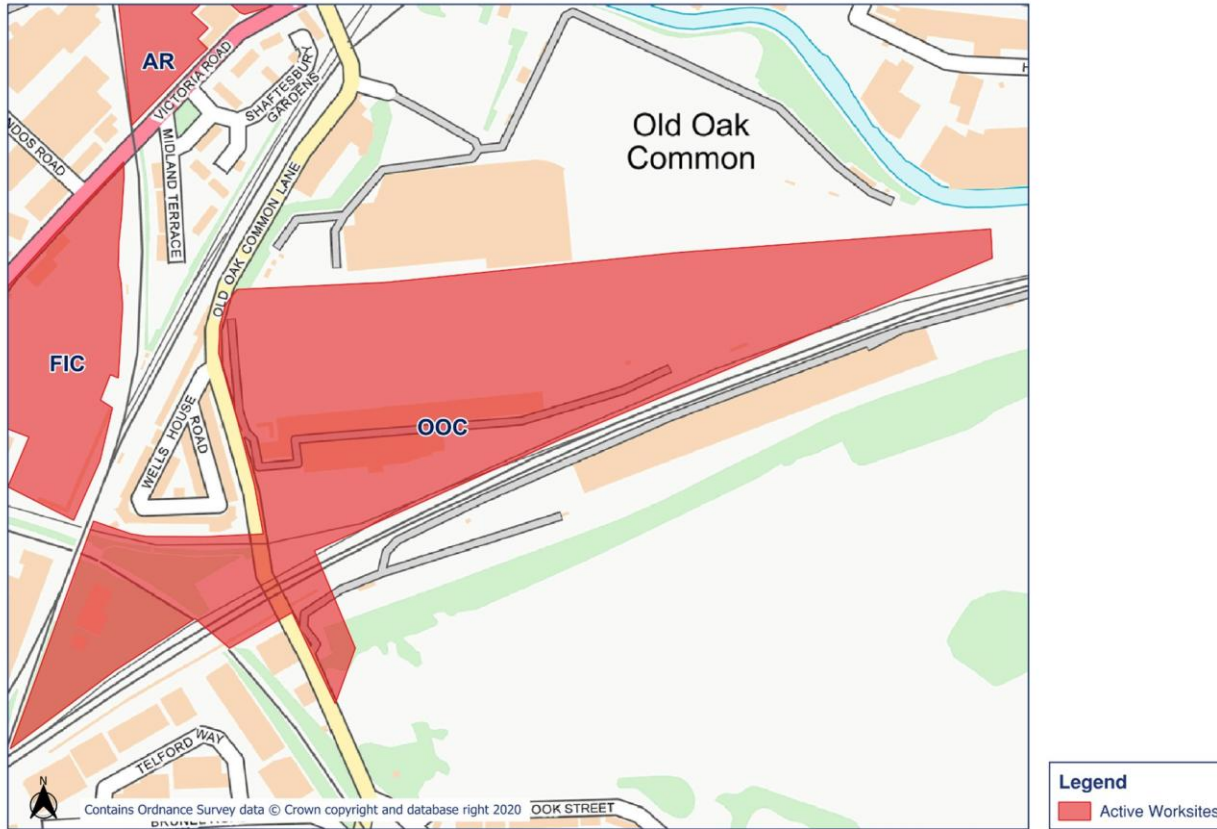




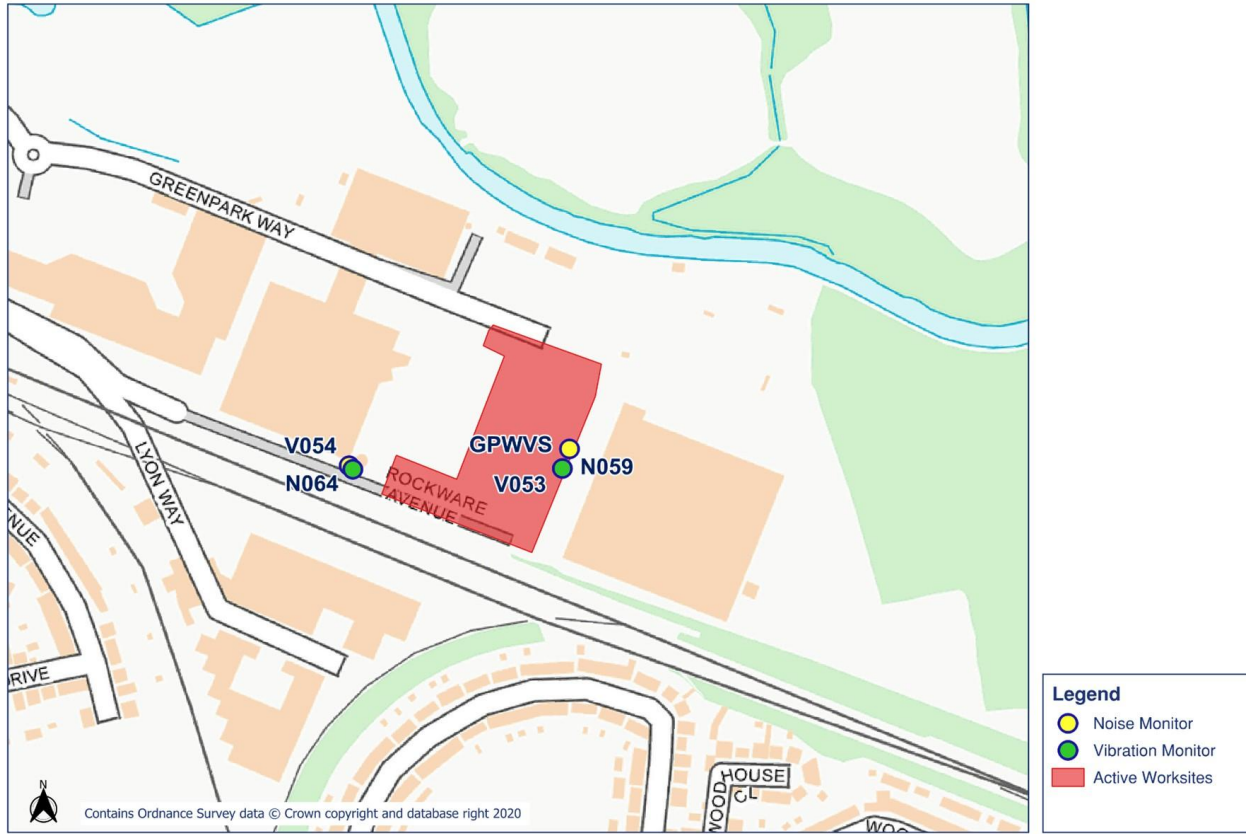




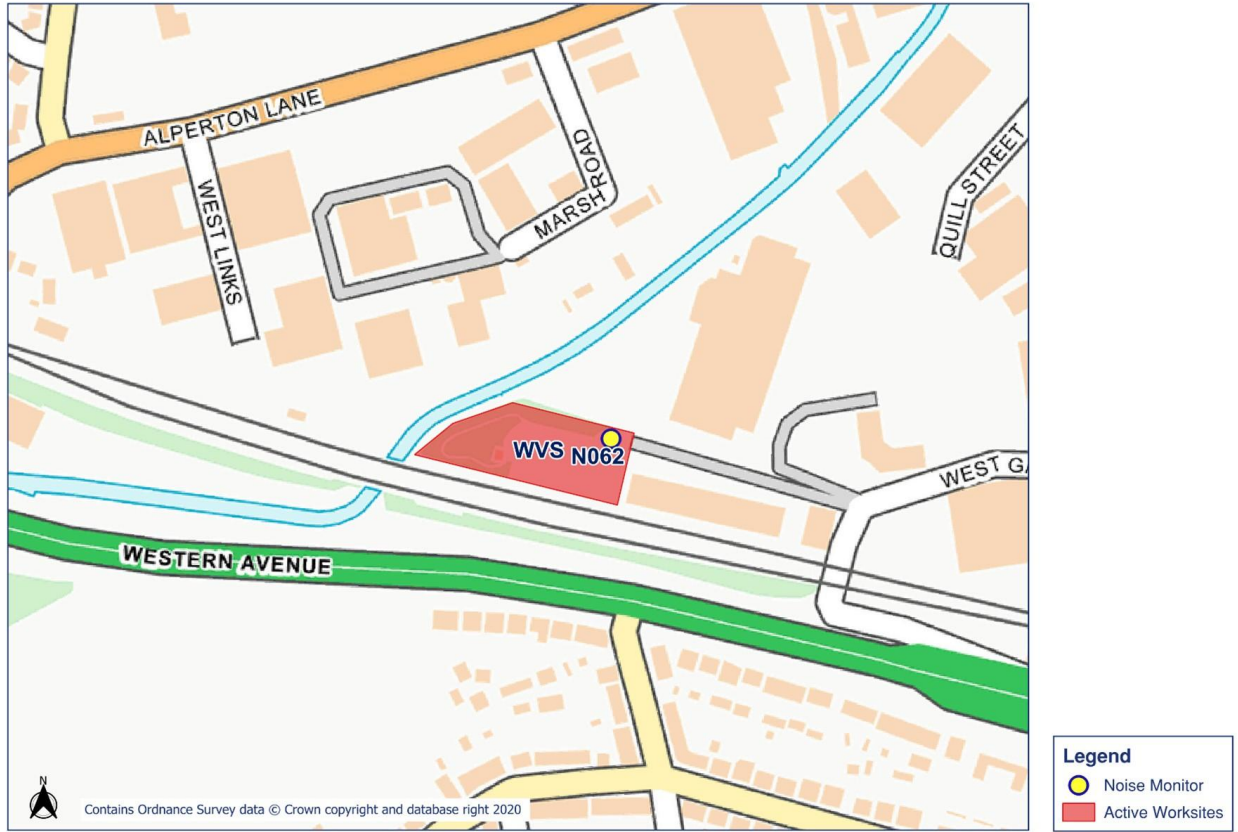




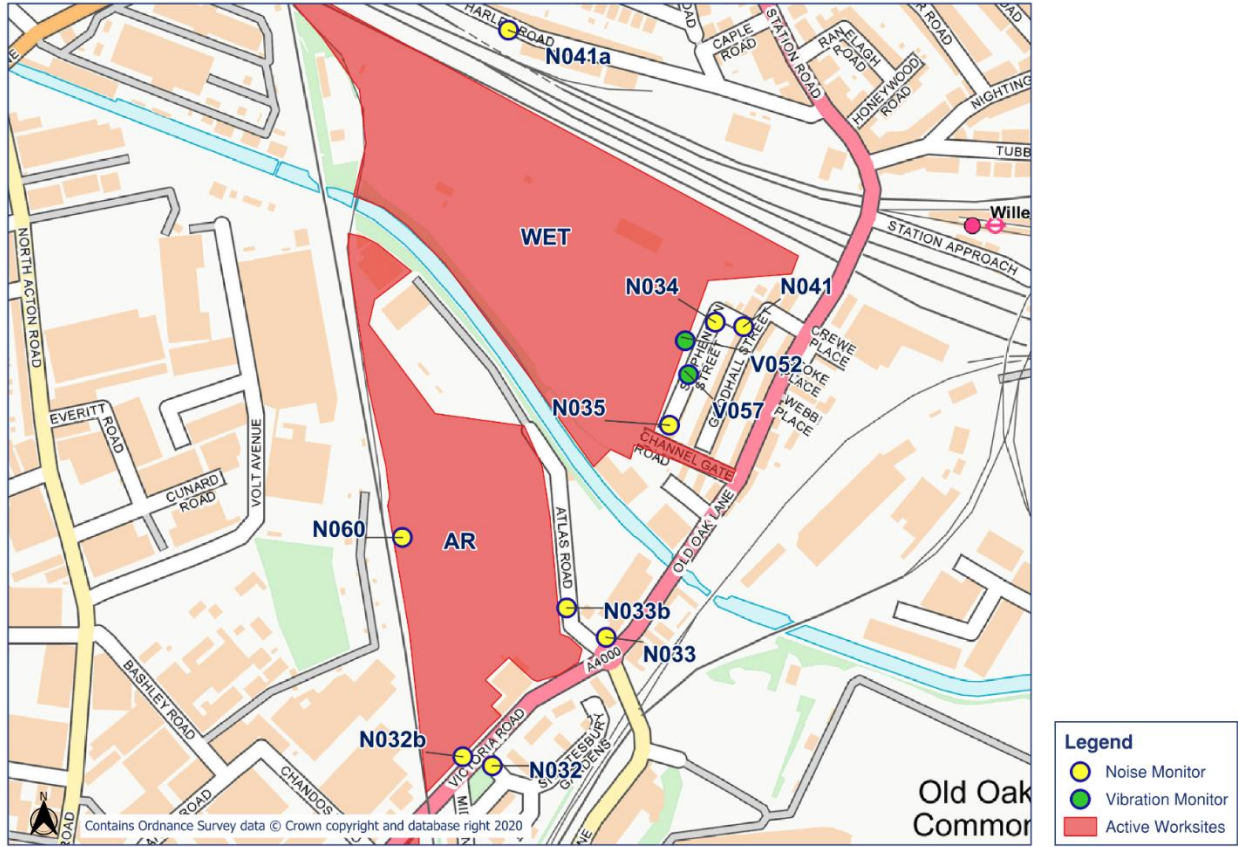
HS2 Noise and Vibration Monitoring Plan - 2



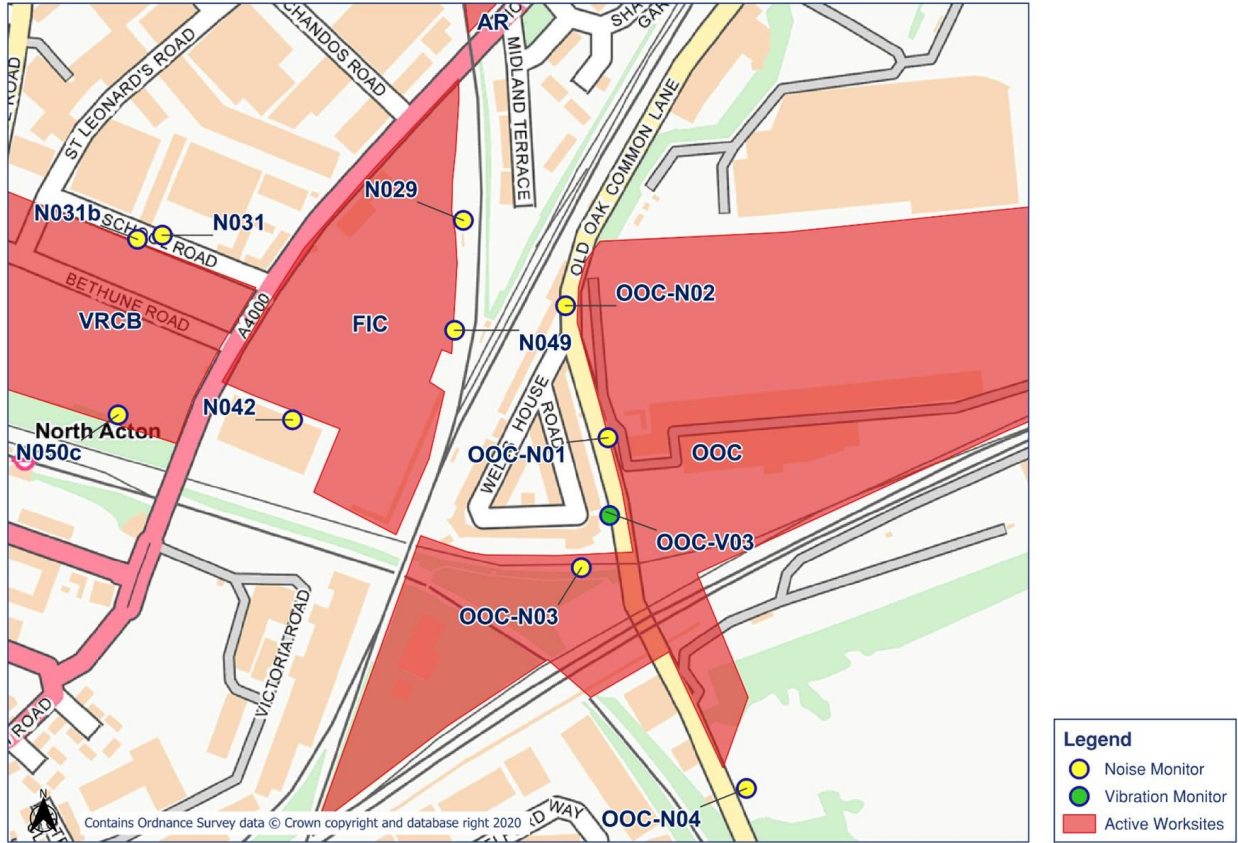
HS2 Noise and Vibration Monitoring Plan - 3



HS2 Noise and Vibration Monitoring Plan - 4



HS2 Noise and Vibration Monitoring Plan - 5



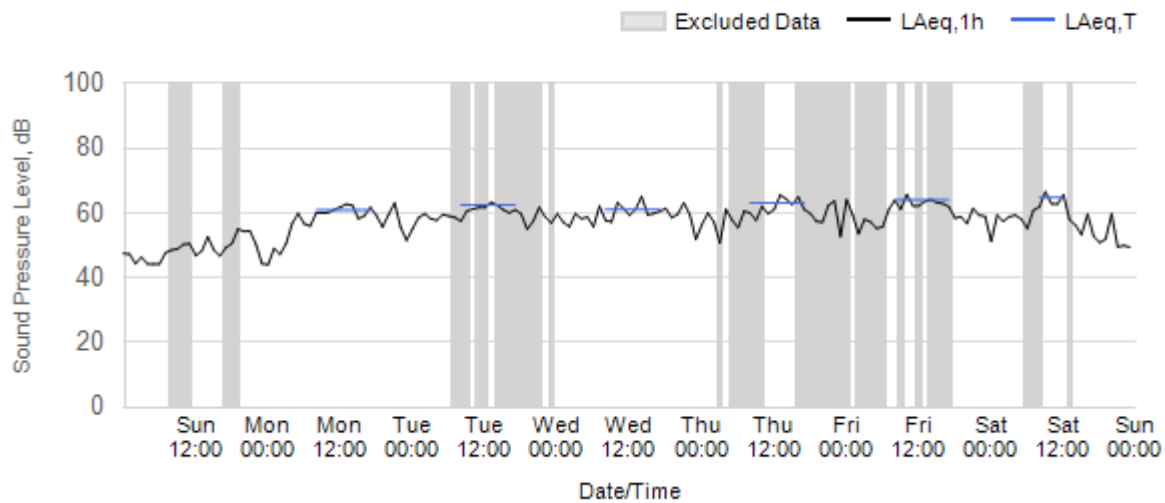
Appendix C Data

Noise

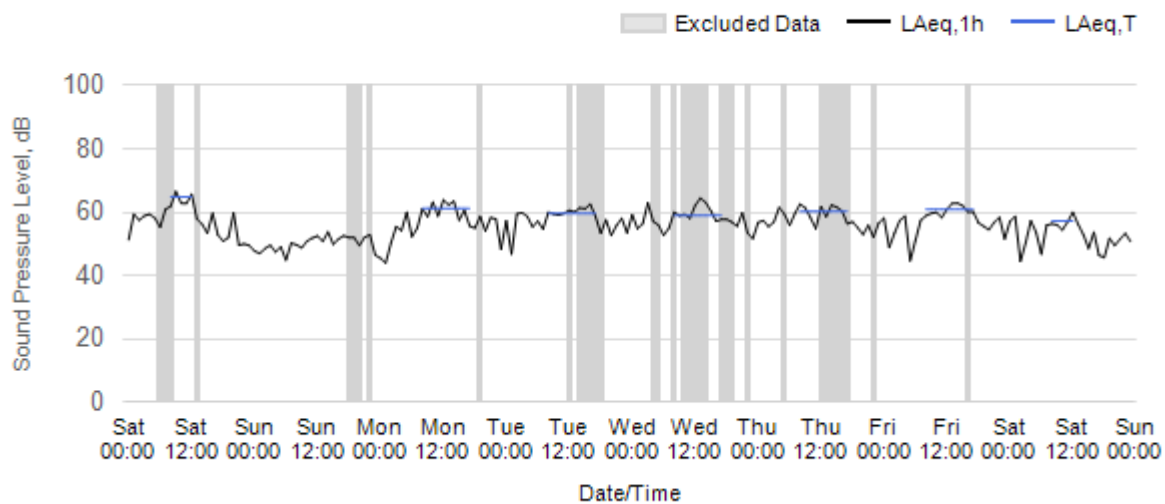
The following graphs show the hourly measured ambient noise level LAeq,1h and, where relevant, the averaged noise level LAeq,T values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part 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.

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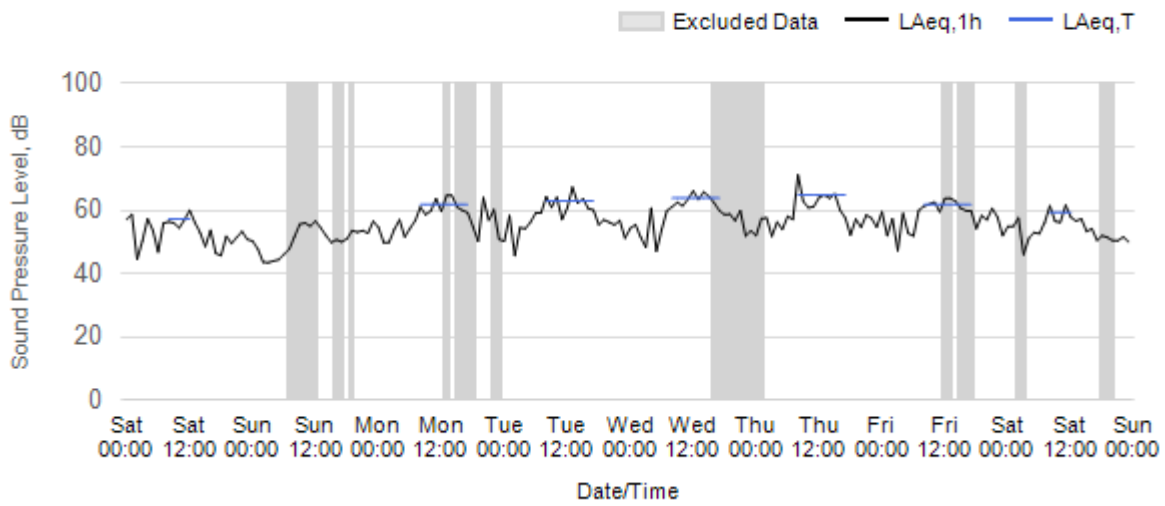
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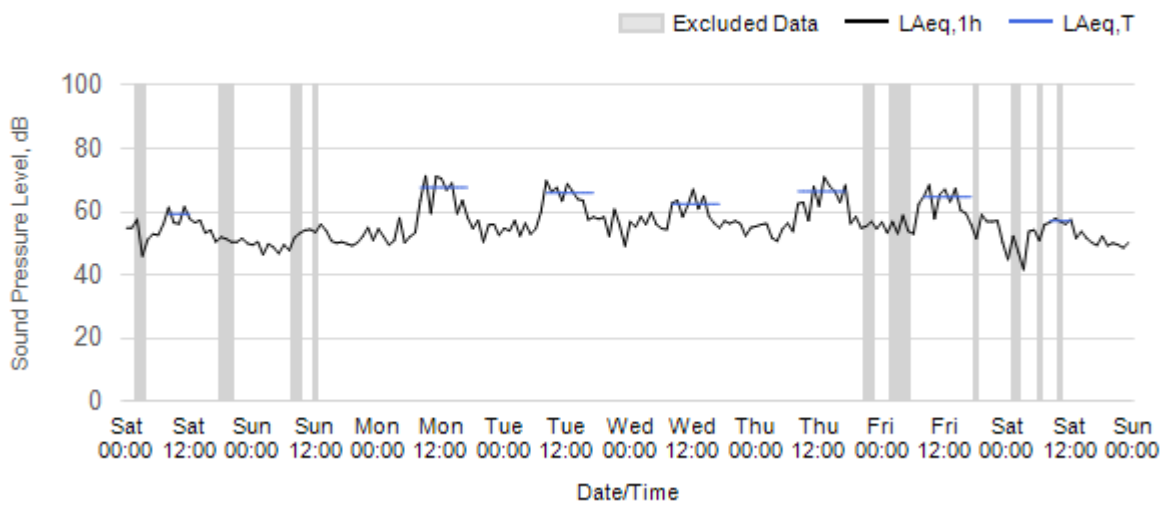
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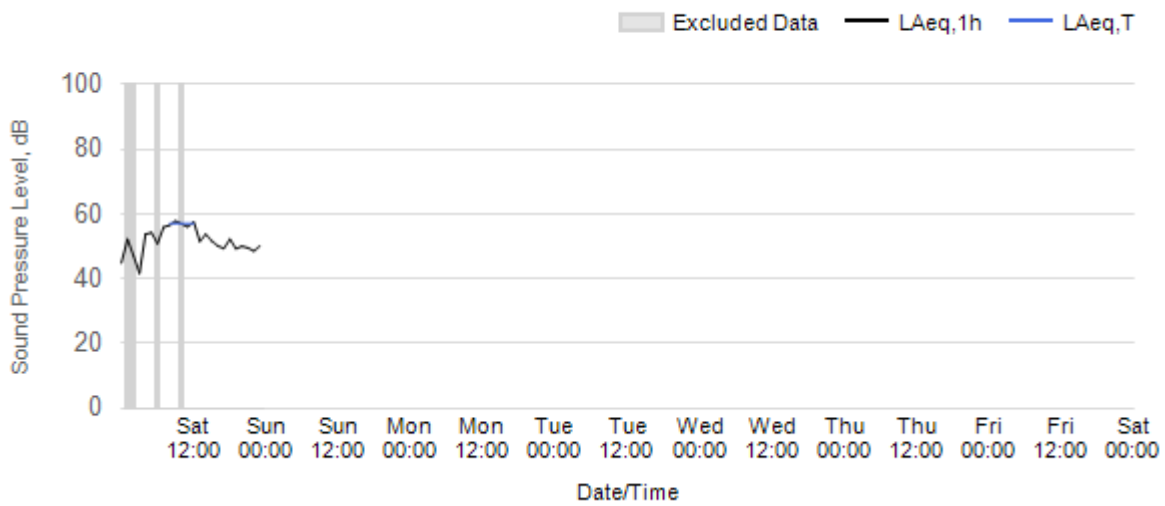
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Worksite: FIC Monitoring Ref: N049 22 February 2026 to 28 February 2026

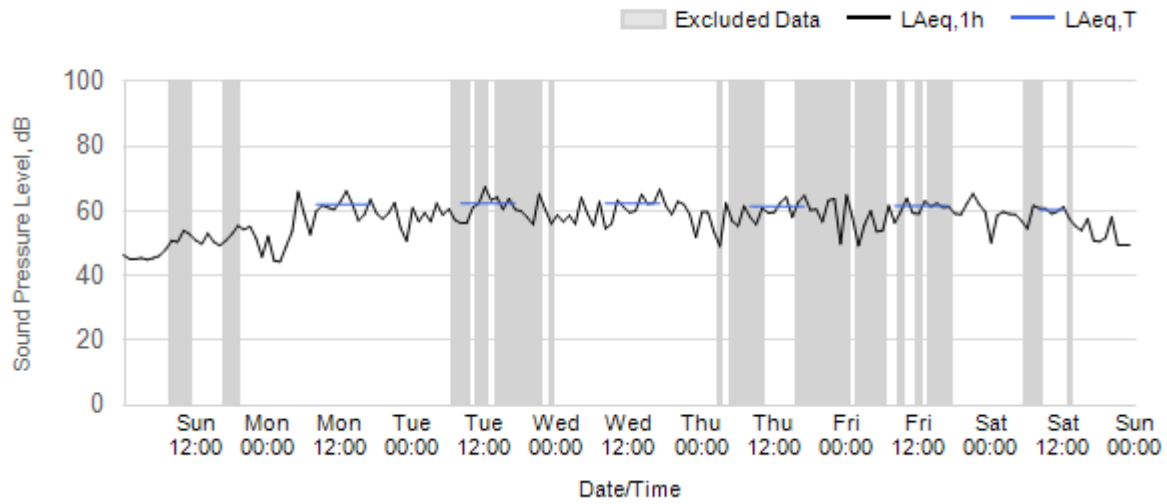


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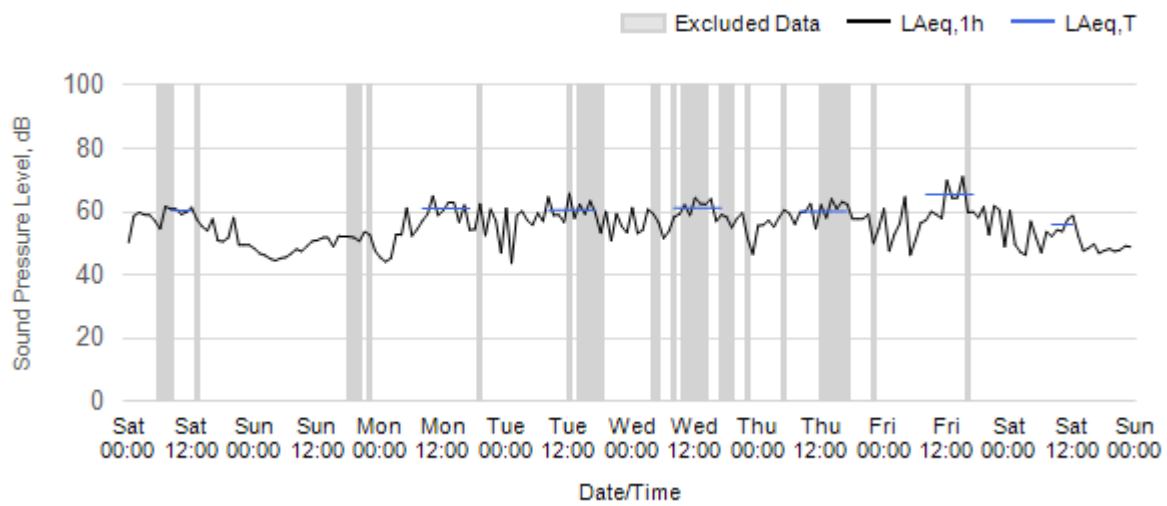


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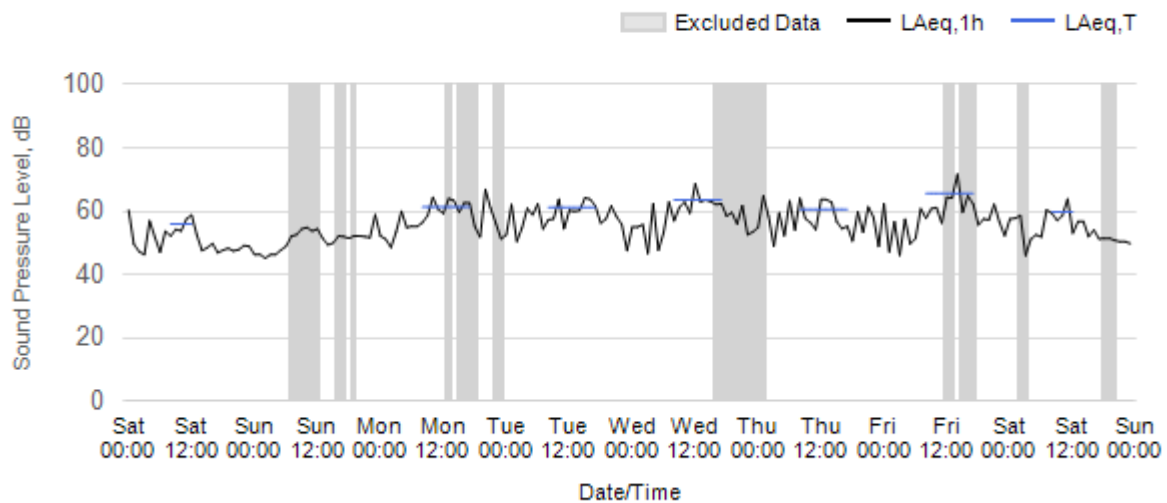
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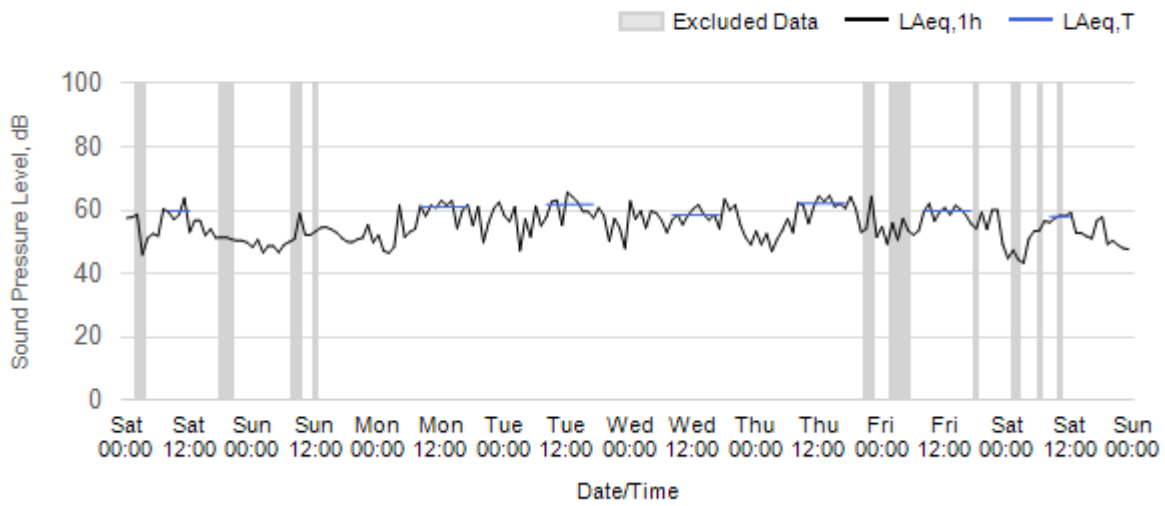
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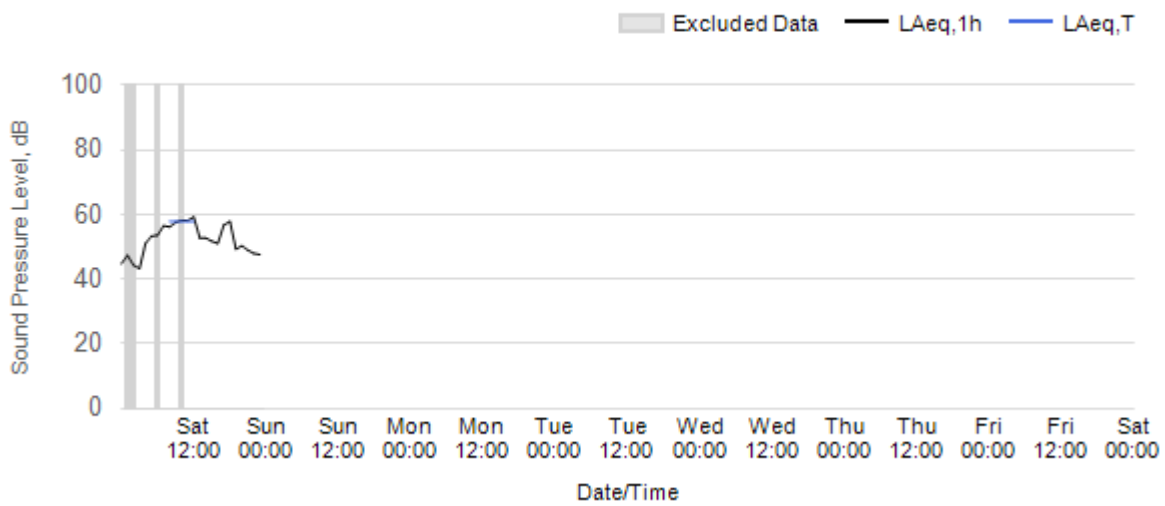
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Worksite: FIC Monitoring Ref: N029 22 February 2026 to 28 February 2026

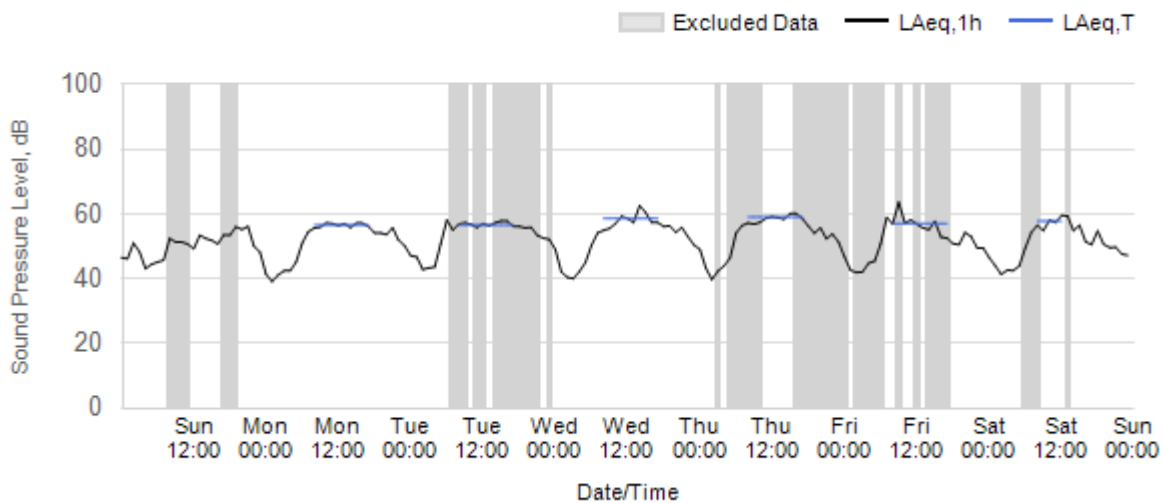


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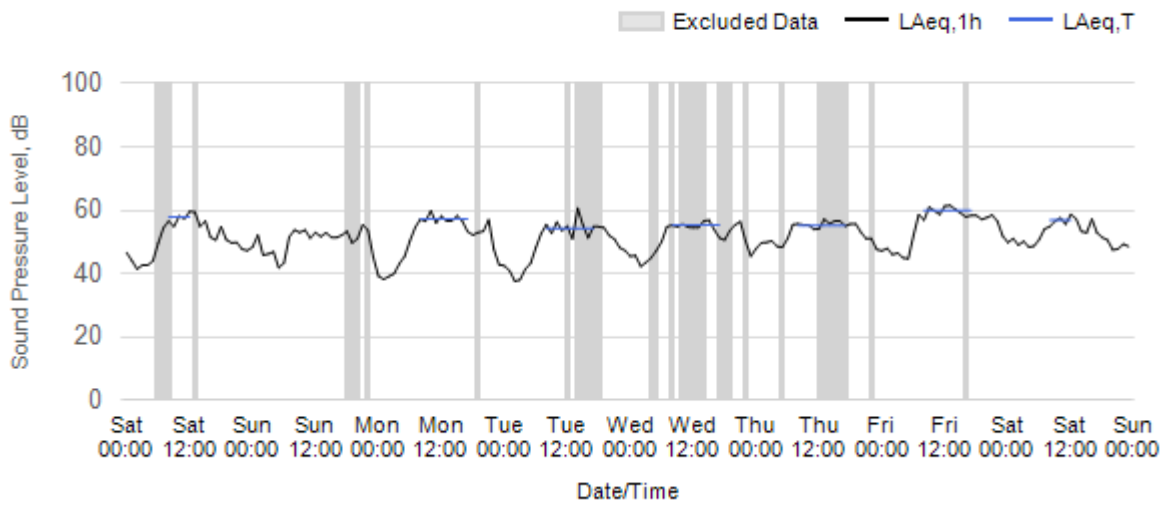


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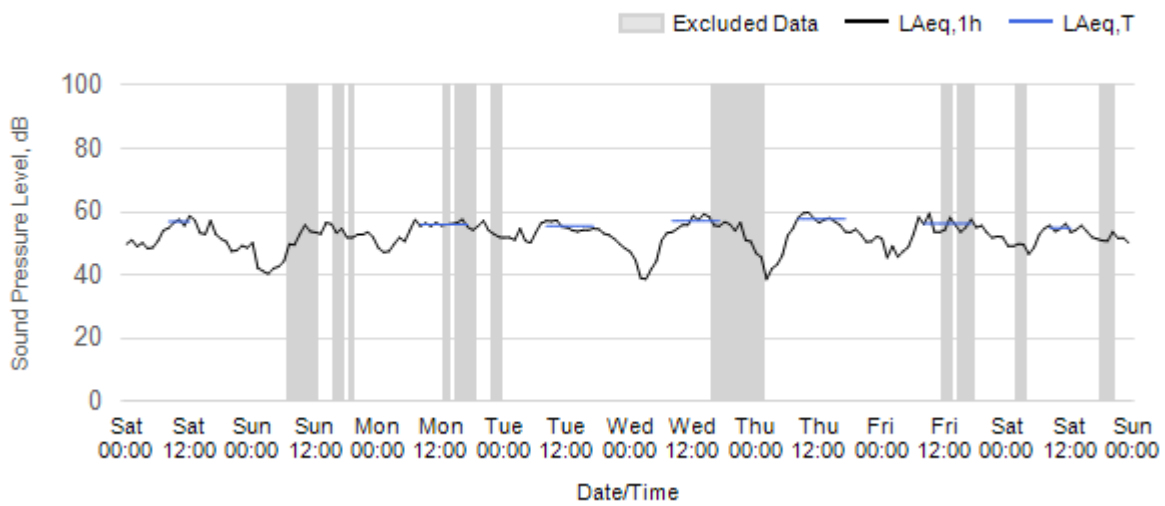
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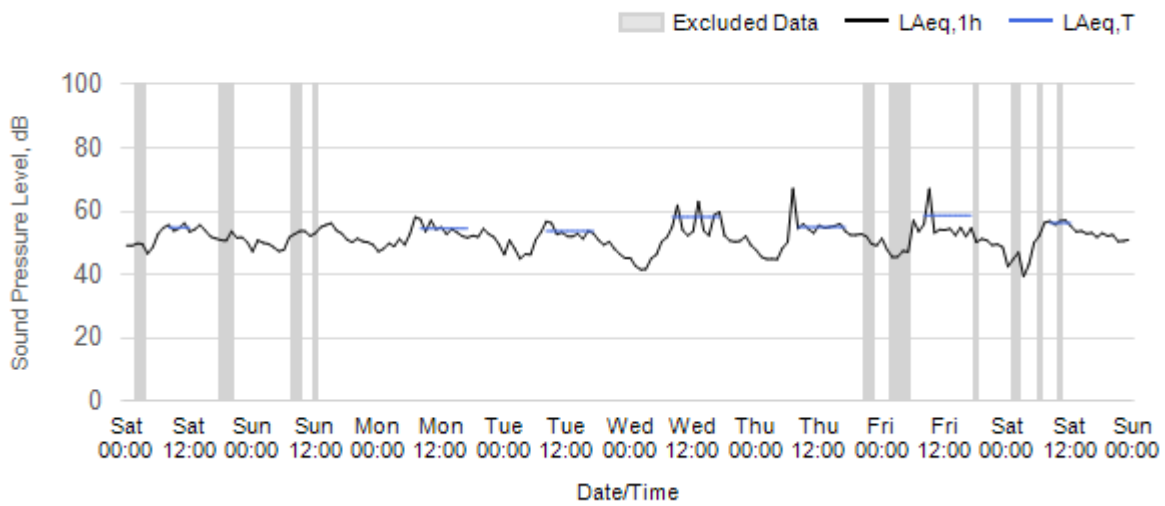
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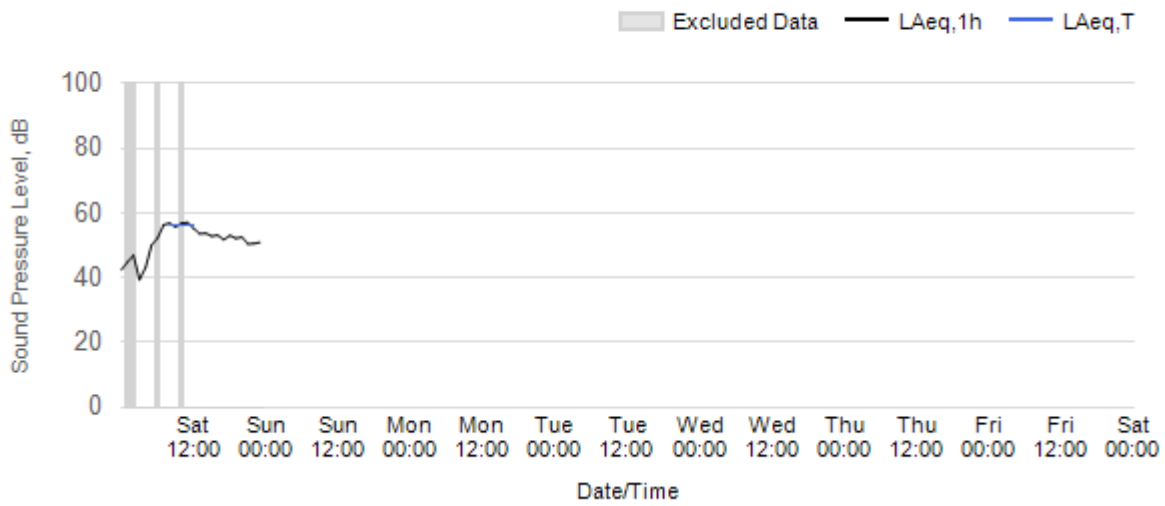
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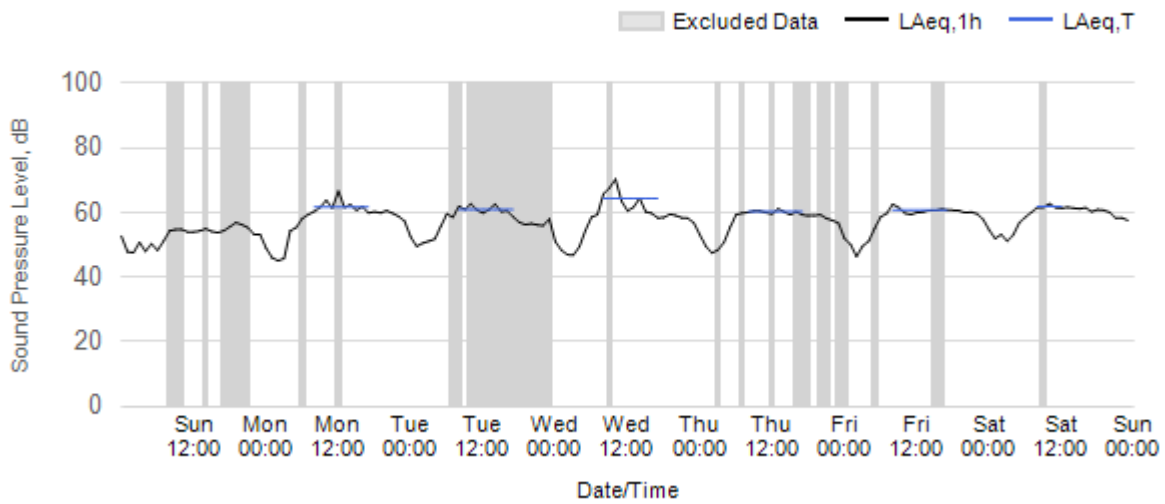


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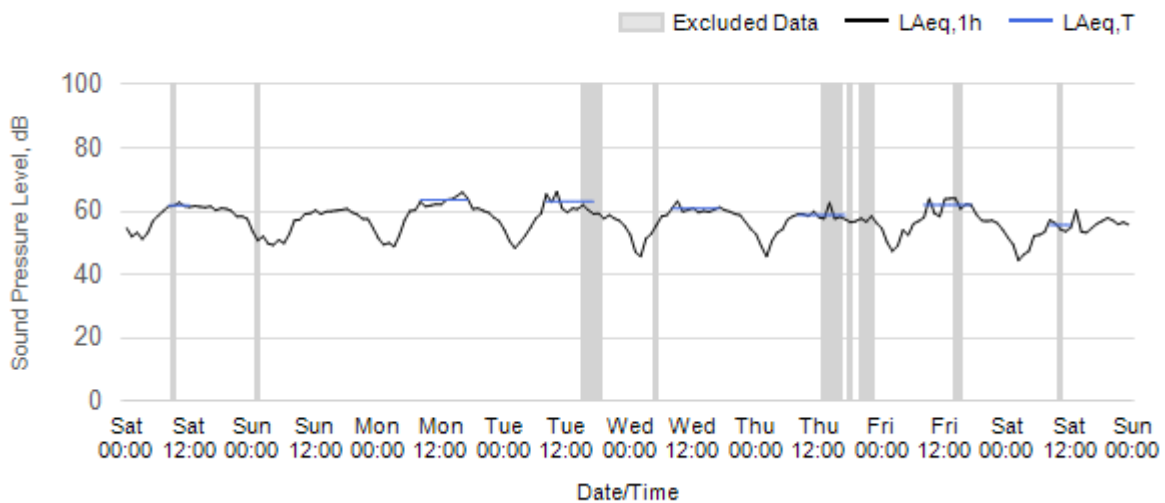


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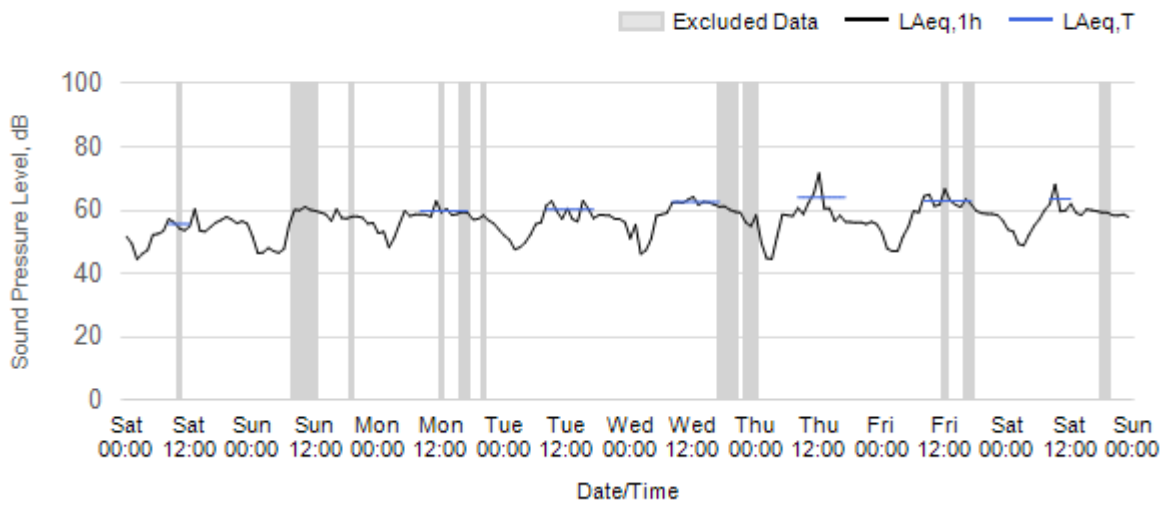
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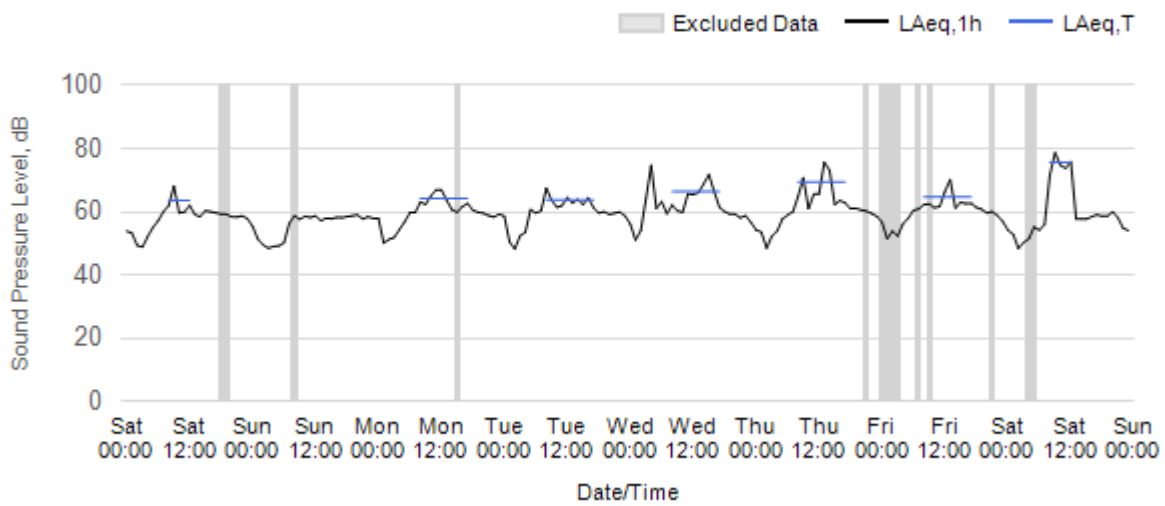
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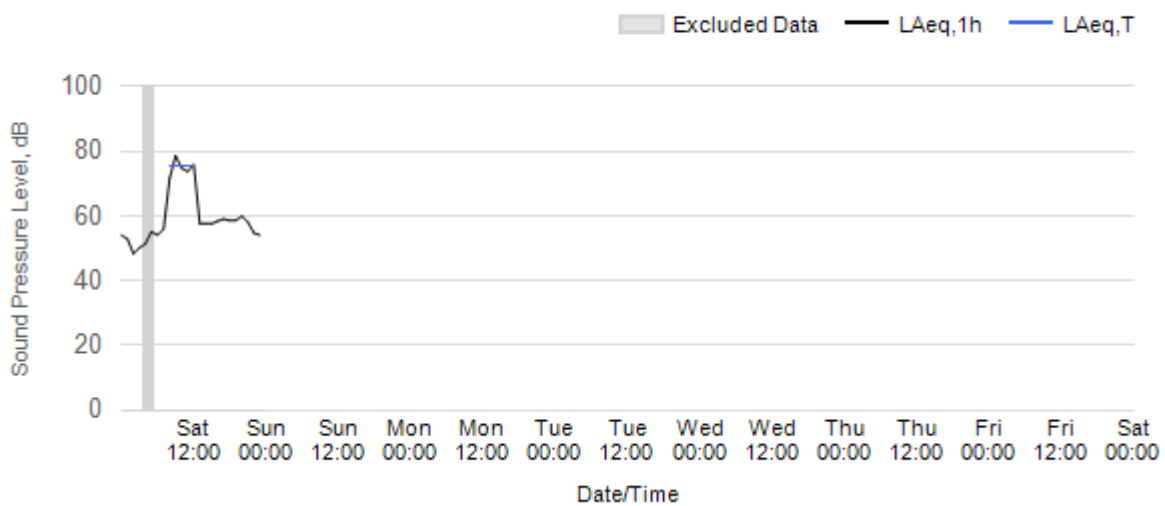
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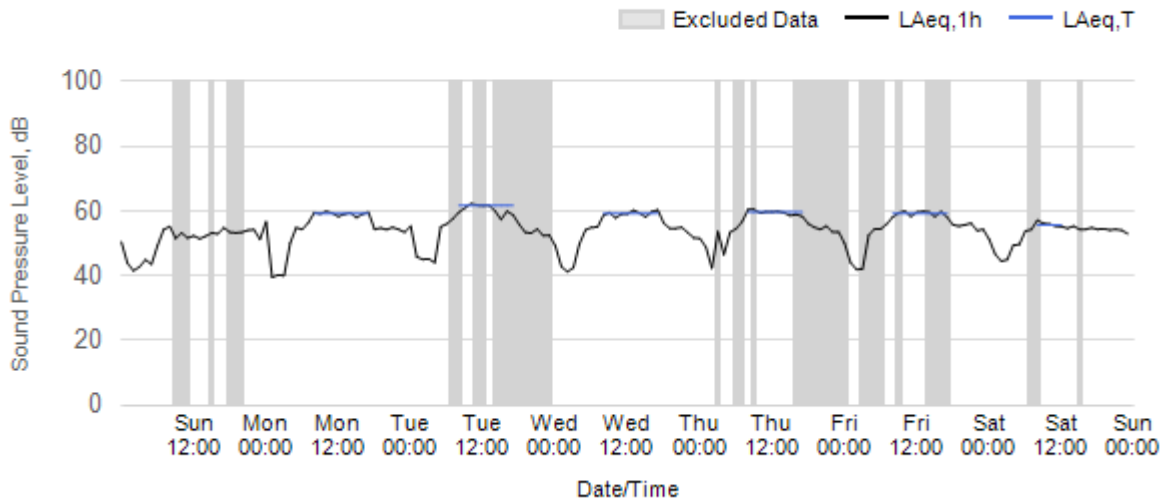


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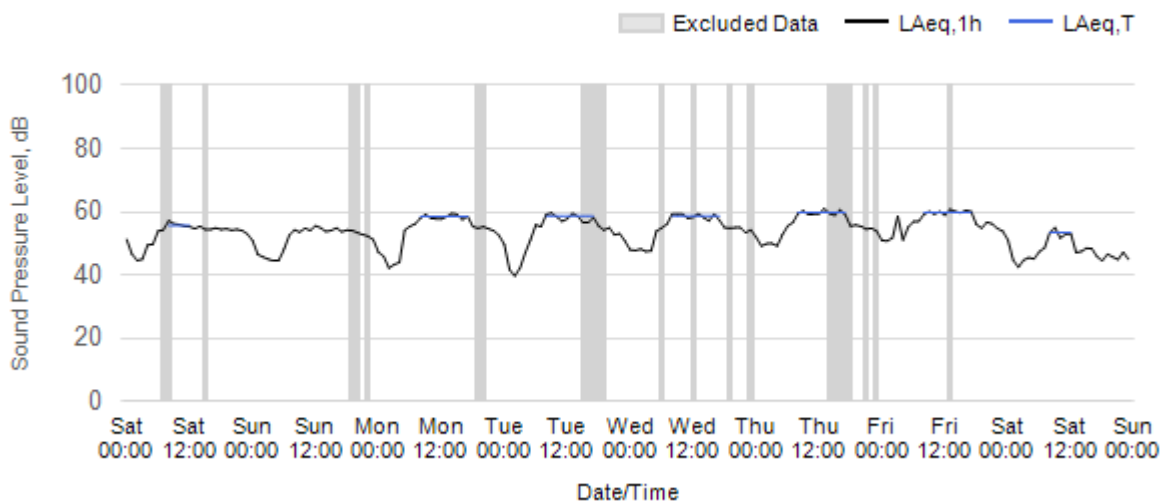


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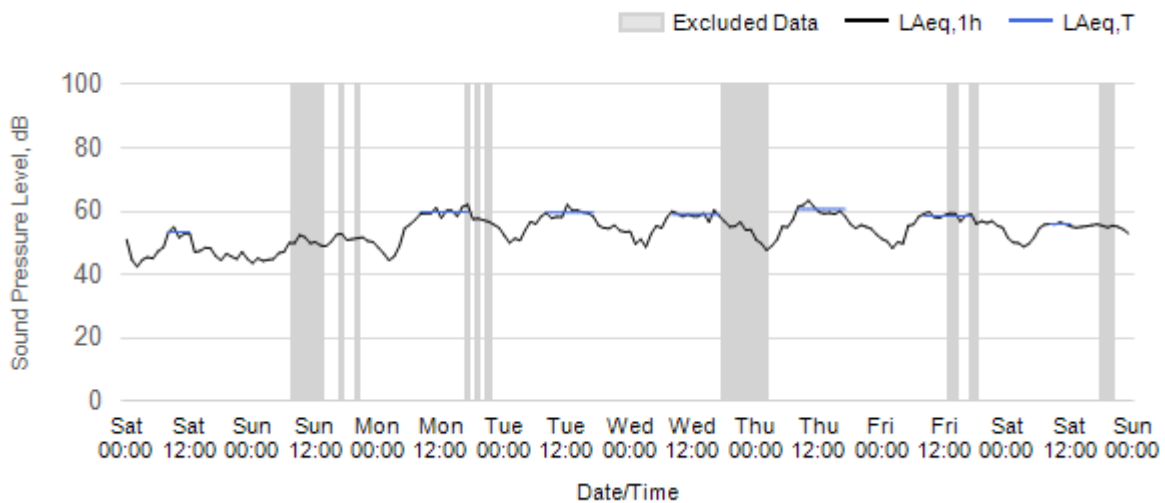
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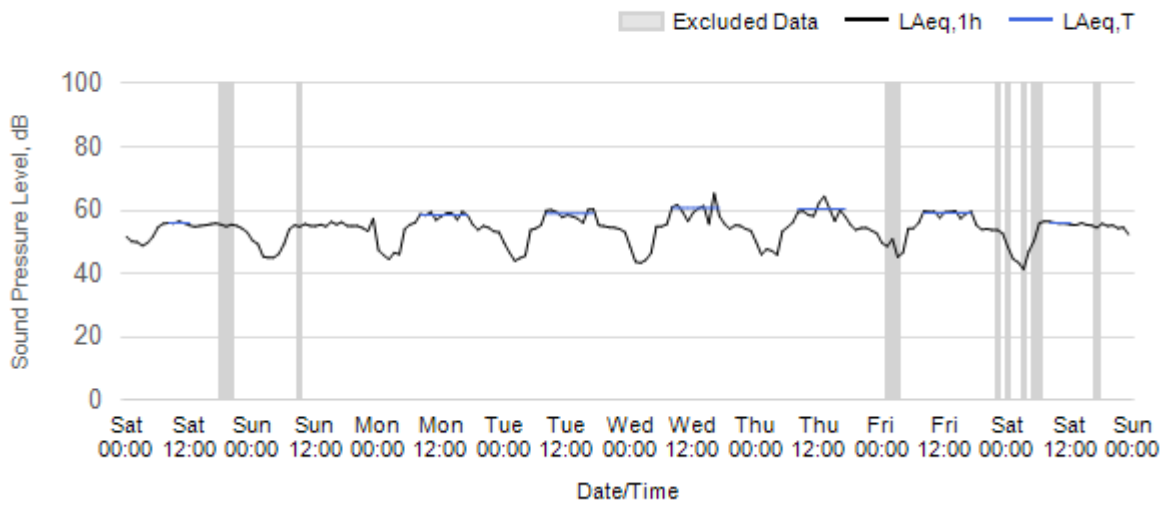
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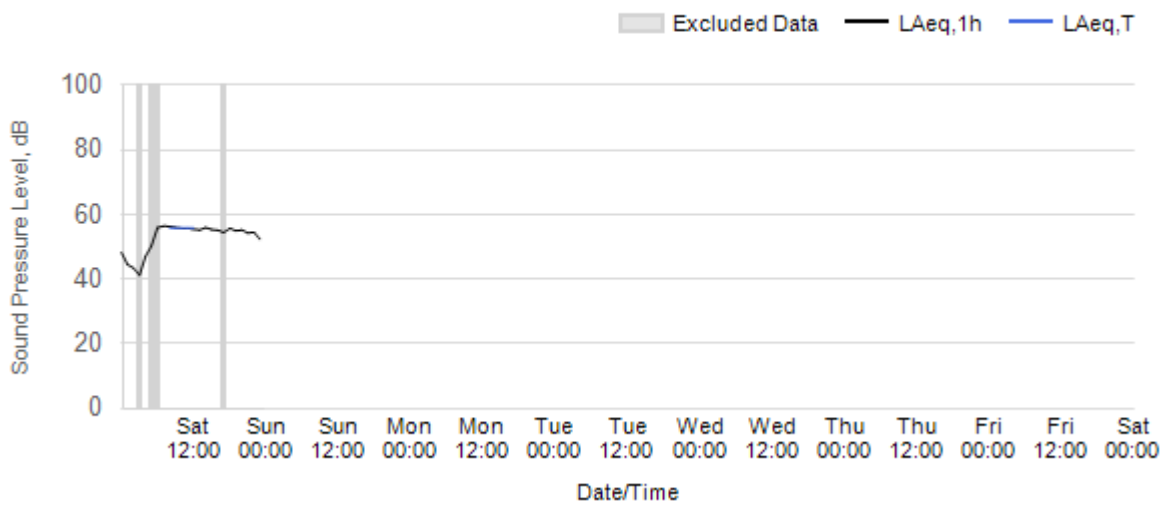
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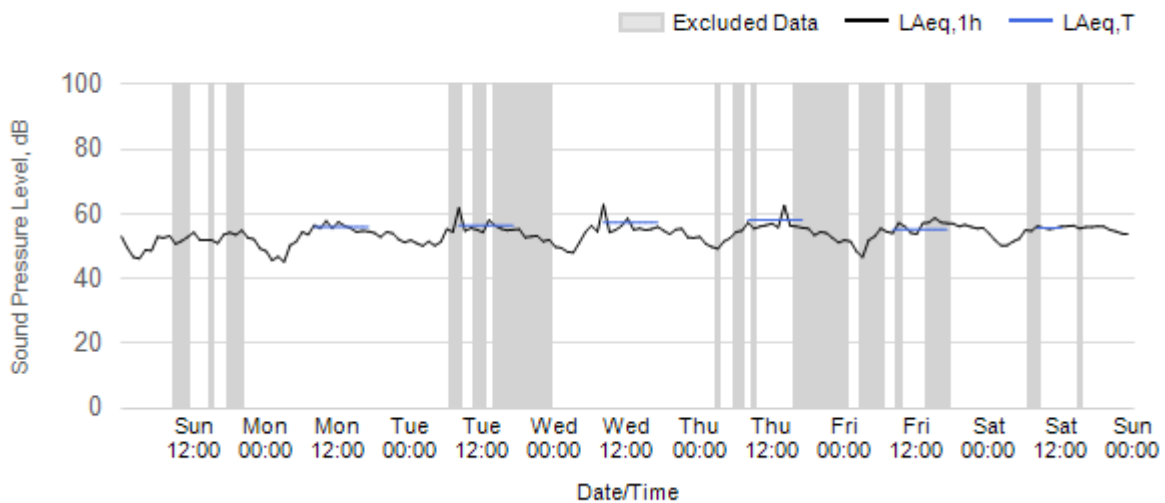


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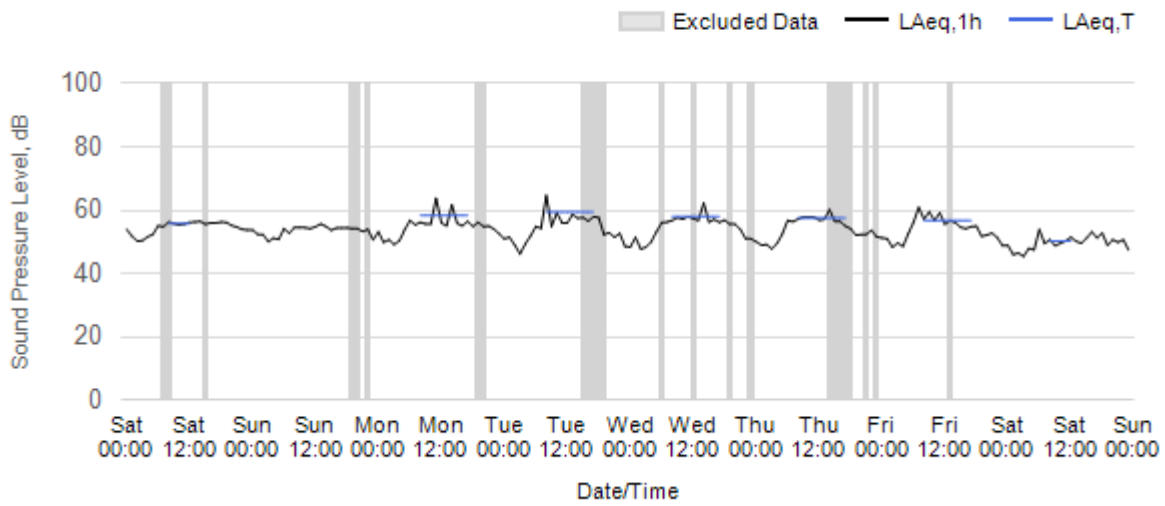


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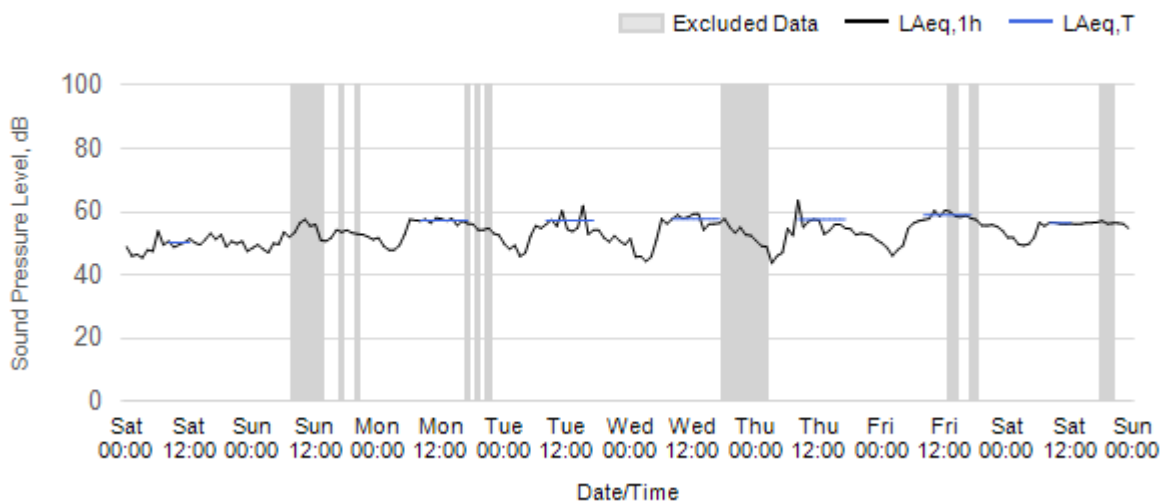
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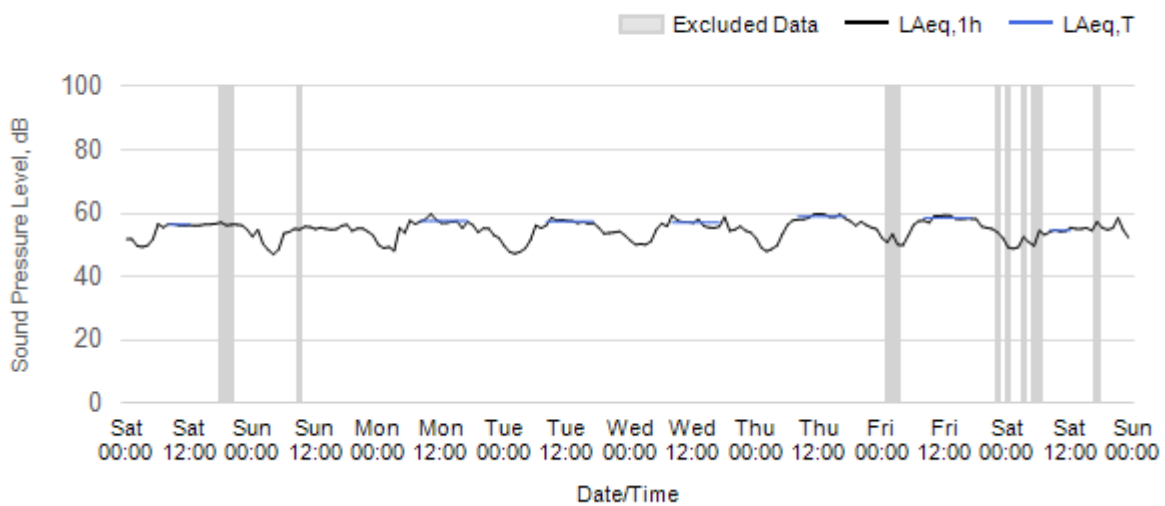
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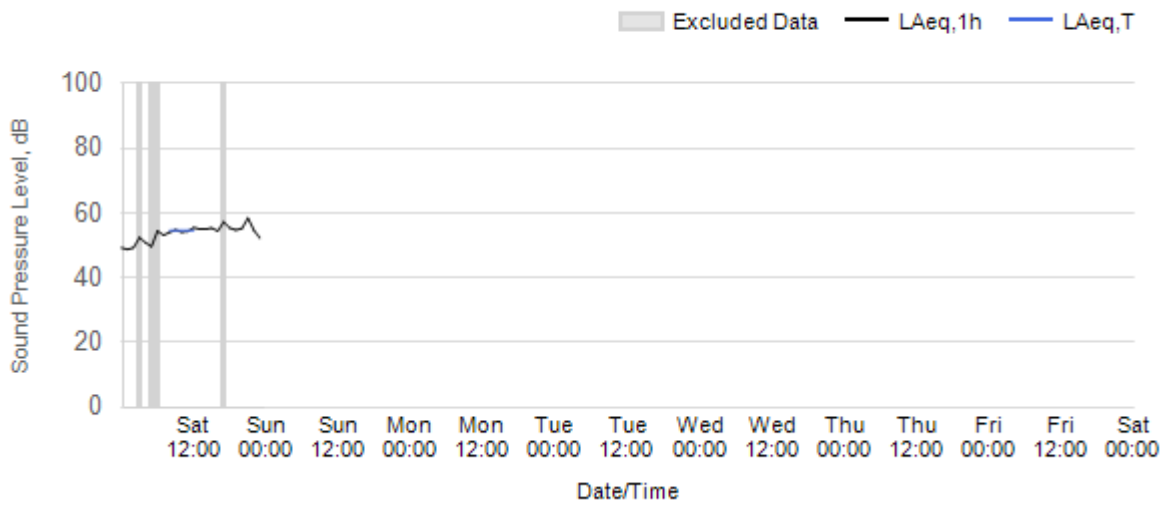
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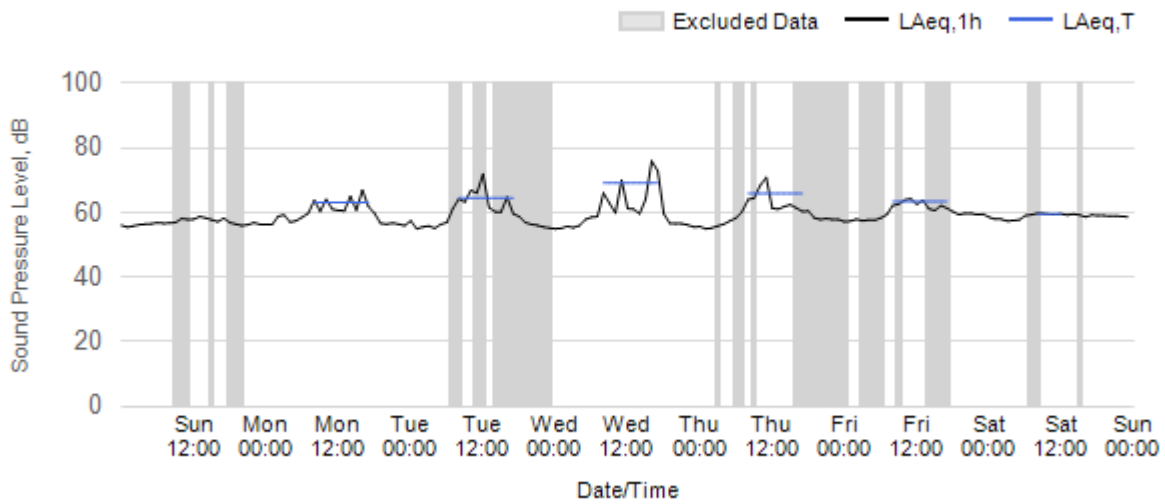


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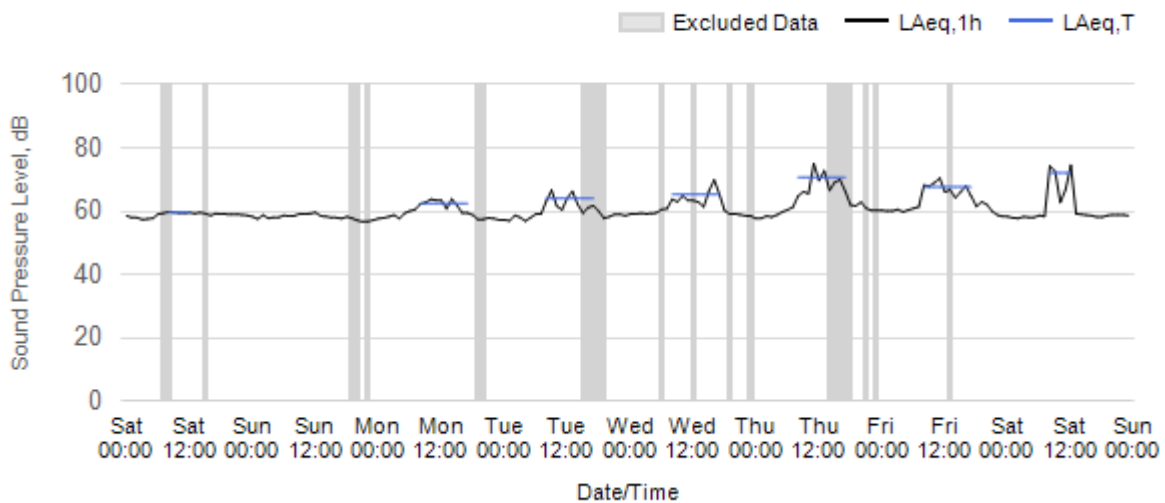


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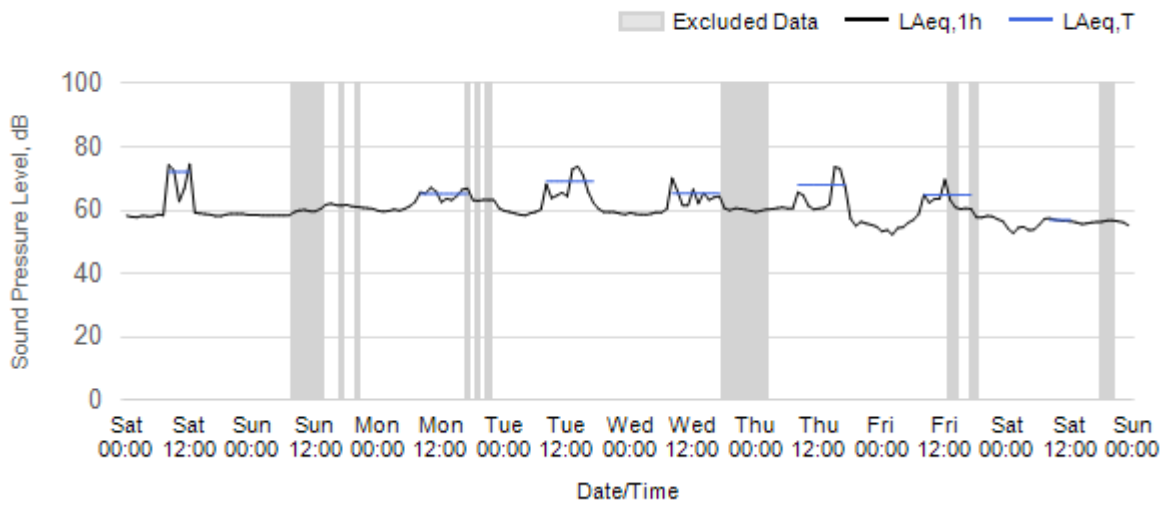
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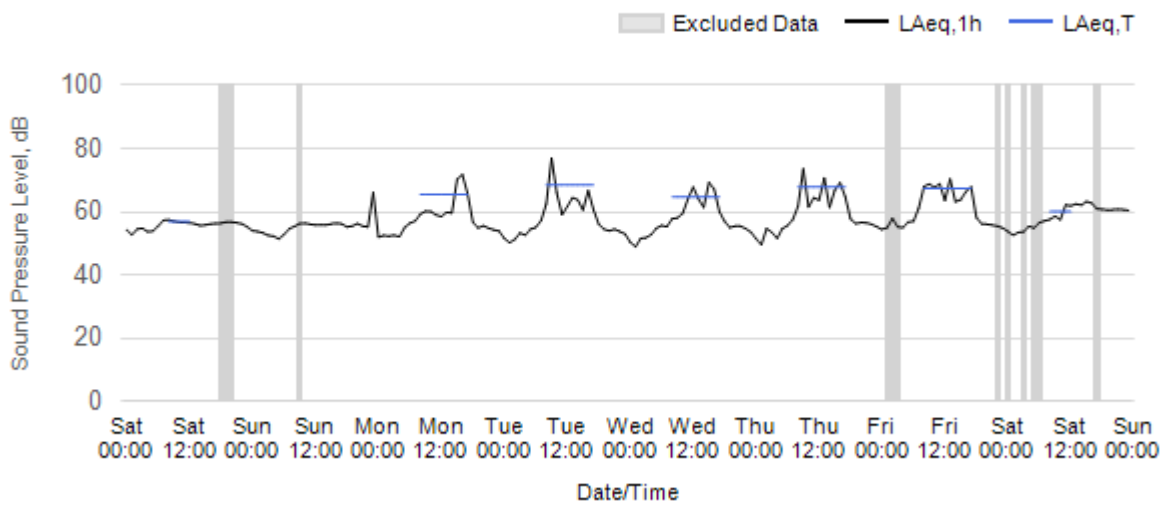
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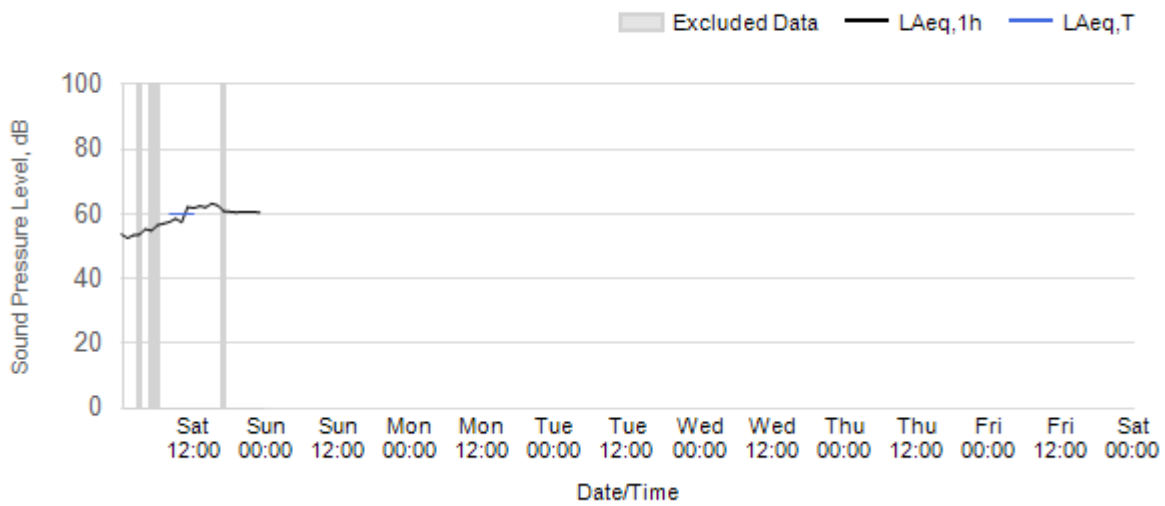
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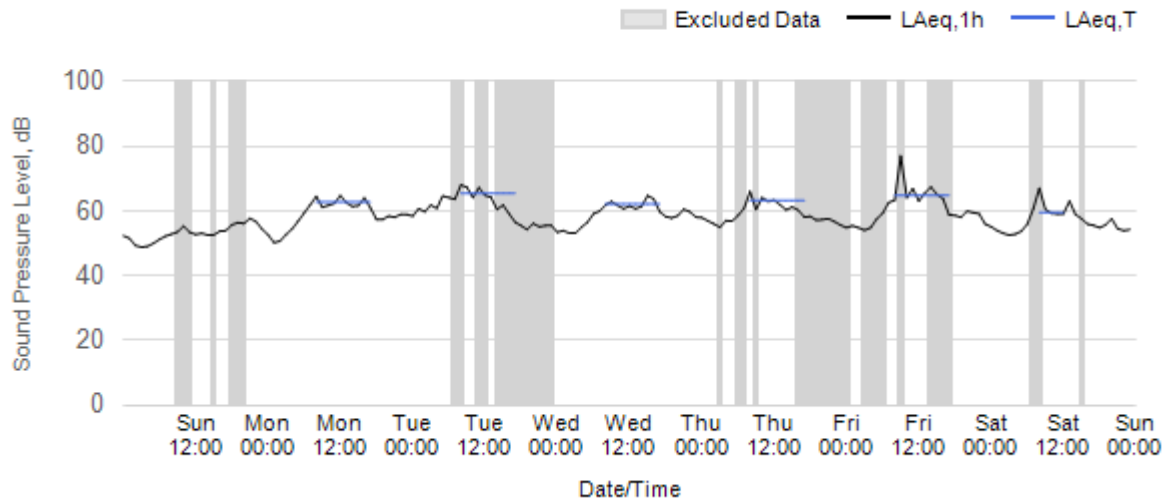


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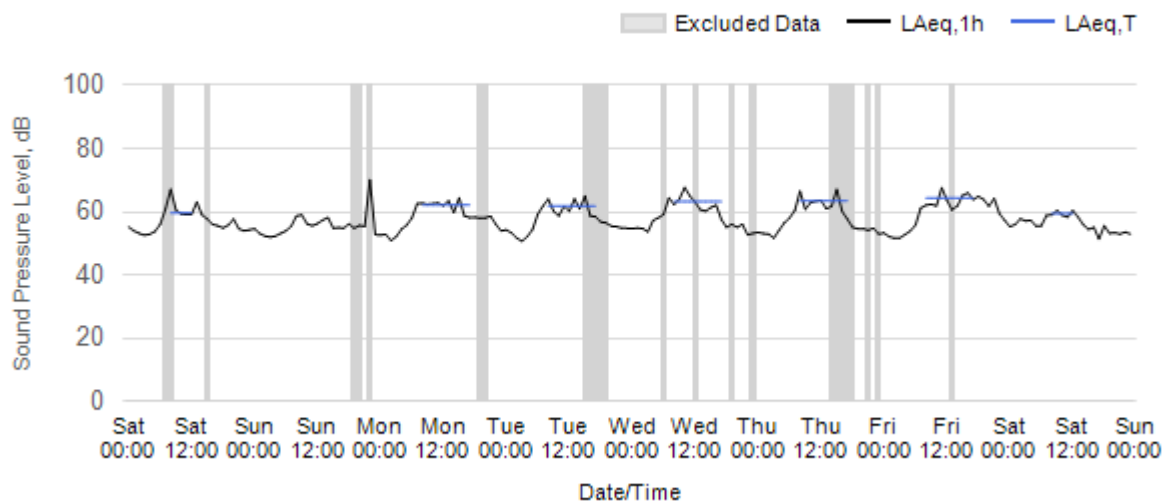


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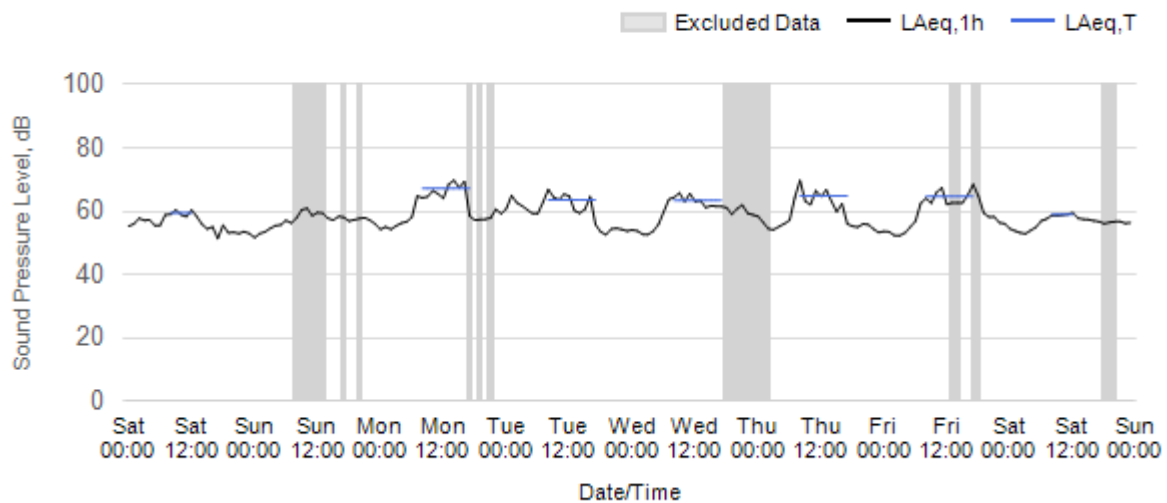
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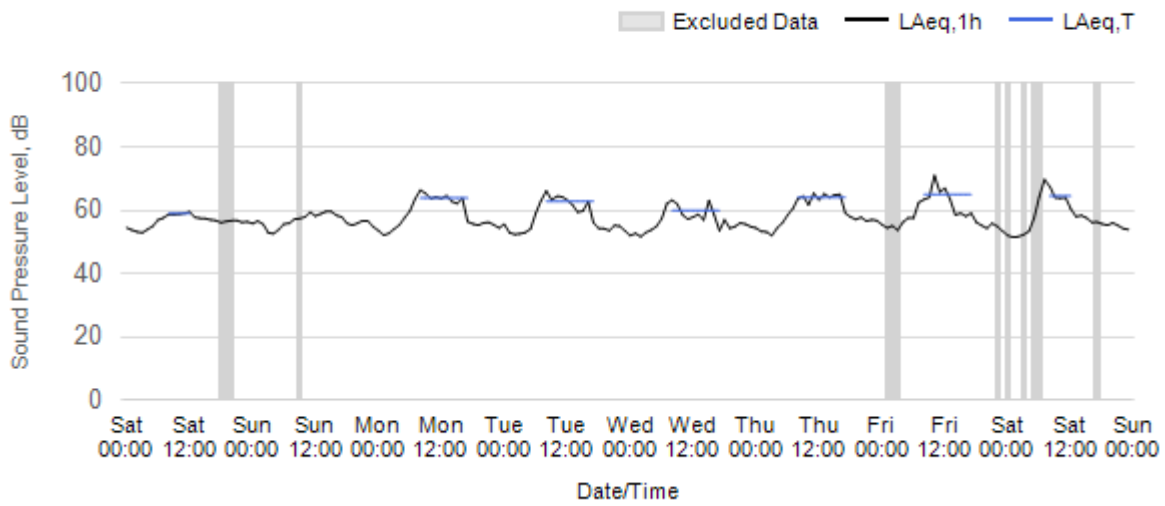
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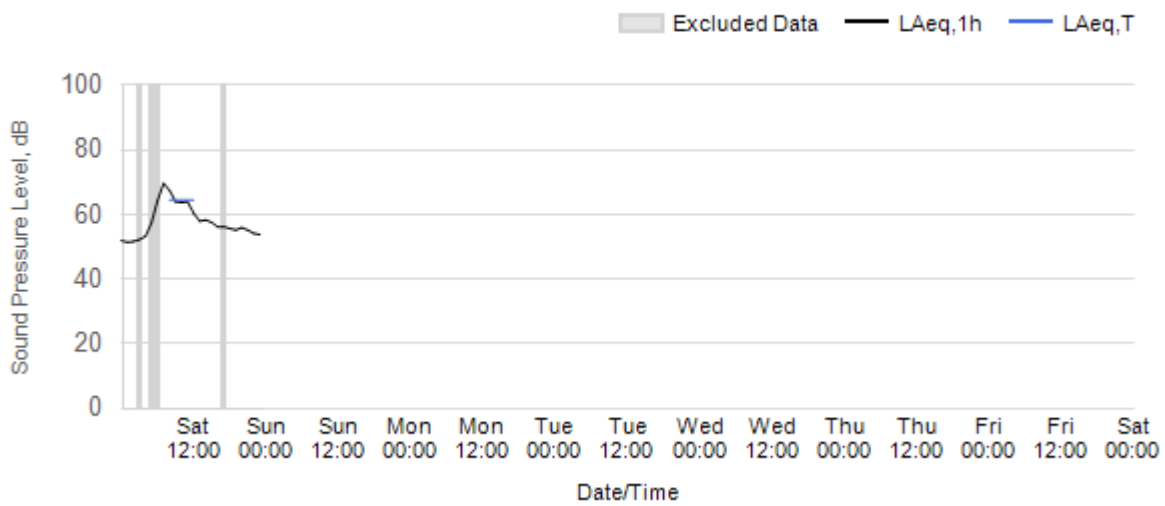
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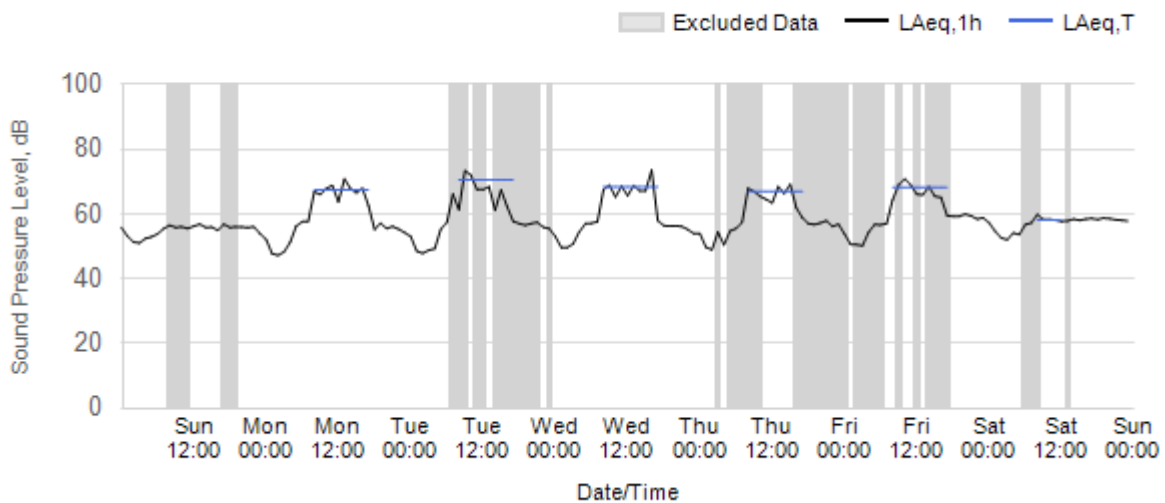


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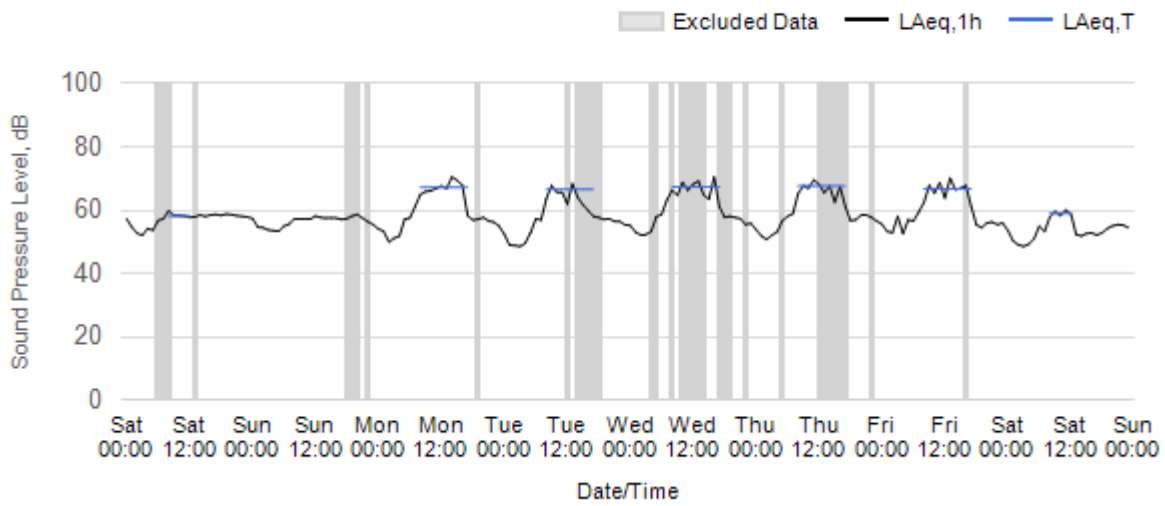


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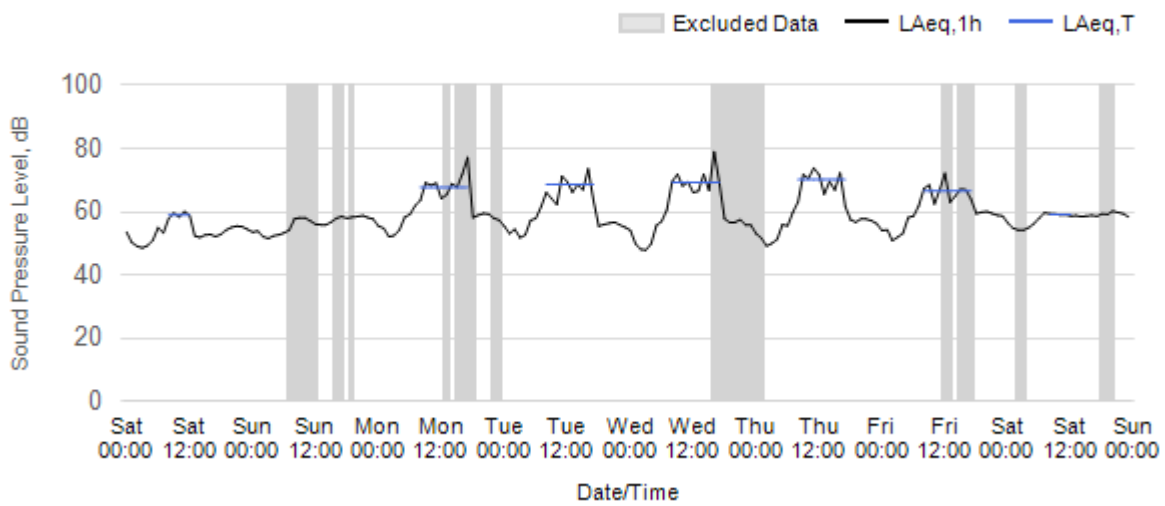
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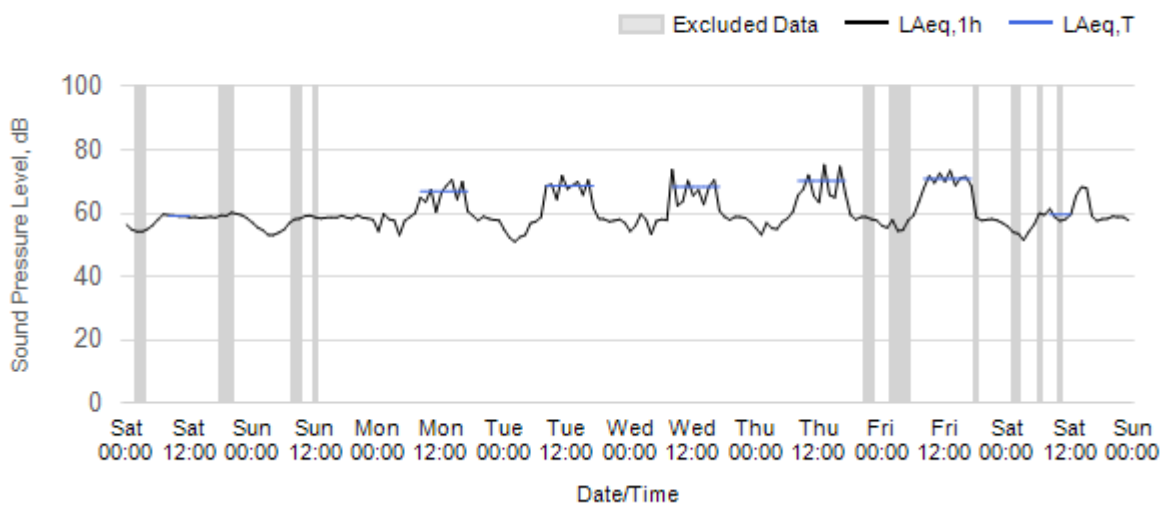
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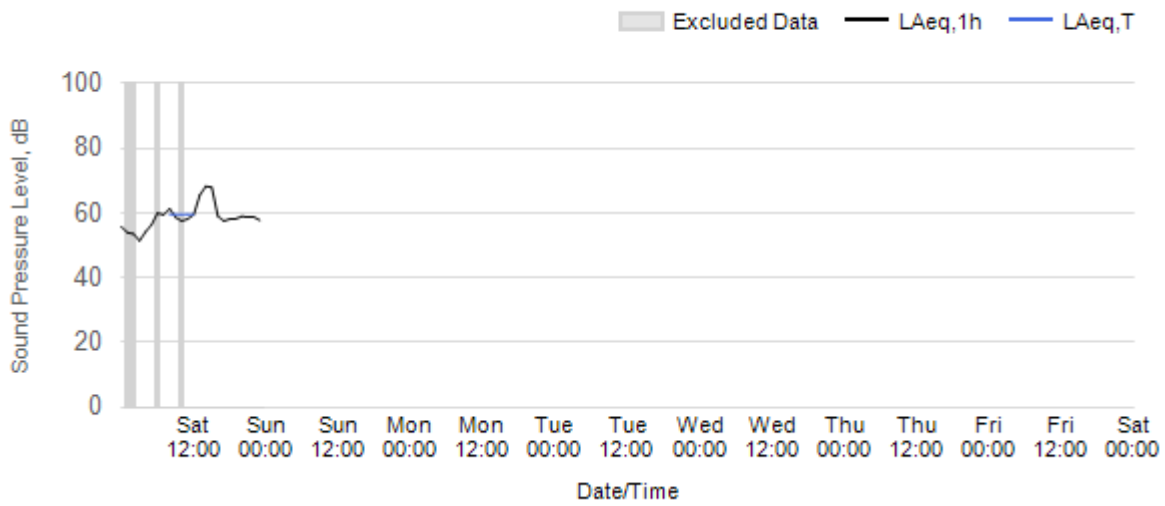
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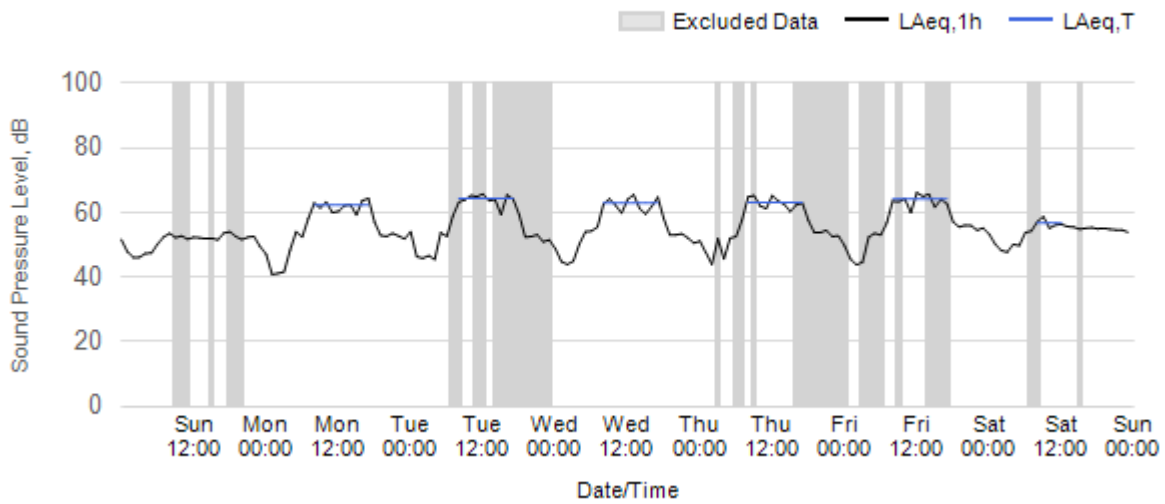


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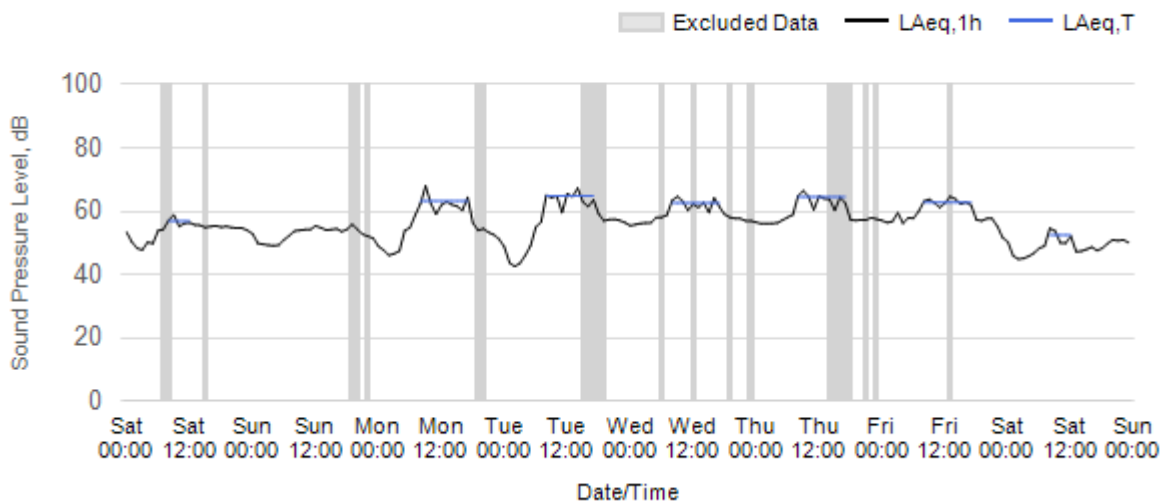


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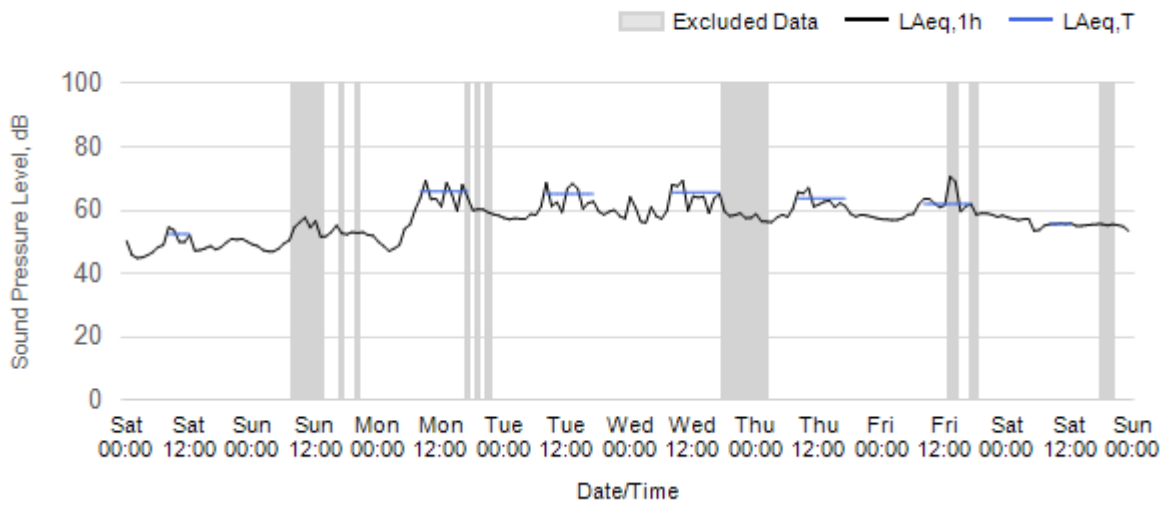
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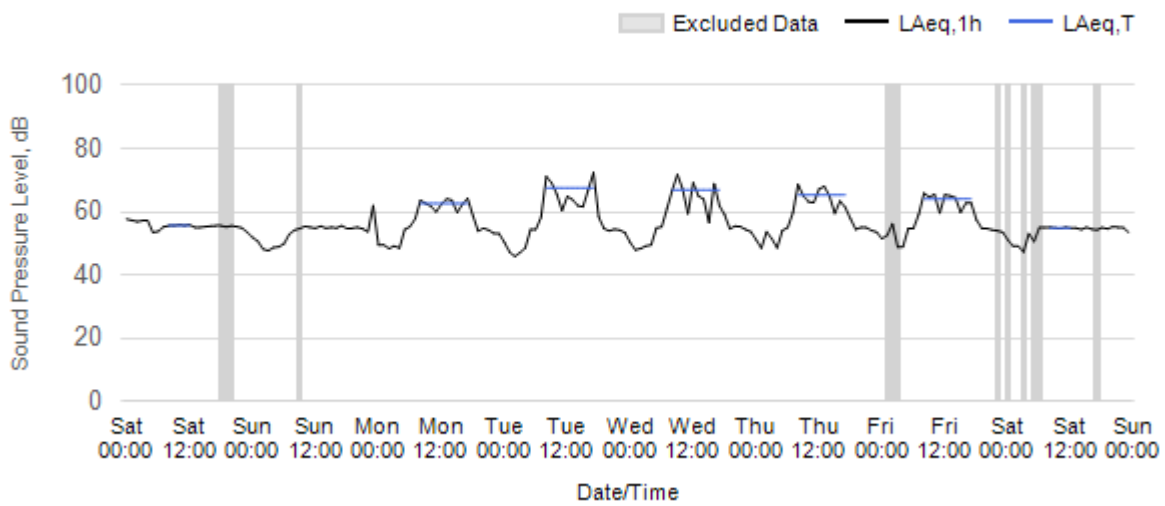
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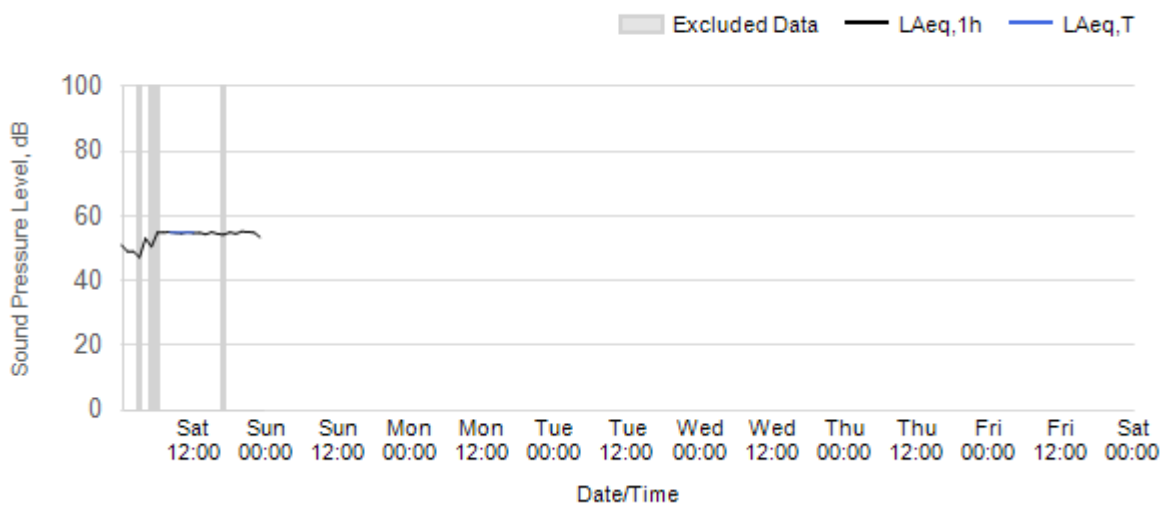
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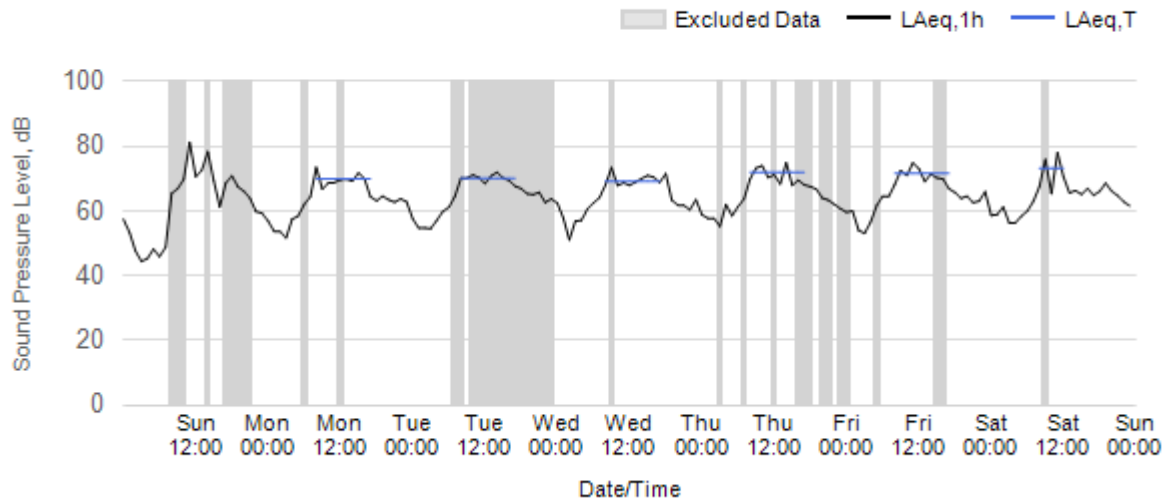


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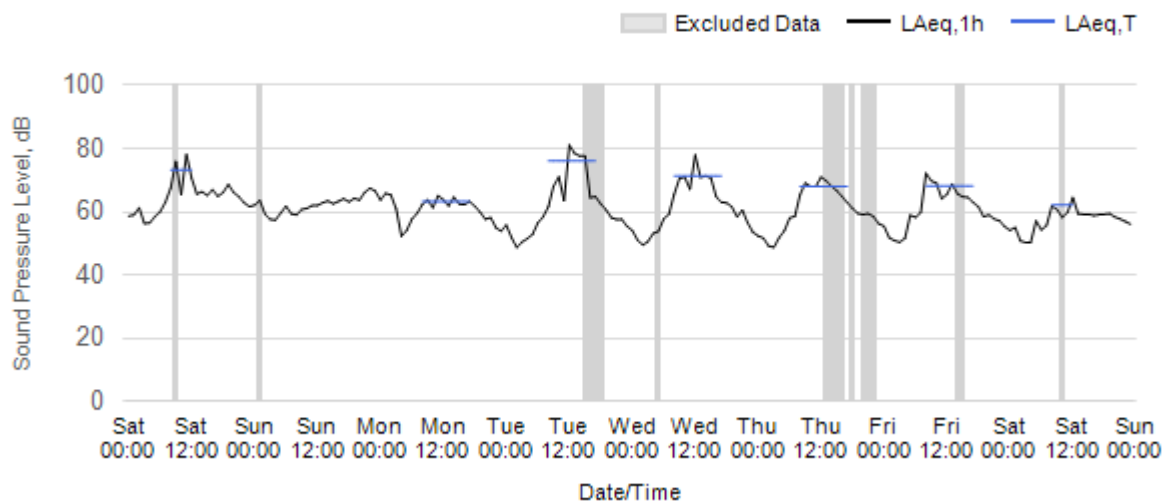


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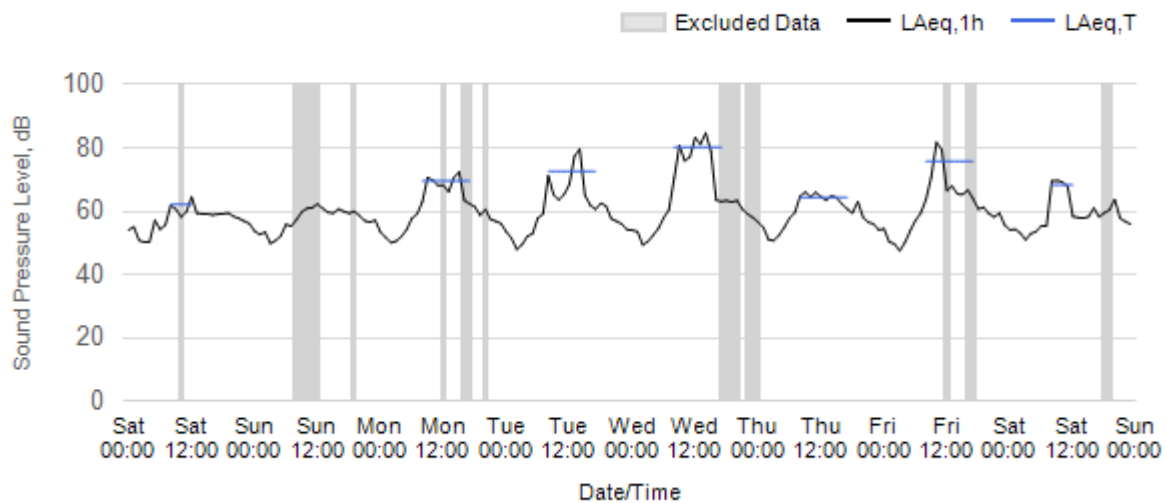
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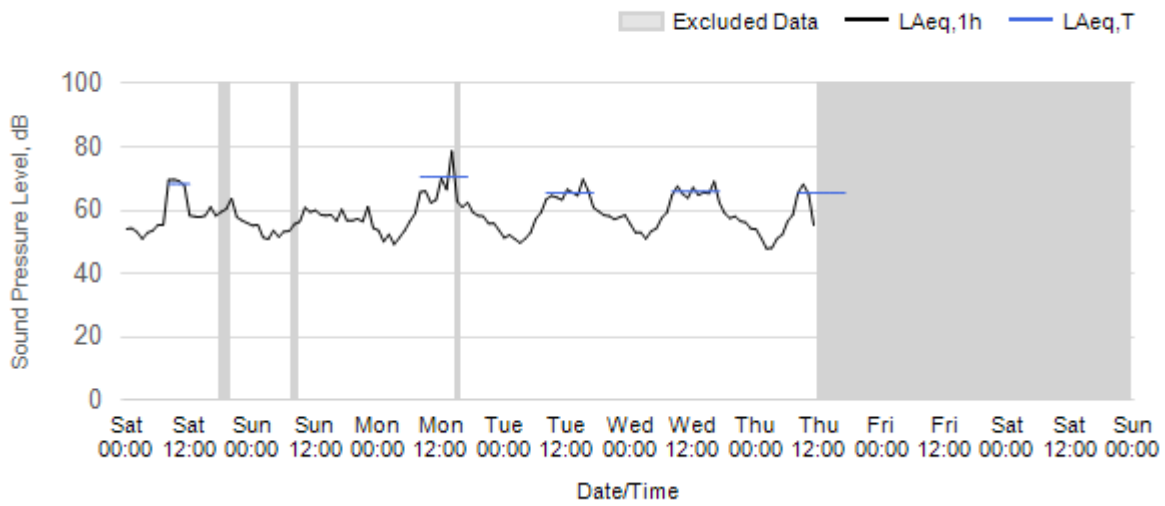
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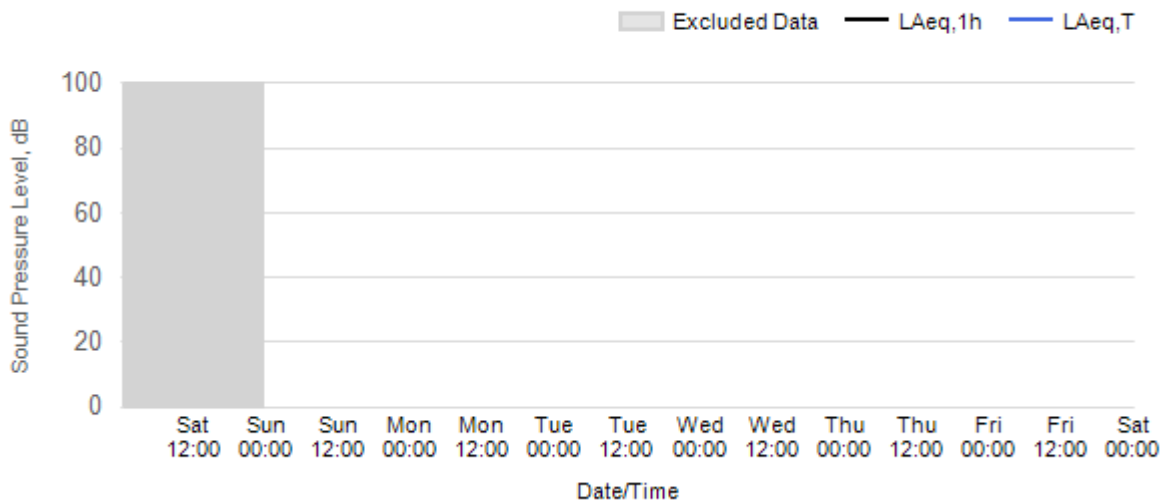


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Missing data was due to an issue with the memory card within the monitor, the card is being replaced

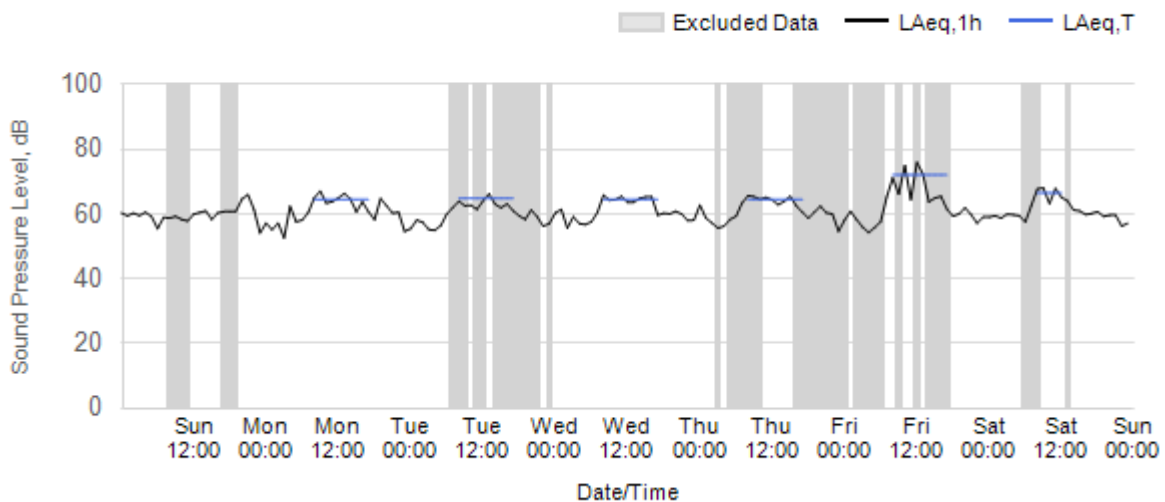
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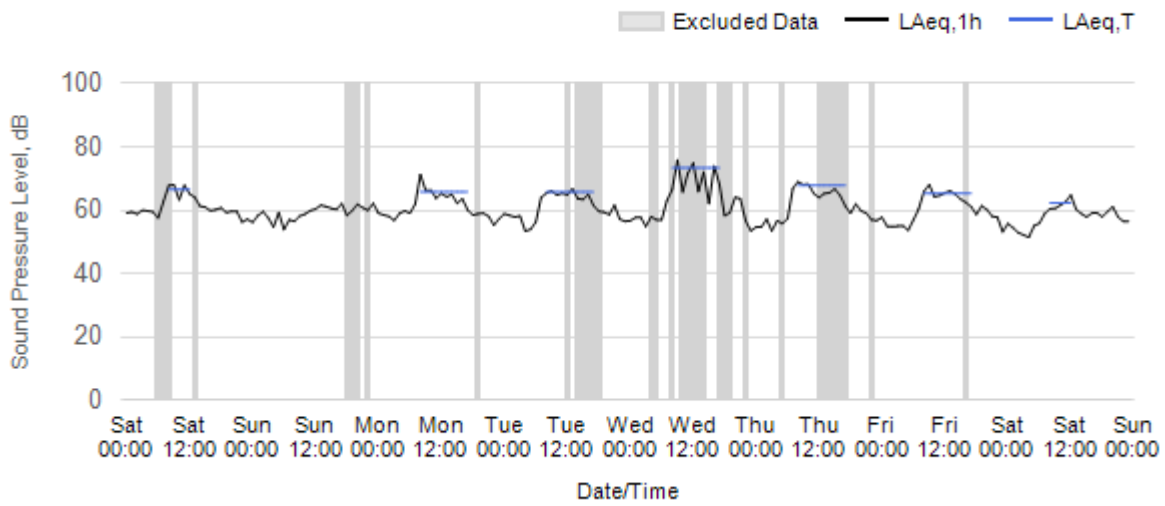
Missing data was due to an issue with the memory card within the monitor, the card is being replaced

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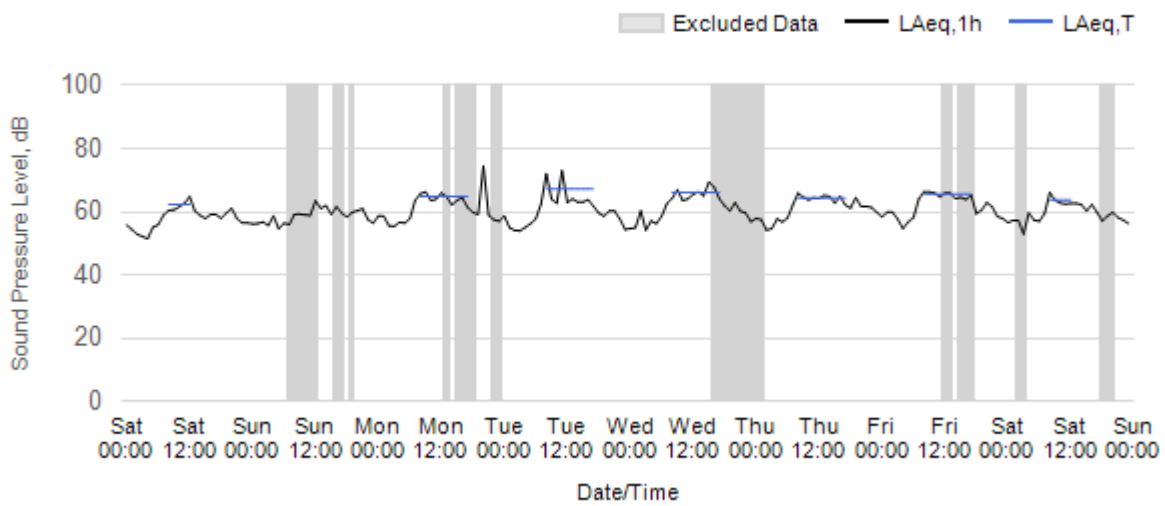
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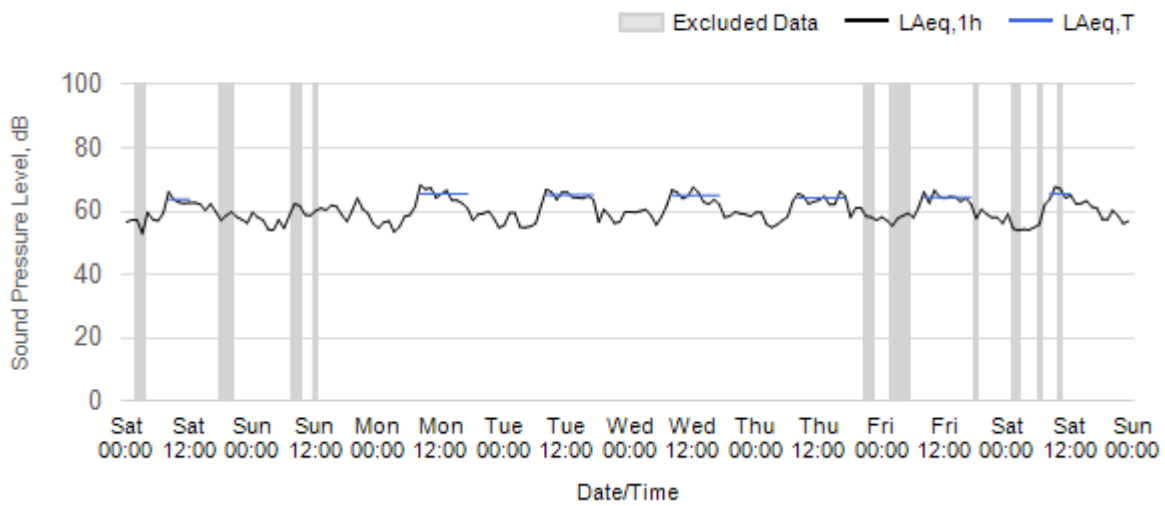
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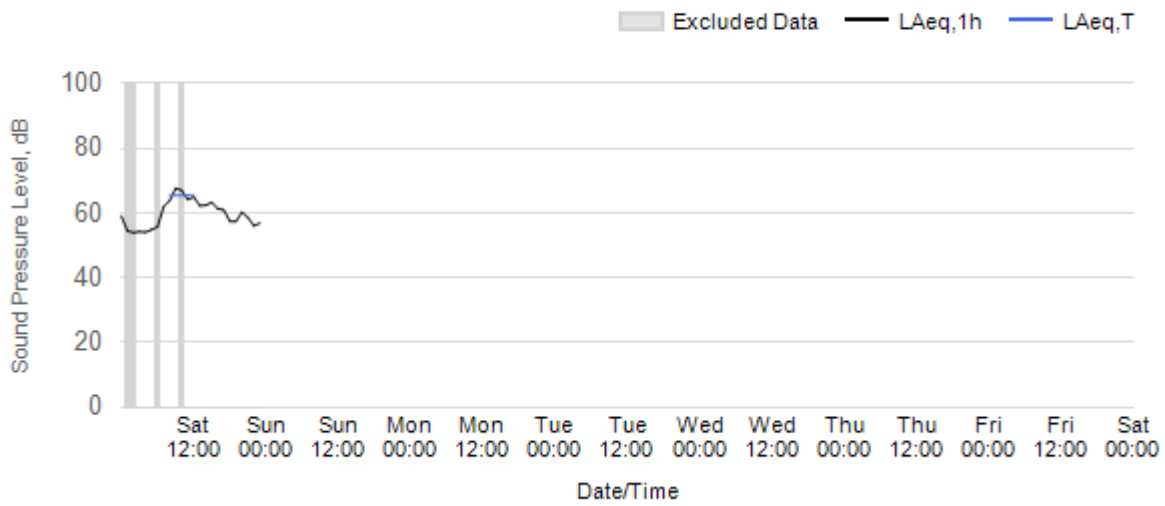
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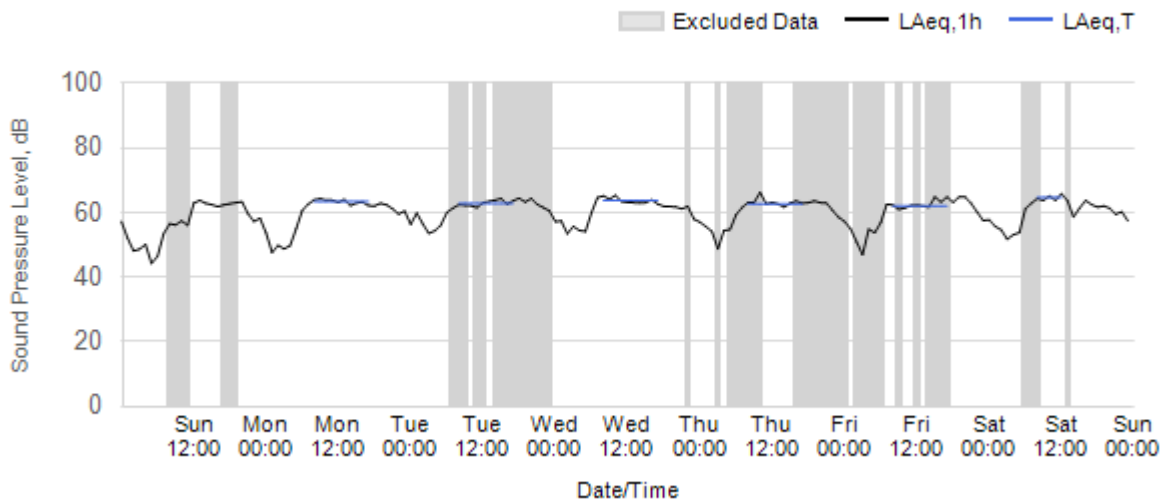


Worksite: VRCB Monitoring Ref: N031b 29 February 2026 to 7 March 2026

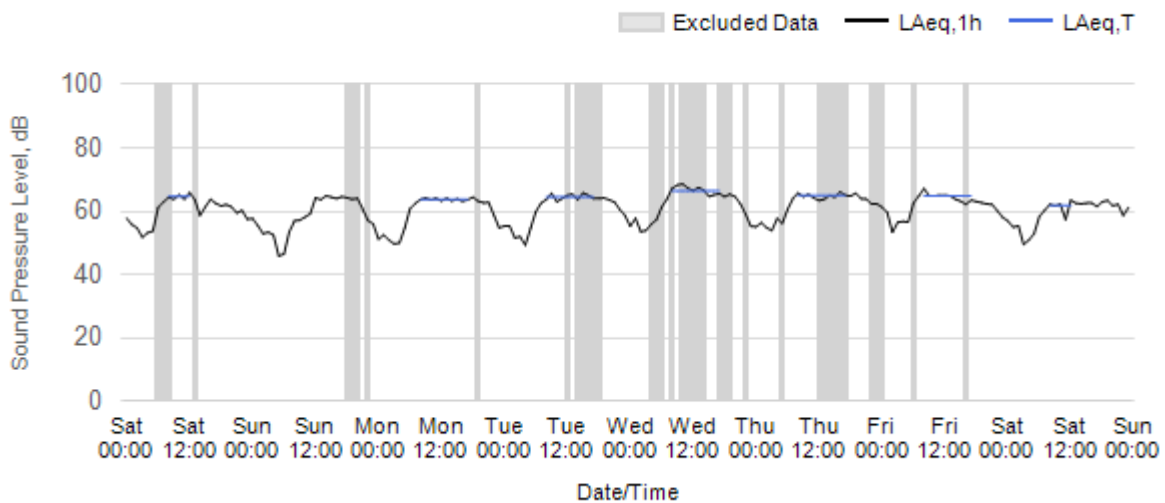


Worksite: WET - Monitoring Ref: N041a

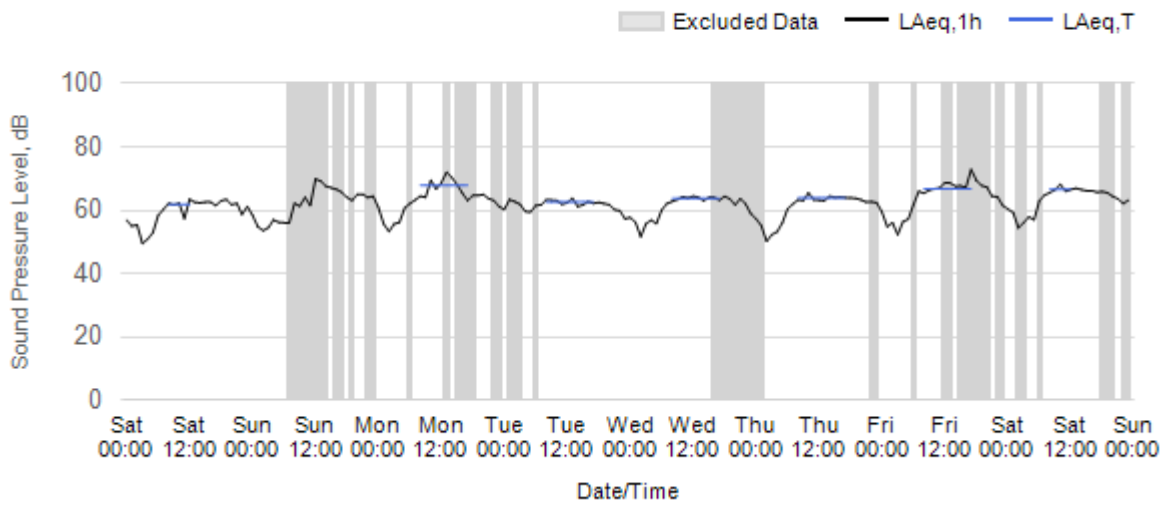
Worksite: WET Monitoring Ref: N041a 01 February 2026 to 07 February 2026



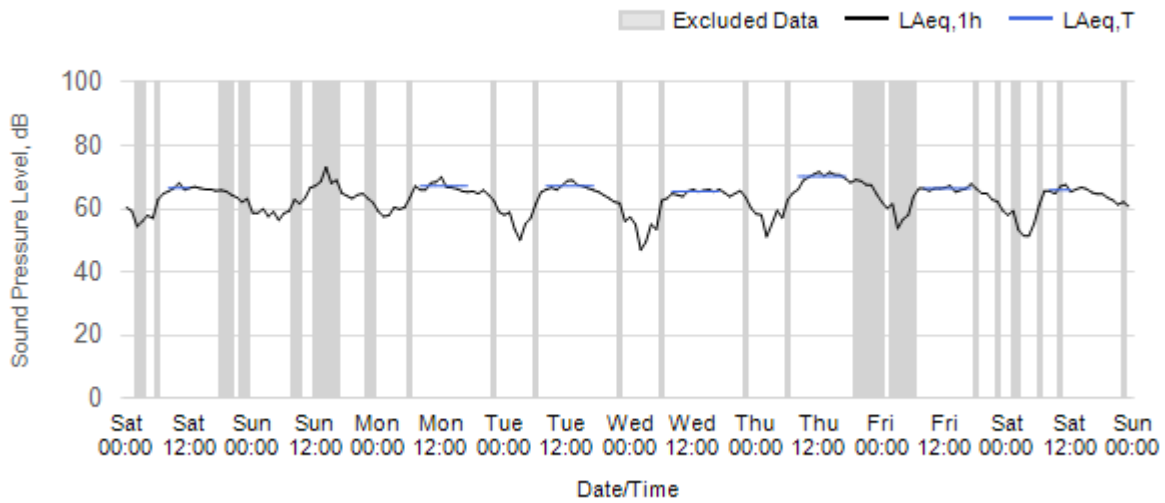
Worksite: WET Monitoring Ref: N041a 08 February 2026 to 14 February 2026



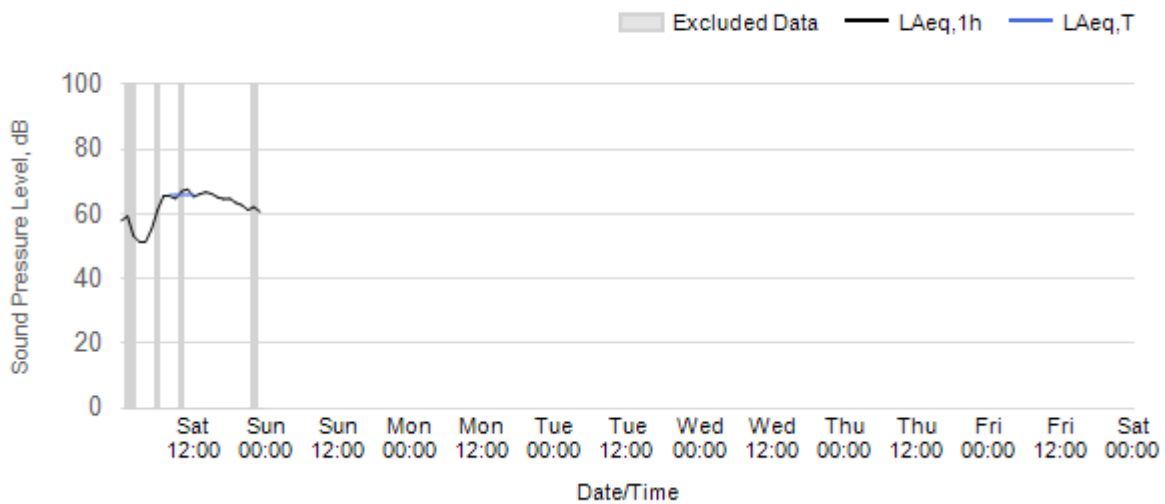
Worksite: WET Monitoring Ref: N041a 15 February 2026 to 21 February 2026



Worksite: WET Monitoring Ref: N041a 22 February 2026 to 28 February 2026

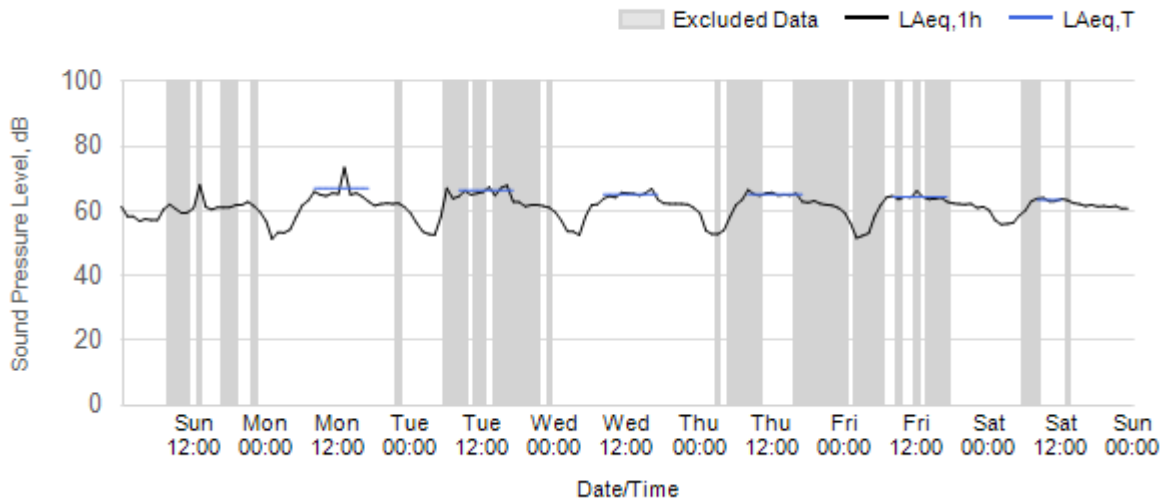


Worksite: WET Monitoring Ref: N041a 29 February 2026 to 7 March 2026

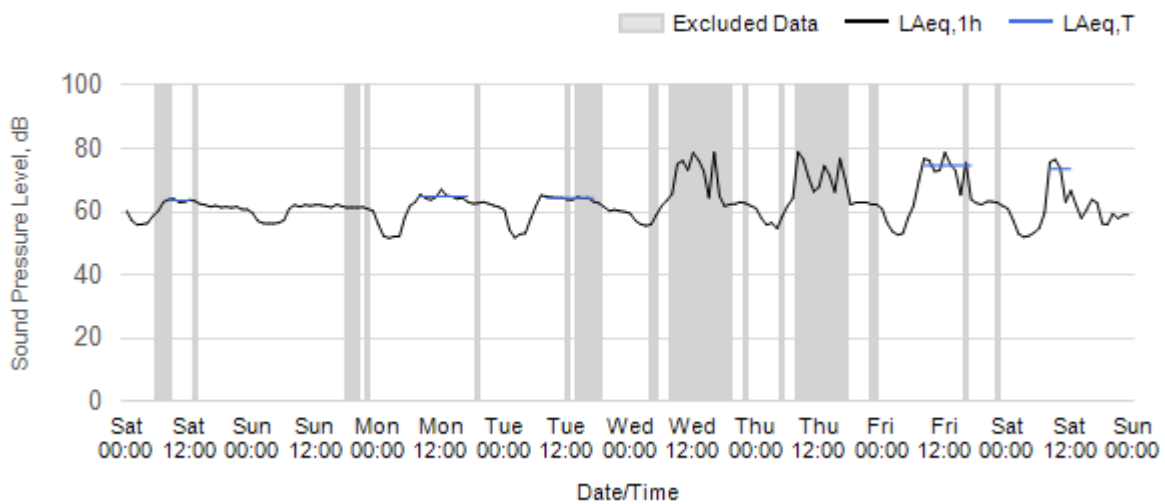


Worksite: VRCB - Monitoring Ref: N050c

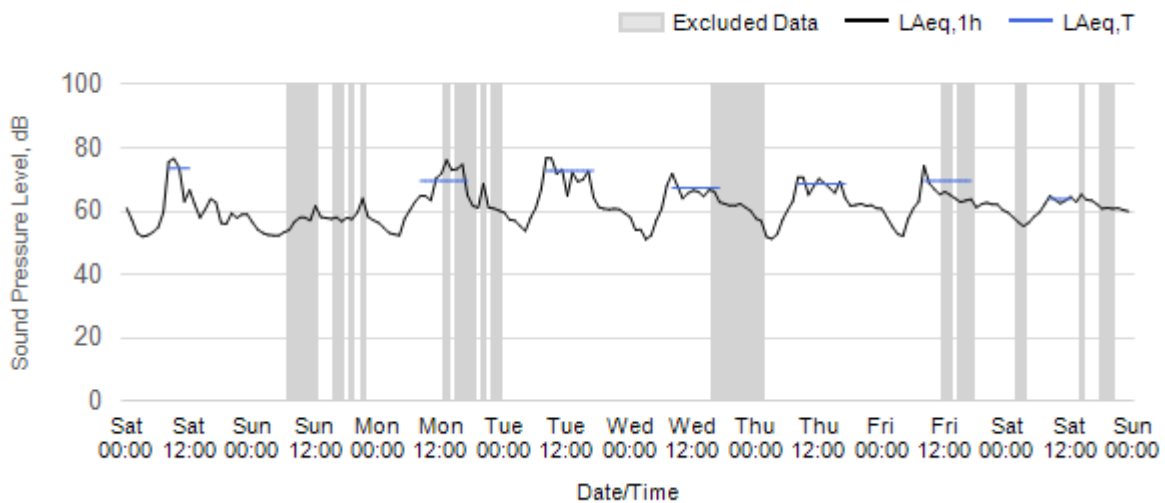
Worksite: VRCB Monitoring Ref: N050c 01 February 2026 to 07 February 2026



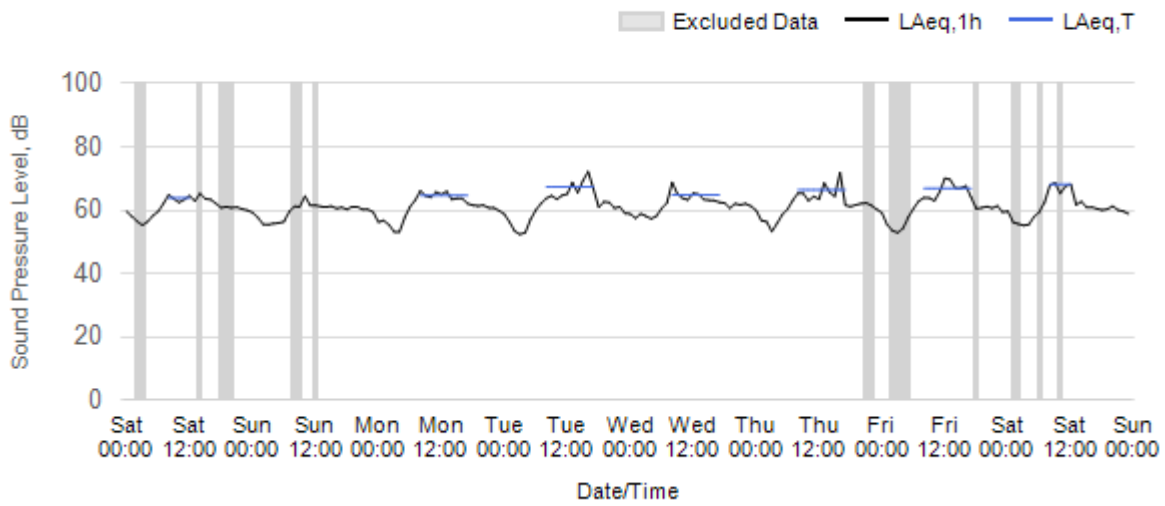
Worksite: VRCB Monitoring Ref: N050c 08 February 2026 to 14 February 2026



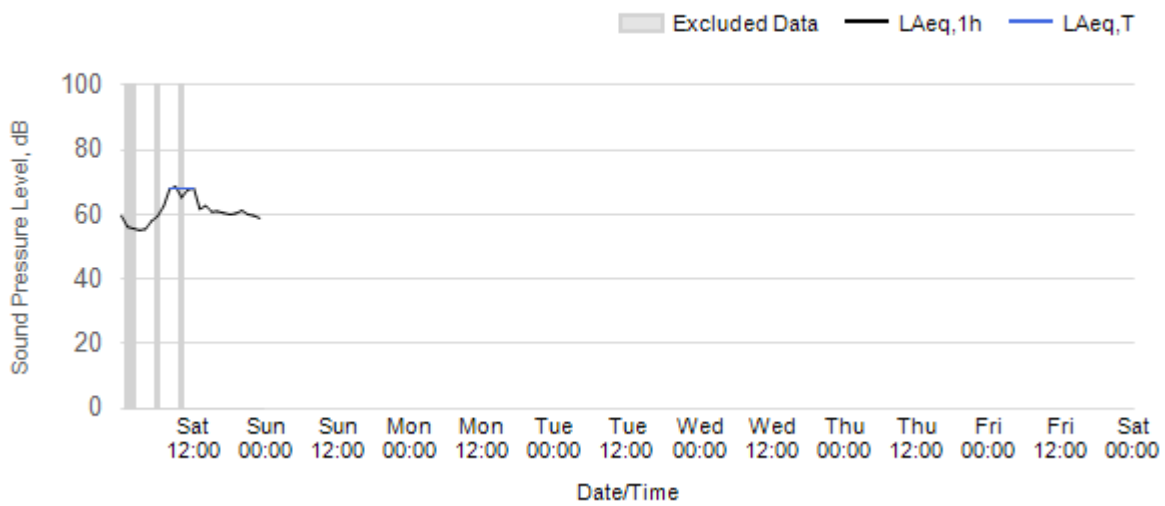
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Worksite: VRCB Monitoring Ref: N050c 22 February 2026 to 28 February 2026

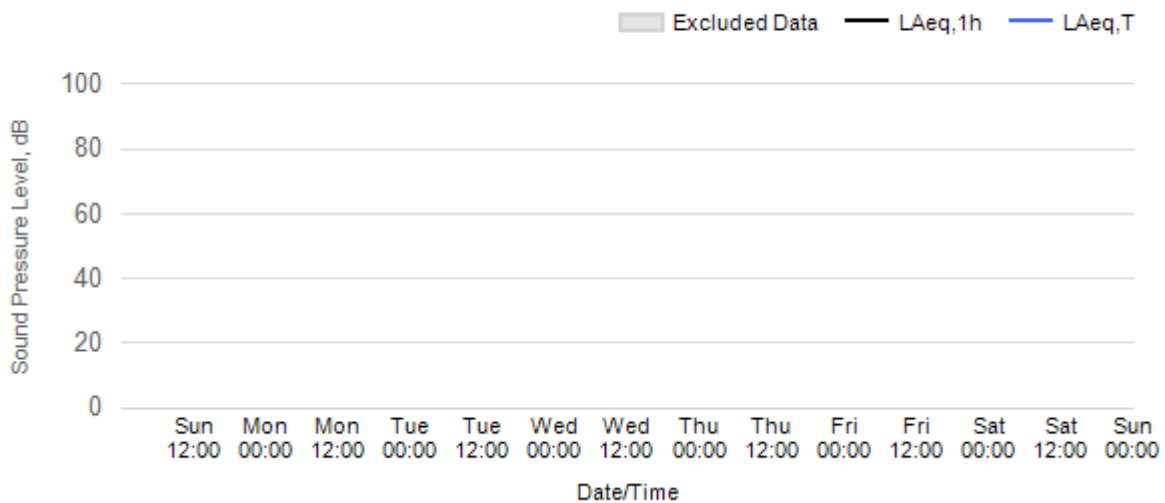


Worksite: VRCB Monitoring Ref: N050c 29 February 2026 to 7 March 2026



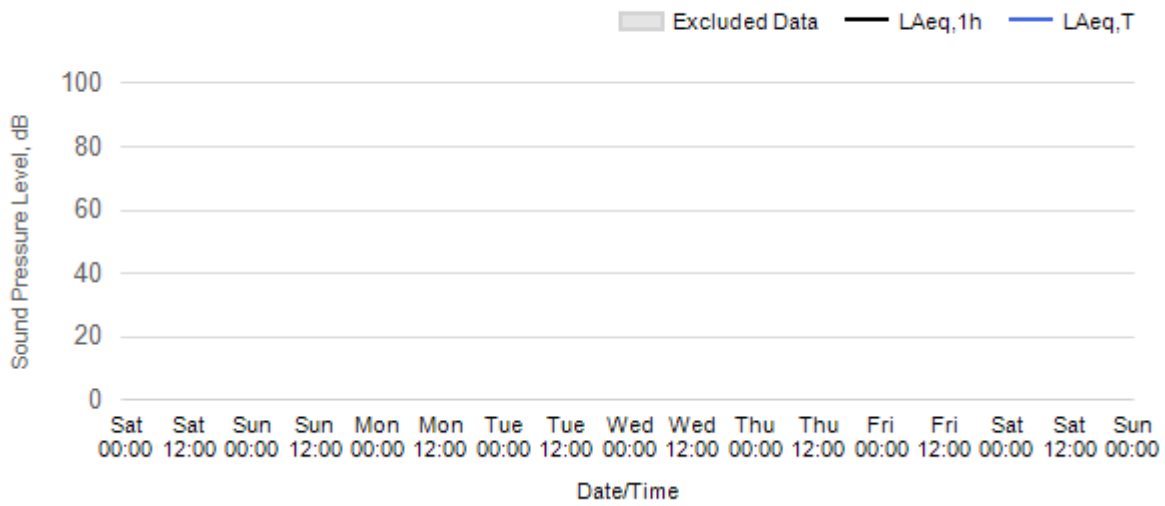
Worksite: MRVS - Monitoring Ref: N040

Worksite: MRVS Monitoring Ref: N040 01 February 2026 to 07 February 2026



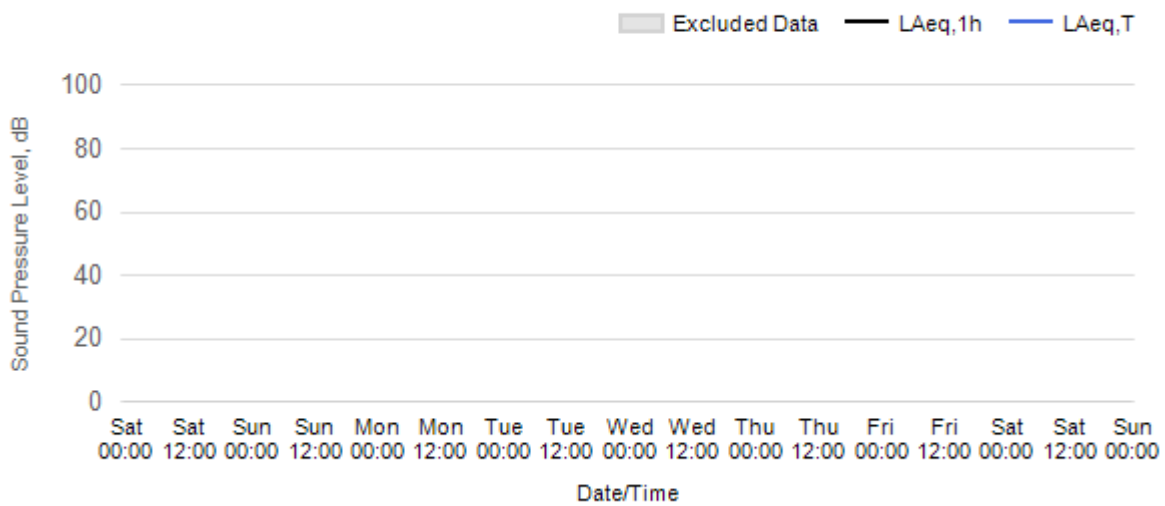
Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

Worksite: MRVS Monitoring Ref: N040 08 February 2026 to 14 February 2026



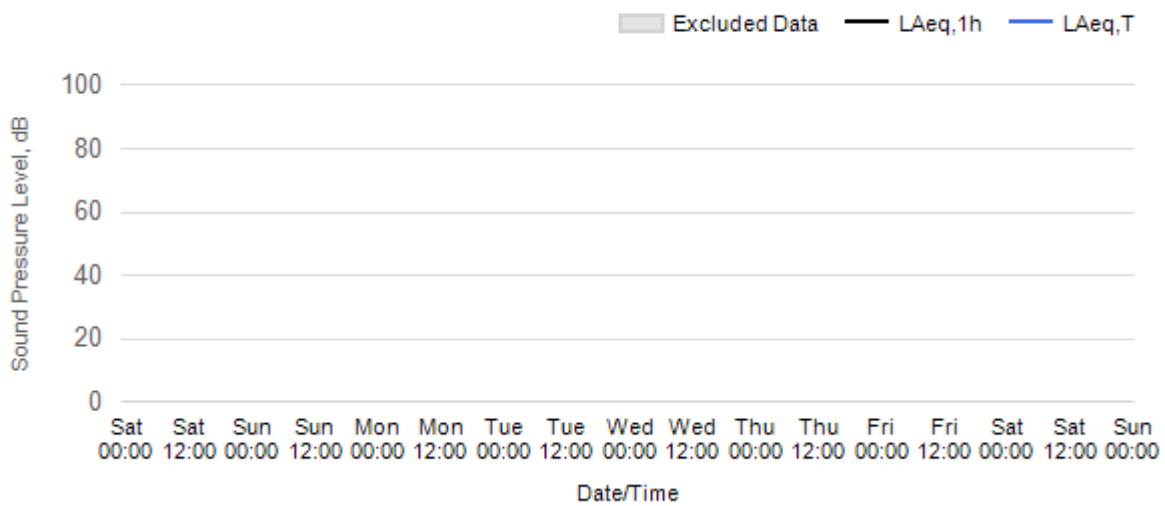
Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

Worksite: MRVS Monitoring Ref: N040 15 February 2026 to 21 February 2026



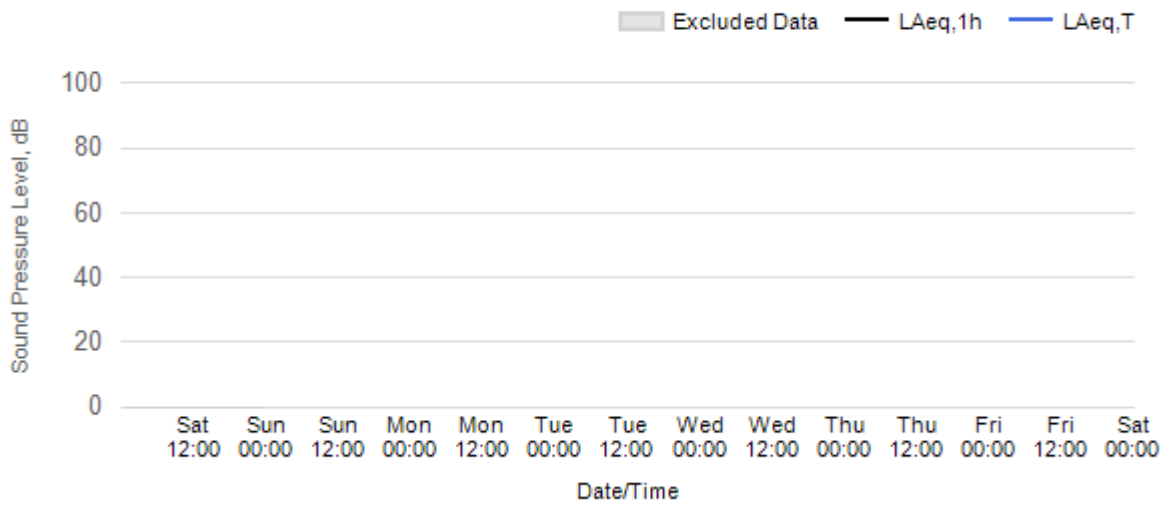
Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

Worksite: MRVS Monitoring Ref: N040 22 February 2026 to 28 February 2026



Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

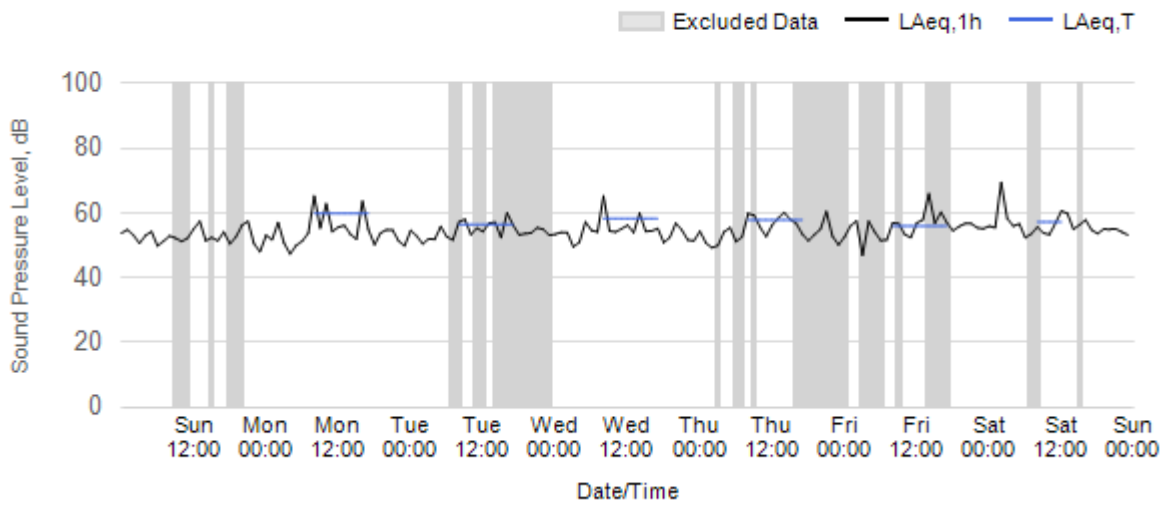
Worksite: MRVS Monitoring Ref: N040 29 February 2026 to 7 March 2026



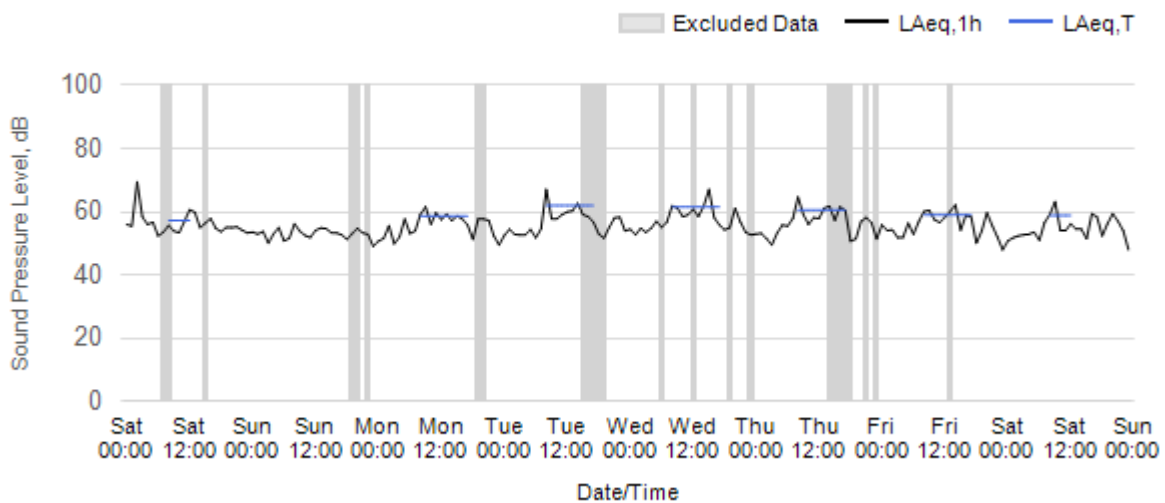
Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

Worksite: GPWVS - Monitoring Ref: N059

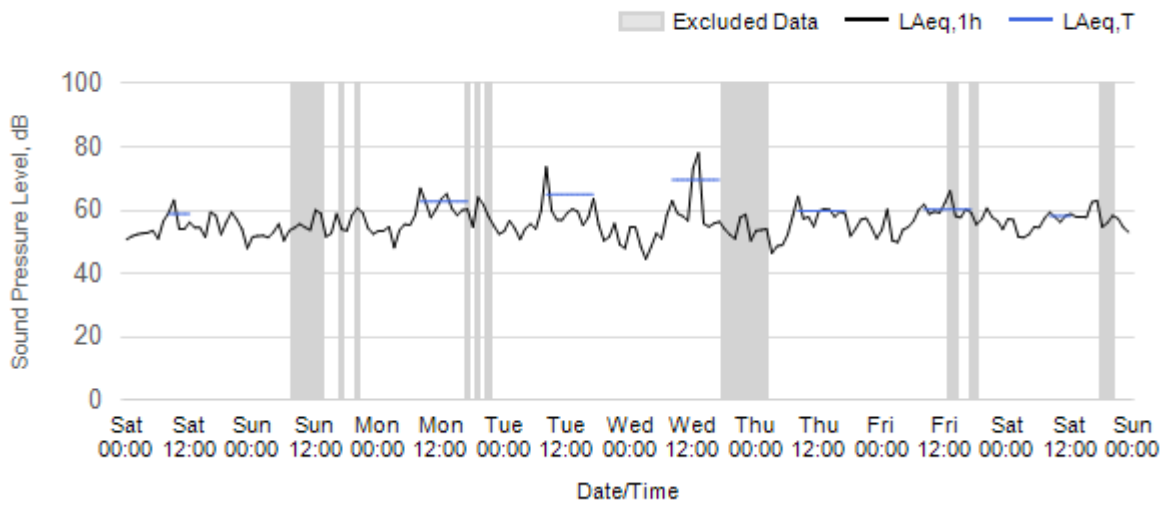
Worksite: GPWVS Monitoring Ref: N059 01 February 2026 to 07 February 2026



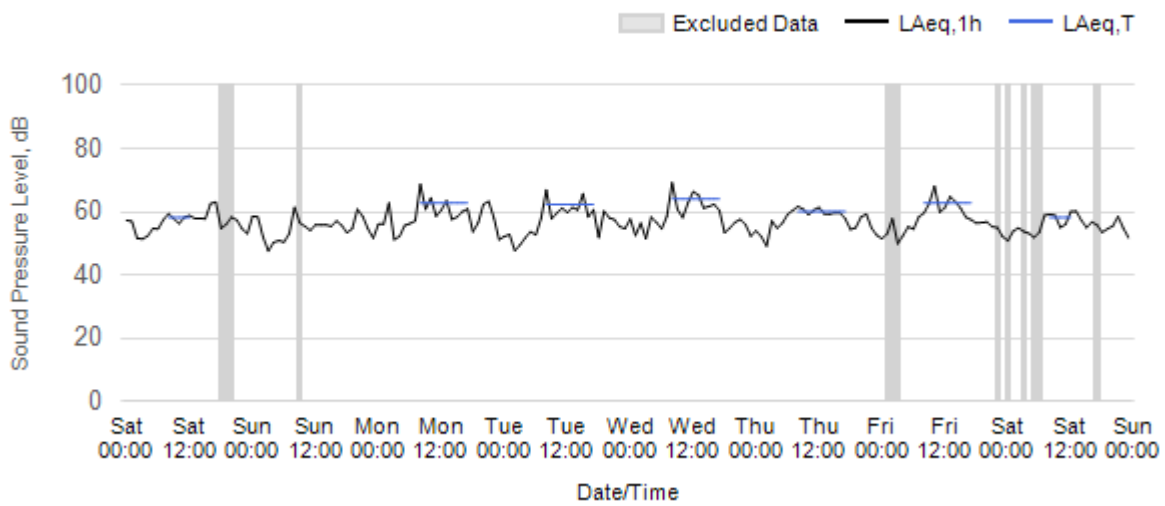
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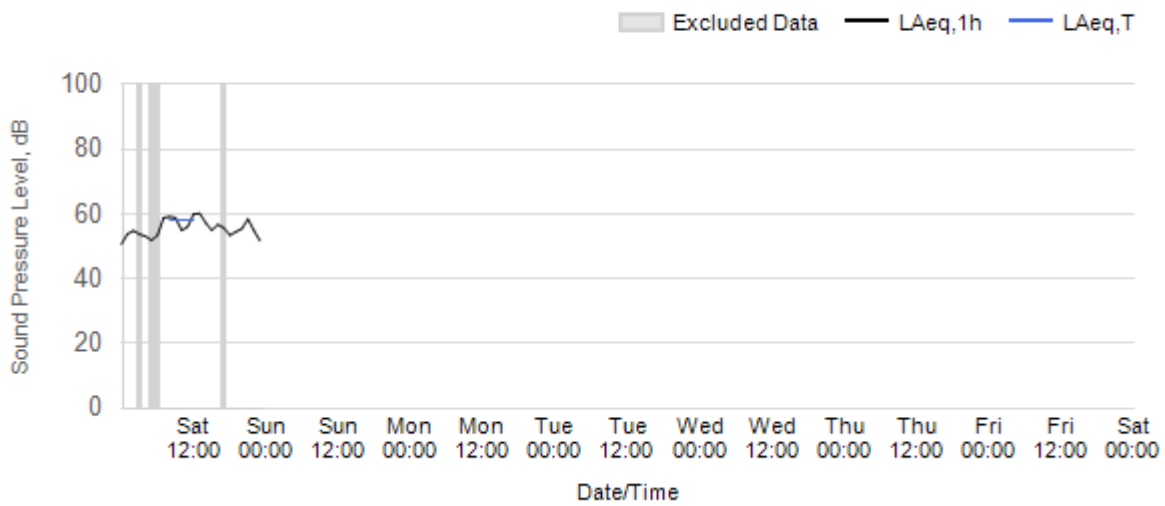
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Worksite: GPWVS Monitoring Ref: N059 22 February 2026 to 28 February 2026

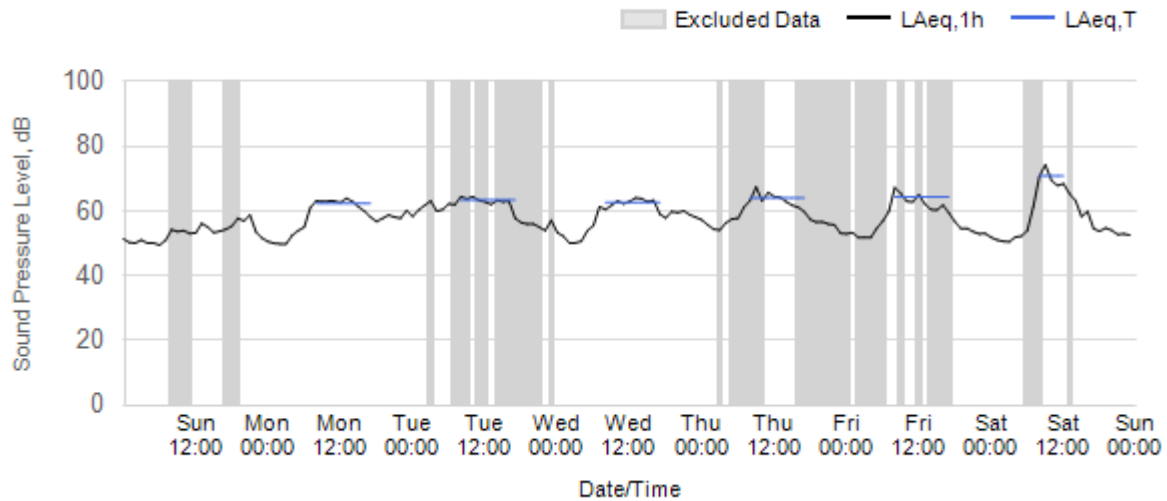


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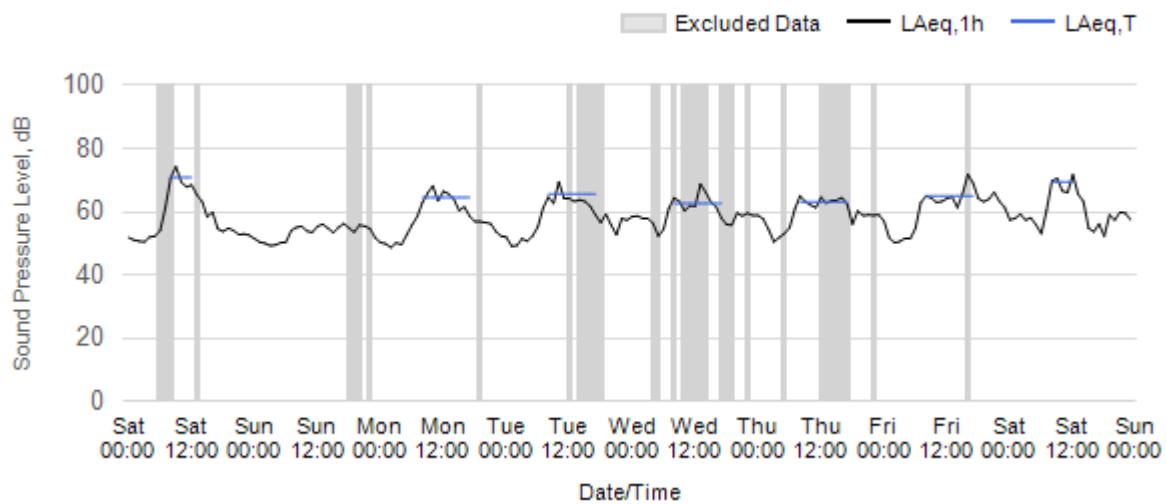


Worksite: FIC - Monitoring Ref: N042

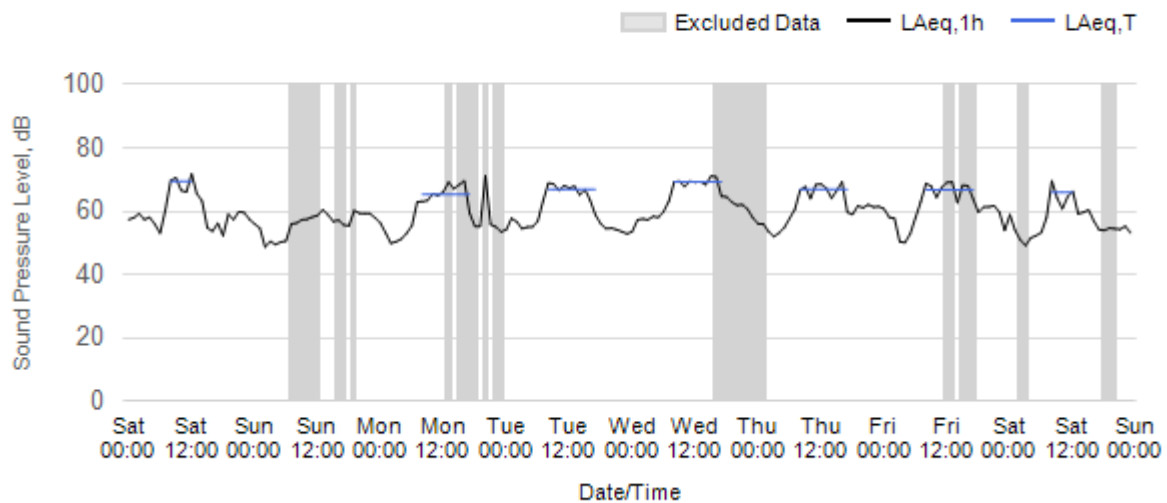
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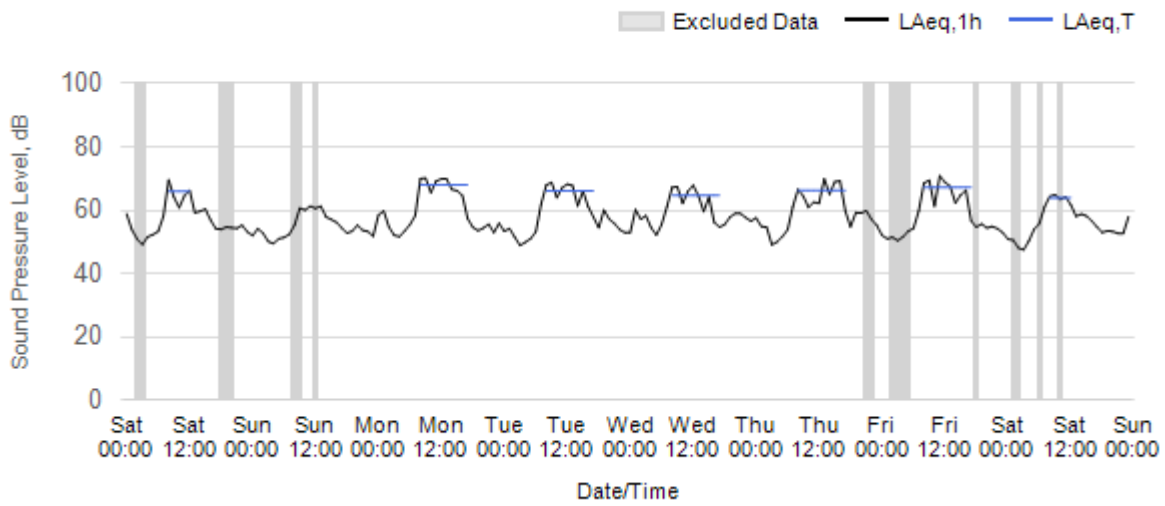
Worksite: FIC Monitoring Ref: N042 08 February 2026 to 14 February 2026



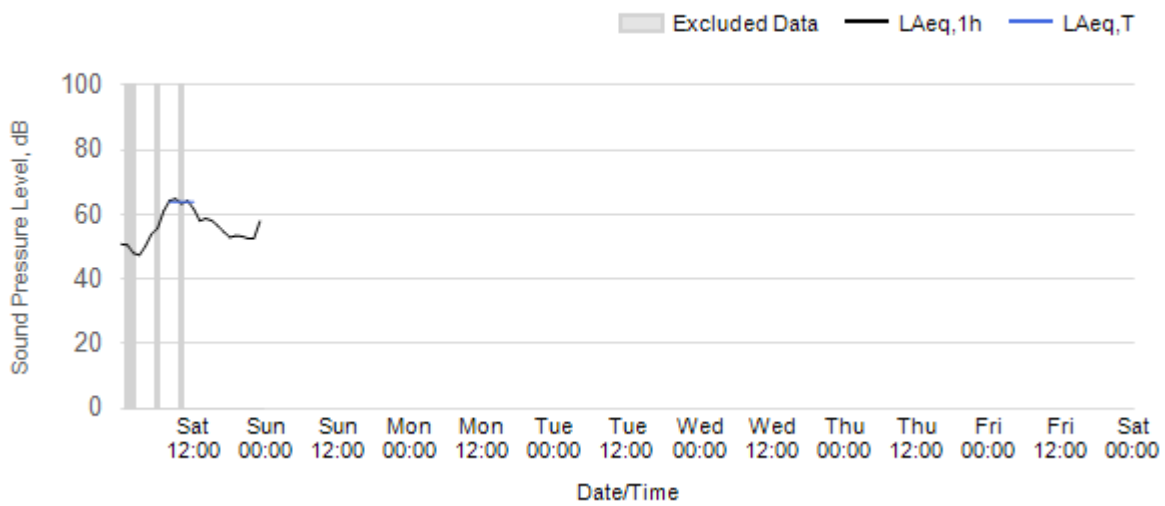
Worksite: FIC Monitoring Ref: N042 15 February 2026 to 21 February 2026



Worksite: FIC Monitoring Ref: N042 22 February 2026 to 28 February 2026

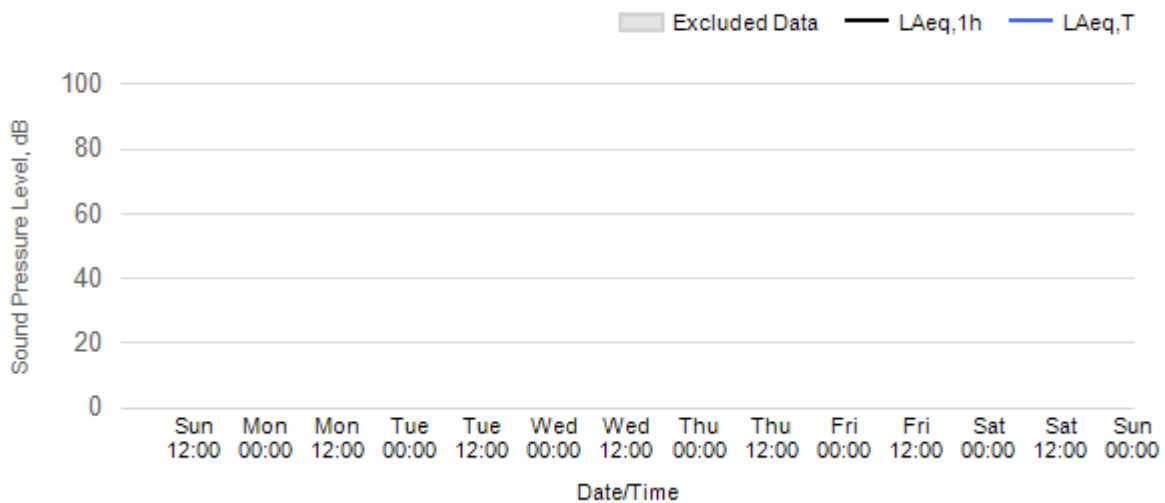


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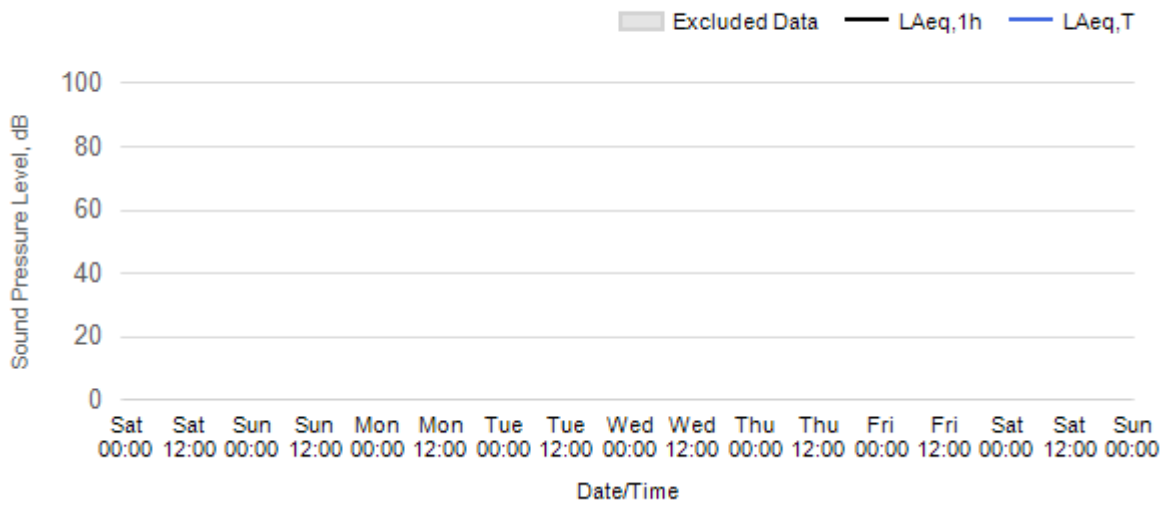
Worksite: VRCB - Monitoring Ref: N031

Worksite: VRCB Monitoring Ref: N031 01 February 2026 to 07 February 2026



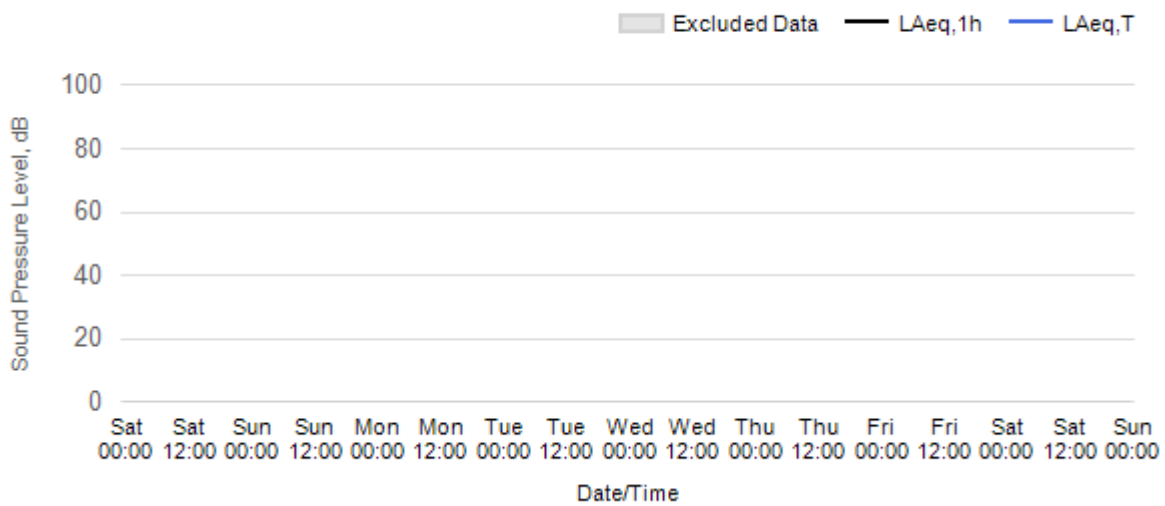
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Worksite: VRCB Monitoring Ref: N031 08 February 2026 to 14 February 2026



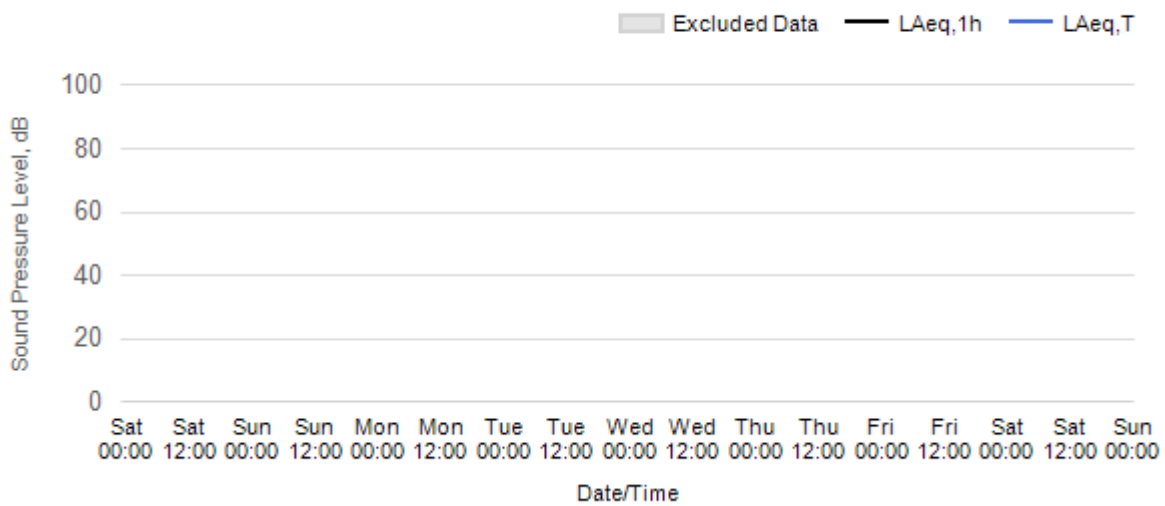
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Worksite: VRCB Monitoring Ref: N031 15 February 2026 to 21 February 2026



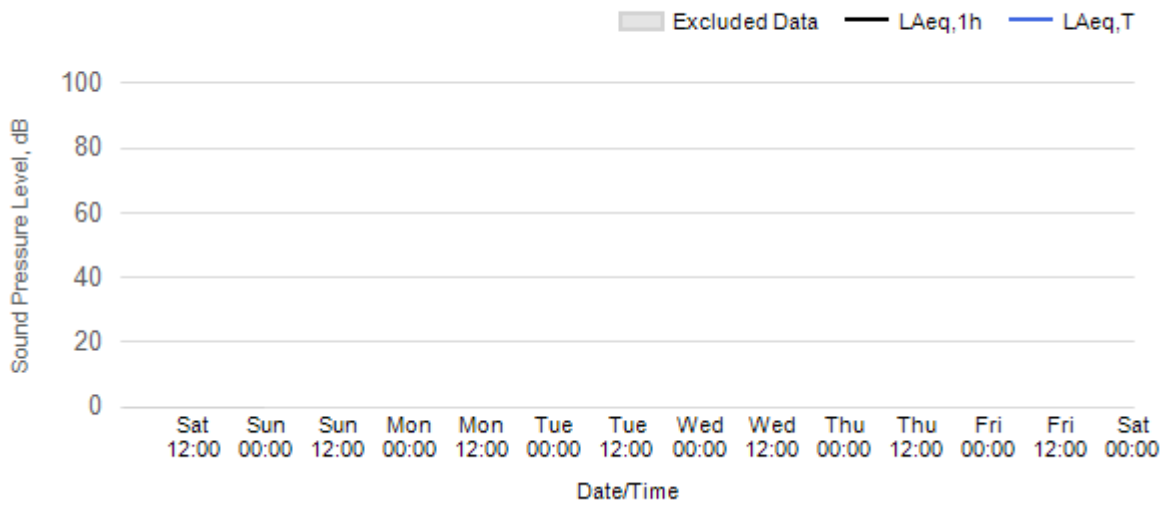
Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

Worksite: VRCB Monitoring Ref: N031 22 February 2026 to 28 February 2026



Note: Missing data through the entire month was due to loss of lighting column power at the monitoring station.

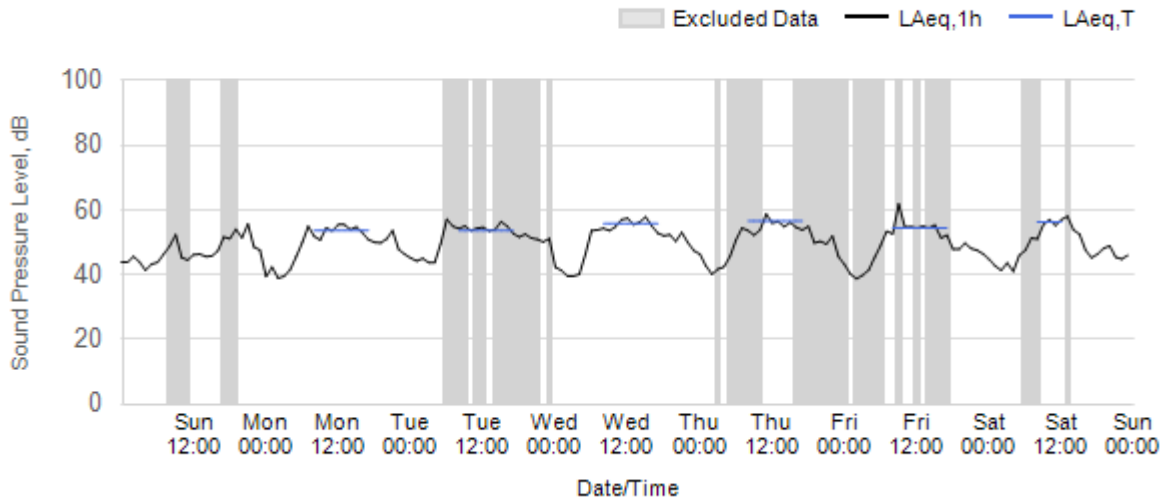
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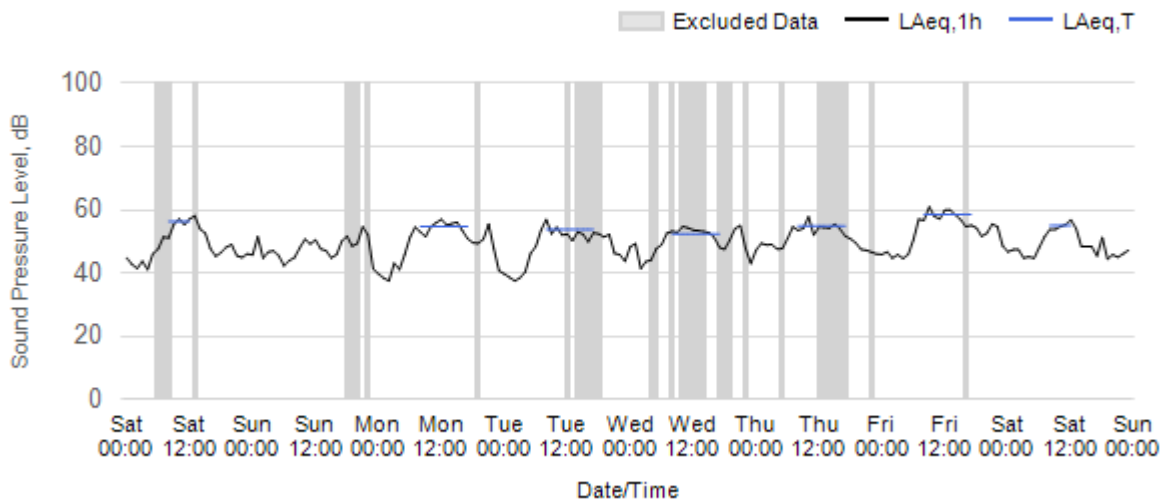
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Worksite: WET - Monitoring Ref: N035

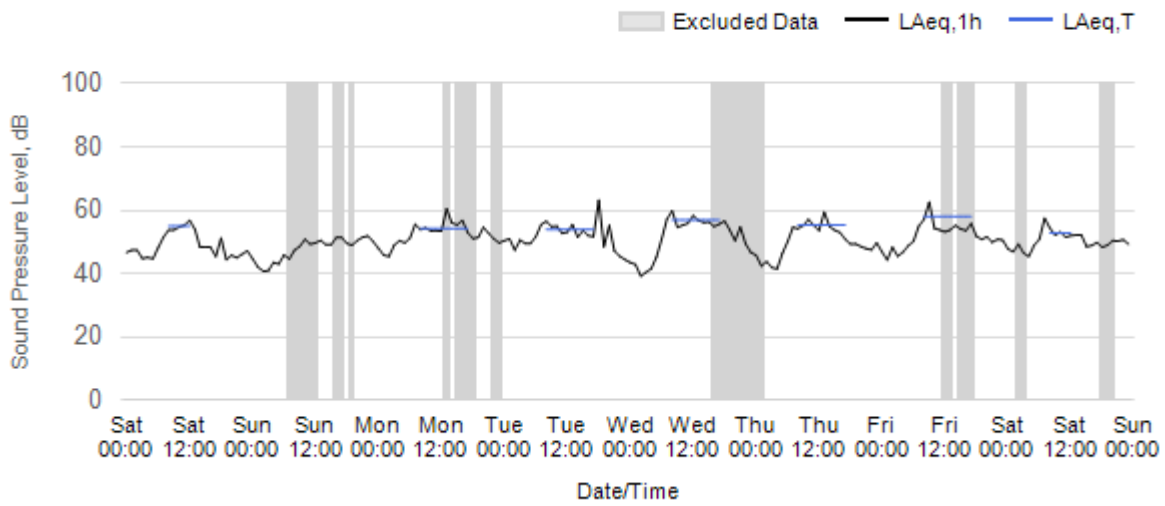
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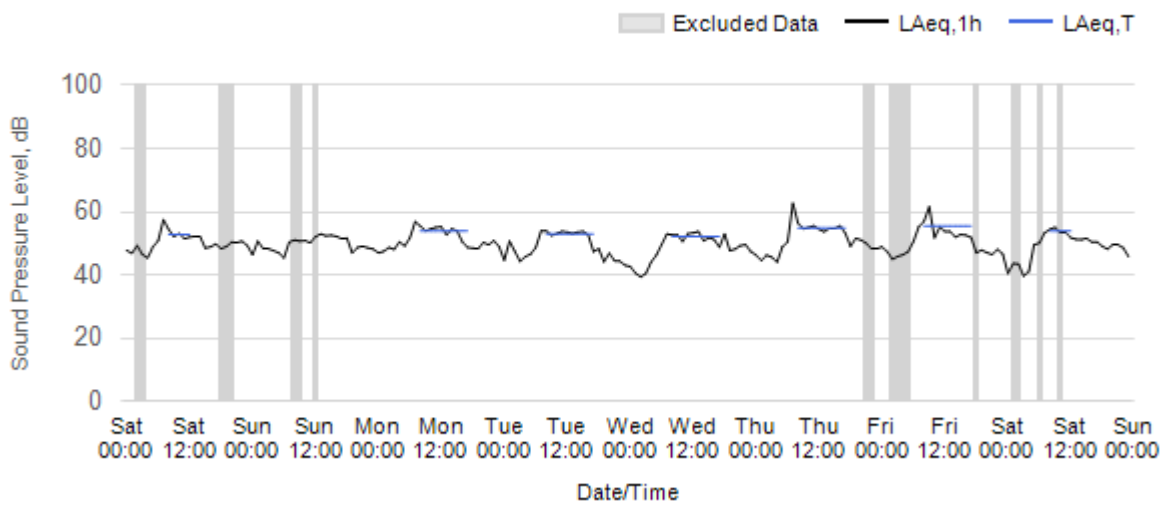
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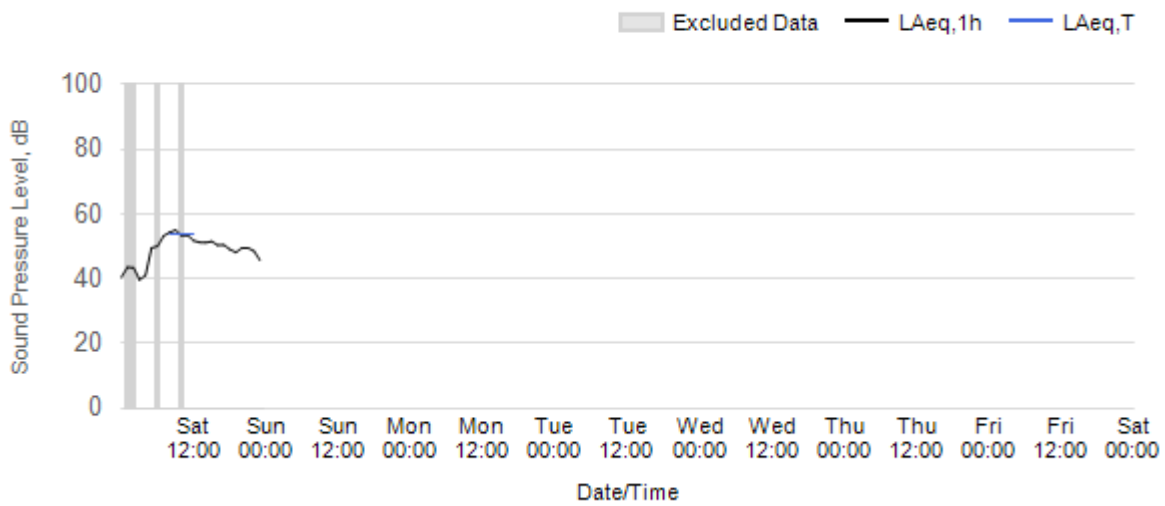
Worksite: WET Monitoring Ref: N035 15 February 2026 to 21 February 2026



Worksite: WET Monitoring Ref: N035 22 February 2026 to 28 February 2026

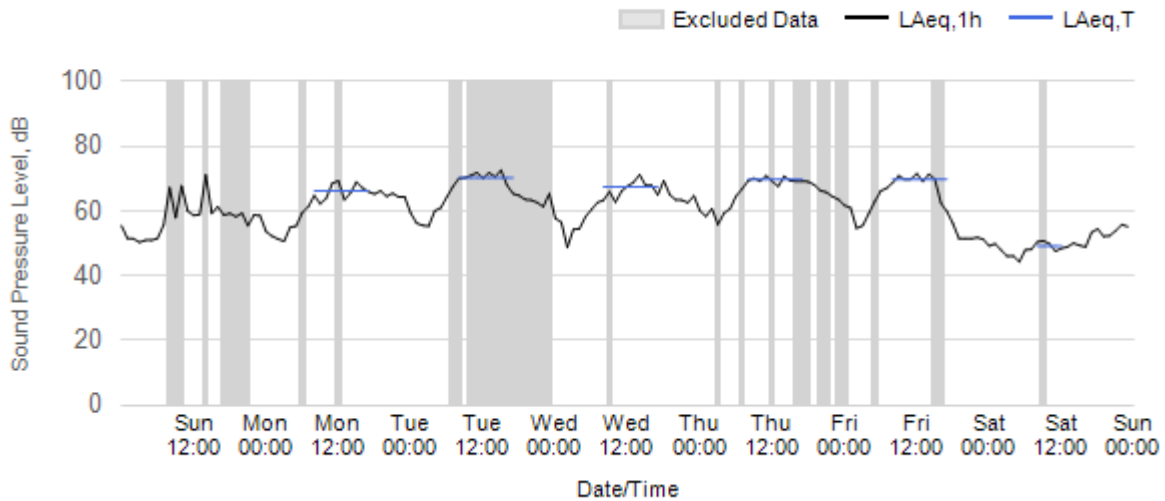


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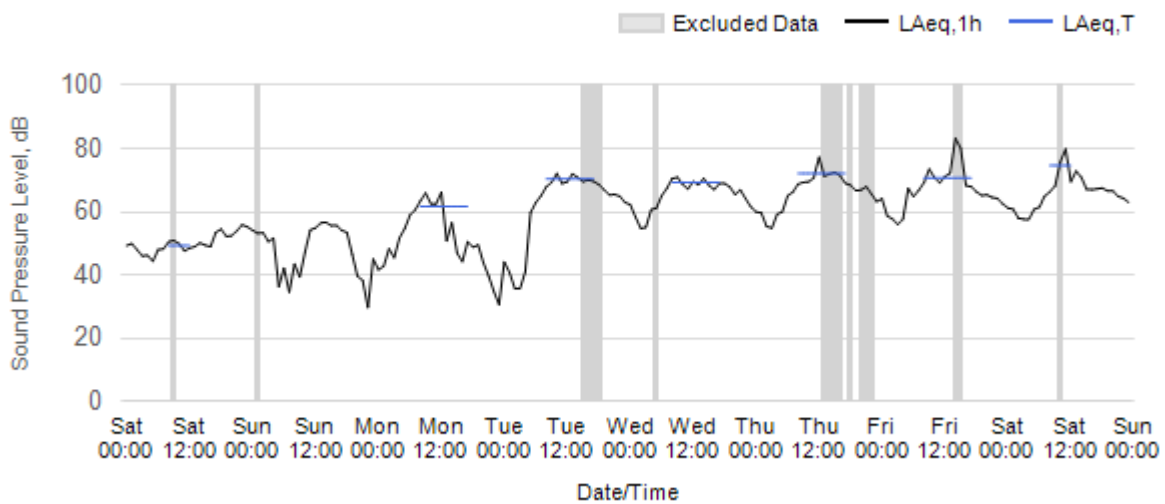


Worksite: OOC - Monitoring Ref: OOC-N01

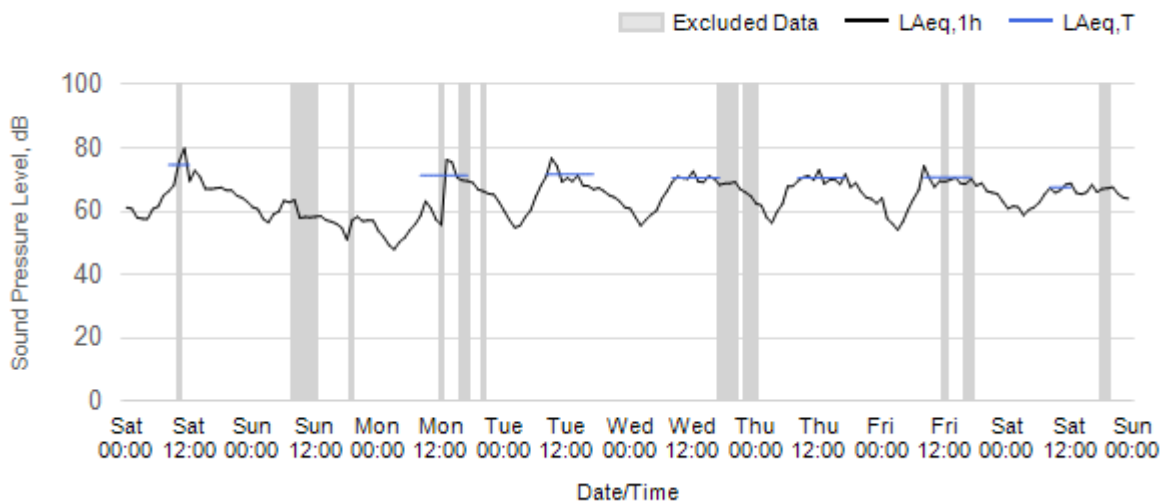
Worksite: OOC Monitoring Ref: OOC-N01 01 February 2026 to 07 February 2026



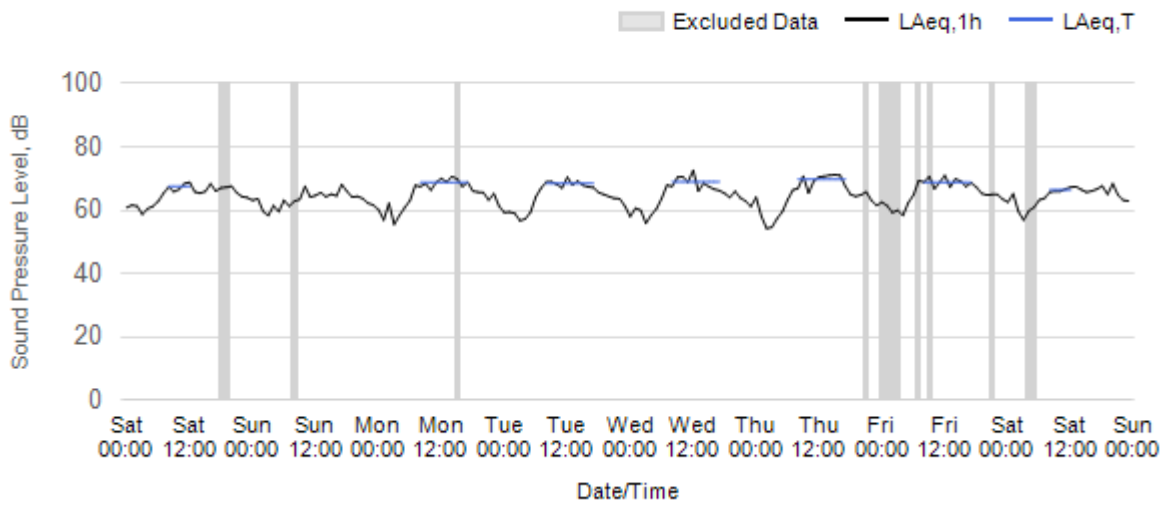
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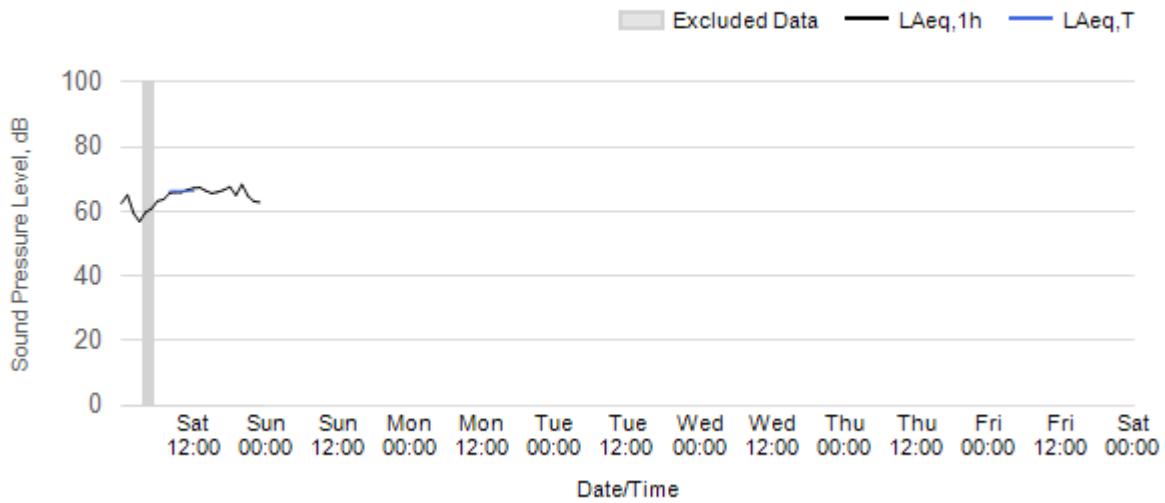
Worksite: OOC Monitoring Ref: OOC-N01 15 February 2026 to 21 February 2026



Worksite: OOC Monitoring Ref: OOC-N01 22 February 2026 to 28 February 2026



Worksite: OOC Monitoring Ref: OOC-N01 29 February 2026 to 7 March 2026

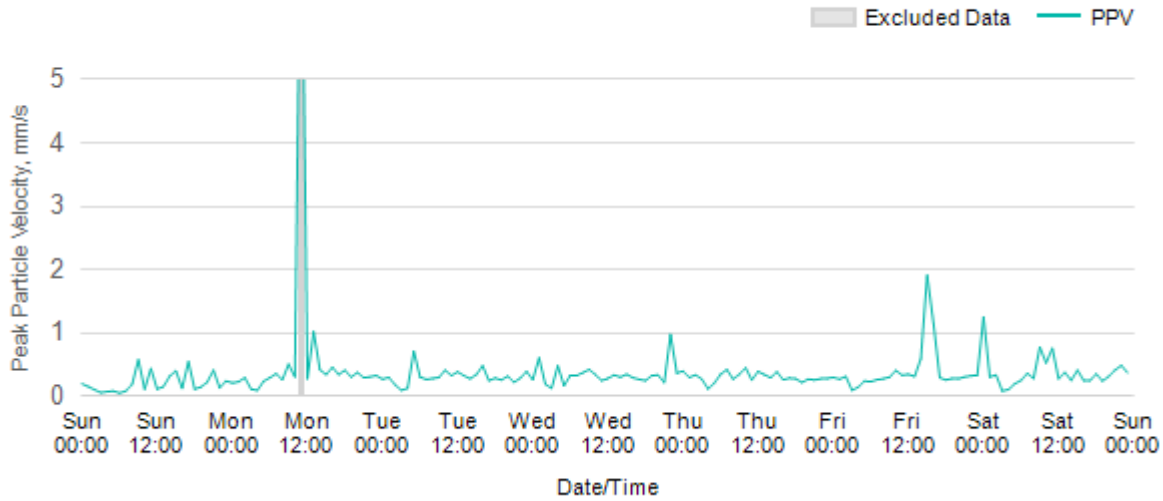


Vibration

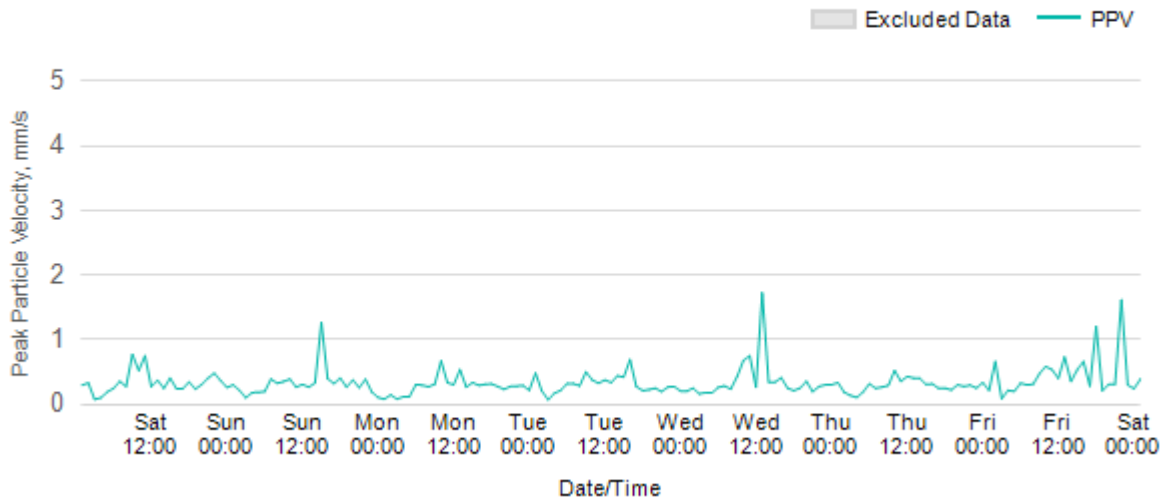
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which 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: OOC - Monitoring Ref: OOC-V03

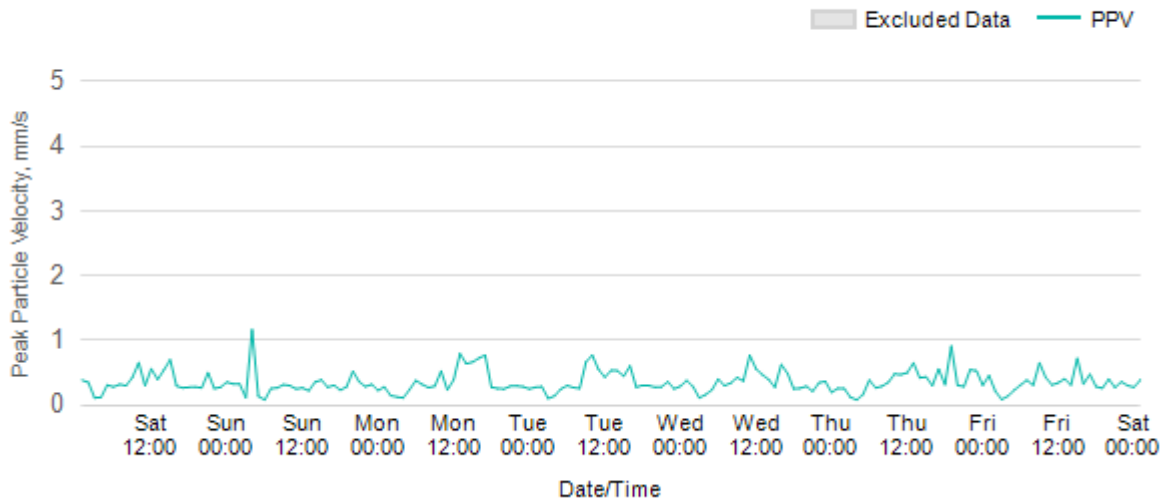
Worksite: OOC Monitoring Ref: OOC-V03 01 February 2026 to 07 February 2026



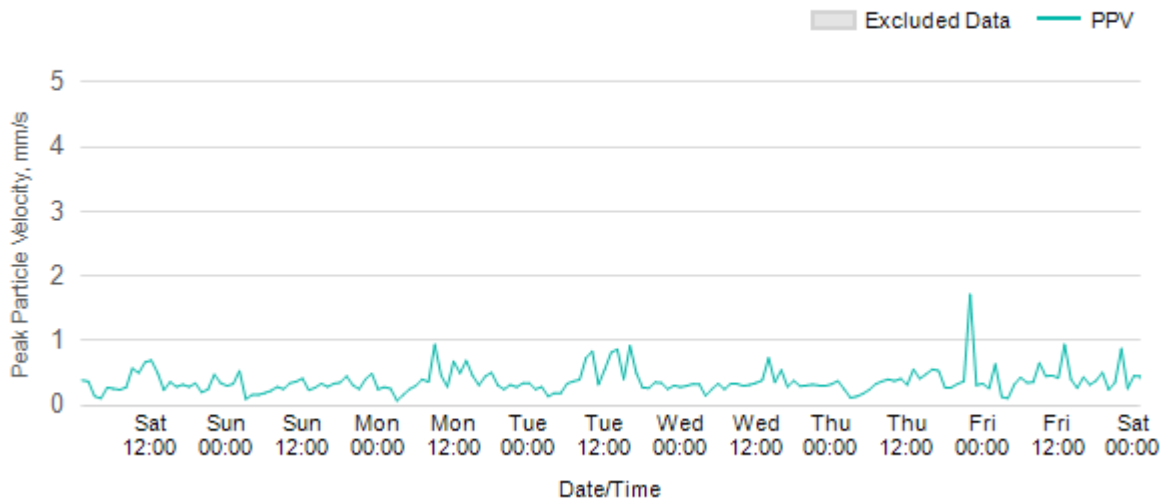
Worksite: OOC Monitoring Ref: OOC-V03 08 February 2026 to 14 February 2026



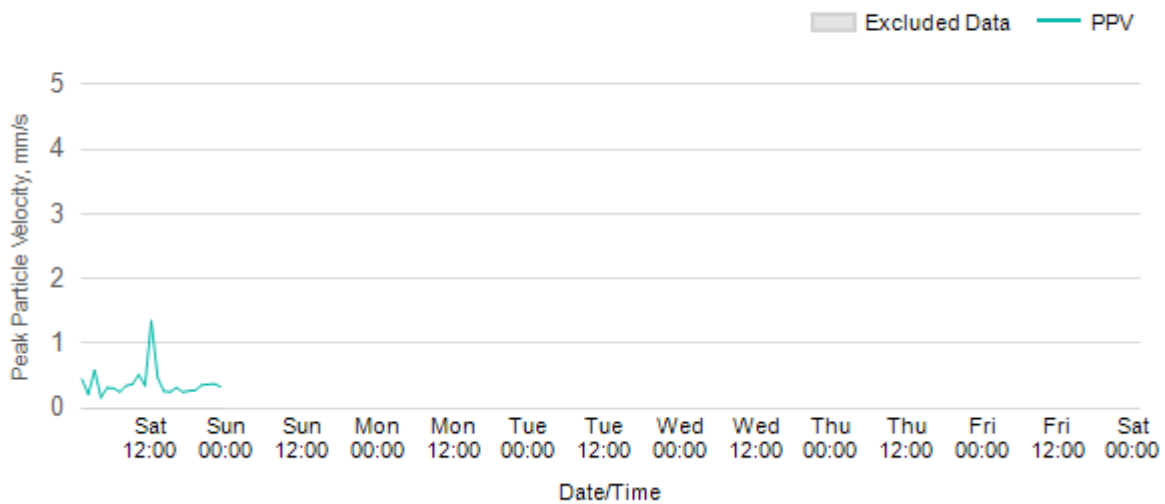
Worksite: OOC Monitoring Ref: OOC-V03 15 February 2026 to 21 February 2026



Worksite: OOC Monitoring Ref: OOC-V03 22 February 2026 to 28 February 2026

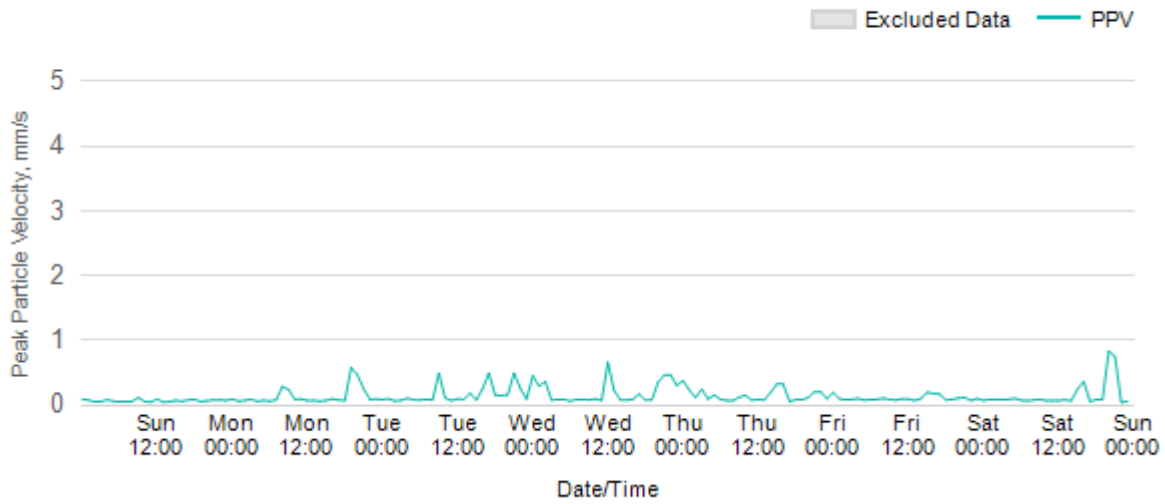


Worksite: OOC Monitoring Ref: OOC-V03 29 February 2026 to 7 March 2026

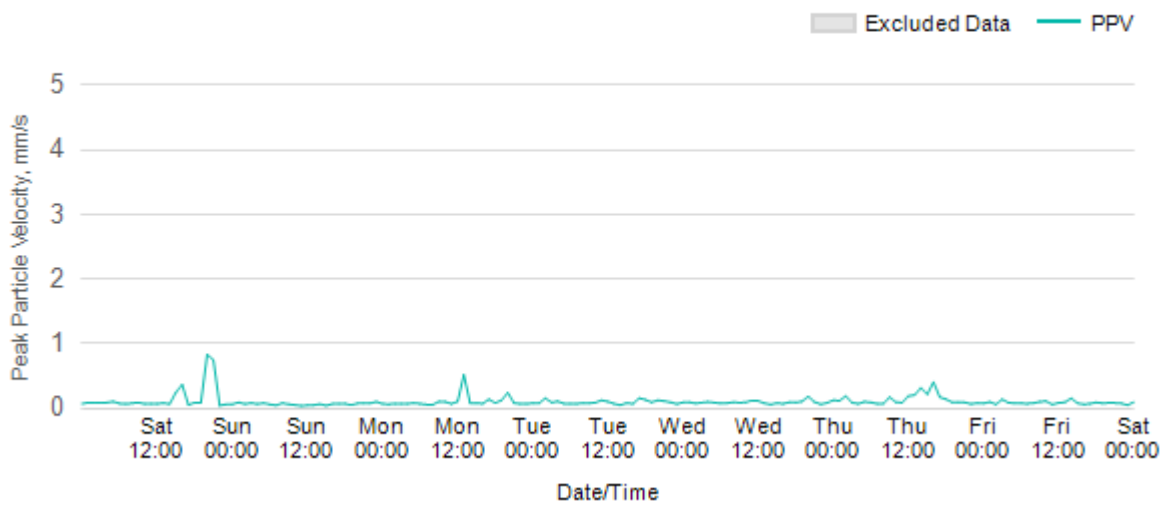


Worksite: GPWVS - Monitoring Ref: V053

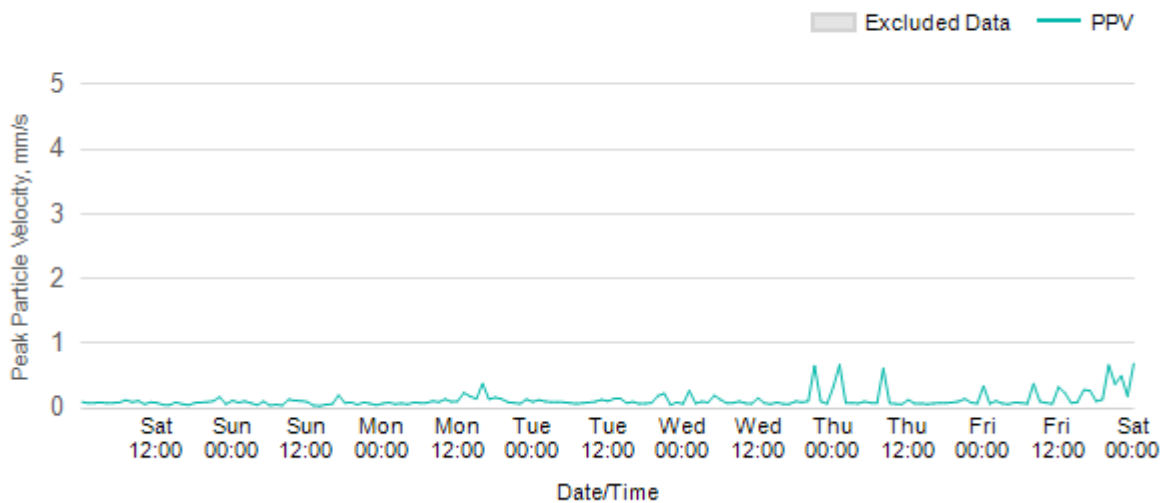
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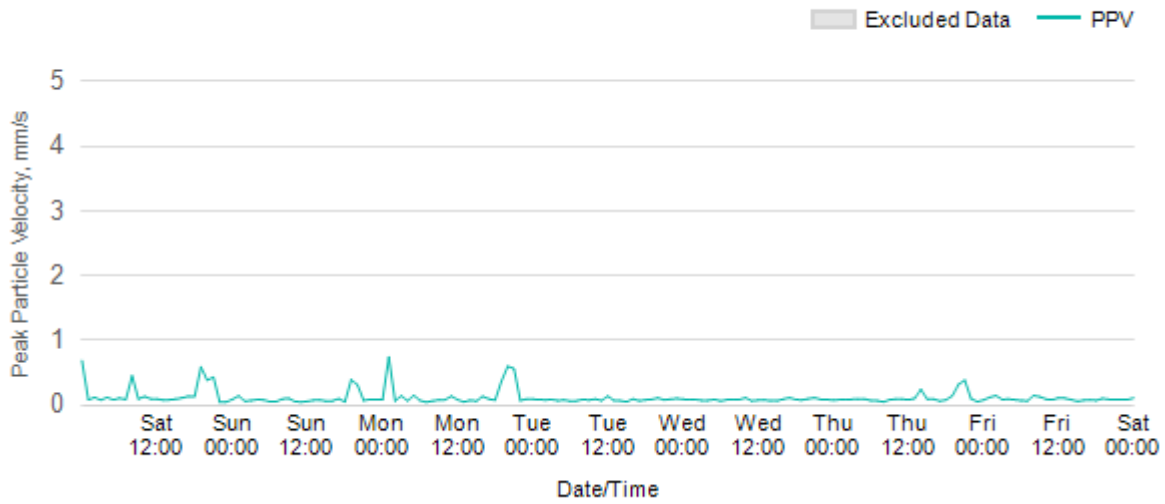
Worksite: GPWVS Monitoring Ref: V053 08 February 2026 to 14 February 2026



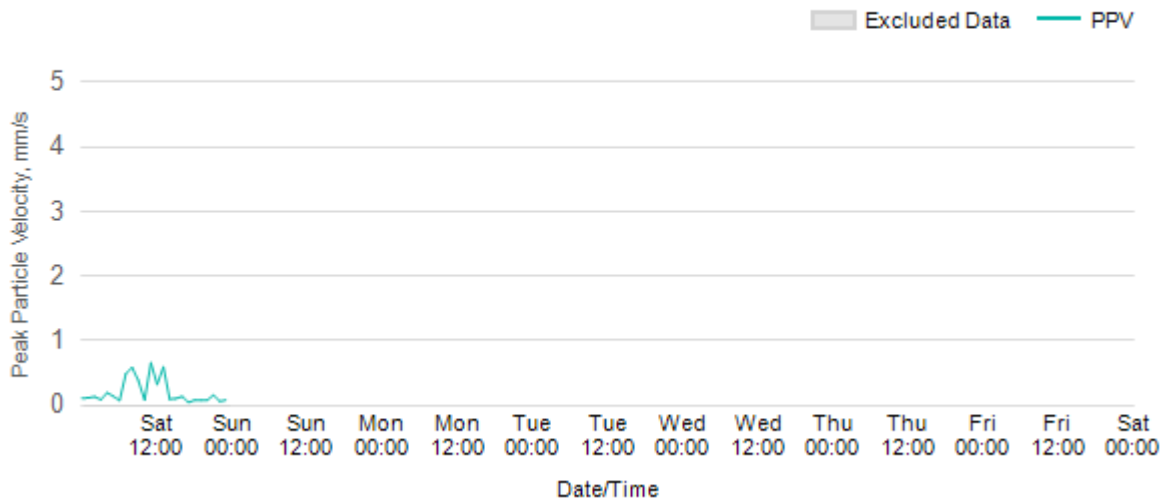
Worksite: GPWVS Monitoring Ref: V053 15 February 2026 to 21 February 2026



Worksite: GPWVS Monitoring Ref: V053 22 February 2026 to 28 February 2026

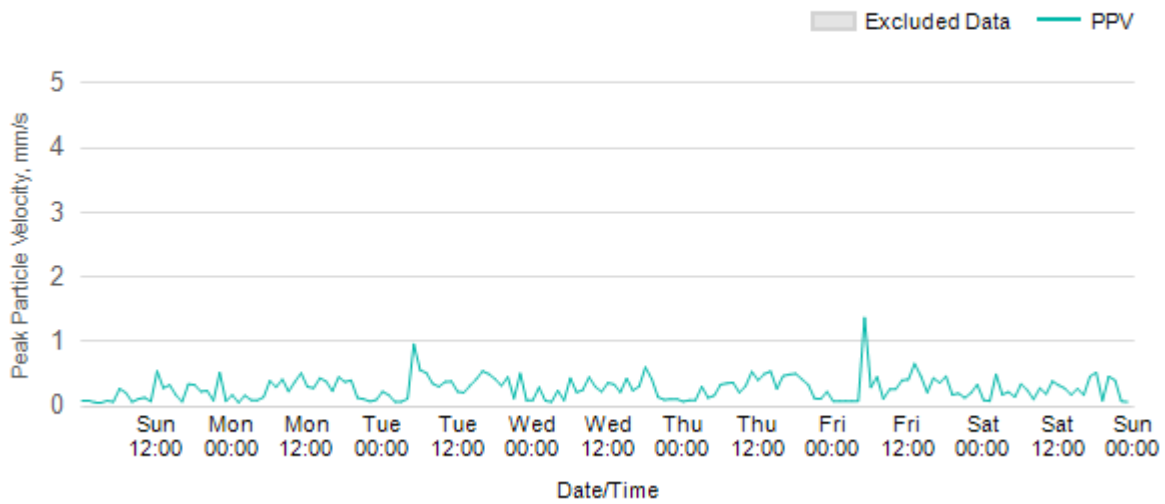


Worksite: GPWVS Monitoring Ref: V053 29 February 2026 to 7 March 2026

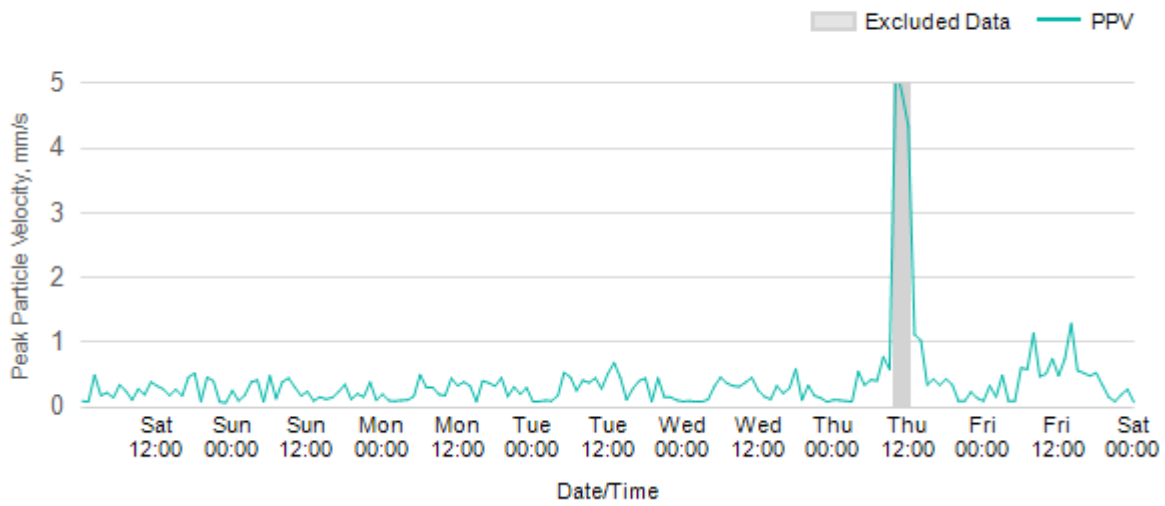


Worksite: GPWVS - Monitoring Ref: V054

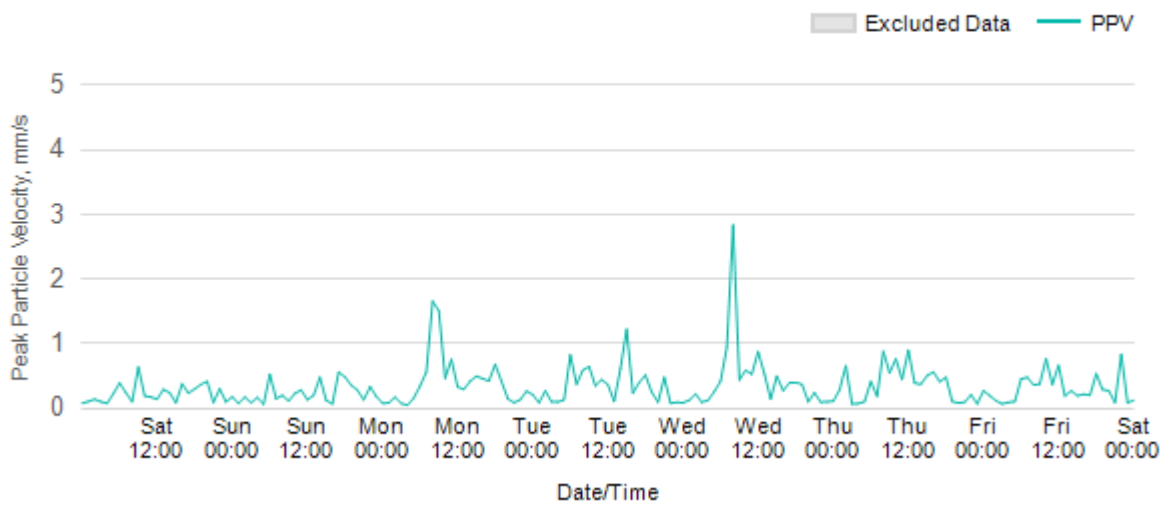
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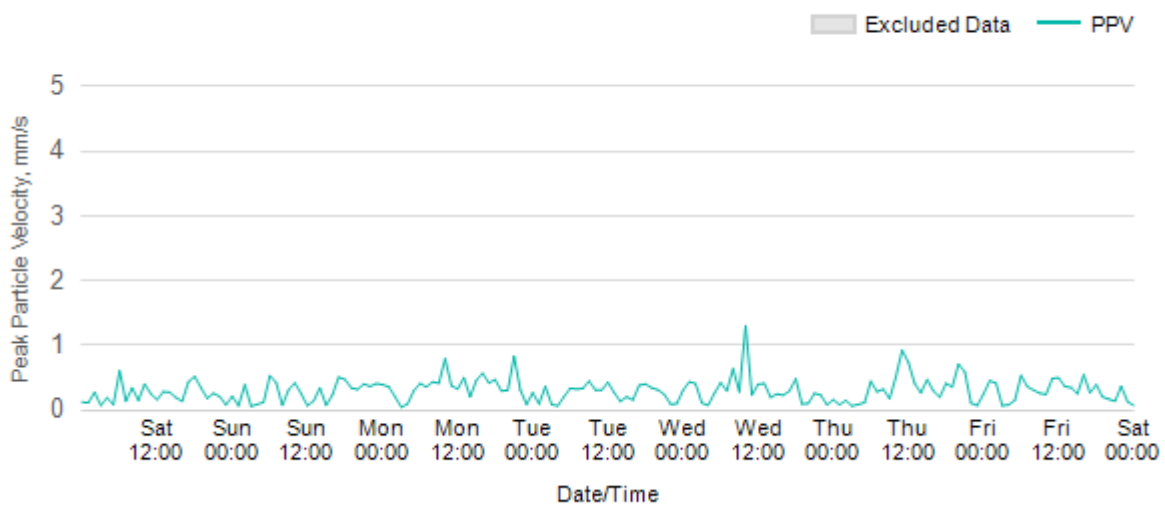
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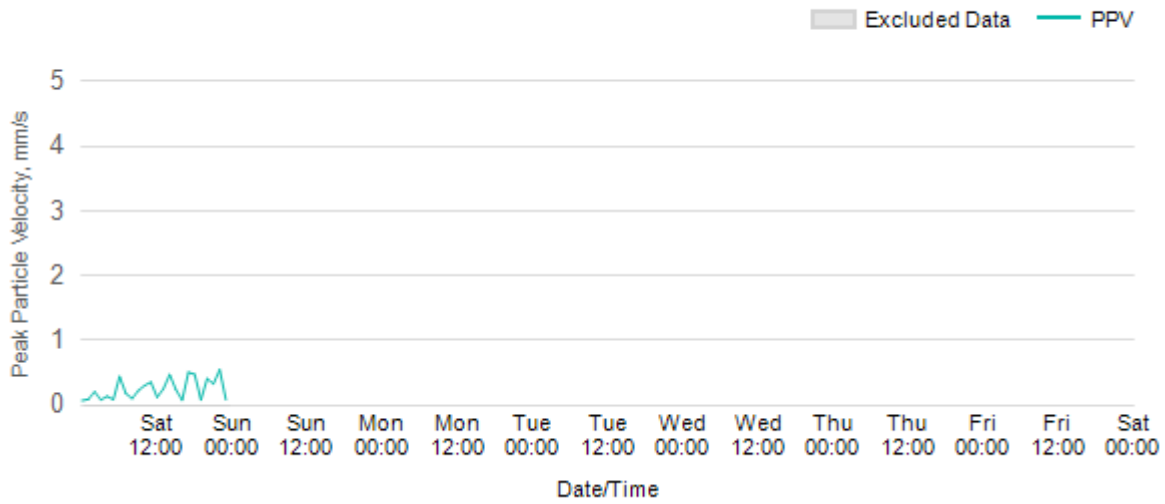
Worksite: GPWVS Monitoring Ref: V054 15 February 2026 to 21 February 2026



Worksite: GPWVS Monitoring Ref: V054 22 February 2026 to 28 February 2026

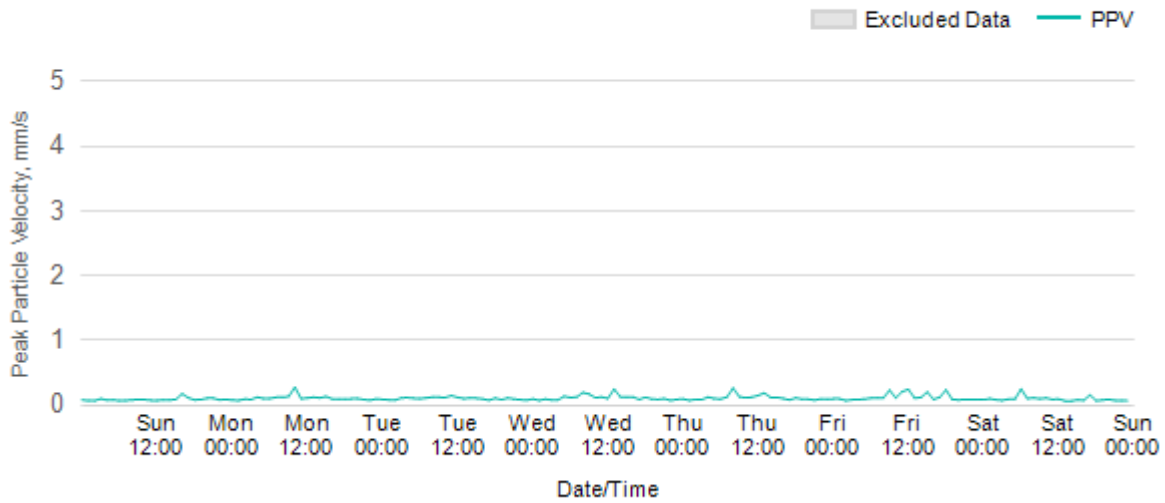


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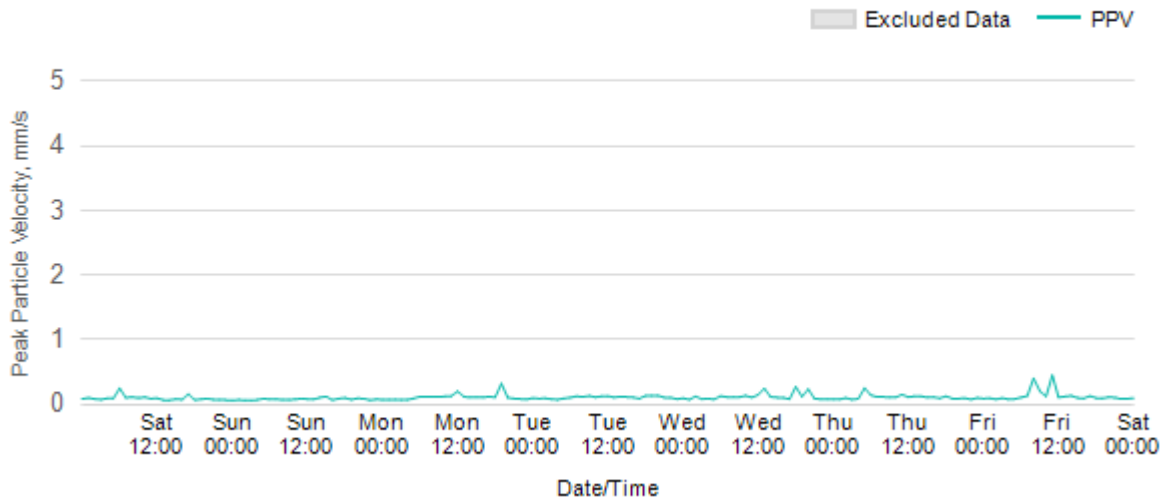


Worksite: WET - Monitoring Ref: V057

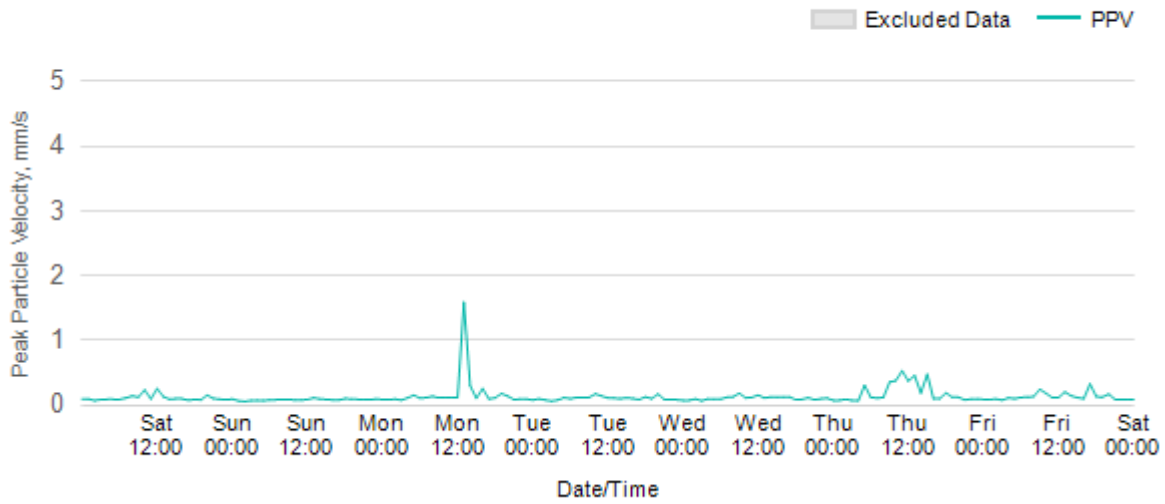
Worksite: WET Monitoring Ref: V057 01 February 2026 to 07 February 2026



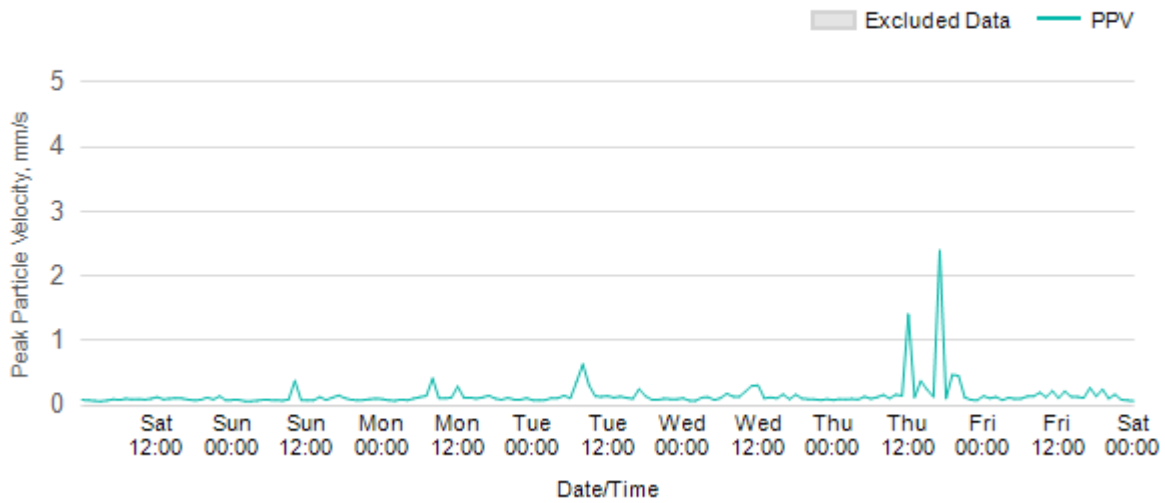
Worksite: WET Monitoring Ref: V057 08 February 2026 to 14 February 2026



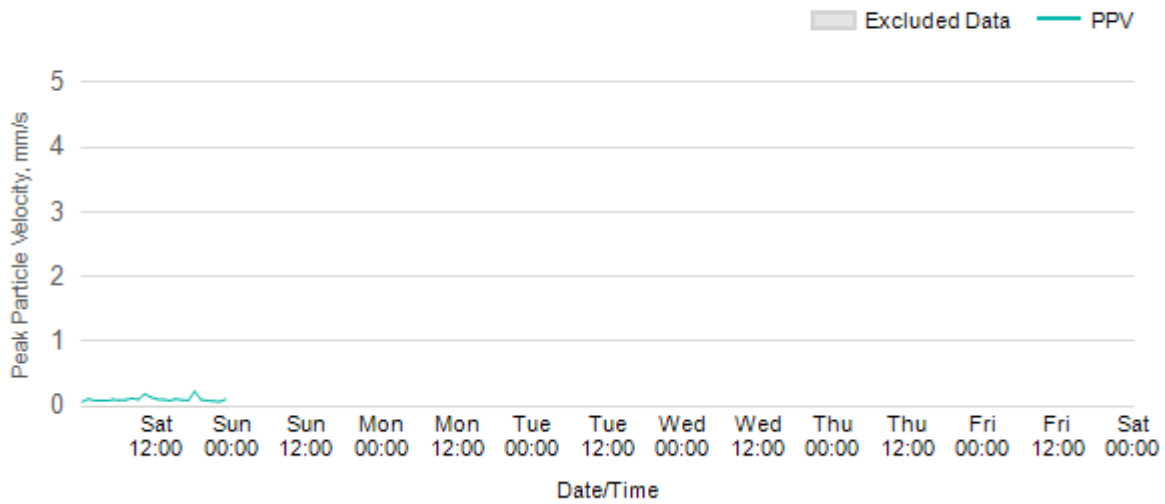
Worksite: WET Monitoring Ref: V057 15 February 2026 to 21 February 2026



Worksite: WET Monitoring Ref: V057 22 February 2026 to 28 February 2026

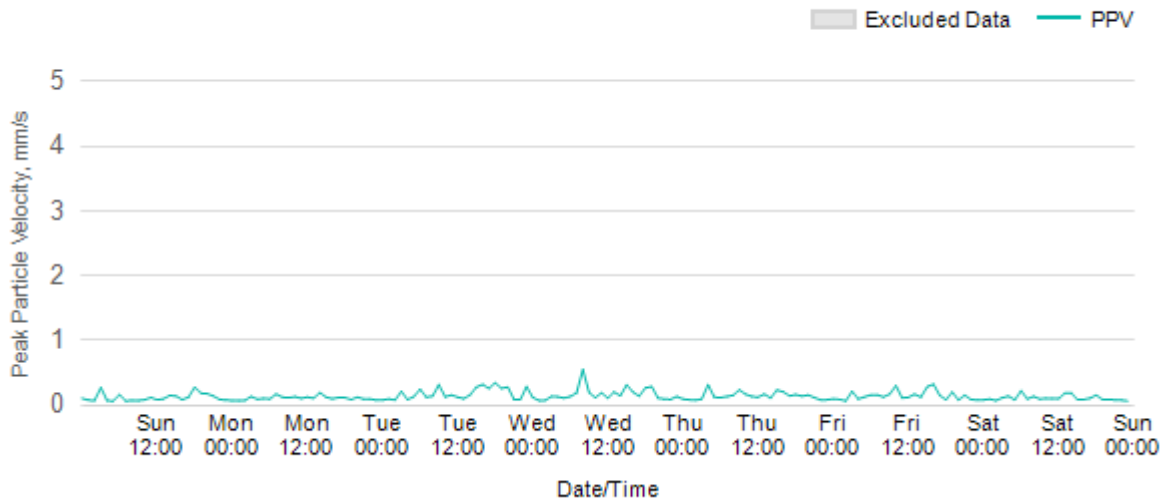


Worksite: WET Monitoring Ref: V057 29 February 2026 to 7 March 2026

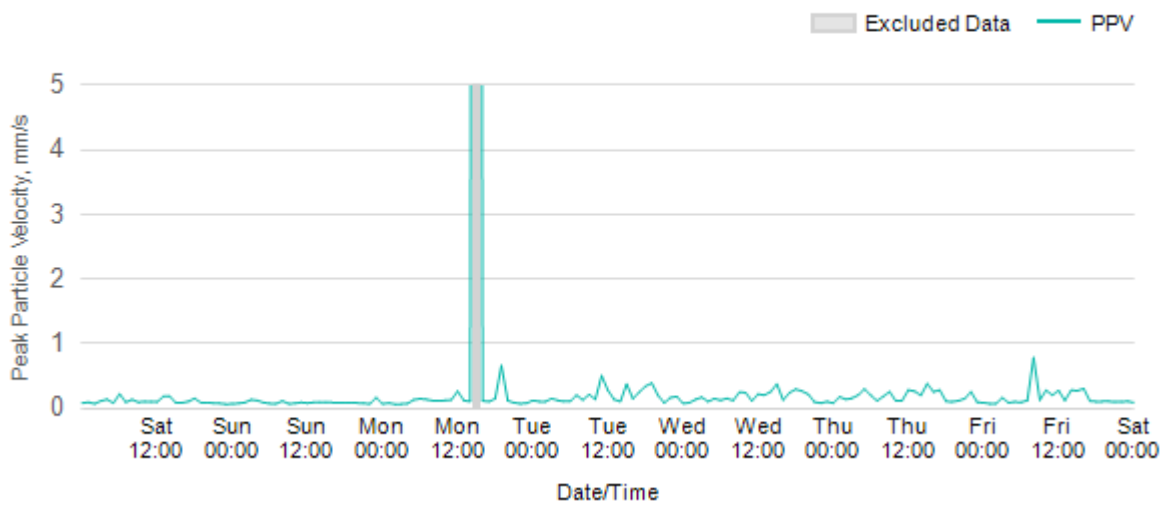


Worksite: WET - Monitoring Ref: V052b

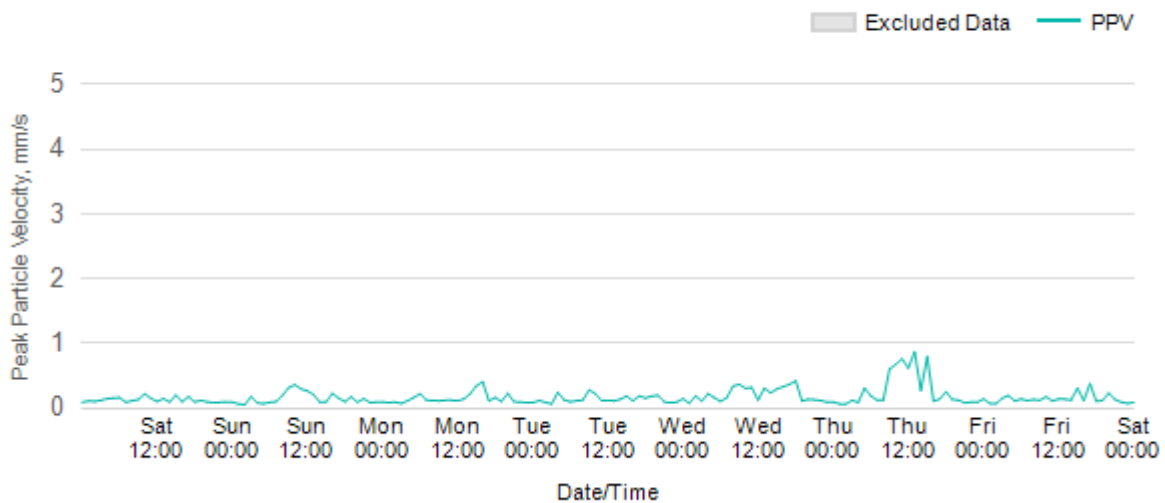
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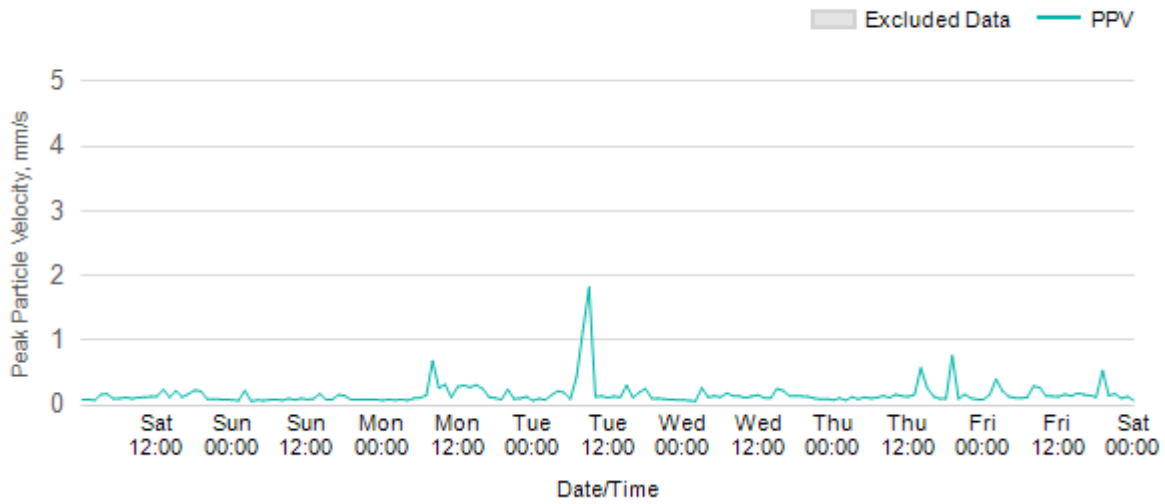
Worksite: WET Monitoring Ref: V052b 08 February 2026 to 14 February 2026



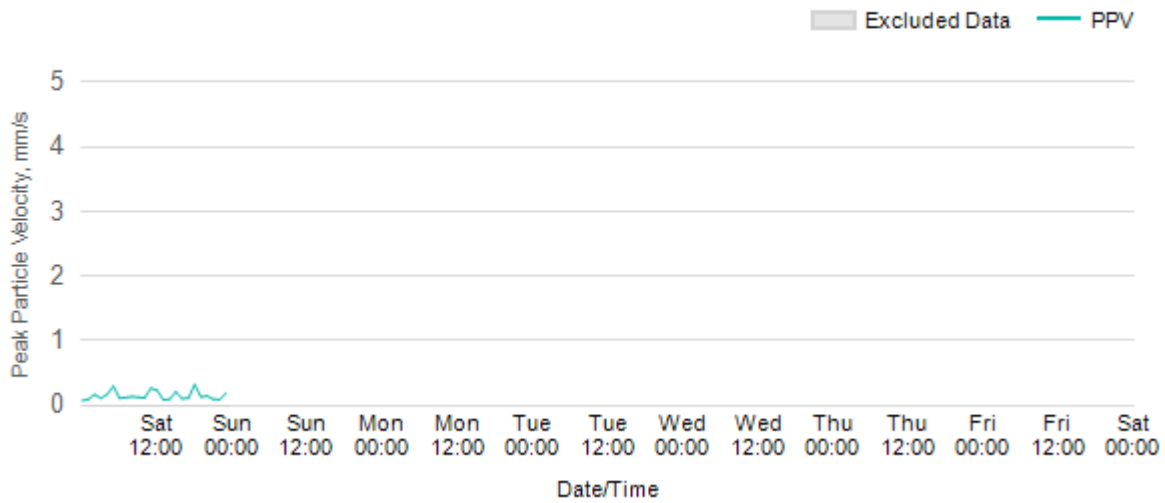
Worksite: WET Monitoring Ref: V052b 15 February 2026 to 21 February 2026



Worksite: WET Monitoring Ref: V052b 22 February 2026 to 28 February 2026

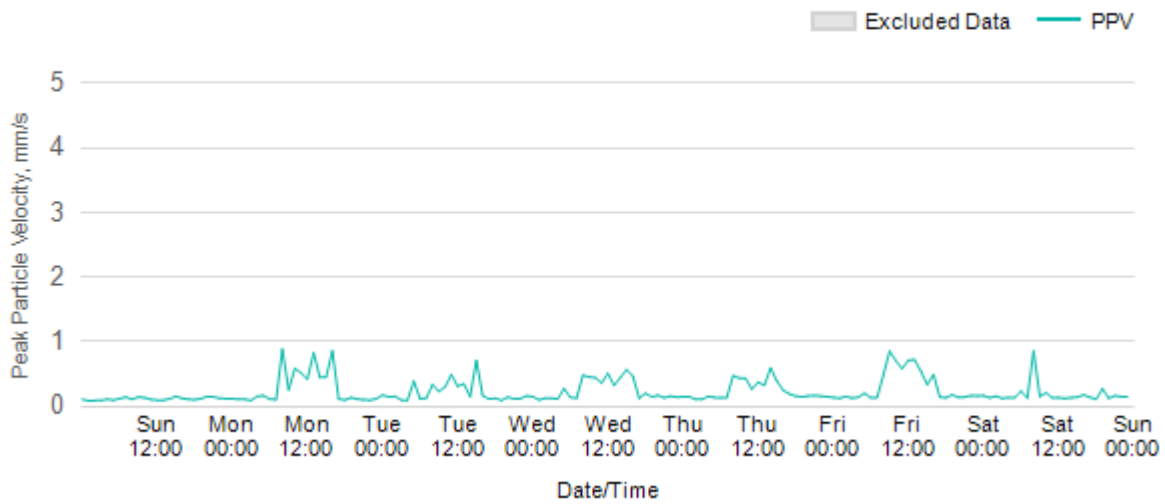


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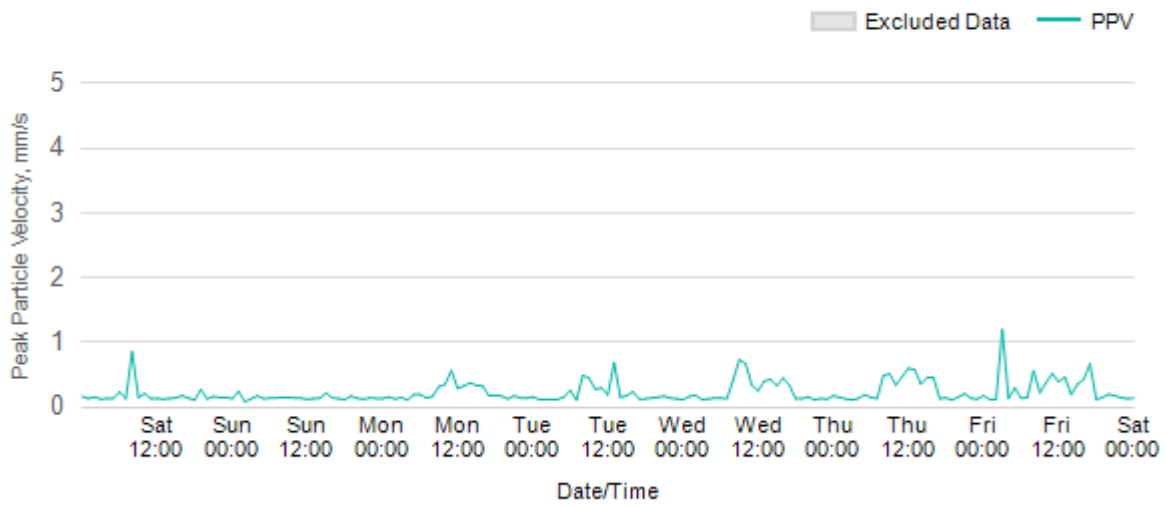


Worksite: MRVS - Monitoring Ref: V056a

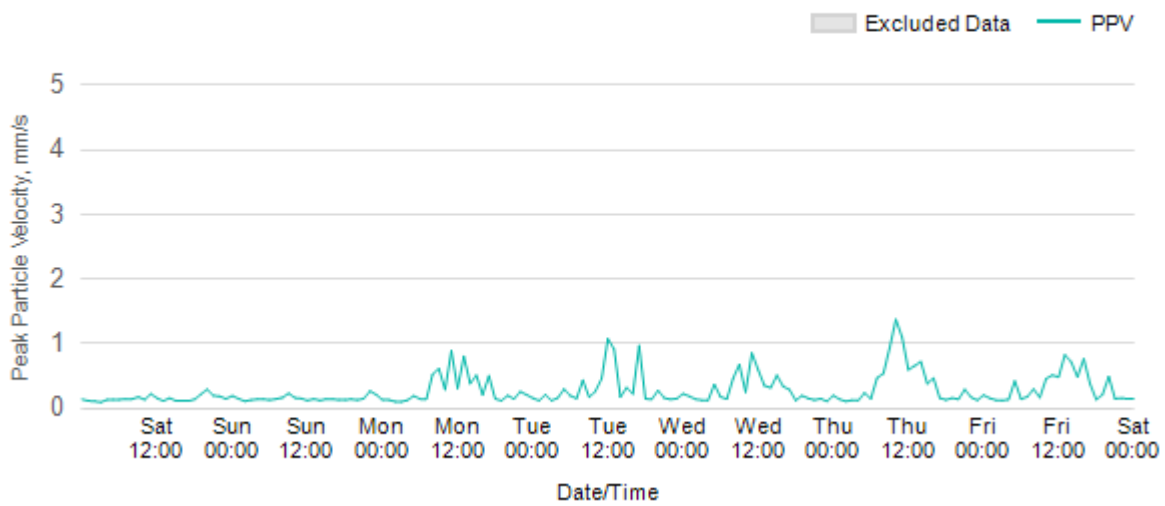
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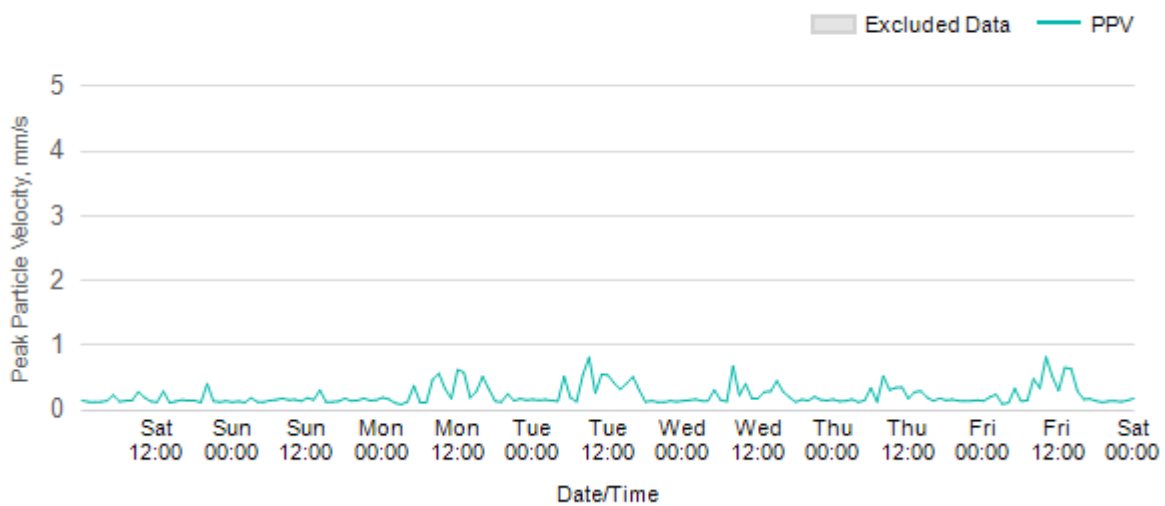
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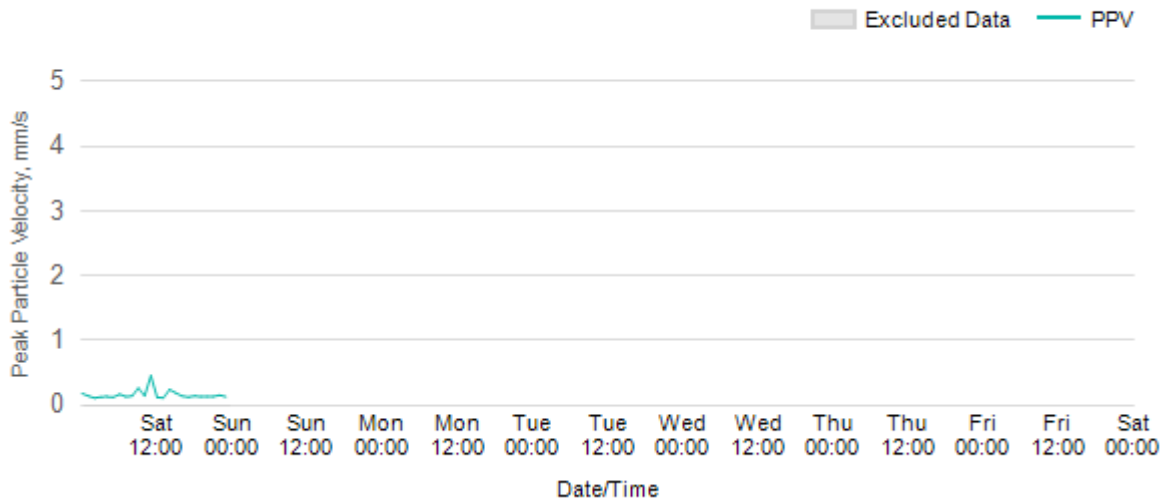
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Worksite: MRVS Monitoring Ref: V056a 22 February 2026 to 28 February 2026

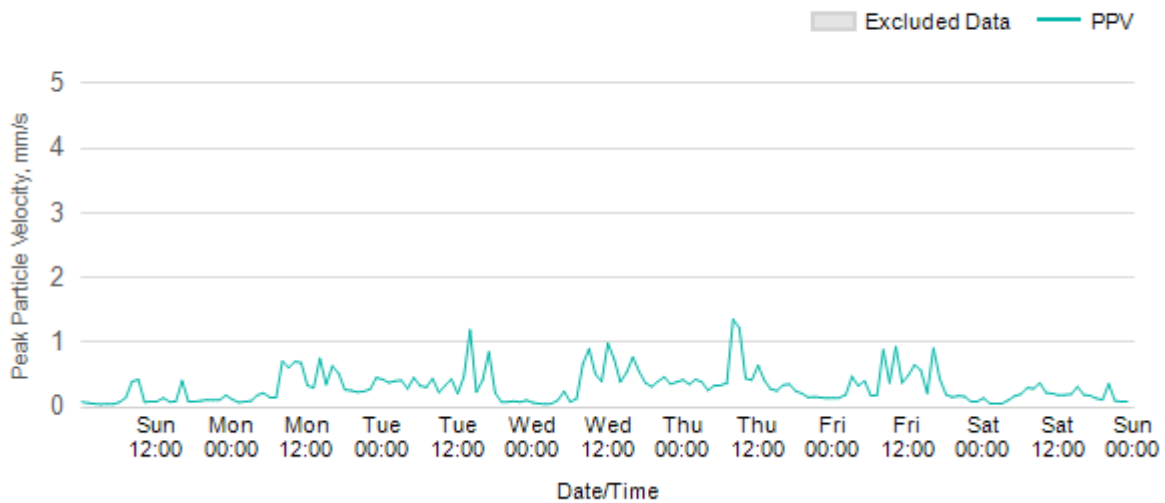


Worksite: MRVS Monitoring Ref: V056a 29 February 2026 to 7 March 2026

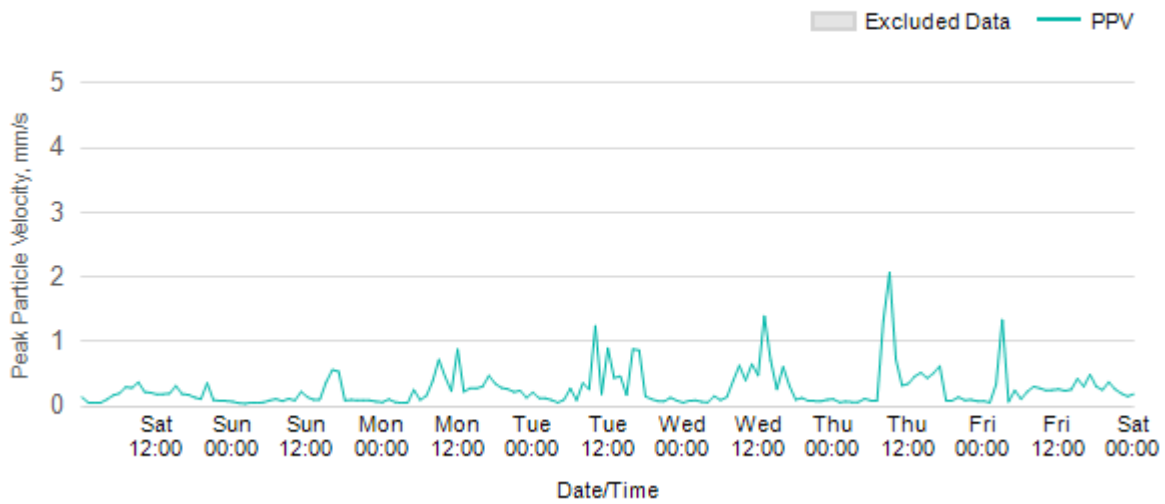


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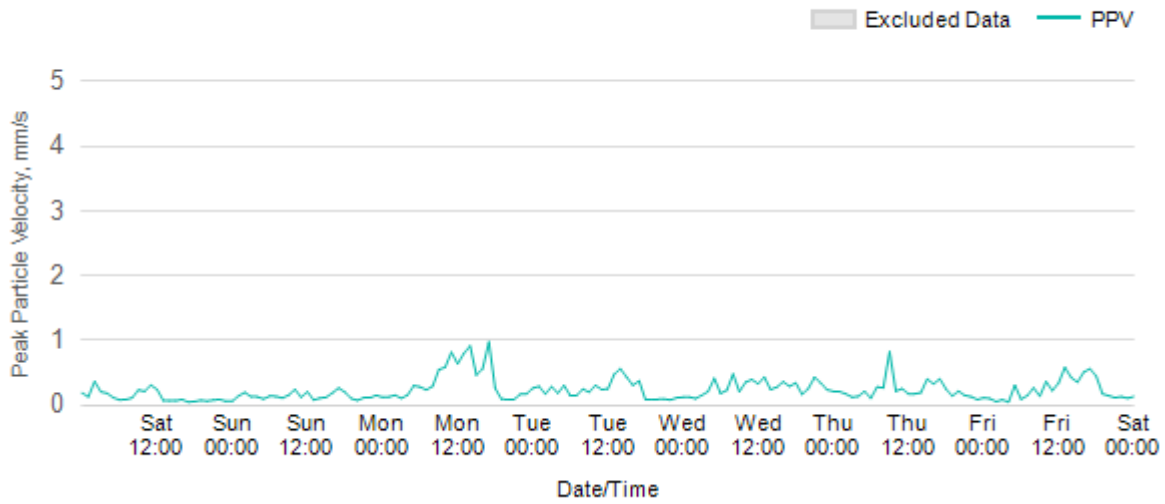
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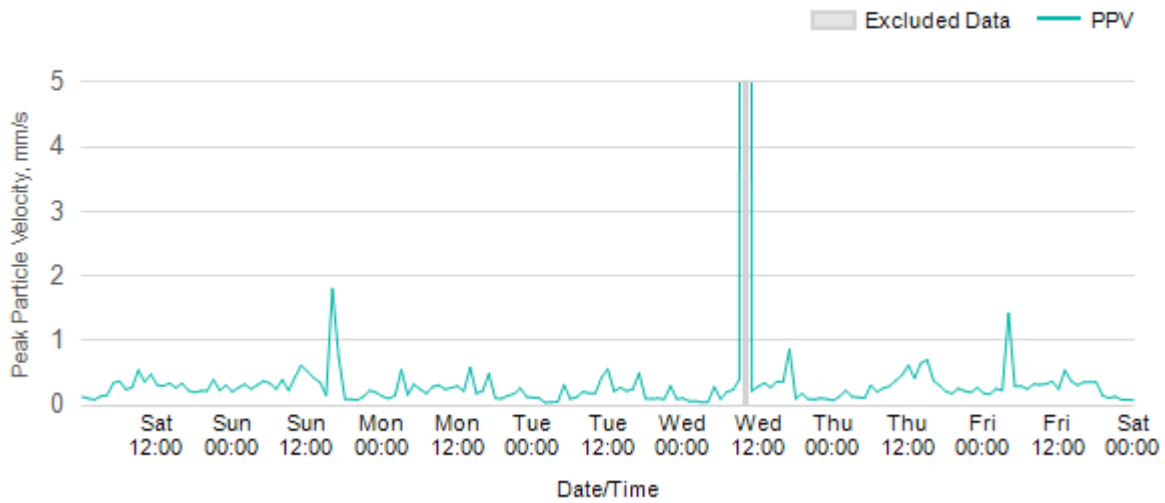
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Worksite: MRVS Monitoring Ref: V055b 15 February 2026 to 21 February 2026



Worksite: MRVS Monitoring Ref: V055b 22 February 2026 to 28 February 2026



Worksite: MRVS Monitoring Ref: V055b 29 February 2026 to 7 March 2026

