HS2

August 2026

Construction noise and vibration Monthly Report – August 2026

London Borough of Hillingdon

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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 Hillingdon during the month of August 2026.

Within this period monitoring was undertaken at the following worksites:

- West Ruislip Portal worksite (ref.: WRP) where maintenance of wildlife habitat, hydro-scabbling, formwork and reinforcement installation for headhouse and porous portal, removal of conveyor foundations, Ruislip golf course maintenance works, embankment reprofiling works, removal of tunnelling support structures, tunnel walkway construction, unloading of delivery and materials, sheet pile installation, and drainage installation for noise barrier works were underway.

- Northern Sustainable Placement Area worksite (Ref.: NSPA) where surface water and borehole management, and landscaping maintenance activities were underway.

- Harvil Road worksite (Ref.: HR) where construction of the Copthall Tunnel headhouse, earthworks, backfilling of tunnel and topsoiling, removal of TBM material stockpile, removal of conveyor foundations, installation of drainage, soil anchor testing, capping beam construction and L-wall installation, construction of track bed and drainage, fence removal, construction of Chiltern link, Eastern Portal construction, installation of noise barriers and Harvil Road bridge demolition preparation works were undertaken.

- Colne Valley Viaduct worksite (ref.: CVV) where soiling and seeding activities, landscaping, and earthworks were underway.

- South Ruislip Vent Shaft worksite (Ref.: SRVS) where general site activities, road sweeping, reinforced concrete works, concrete spraying, brickwork, steelworks and cladding for headhouse, concrete coring, digging and installing drainage chambers, UKPN connection works, cladding, brickworks and roofing of autotransformer building, and concrete breaking activities were underway.

- Breakspear Road South (Ref.: BR) where maintenance of siltbuster and attenuation pond, construction of the flood compensation area, excavation for drainage installation works, vegetation removal and installation of noise barriers were underway.

There were no exceedances of the HS2 threshold levels for significant noise impacts during the reporting period at any monitoring position.

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 London Borough of Hillingdon (LBH) area for the period 1-31 August 2026.

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

- Colne Valley Viaduct worksite ref.: CVV (See plan 1 in Appendix A), where work activities included:
    - Soiling and seeding
    - Landscaping
    - Earthworks
- Harvil Road worksite ref.: HR (See plan 2 in Appendix A), where work activities included:
    - Construction of the Copthall Tunnel headhouse, including installation of utility chambers, steel work, drainage connections and fire tank waterproofing
    - Earthworks for track bed including drainage
    - Backfilling of the tunnel and topsoiling
    - Removal of TBM material stockpile
    - Removal of conveyor foundations
    - Drainage works
    - Soil anchor testing
    - Capping beam construction and L-wall installation
    - Construction of track bed and drainage
    - Fence removal
    - Construction of Chiltern link
    - Construction of the Eastern Portal, including maintenance of walkways
    - Installation of noise barriers
    - Harvil Road bridge demolition preparation works
- West Ruislip Portal worksite, ref.: WRP (See plan 2 in Appendix A), where work activities included:
    - Maintenance of newly constructed wildlife habitat
    - Hydro-scabbling

    - Formwork and reinforcement installation and concrete placing for headhouse and porous portal construction
    - Removal of conveyor foundations
    - Ruislip golf course maintenance works, including vegetation clearance and tree pruning
    - Embankment reprofiling works, including excavation and material removal
    - Removal of tunnelling support structures
    - Tunnel walkway construction
    - Unloading of delivery and materials for formworks and reinforced concrete activities
    - Sheet pile installation
    - Drainage installation for noise barriers
- Breakspear Road South ref.: BR (See plan 2 in Appendix A), where work activities included:
    - Maintenance of siltbuster and attenuation pond
    - Construction of the flood compensation area
    - Excavation for installation of drainage
    - Vegetation removal at the River Pinn
    - Installation of noise barriers
- Northern Sustainable Placement Area worksite ref.: NSPA (See plan 3 in Appendix A), where work activities included:
    - Surface water and borehole management
    - Landscaping maintenance.
- South Ruislip Vent Shaft worksite ref.: SRVS (See plan 4 in Appendix A), where work activities included:
    - General site management including site security
    - Road sweeping
    - Reinforced concrete works in shafts
    - Steelworks and cladding for headhouse
    - Digging and installing chambers for drainage
    - UKPN connection works on Old Dairy Lane
    - Cladding, brickworks and roofing of autotransformer building
    - Concrete breaking

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 15 noise and 3 vibration monitoring installations were active in August in the London Borough of Hillingdon area. Tables 2a and 2b summarise the position of noise and vibration monitoring installations within the London Borough of Hillingdon area in August 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
BR	BSR-N002	Breakspear Road South
	HC-N002	Hoylake Crescent
CVV	DLC-NMP	Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge, UB9 6JN
	HFM-NMP	Harefield Marina, Moorhall Road, London Borough of Hillingdon, London, Greater London, England, UB9 6PD, United Kingdom
WRP	N048	The Fairway Pub
	N056	The Greenway
	N057	The Greenway
	TKL-N001	Tile Kiln Lane
	WRP-N001	Ruislip Golf Course
SRVS	N061	South Ruislip Cineworld
	TCA-N001	Trenchard Avenue
HR	N067	Harvil Road
	SSPA-N001	SSPA Eastern boundary
	DGT-N001	Dogs Trust, Newyears Green Lane
NSPA	NSPA-N001a	Newyears Green Lane

Table 2b: Vibration Monitoring Locations

Worksite Reference	Measurement Reference	Address
WRP	GW-V001	95 The Greenway, Ickenham, Uxbridge
BR	HC-V002	Hoylake Crescent, Ickenham, Uxbridge
SRVS	SRVS-V001a	Braintree Road Industrial Estate

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
CVV	DLC-NMP	Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge	Façade	50.2 (59.6)	56.8 (60.7)	46.8 (52.4)	47.8 (59.6)	45.6 (53.5)	48.4 (52.1)	49.5 (56.0)	45.4 (47.8)	47.9 (62.5)	47.6 (59.1)	47.6 (56.5)	45.2 (60.8)
	HFM-NMP	Harefield Marina, Moorhall Road, London Borough of Hillingdo	Free field	46.3 (48.2)	47.4 (49.5)	45.0 (46.7)	45.0 (49.1)	42.1 (51.0)	45.3 (48.2)	46.5 (47.3)	44.5 (45.2)	45.3 (48.1)	42.6 (47.6)	45.3 (48.8)	42.4 (47.3)
WRP	N048	The Fairway Pub	Free field	56.2 (68.1)	60.6 (64.1)	53.4 (58.3)	51.1 (56.6)	49.1 (57.4)	53.1 (61.0)	56.3 (59.8)	53.8 (55.9)	51.9 (58.0)	48.5 (55.3)	52.5 (59.3)	48.5 (56.2)
	N056	The Greenway	Façade	60.1 (61.3)	59.6 (60.9)	60.0 (61.0)	58.6 (61.0)	54.5 (60.7)	57.4 (58.4)	58.5 (59.1)	58.7 (59.0)	58.9 (61.1)	52.1 (59.6)	58.3 (60.9)	55.1 (59.2)
	N057	The Greenway	Façade	56.4 (57.7)	56.4 (59.2)	56.0 (57.4)	55.0 (57.2)	50.9 (56.5)	53.7 (54.6)	56.4 (60.8)	58.4 (64.1)	55.7 (65.3)	49.2 (55.2)	54.5 (57.9)	51.4 (55.9)
	TKL-N001	Tile Kiln Lane	Free field	47.0 (51.2)	47.7 (52.0)	45.8 (50.1)	44.7 (49.7)	43.2 (60.8)	45.5 (47.7)	47.2 (48.2)	48.5 (54.7)	45.2 (49.9)	43.2 (52.3)	46.0 (54.5)	42.0 (46.8)
	WRP-N001	Ruislip Golf Course	Free field	44.6 (49.4)	46.1 (51.8)	42.9 (48.8)	42.9 (47.9)	40.4 (49.1)	43.2 (46.3)	45.4 (47.0)	47.8 (51.6)	42.9 (46.1)	41.0 (51.5)	45.0 (54.0)	39.6 (48.6)
SRVS	N061	South Ruislip Cineworld	Free field	57.8 (62.2)	61.2 (62.9)	61.3 (66.0)	61.5 (67.0)	57.3 (77.2)	57.5 (59.0)	62.7 (64.2)	62.1 (64.1)	61.6 (64.0)	58.4 (67.2)	60.3 (64.7)	55.7 (63.3)
	TCA-N001	SSPA Eastern boundary	Free field	55.9 (62.2)	57.1 (60.4)	56.5 (61.2)	55.6 (58.6)	51.3 (62.1)	53.4 (55.3)	55.5 (58.0)	53.8 (56.1)	54.8 (59.7)	48.5 (56.1)	54.5 (59.2)	50.7 (56.0)
HR	N067	Harvil Road	Free field	54.3 (59.7)	55.4 (73.8)	51.3 (61.4)	53.2 (61.3)	51.3 (59.5)	49.4 (51.5)	54.9 (58.7)	49.5 (52.9)	52.7 (59.9)	49.6 (62.0)	54.0 (62.3)	50.6 (59.0)
	SSPA-N001	SSPA Eastern boundary	Free field	64.1 (65.9)	63.4 (64.4)	63.7 (65.7)	61.8 (66.6)	58.3 (66.0)	61.9 (63.3)	63.5 (65.5)	62.7 (63.4)	62.6 (64.9)	56.7 (61.2)	61.8 (64.1)	57.6 (65.1)
	DGT-N001	Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge	Façade	52.3 (54.9)	53.6 (64.4)	49.2 (53.3)	48.2 (53.6)	46.4 (54.7)	48.2 (52.6)	52.7 (57.8)	50.1 (54.1)	49.1 (54.4)	45.9 (52.8)	49.6 (57.2)	46.0 (53.3)
NSPA	NSPA-N001a	Newyears Green Lane	Free field	55.8 (58.1)	61.3 (73.7)	51.6 (55.6)	49.4 (54.1)	47.1 (57.1)	51.4 (54.3)	54.5 (55.4)	54.9 (55.7)	54.2 (63.7)	44.1 (50.1)	52.2 (60.8)	46.5 (56.3)

BR	BSR-N002	Breakspear Road South	Free field	52.1 (53.6)	56.2 (71.1)	51.6 (53.7)	50.1 (54.1)	47.1 (53.7)	50.8 (52.3)	52.0 (53.9)	52.5 (57.7)	50.6 (55.1)	46.6 (52.8)	50.6 (56.5)	46.6 (52.6)
	HC-N002	Hoylake Crescent	Free field	55.7 (56.6)	56.4 (61.5)	56.2 (61.6)	54.6 (60.1)	50.6 (57.3)	53.2 (54.4)	59.3 (73.3)	56.3 (59.6)	54.7 (57.2)	49.3 (54.6)	54.7 (61.9)	51.7 (63.1)

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
BR	HC-V002	Hoylake Crescent, Ickenham, Uxbridge	0.48 (Z-axis)
SRVS	SRVS-V001a	Braintree Road Industrial Estate	2.75 (Z-axis)
WRP	GW-V001	95 The Greenway, Ickenham, Uxbridge	0.80 (Y-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
BR	BSR-N002	Breakspear Road South, Harefield	Weekday	0800 - 1800	1	No exceedances
	HC-N002	Hoylake Crescent, Ickenham, Uxbridge	Saturday	0800 - 1300	1	No exceedances
			Night	2200 - 0700	1	No exceedances
CVV	DLC-NMP	Dews Lane, Uxbridge	Weekday	1900 - 2200	1	No exceedances
			Saturday	1400 - 2200	1	No exceedances
			Sunday	0700 - 2200	1	No exceedances
			Night	2200 - 0700	23	No exceedances
	HFM-NMP	Moorhall Road, Harefield, Uxbridge	Night	2200 - 0700	3	No exceedances
HR	N067	Harvil Road worksite south boundary	Weekday	0800 - 1800	1	No exceedances
				1800 - 1900	1	No exceedances
				1900 - 2200	7	No exceedances
			Saturday	1400 - 2200	3	No exceedances
			Sunday	0700 - 2200	5	No exceedances
			Night	2200 - 0700	28	No exceedances
	SSPA-N001	SSPA Eastern boundary	Weekday	0700 - 0800	1	No exceedances
				1900 - 2200	6	No exceedances
			Saturday	1400 - 2200	3	No exceedances
			Night	2200 - 0700	65	No exceedances
	DGT-N001	Dogs Trust West London	Sunday	0700 - 2200	1	No exceedances
			Night	2200 - 0700	26	No exceedances
NSPA	NSPA-N001a	Newyears Green Lane	Weekday	0700 - 0800	1	No exceedances
				0800 - 1800	6	No exceedances
				1900 - 2200	4	No exceedances
			Saturday	1400 - 2200	4	No exceedances
			Sunday	0700 - 2200	3	No exceedances
			Night	2200 - 0700	24	No exceedances
SRVS	N061	Cineworld South Ruislip car park, Ruislip	All days	All periods	No exceedances	No exceedances

	TCA-N001	Trenchard Avenue, Ruislip	Night	2200 - 0700	14	No exceedances
WRP	N048	West Ruislip Golf Club, Ickenham Rd, Ruislip	Weekday	0700 - 0800	1	No exceedances
				1900 - 2200	1	No exceedances
			Saturday	1400 - 2200	2	No exceedances
			Sunday	0700 - 2200	4	No exceedances
			Night	2200 - 0700	27	No exceedances
	N056	83 The Greenway, Ickenham, Ruislip	Weekday	1900 - 2200	3	No exceedances
			Saturday	1400 - 2200	2	No exceedances
			Sunday	0700 - 2200	3	No exceedances
			Night	2200 - 0700	31	No exceedances
	N057	123 The Greenway, Ickenham, Ruislip	Saturday	1300 - 1400	1	No exceedances
				1400 - 2200	1	No exceedances
			Night	2200 - 0700	31	No exceedances
	TKL-N001	Tile Kiln Lane, Harefield, Uxbridge	Sunday	0700 - 2200	1	No exceedances
			Night	2200 - 0700	12	No exceedances
	WRP-N001	West Ruislip Golf Club, Ickenham Rd, Ruislip	Sunday	0700 - 2200	1	No exceedances
			Night	2200 - 0700	8	No exceedances

2.2.6 There were exceedances of the LOAEL, during August 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
-	-	-	-

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

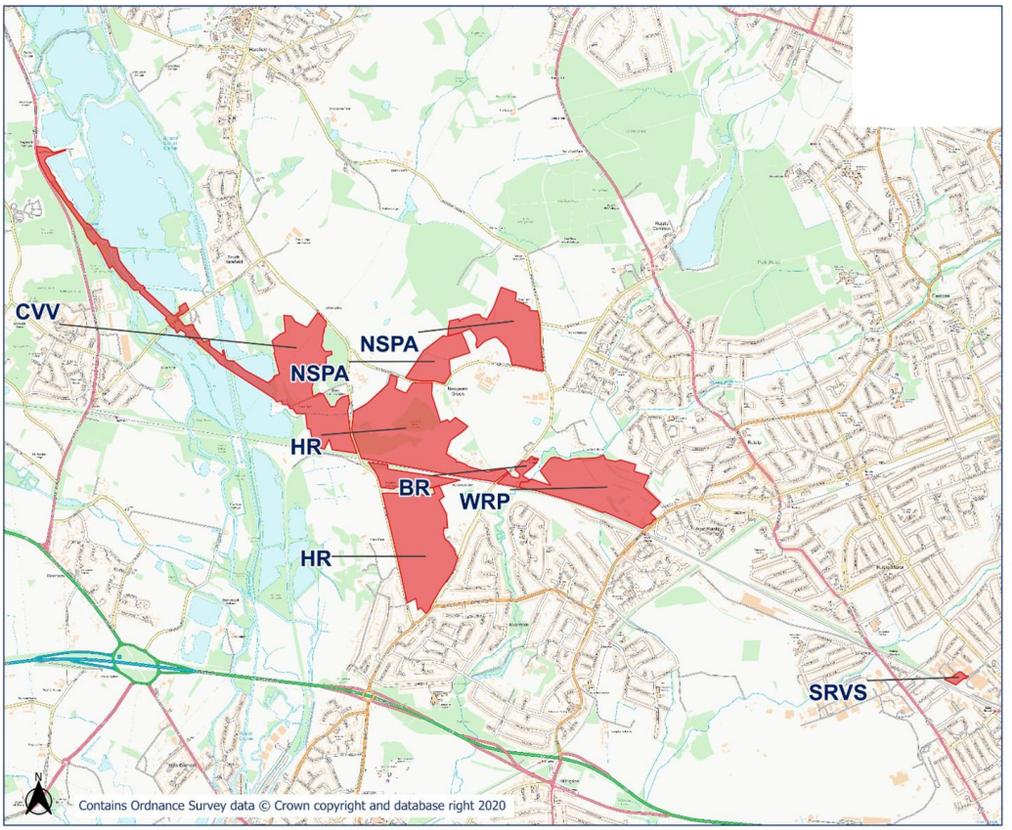
2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, monitor along with the findings of any investigation.

Table 8: Summary of Complaints

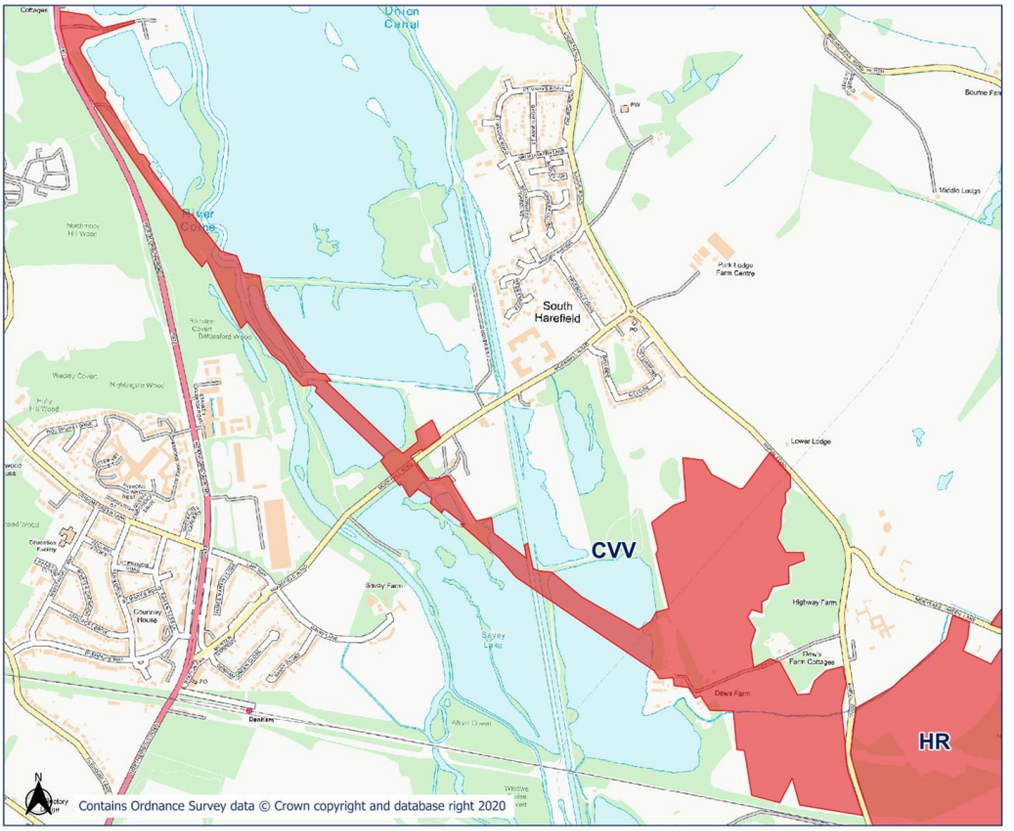
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
-	-	-	-	-

Appendix A Site Locations

HS2 **Worksite Identification Plan - Overview**



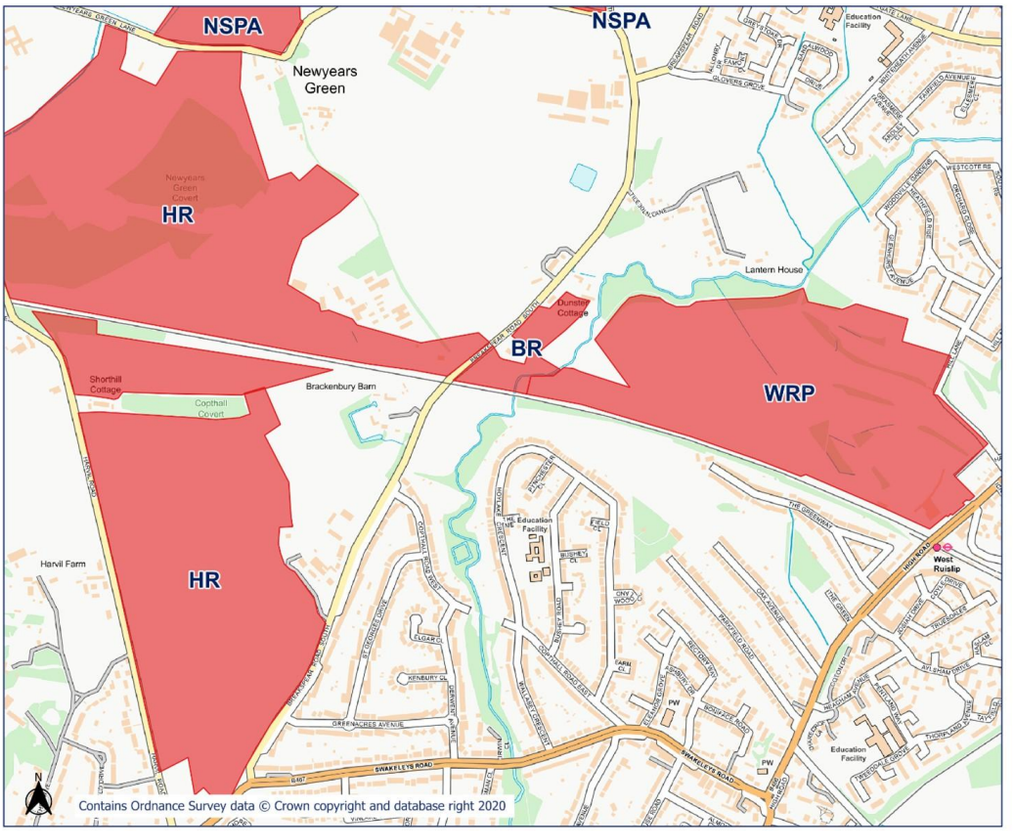
Worksite Identification Plan - 1



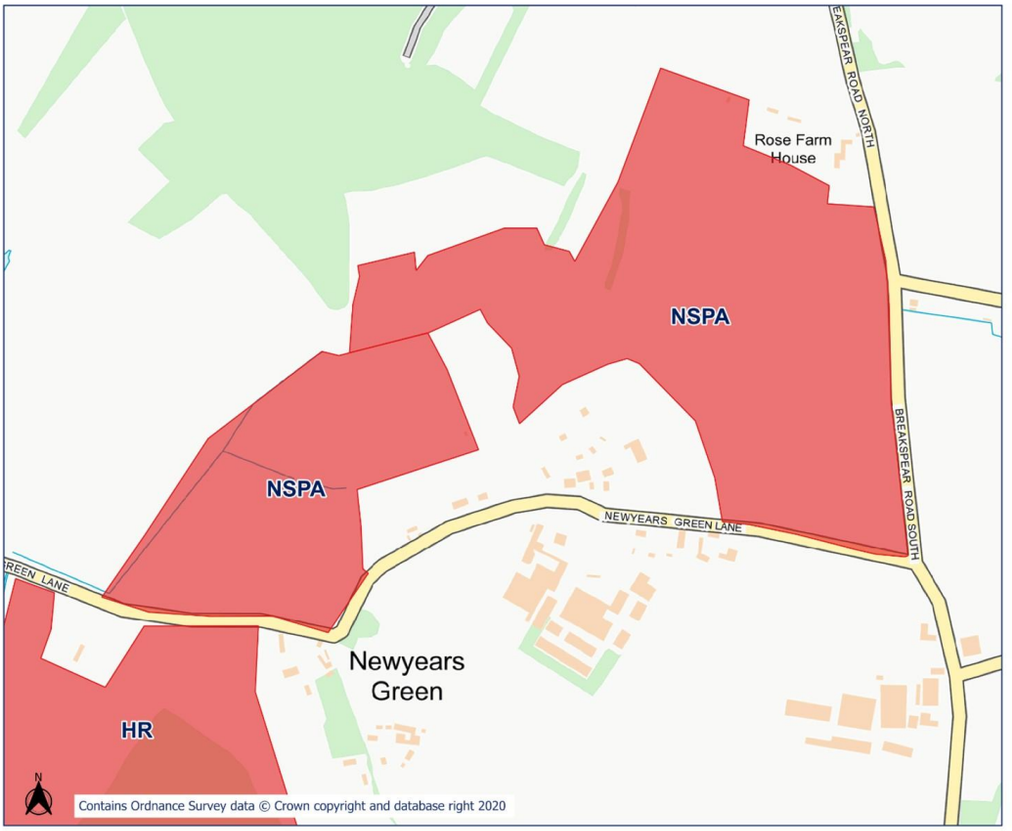
Legend

Active Worksites

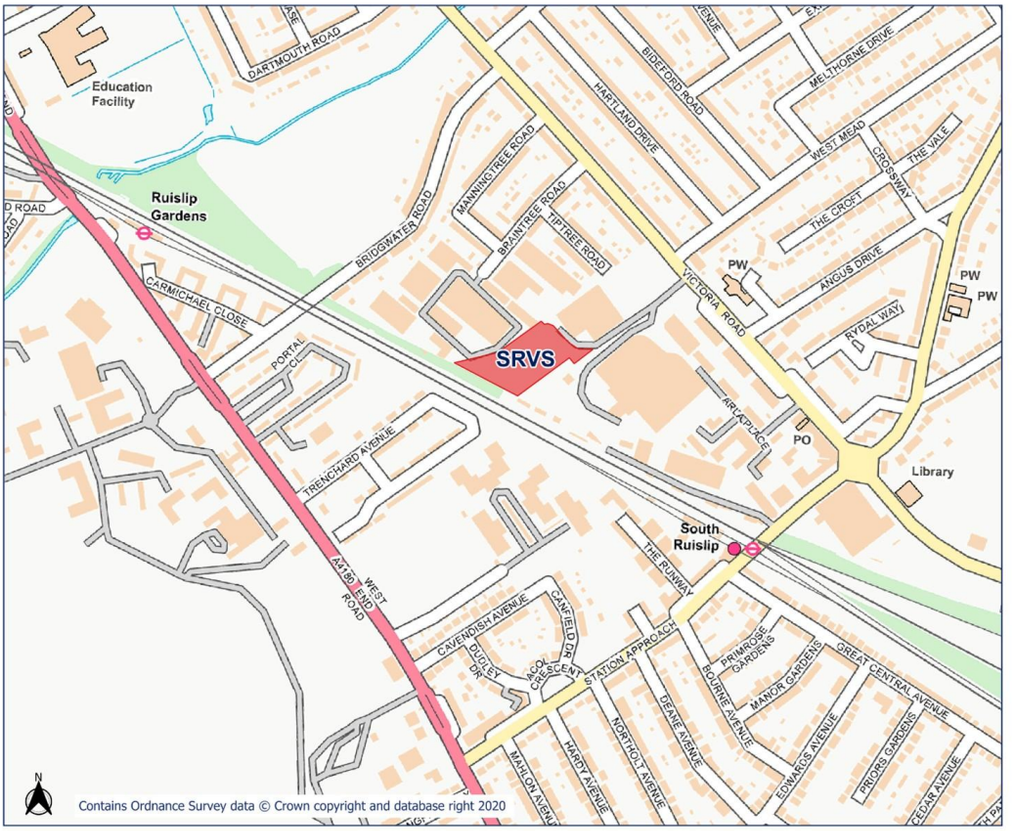
Worksite Identification Plan - 2



Worksite Identification Plan - 3

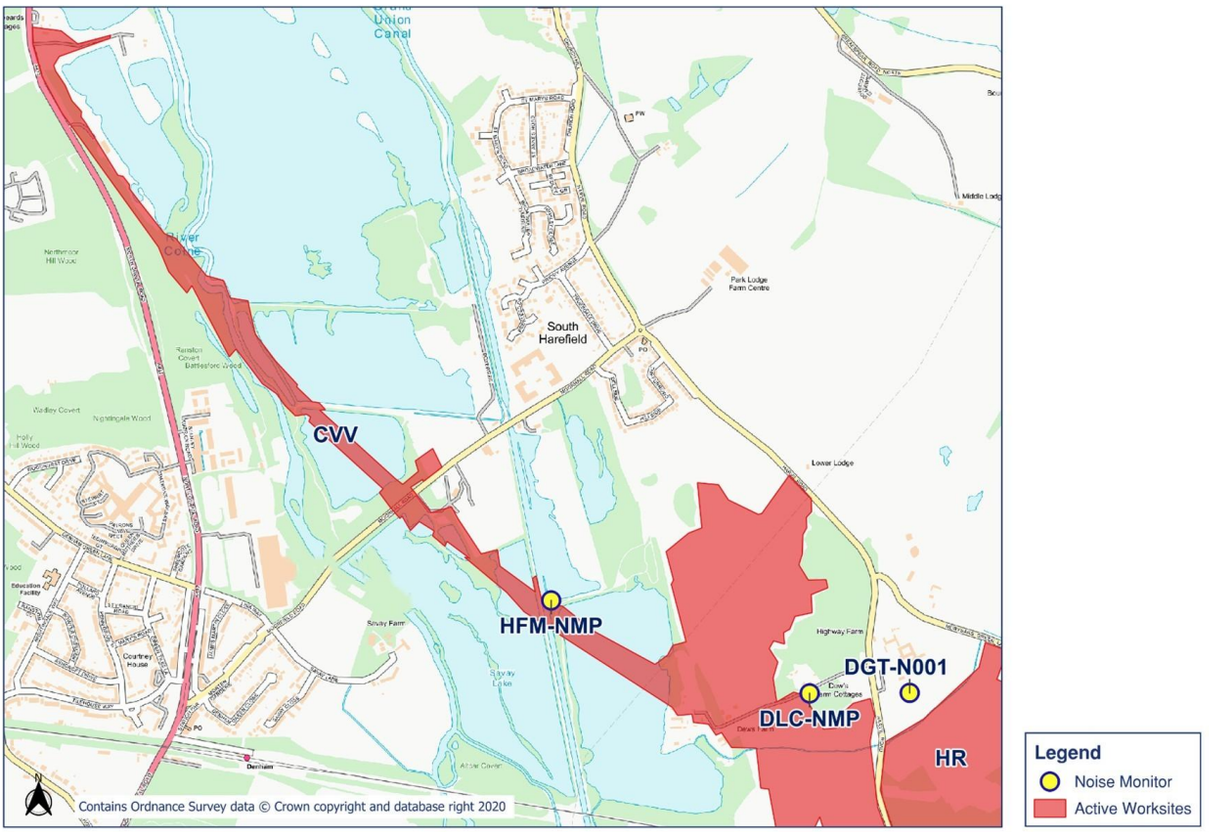


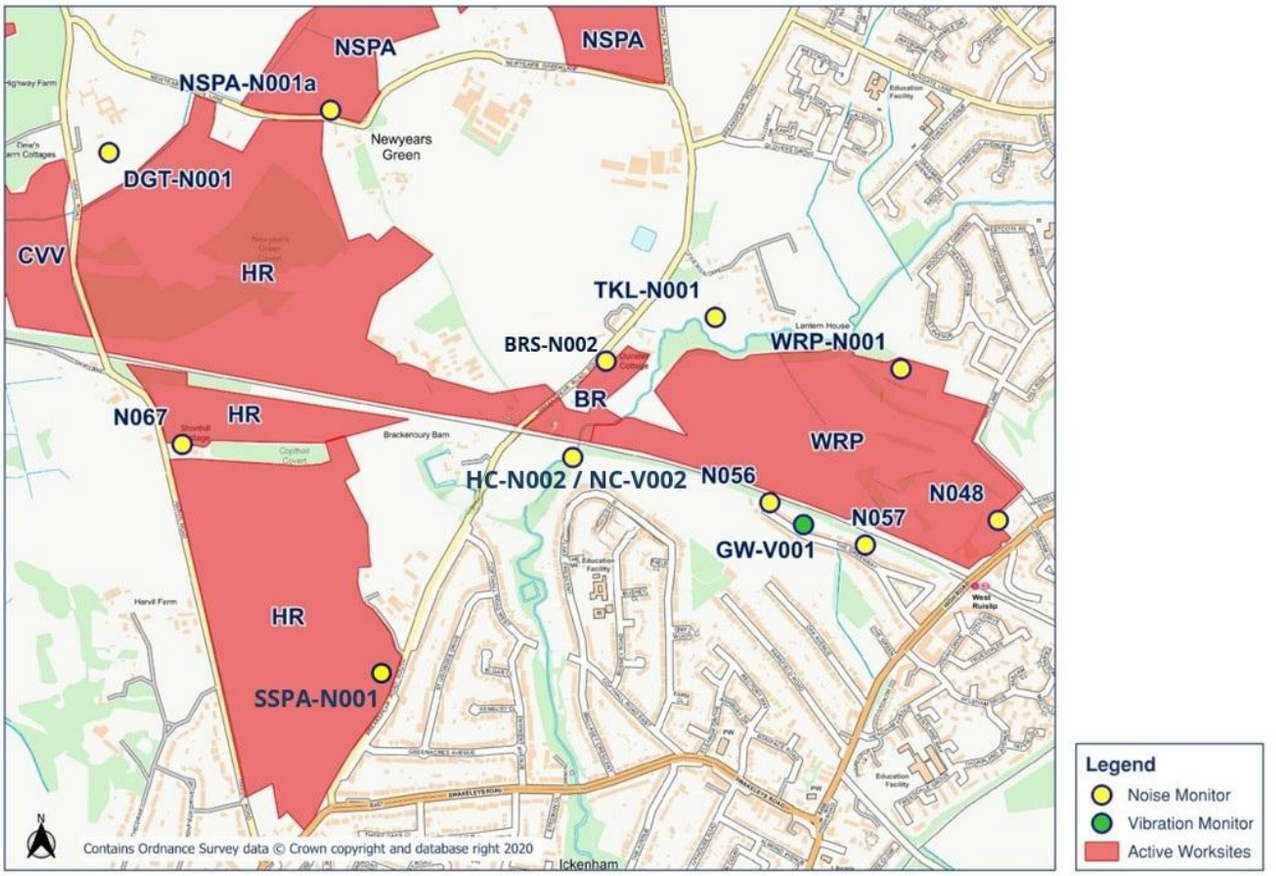
Worksite Identification Plan - 4

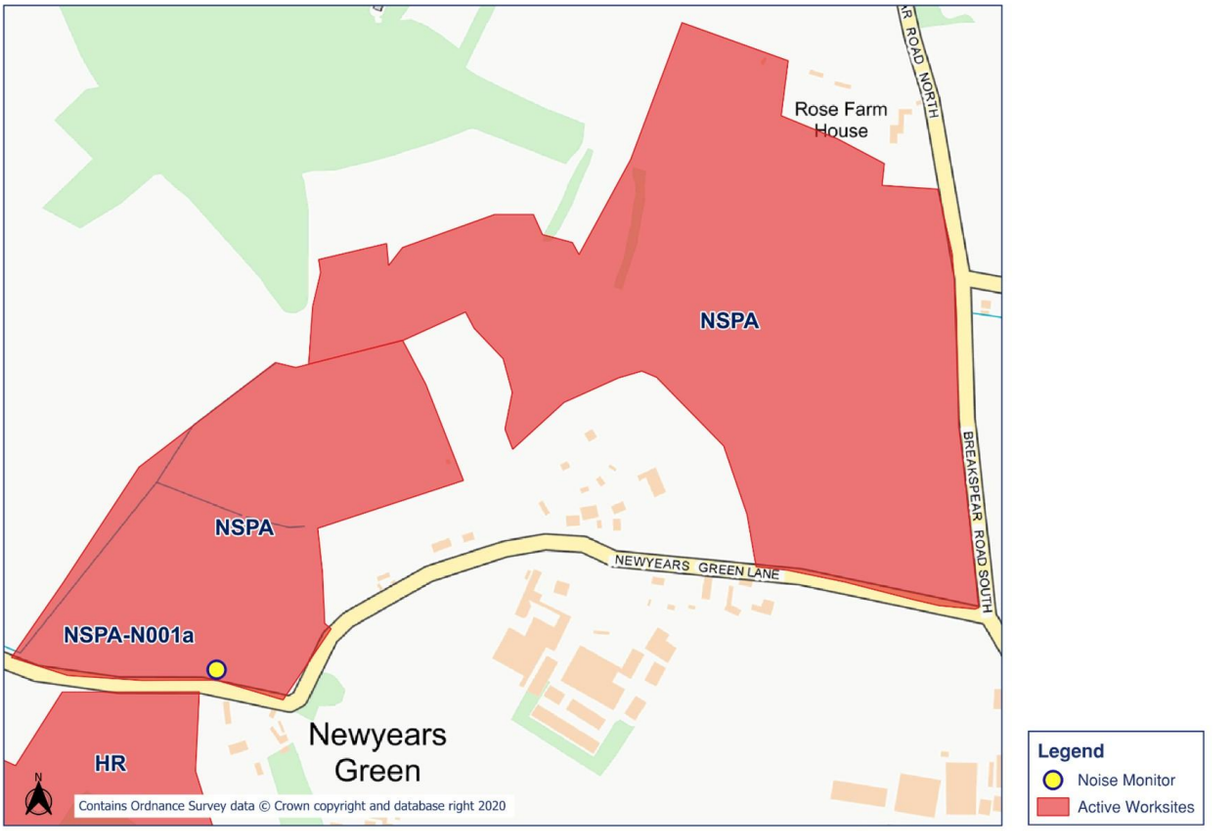


Appendix B Monitoring Locations

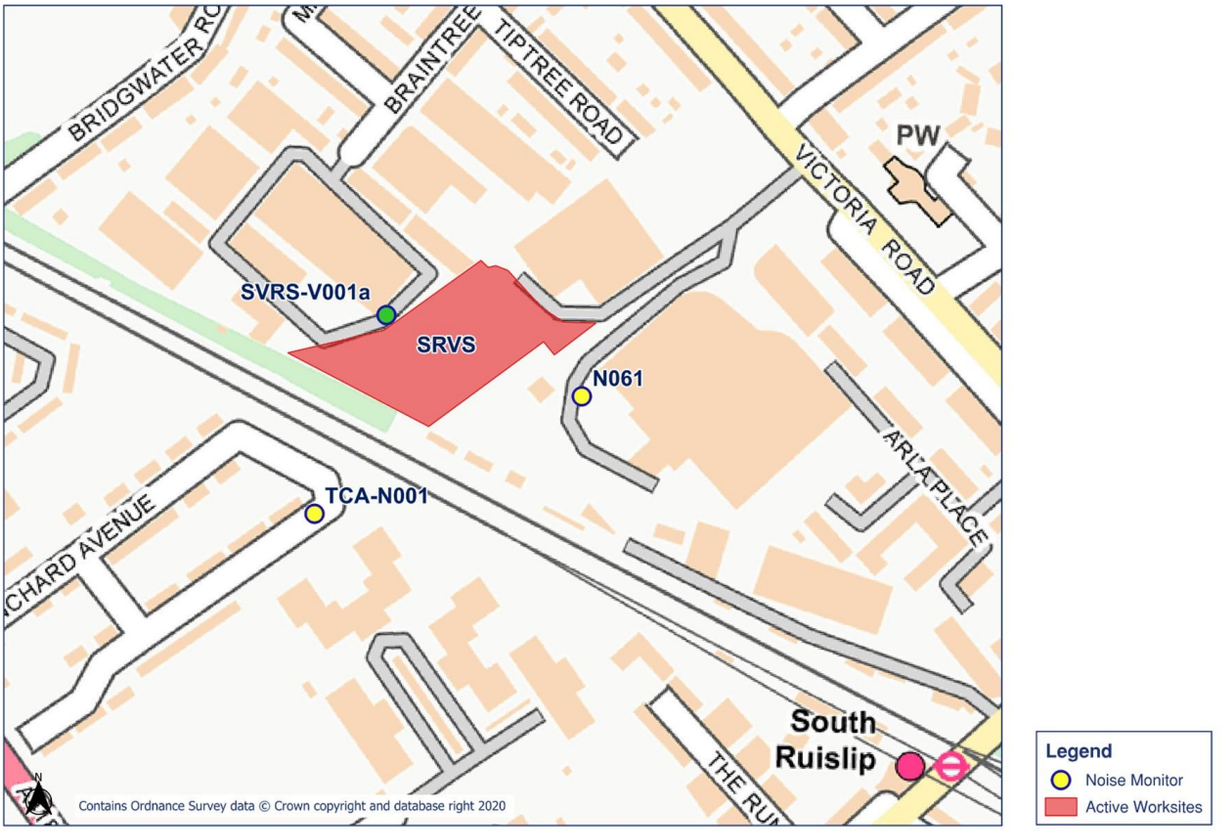
HS2 Noise and Vibration Monitoring Plan - 1




NSPA
NSPA
NSPA-N001a
Newyears Green
DGT-N001
CVV
HR
TKL-N001
BRS-N002
WRP-N001
BR
N067
HR
WRP
HC-N002 / NC-V002
N056
N048
N057
GW-V001
HR
SSPA-N001
Contains Ordnance Survey data © Crown copyright and database right 2020
Ickenham
Legend
Noise Monitor
Vibration Monitor
Active Worksites


Rose Farm House
NSPA
NSPA
NSPA-N001a
HR
NEWYEARS GREEN LANE
BREAKSPEAR ROAD SOUTH
Newyears Green
Contains Ordnance Survey data © Crown copyright and database right 2020
Legend
Noise Monitor
Active Worksites

Noise and Vibration Monitoring Plan - 4

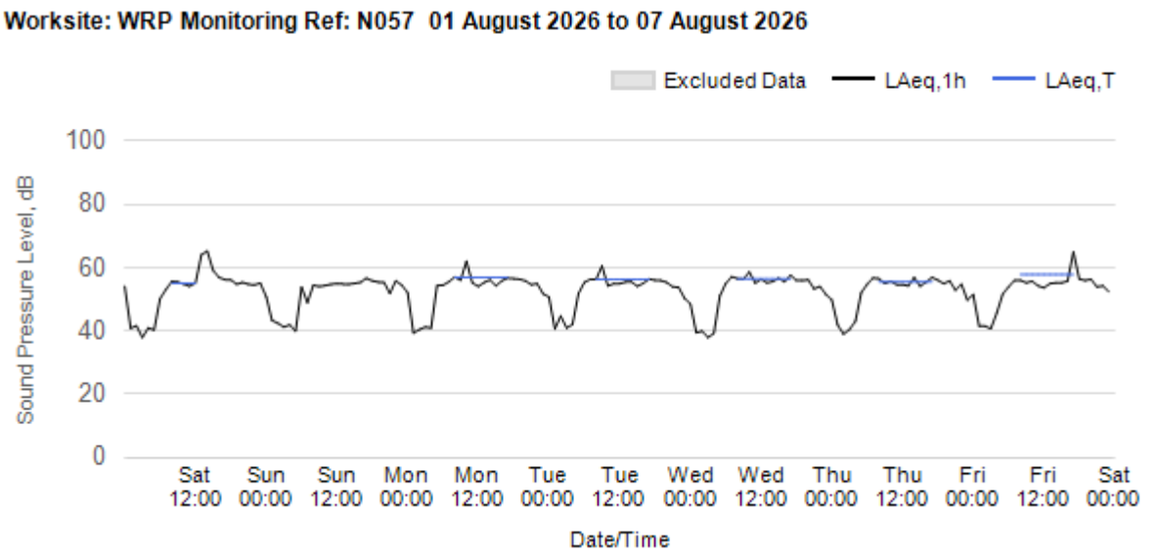


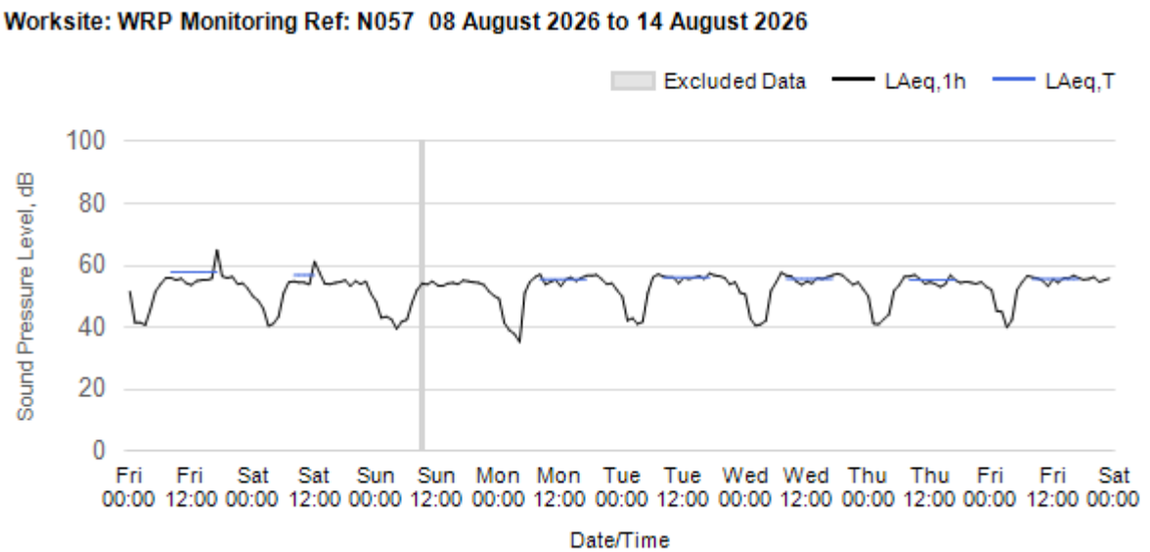
Appendix C Data

Noise

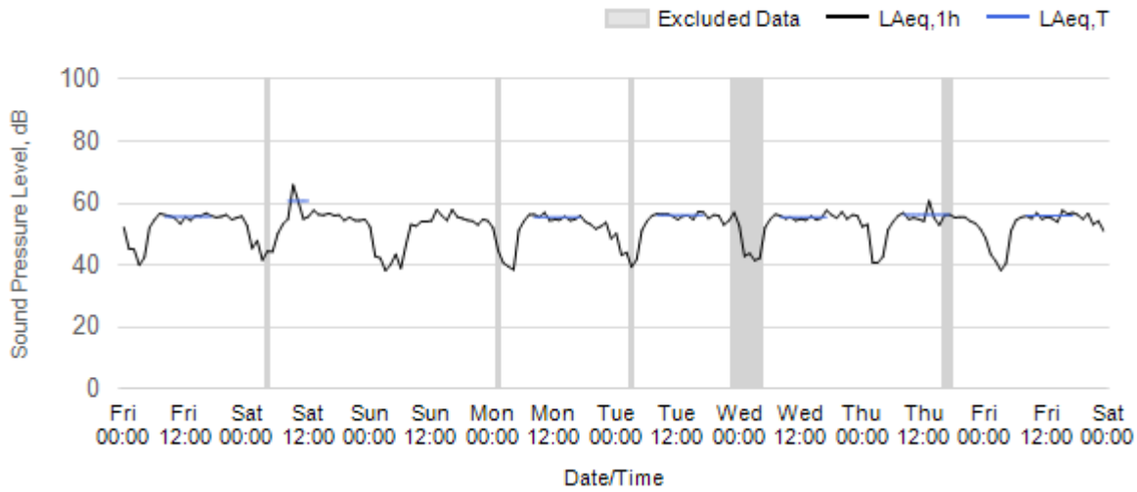
The following graphs show the hourly measured ambient noise level LAeq,1h and, where relevant, the averaged noise level LAeq,T values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part 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: WRP - Monitoring Ref: N057

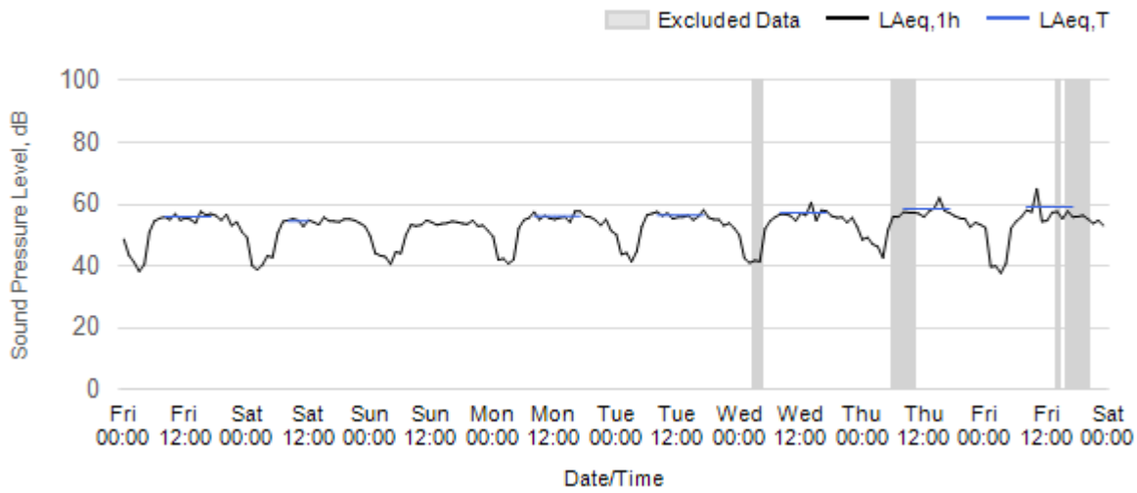




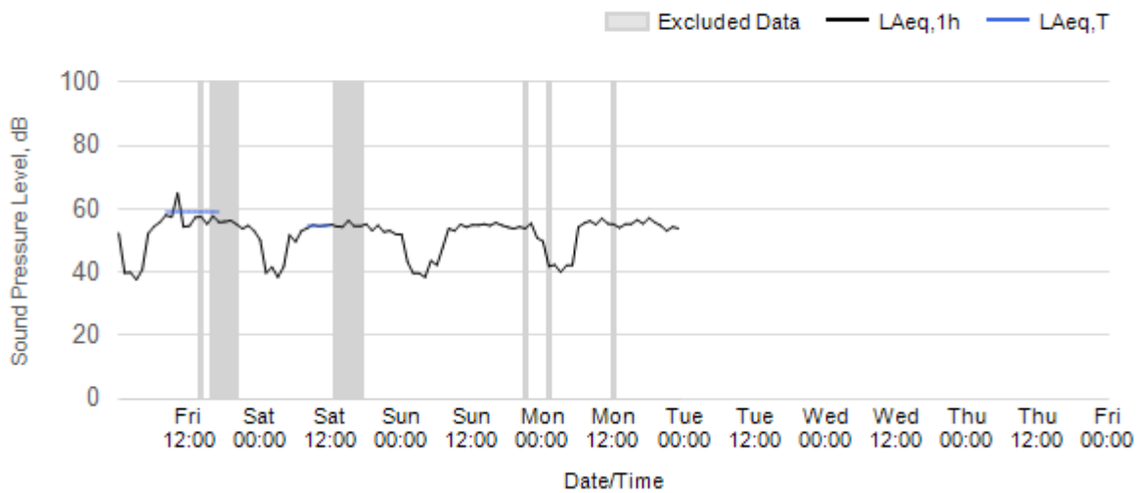
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Worksite: WRP Monitoring Ref: N057 22 August 2026 to 28 August 2026

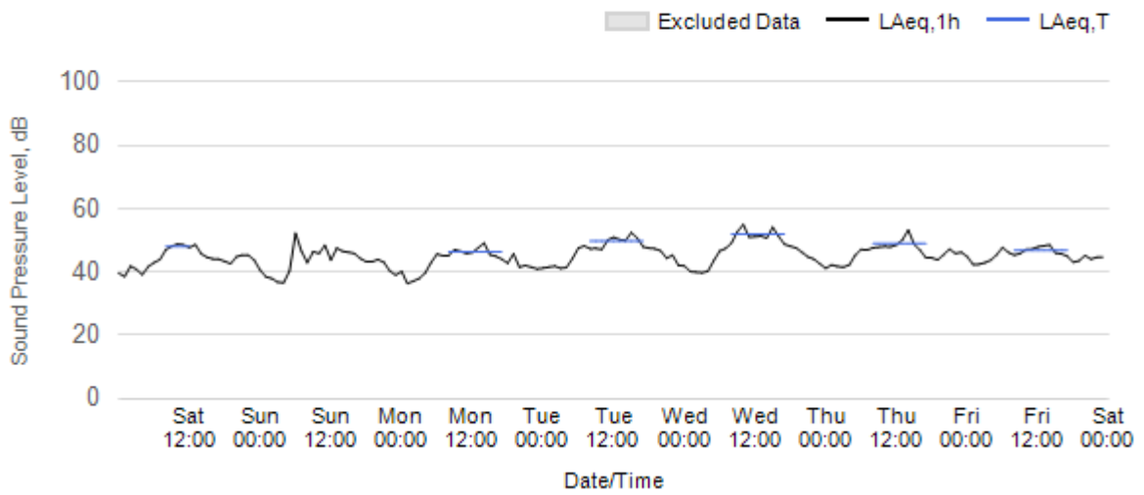


Worksite: WRP Monitoring Ref: N057 29 August 2026 to 4 September 2026

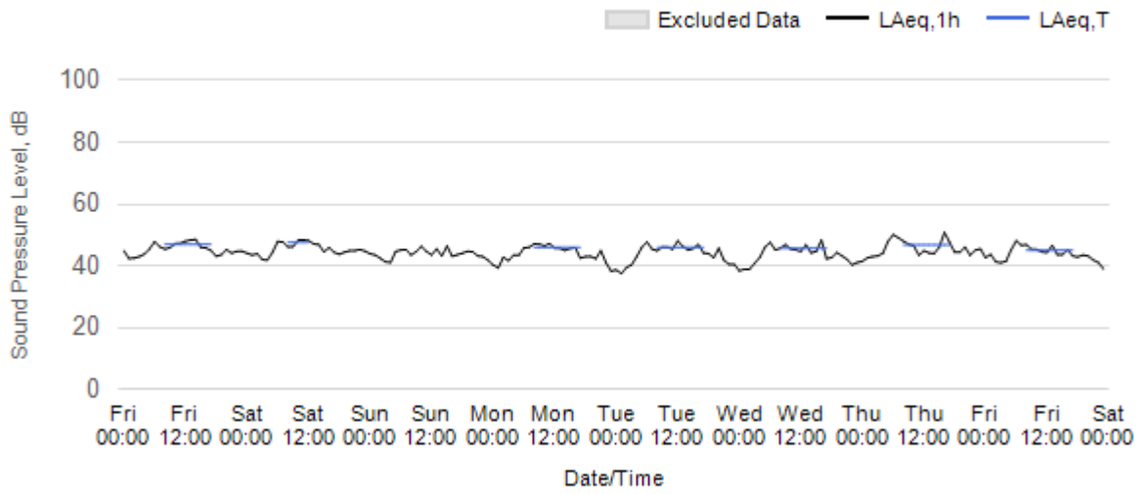


Worksite: WRP - Monitoring Ref: TKL-N001

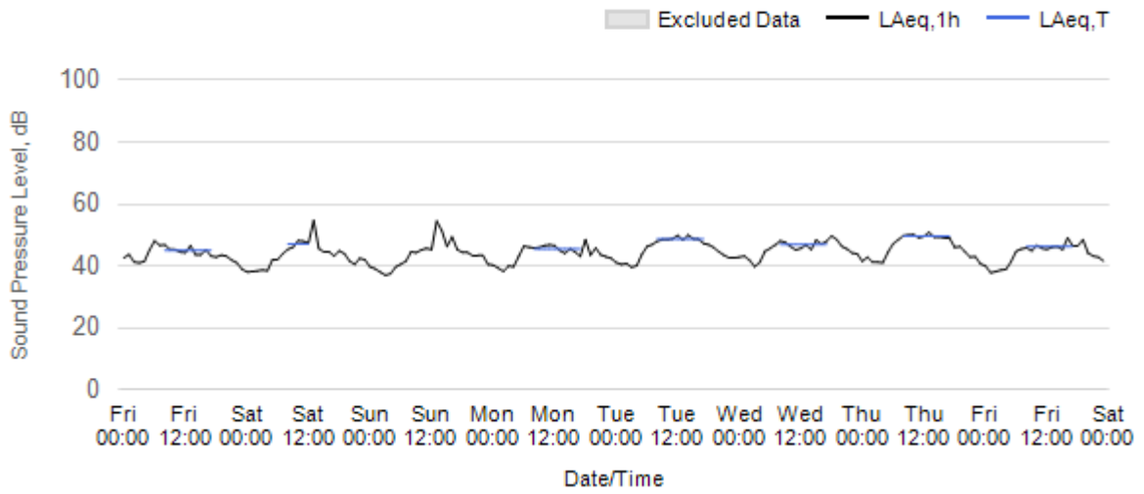
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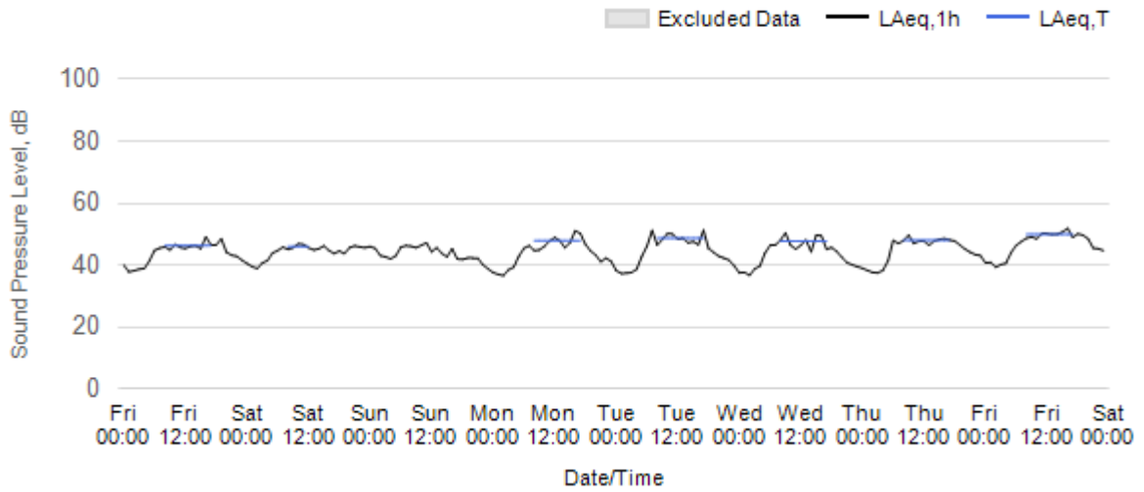
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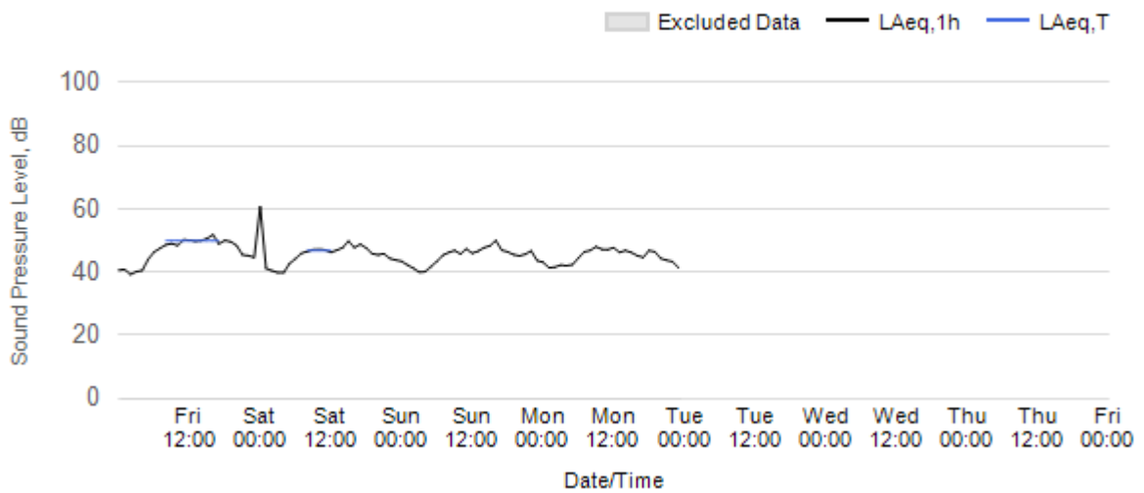
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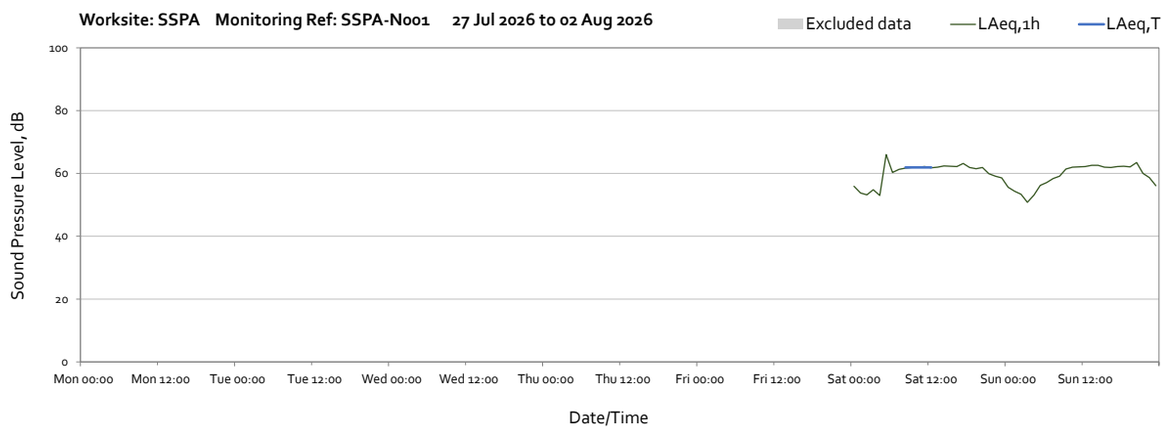
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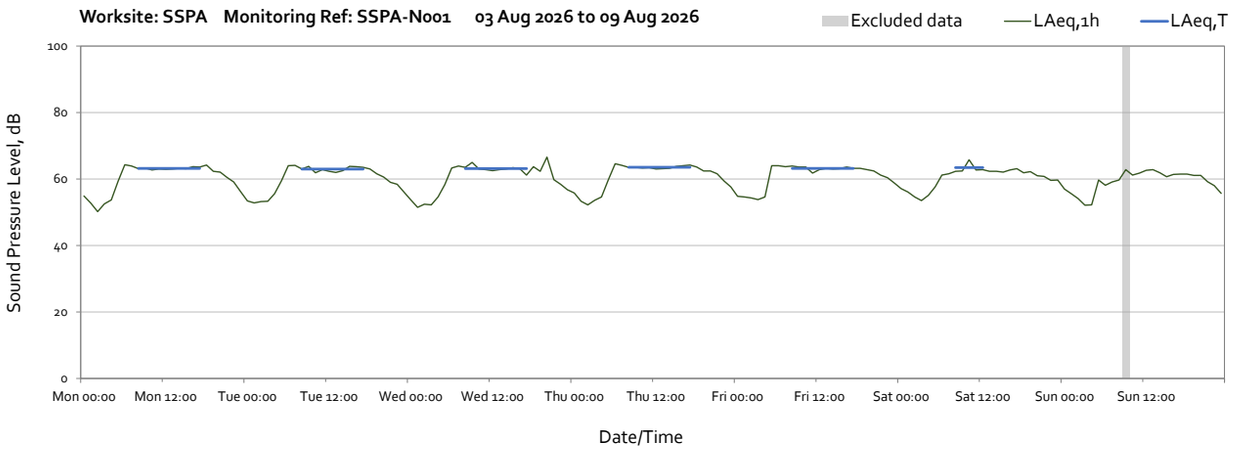


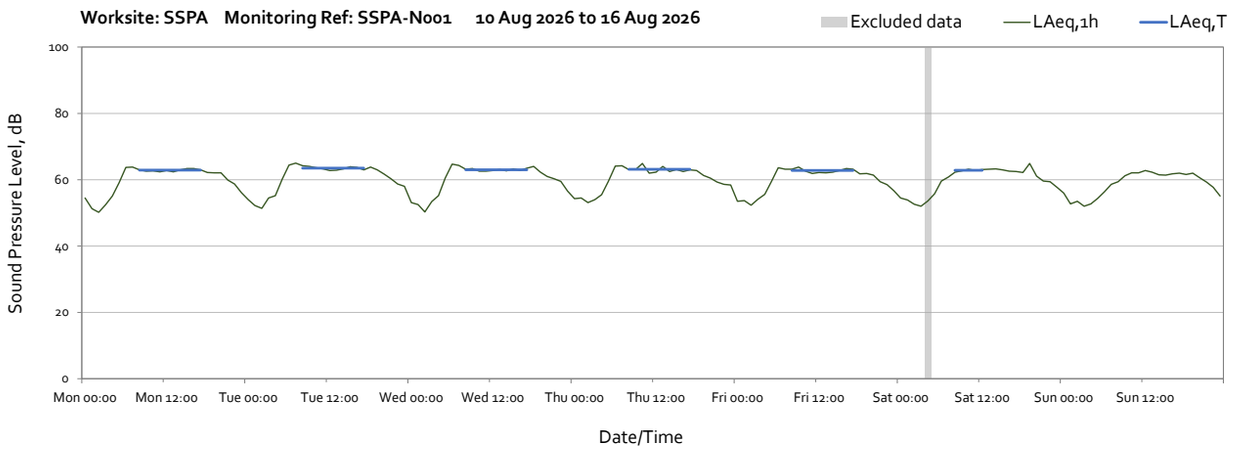
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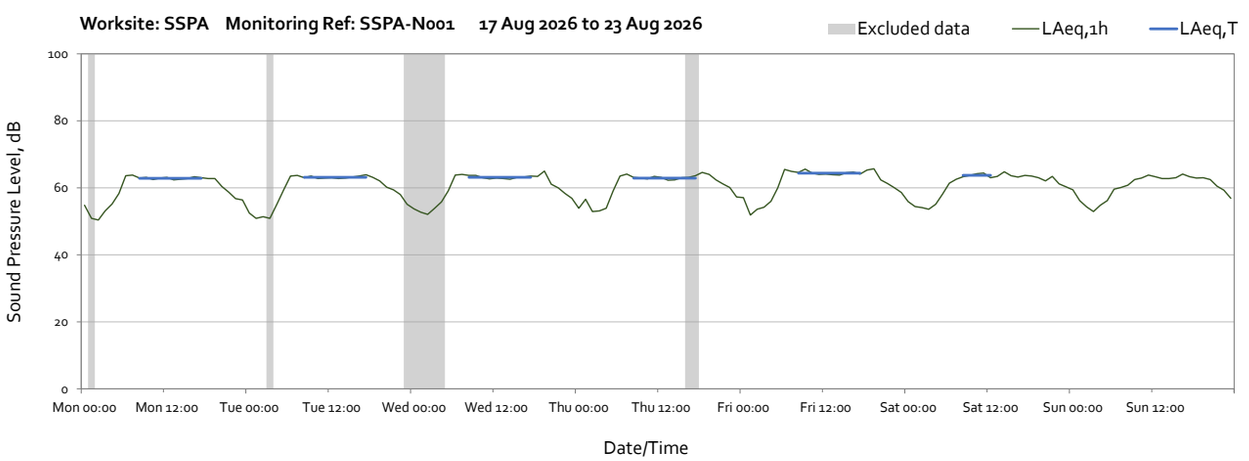


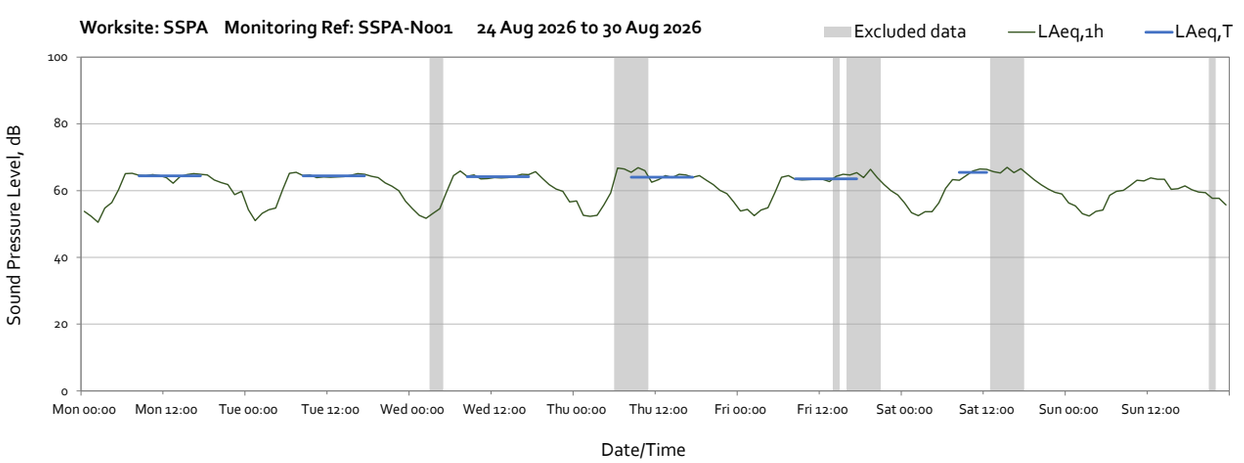
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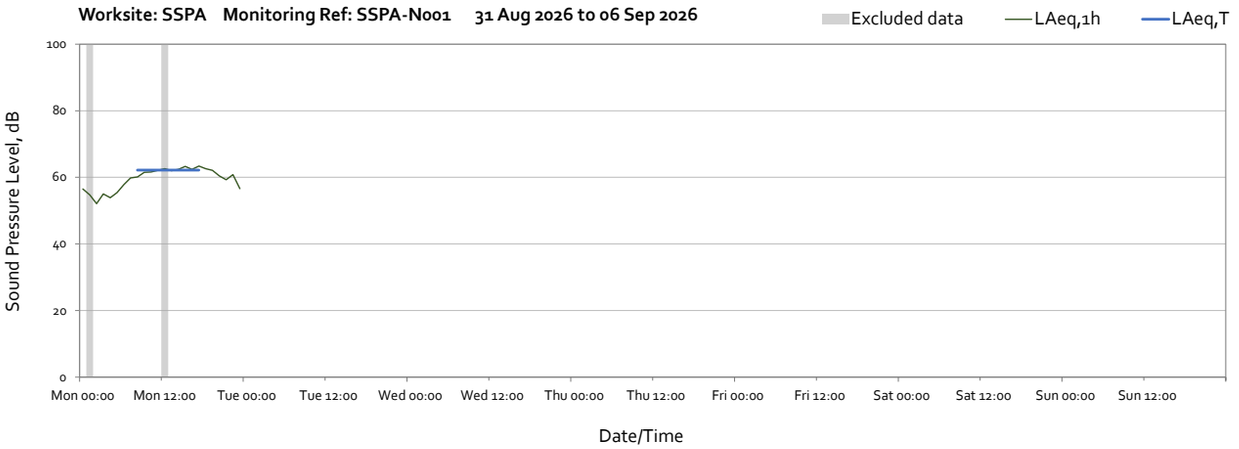



Worksite: SSPA Monitoring Ref: SSPA-N001 03 Aug 2026 to 09 Aug 2026
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
100
80
60
40
20
0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

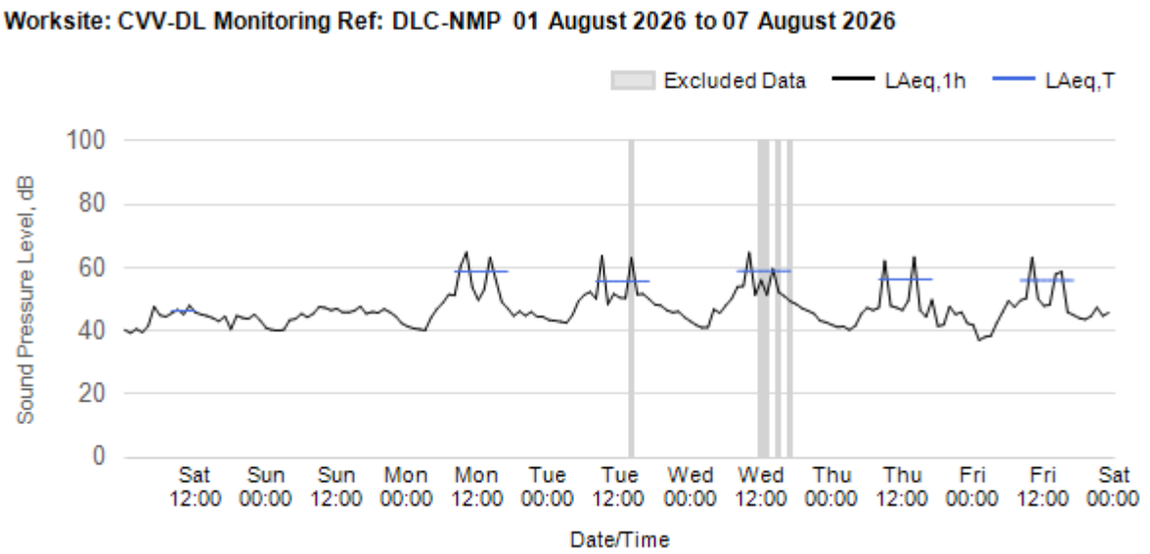

Worksite: SSPA Monitoring Ref: SSPA-N001 10 Aug 2026 to 16 Aug 2026
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
100
80
60
40
20
0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

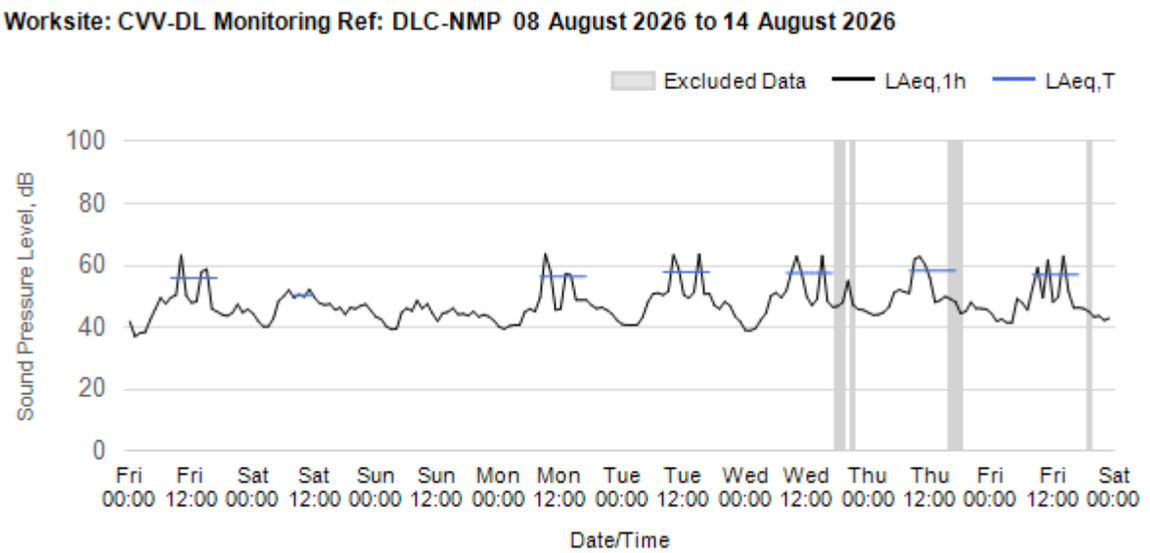

Worksite: SSPA Monitoring Ref: SSPA-N001 17 Aug 2026 to 23 Aug 2026
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LAeq,1h
LAeq,T
Sound Pressure Level, dB
100
80
60
40
20
0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: SSPA Monitoring Ref: SSPA-N001 24 Aug 2026 to 30 Aug 2026
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
100
80
60
40
20
0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

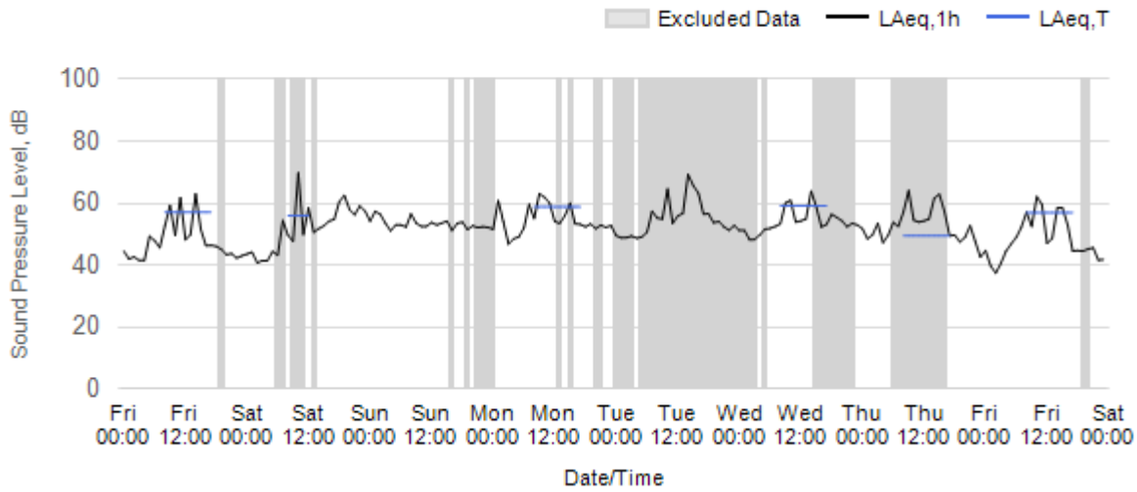


Worksite: CVV-DL - Monitoring Ref: DLC-NMP

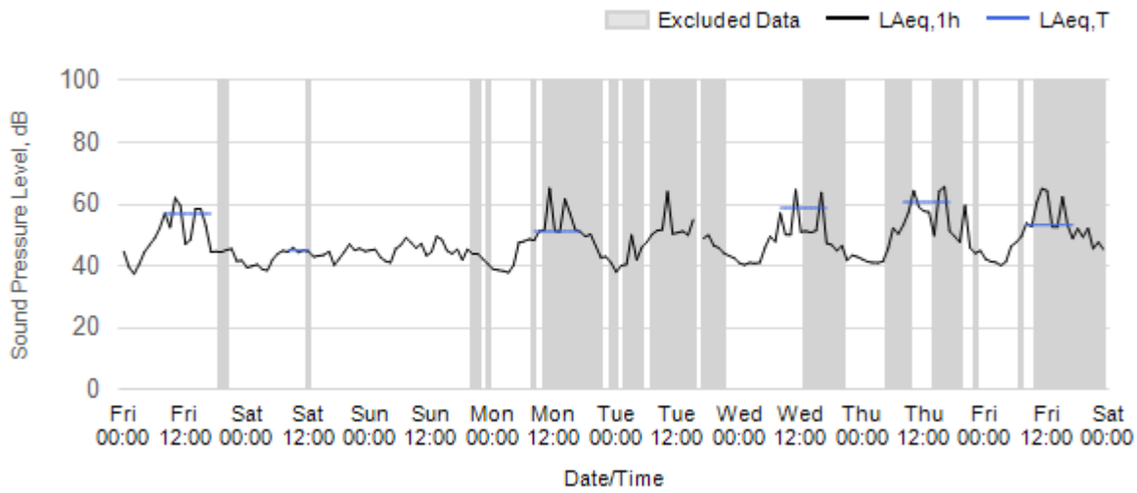




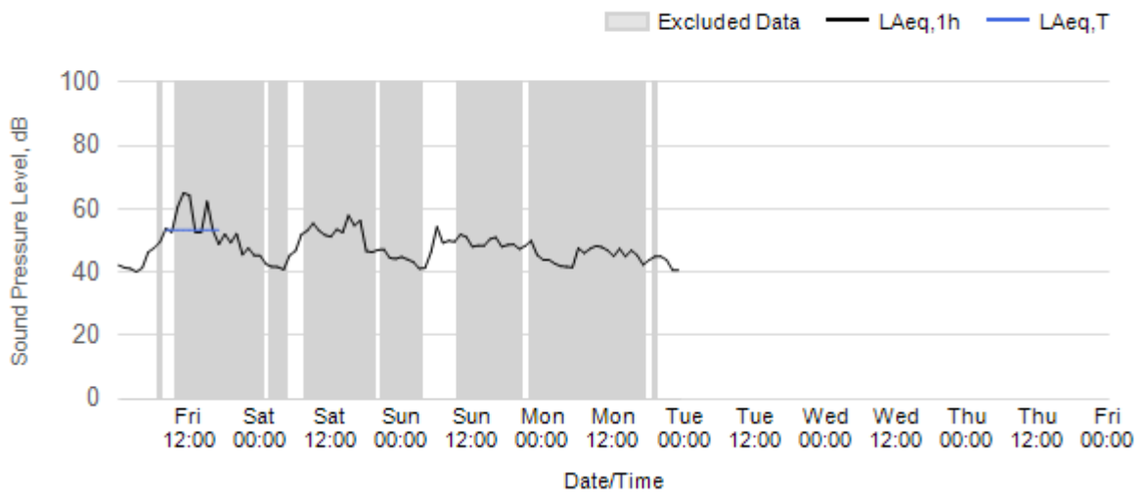
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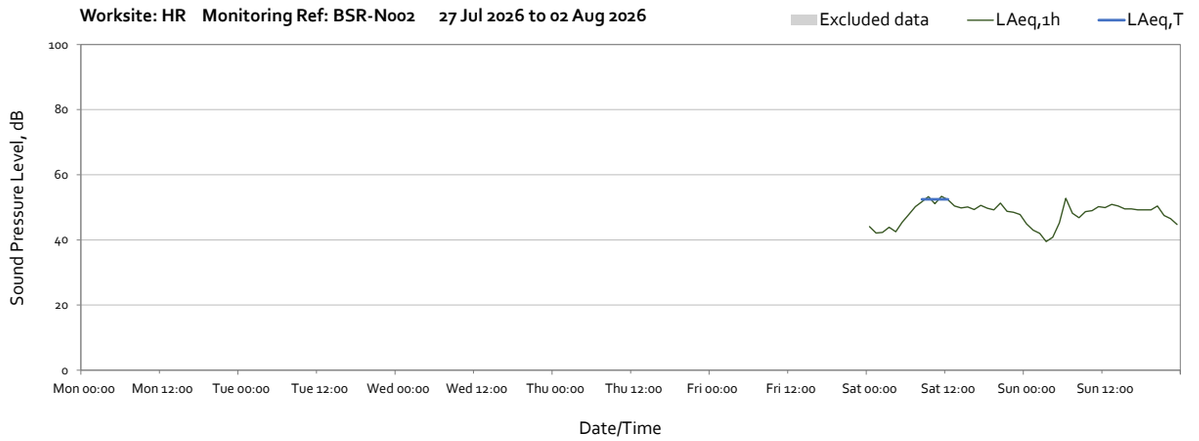
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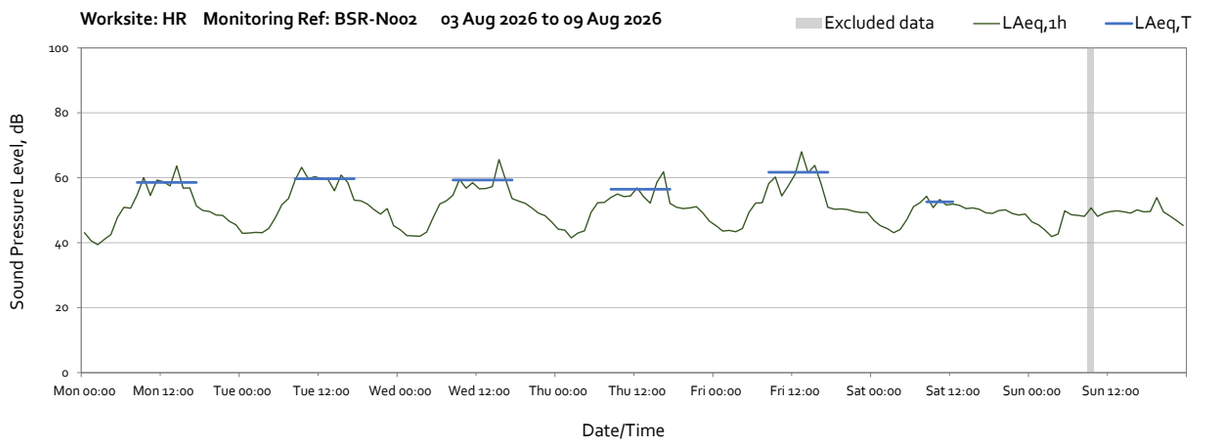


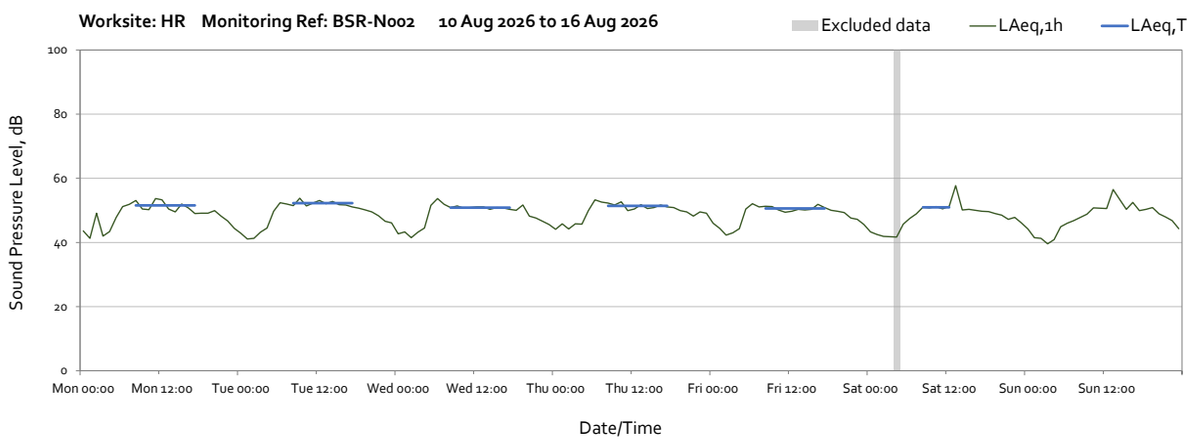
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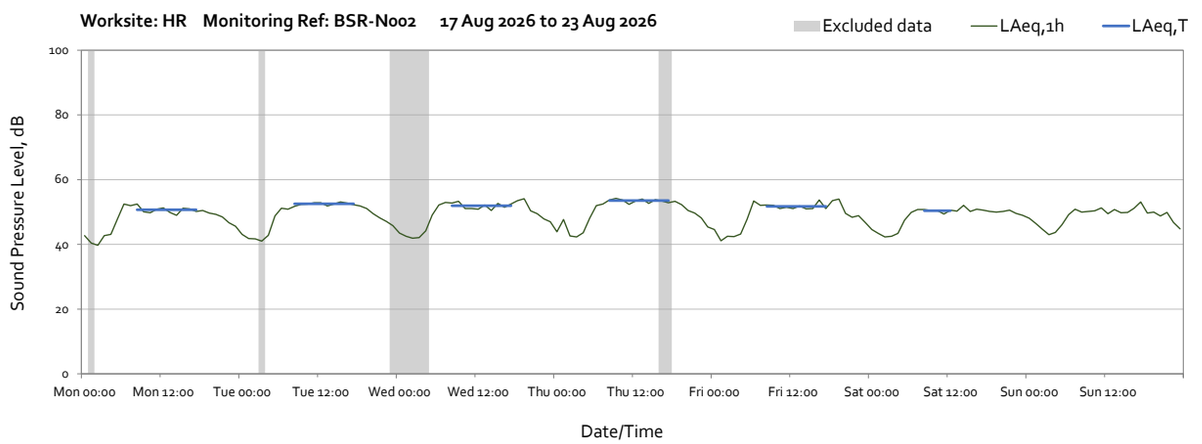


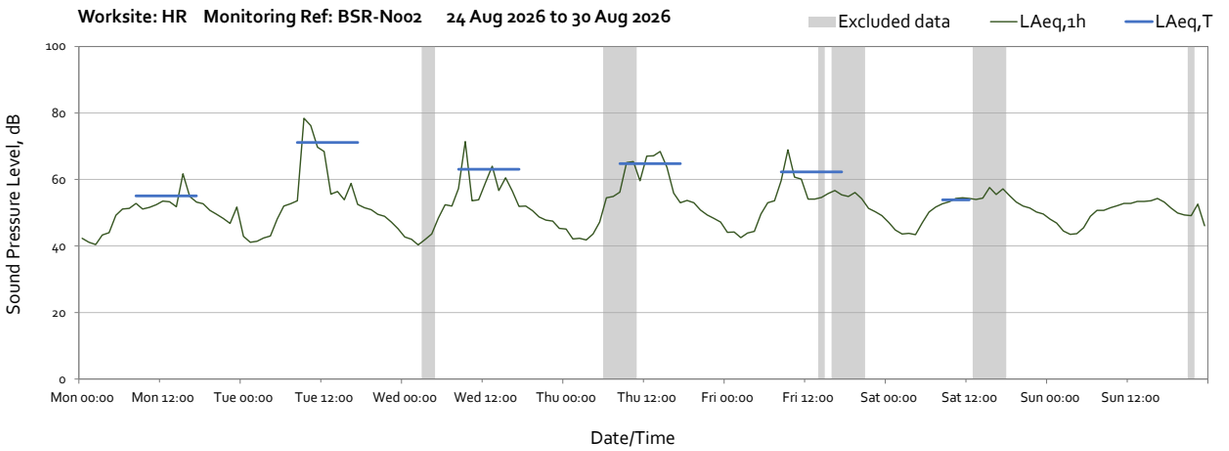
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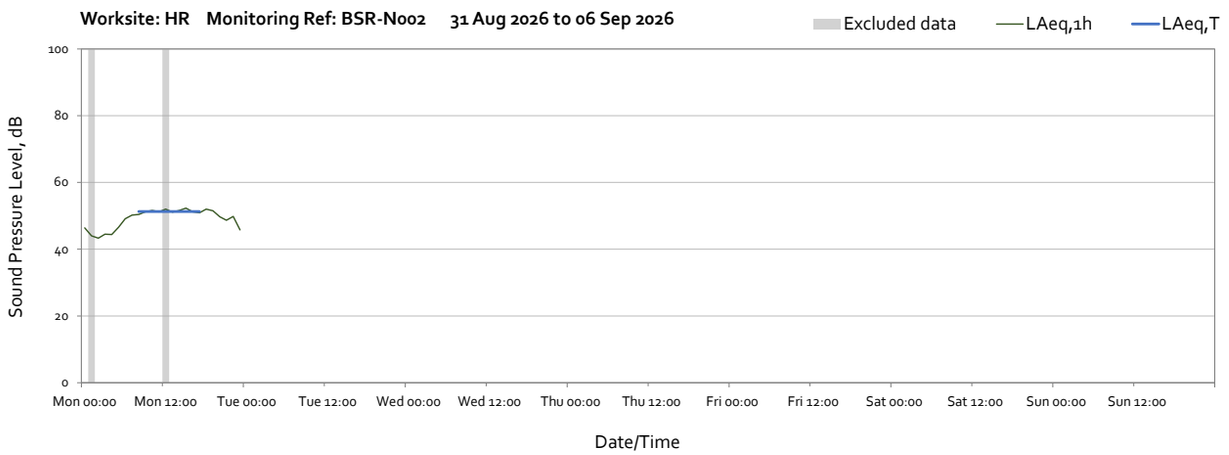




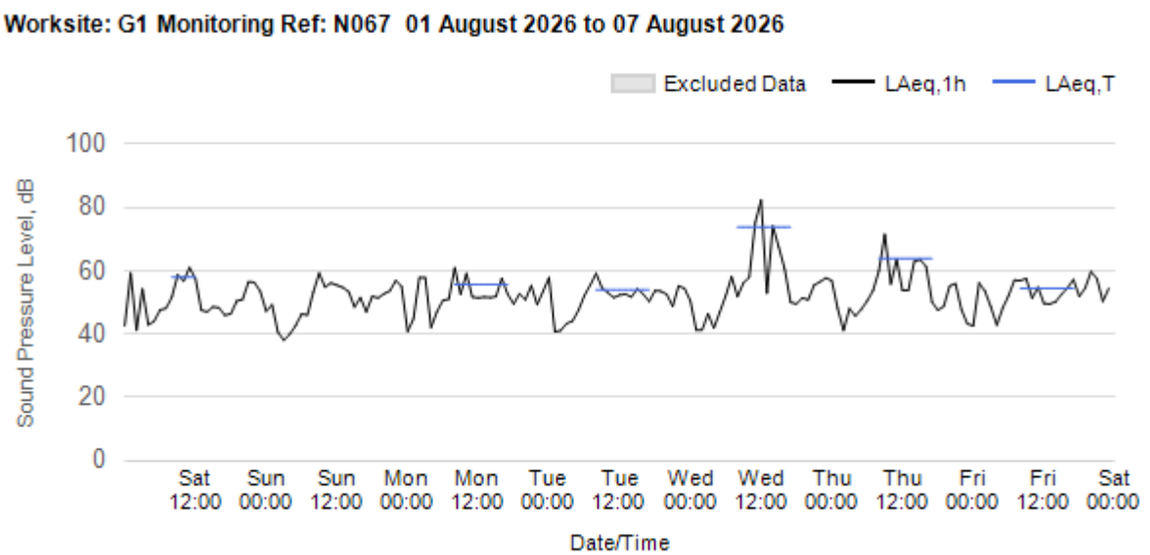




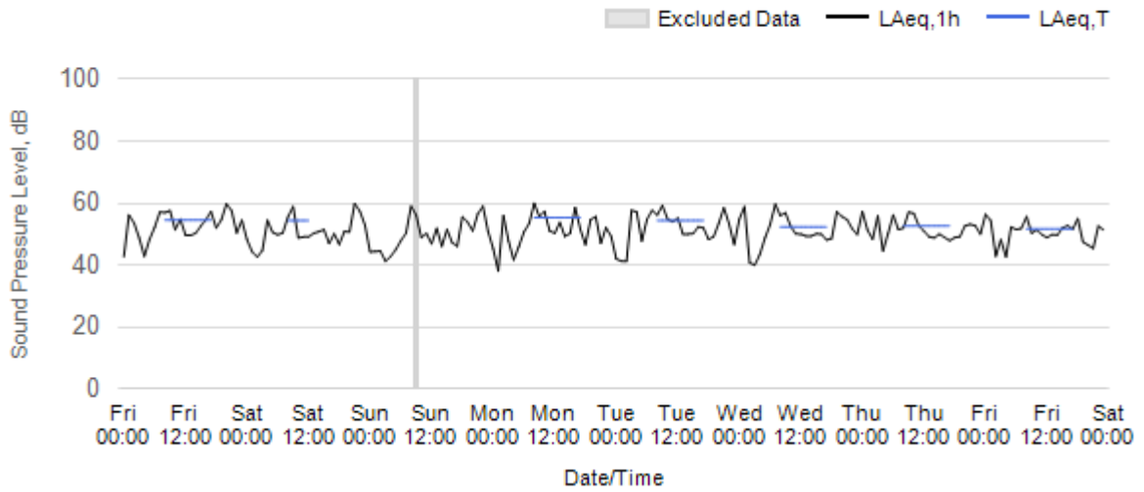




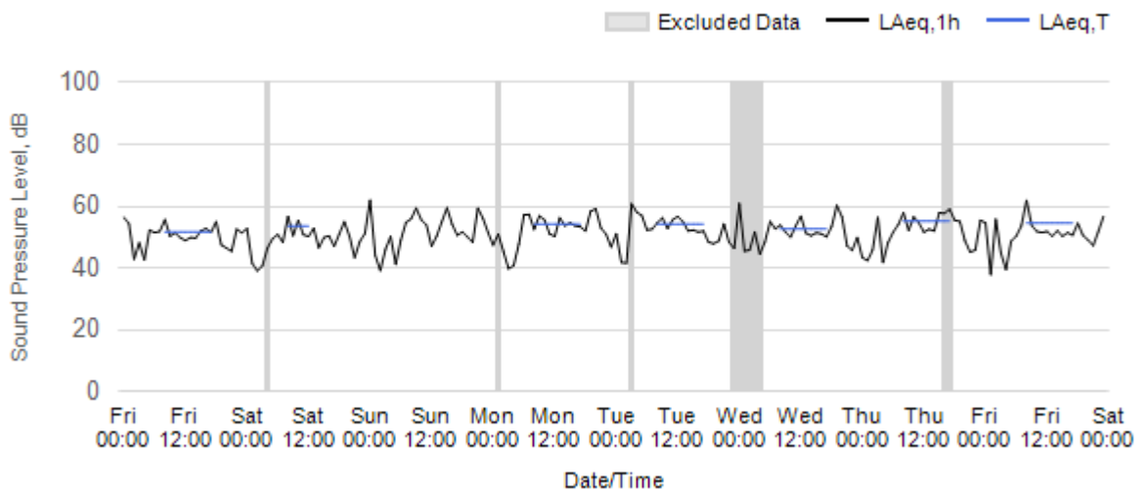
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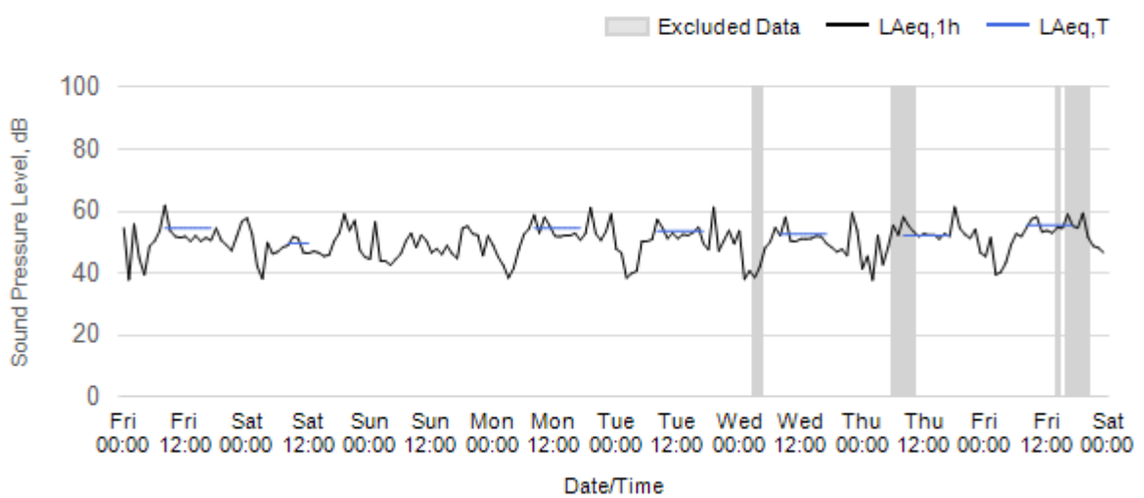
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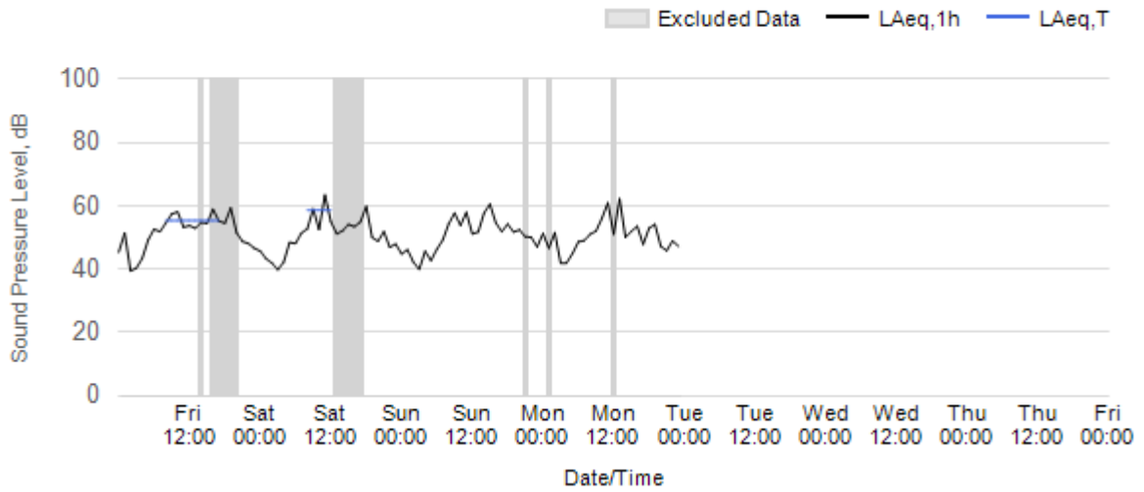
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Worksite: G1 Monitoring Ref: N067 22 August 2026 to 28 August 2026

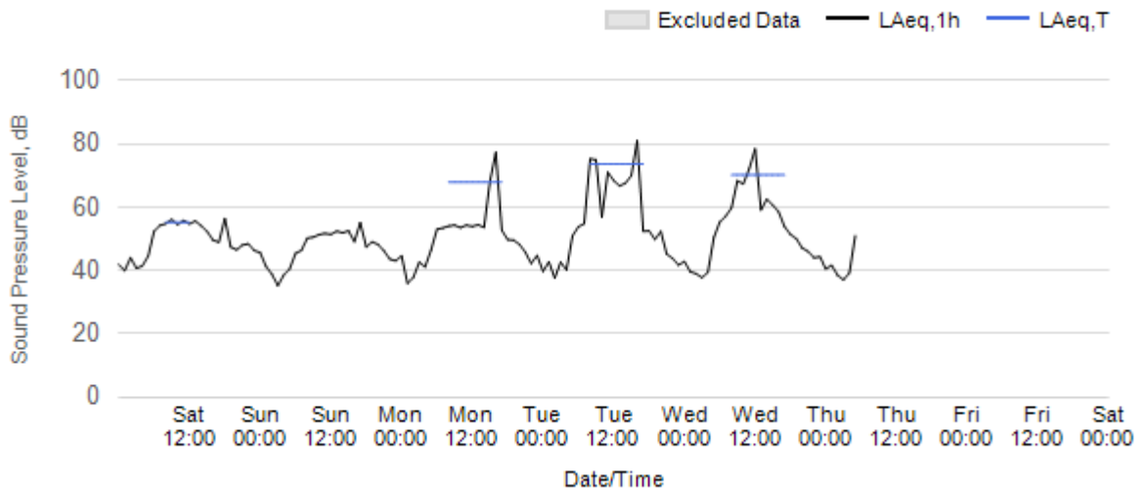


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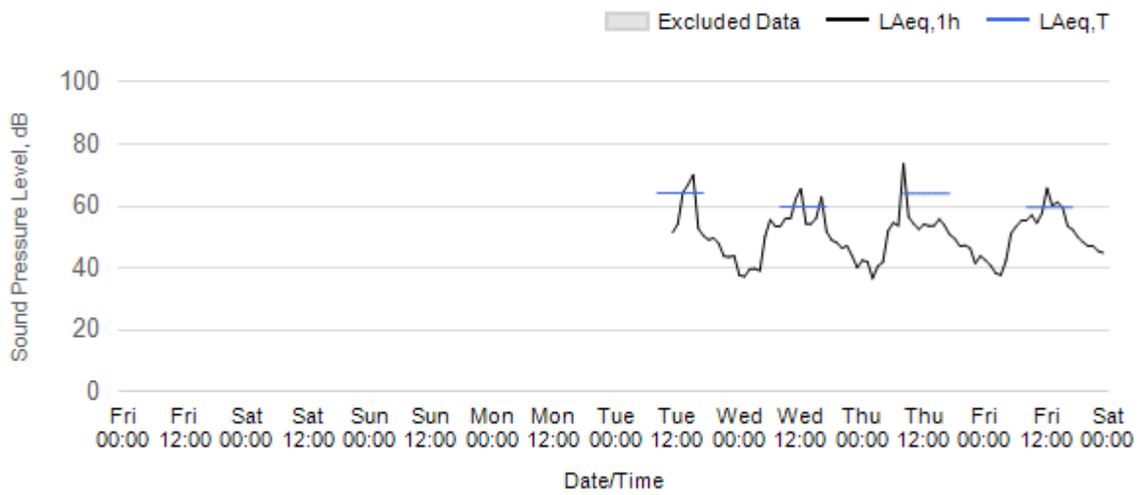


Worksite: NSPA - Monitoring Ref: NSPA-N001a

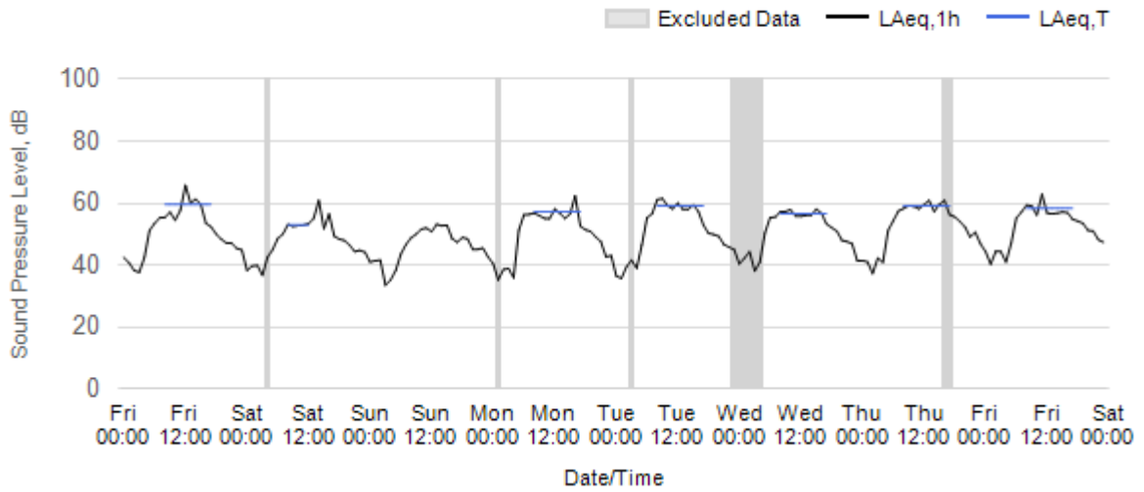
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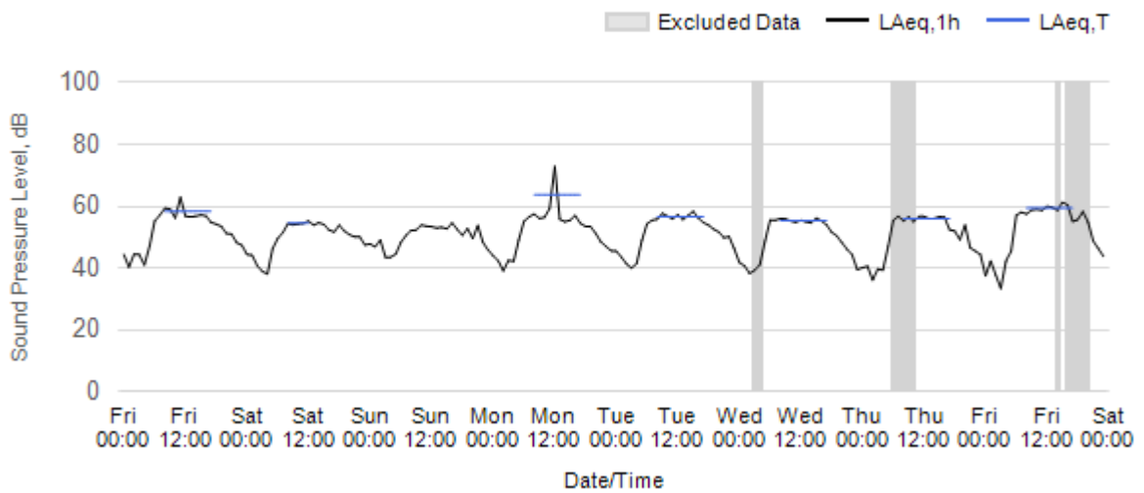
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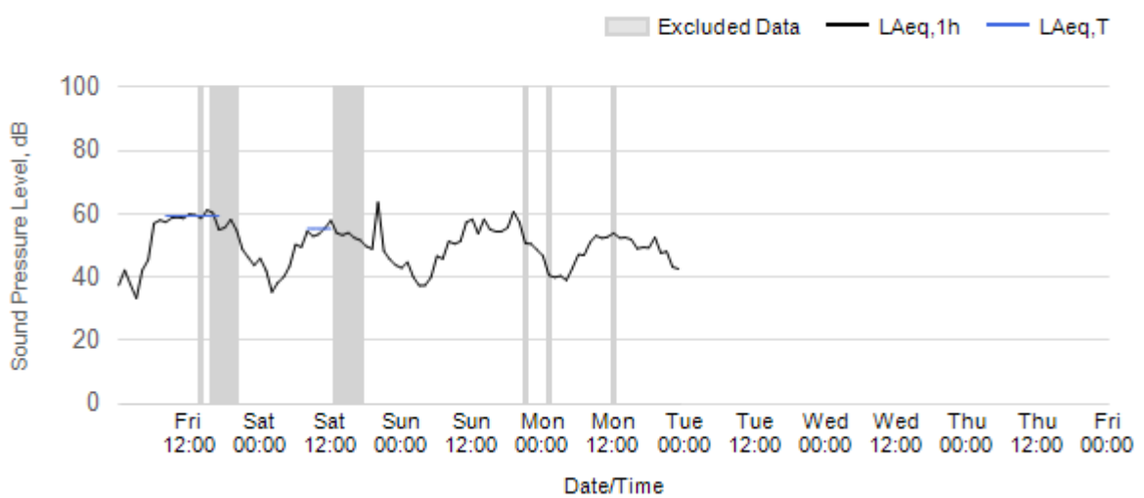
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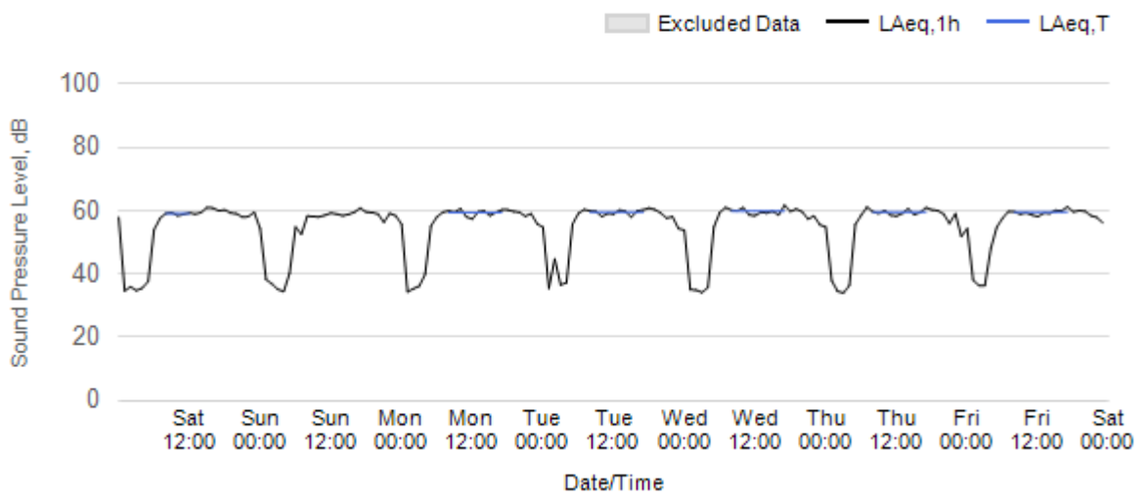


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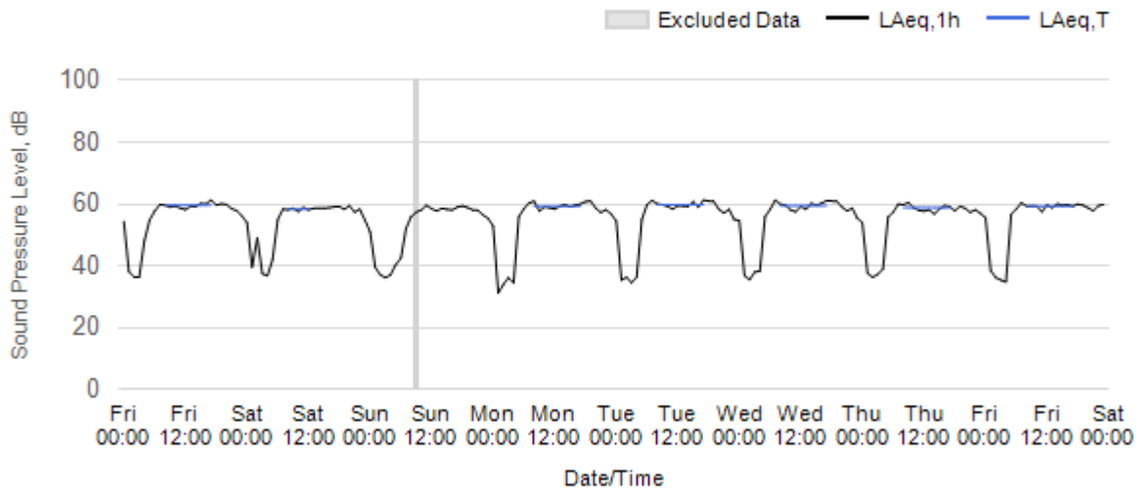


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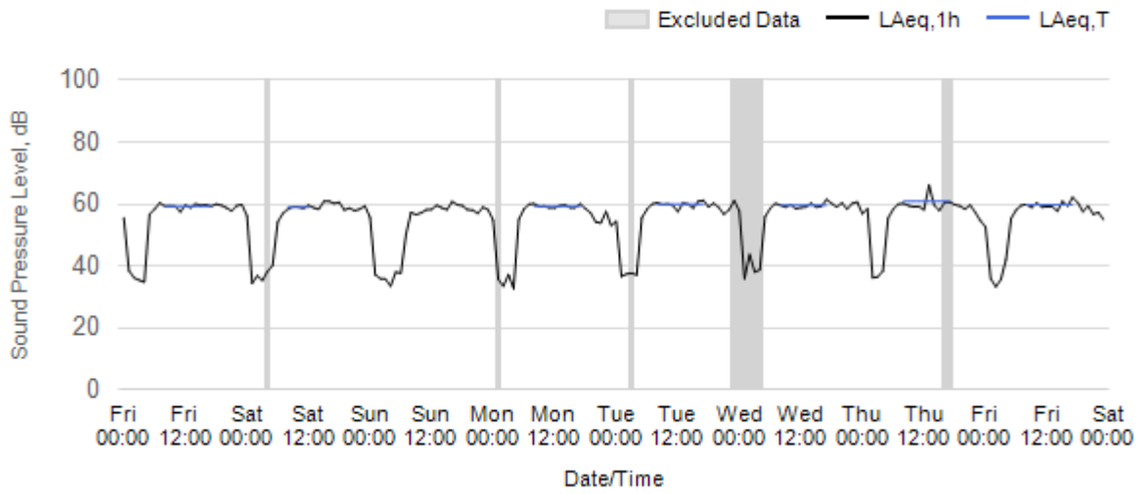
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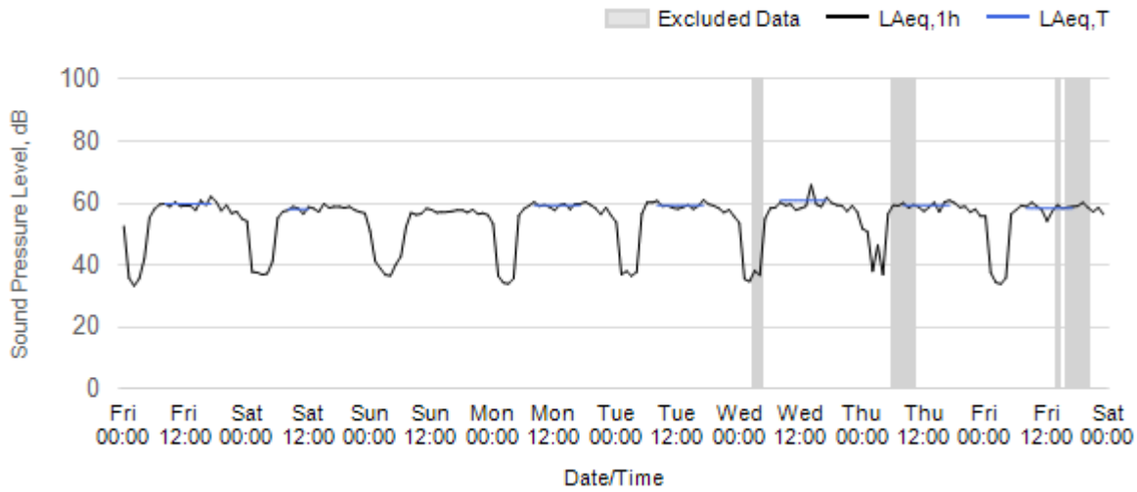
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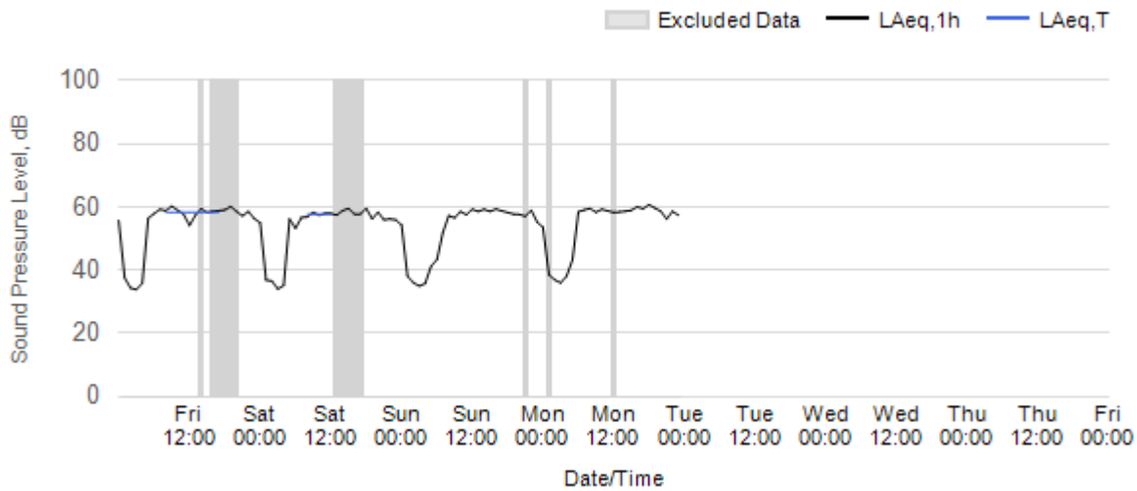
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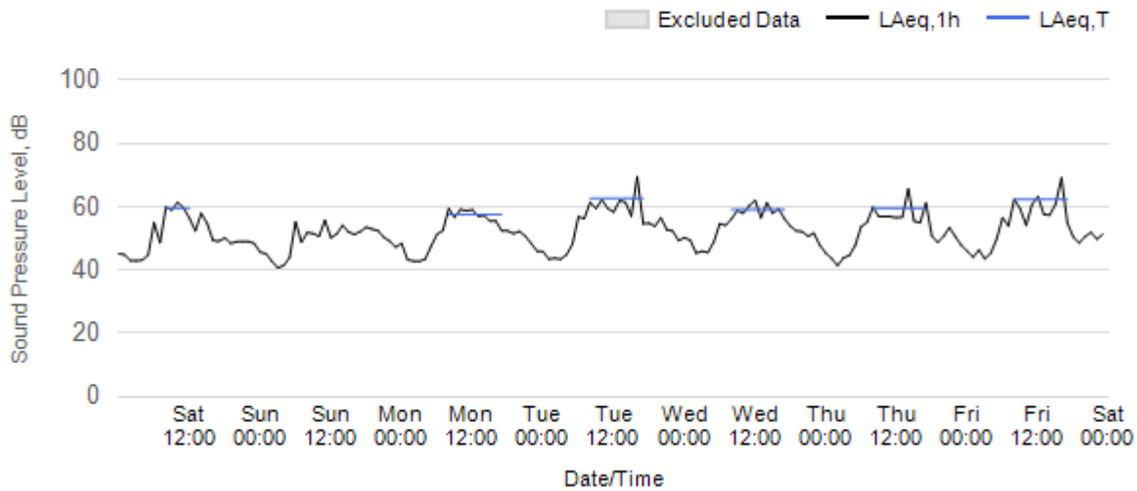


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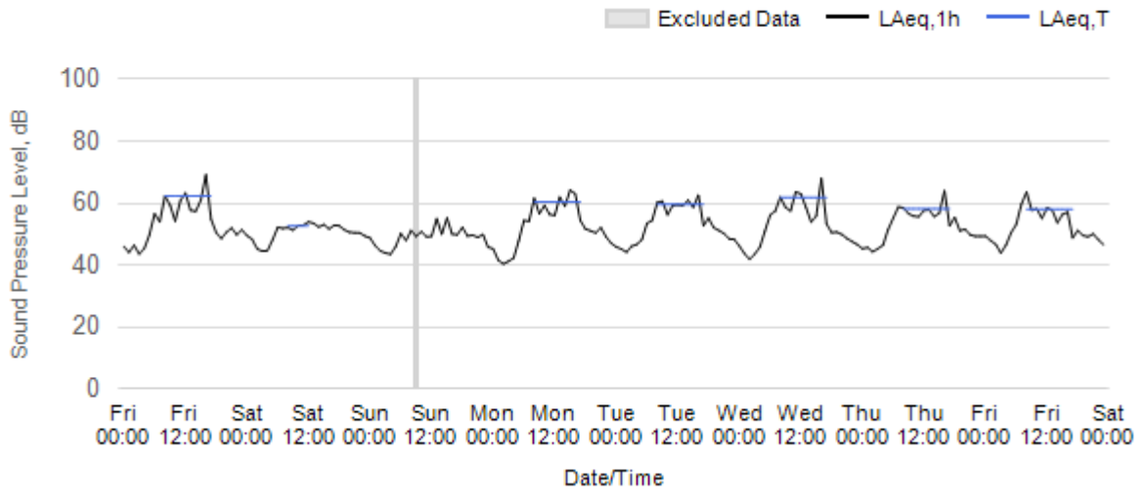


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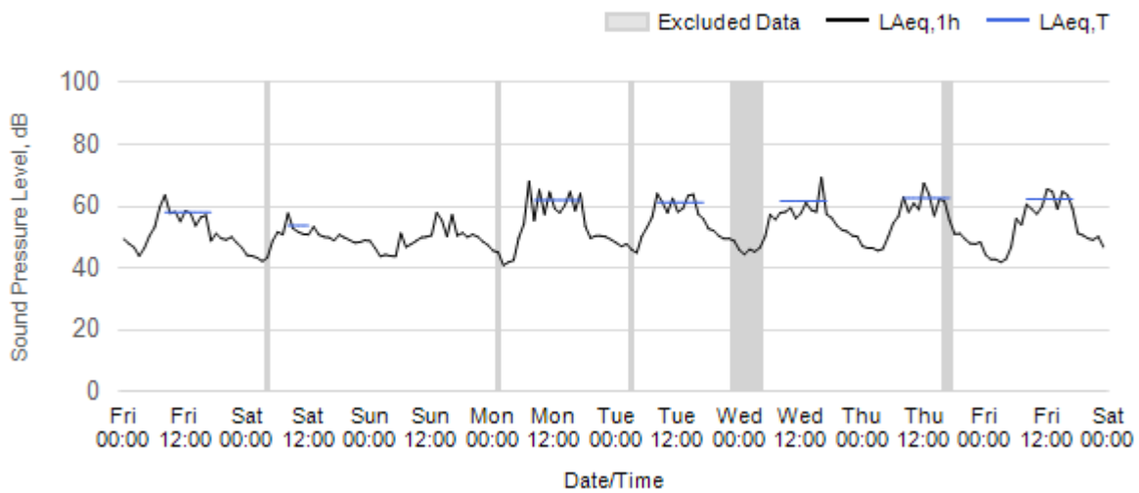
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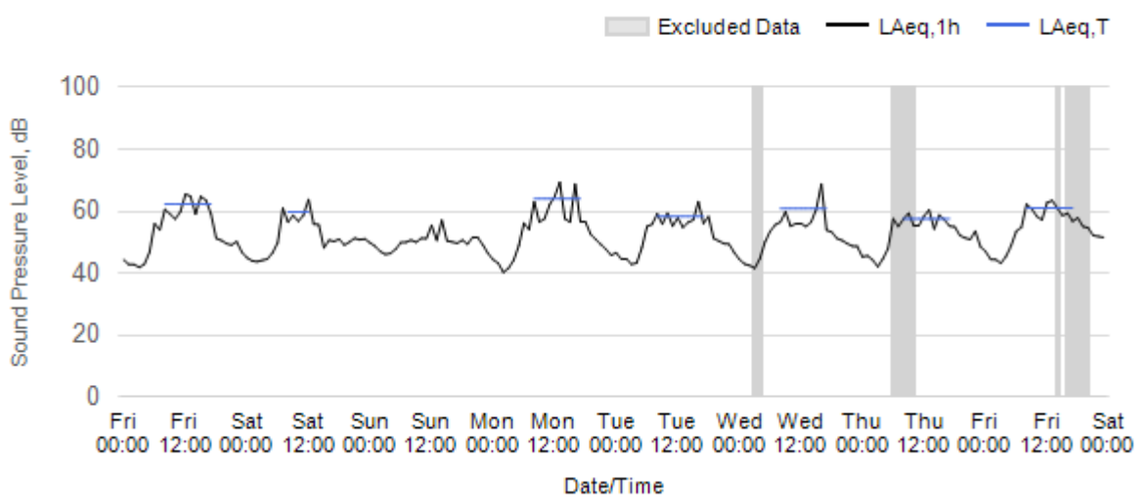
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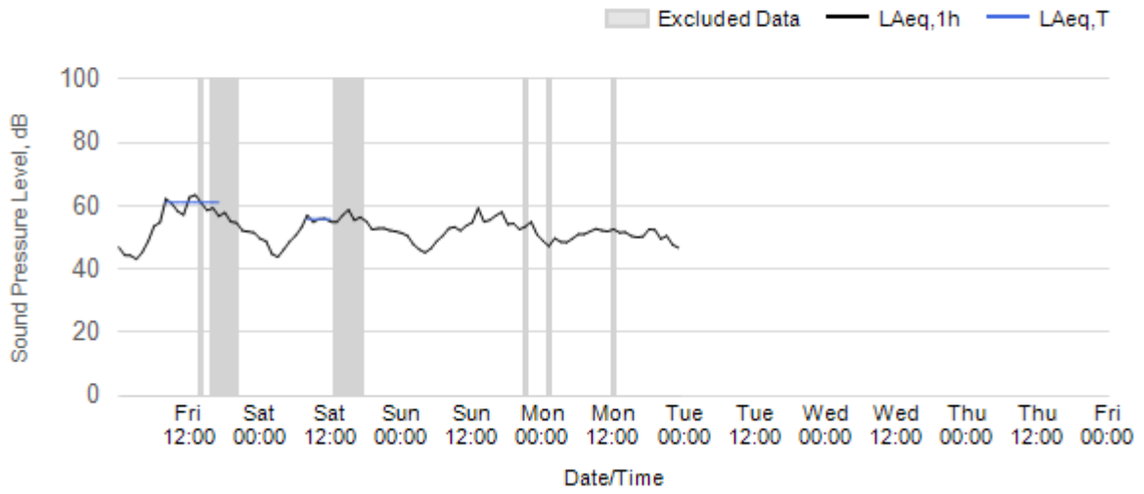
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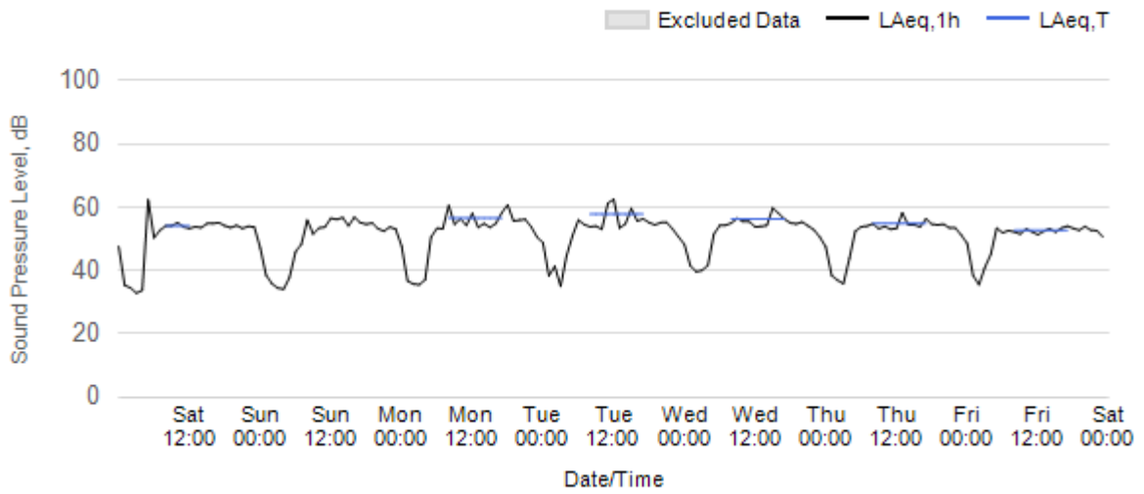


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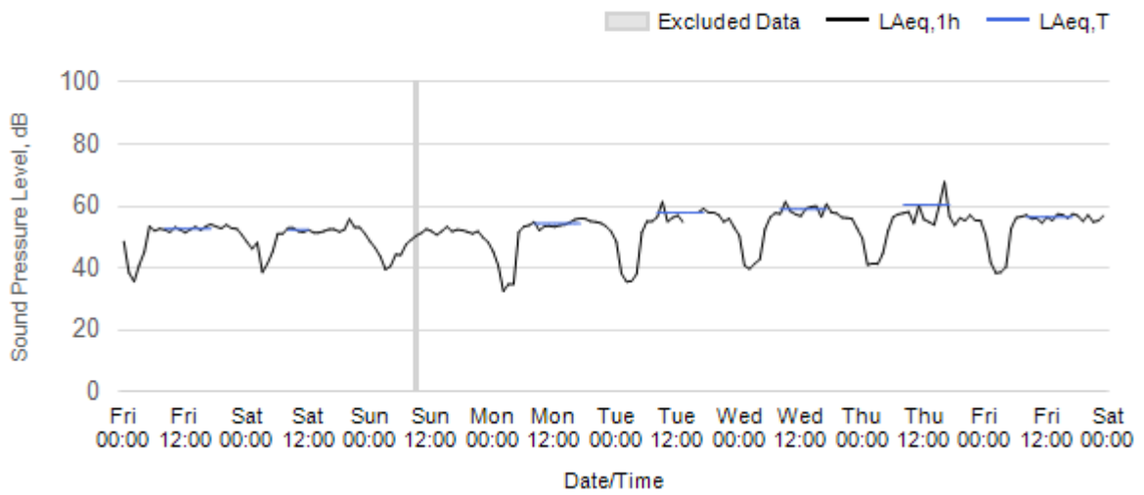


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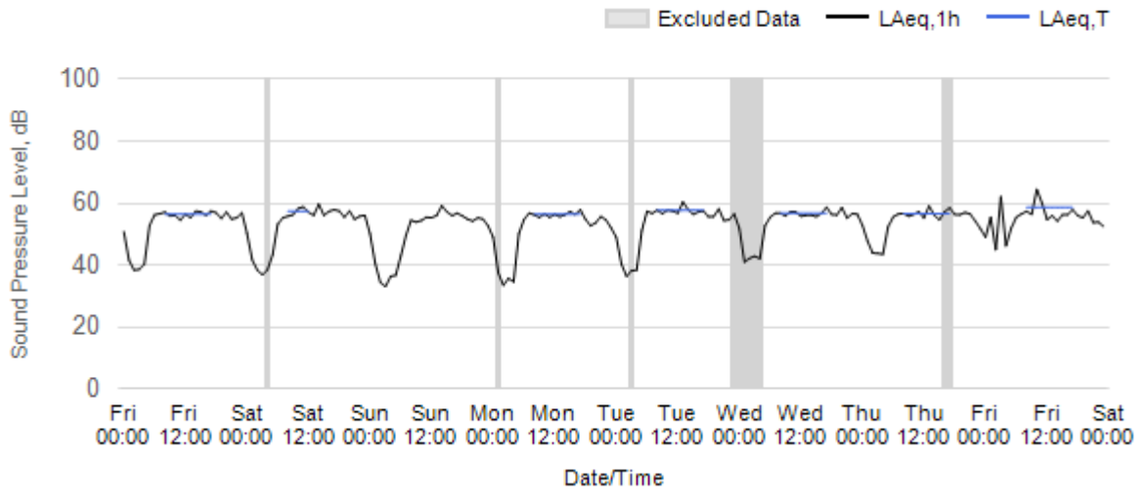
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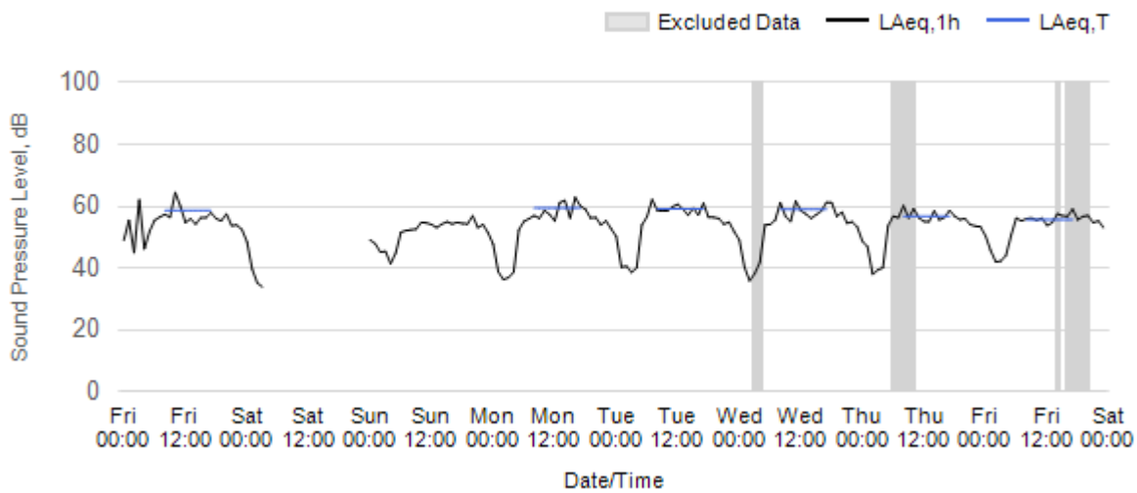
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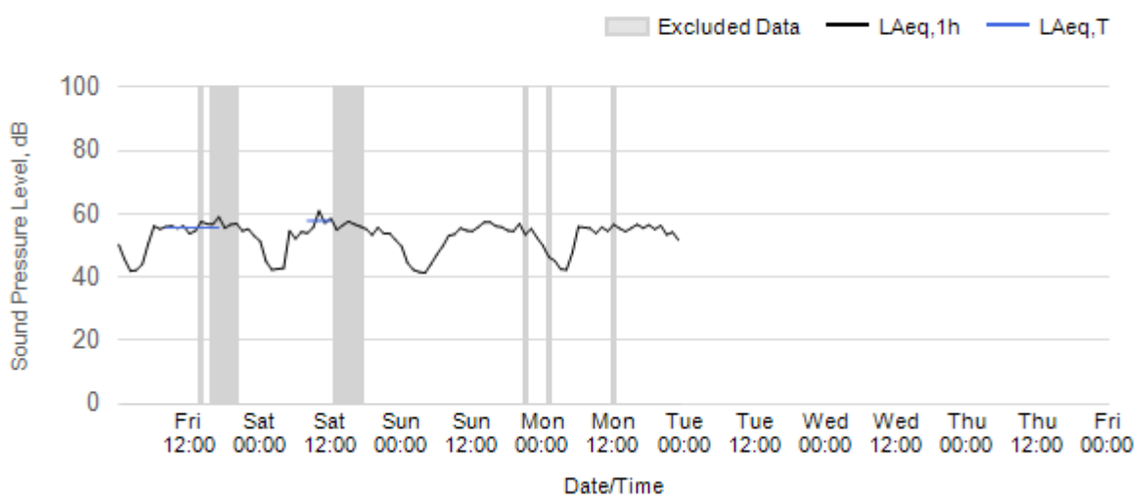
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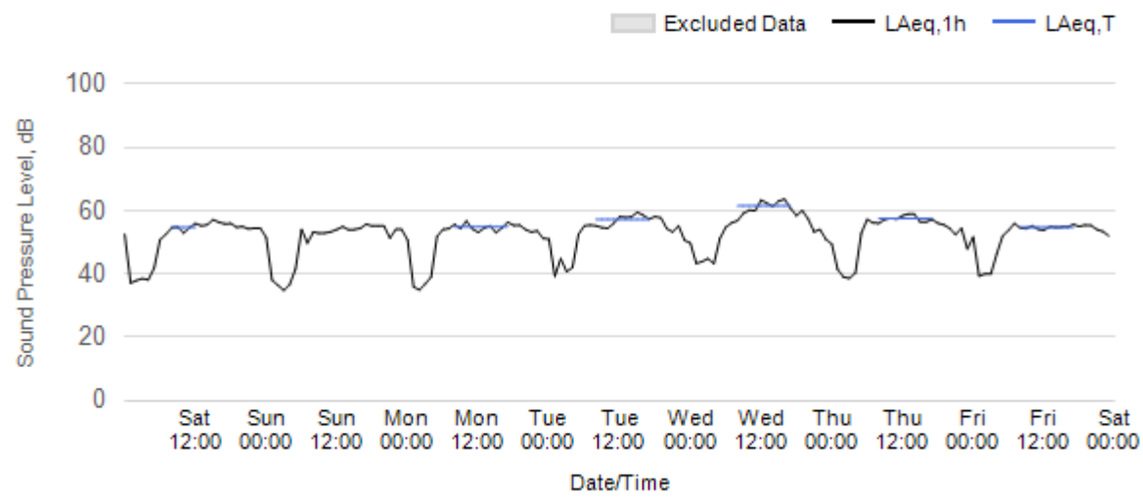


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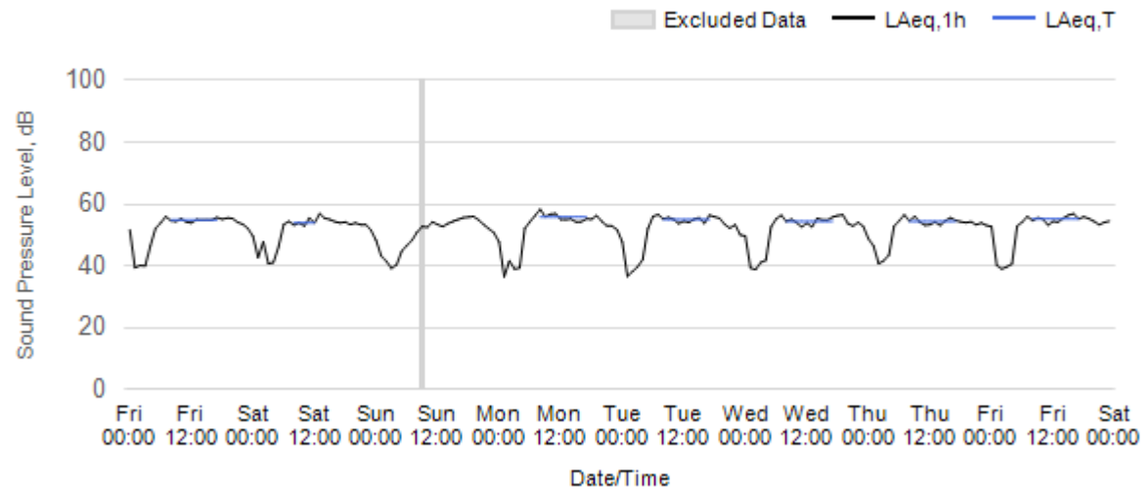


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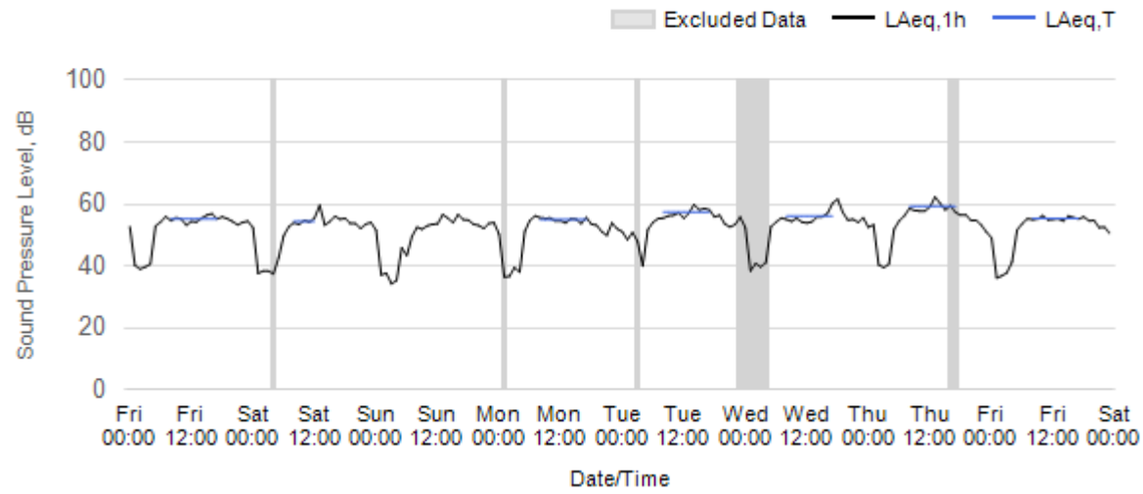
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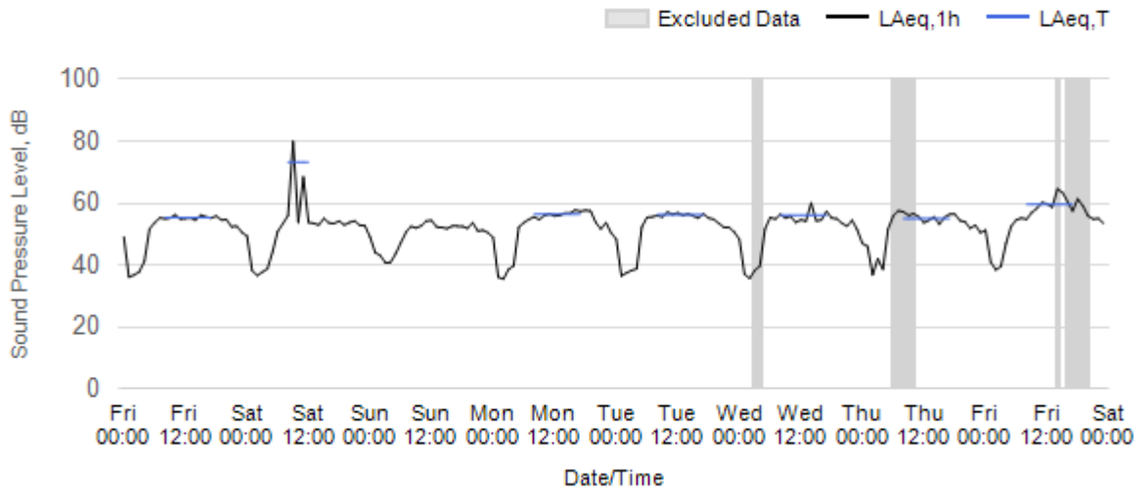
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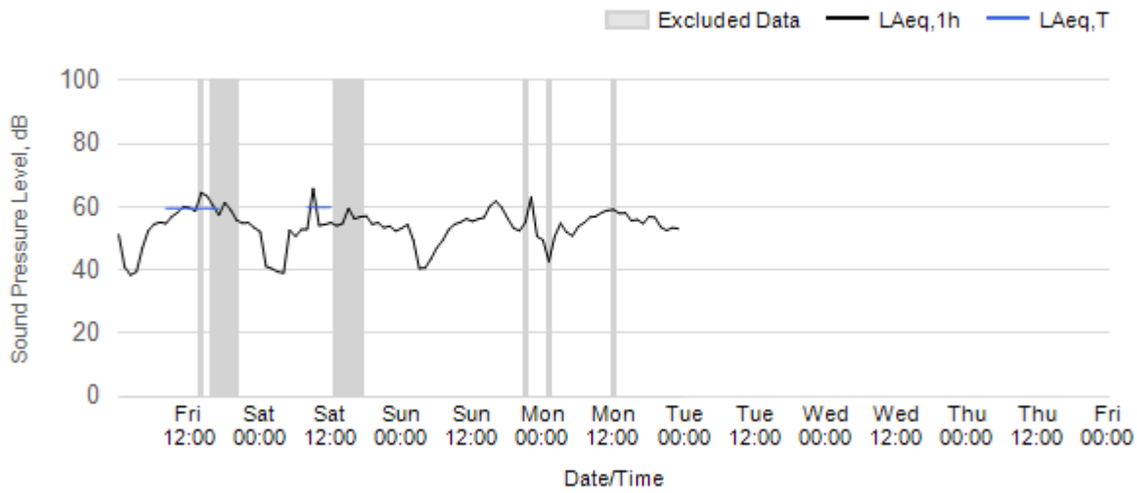
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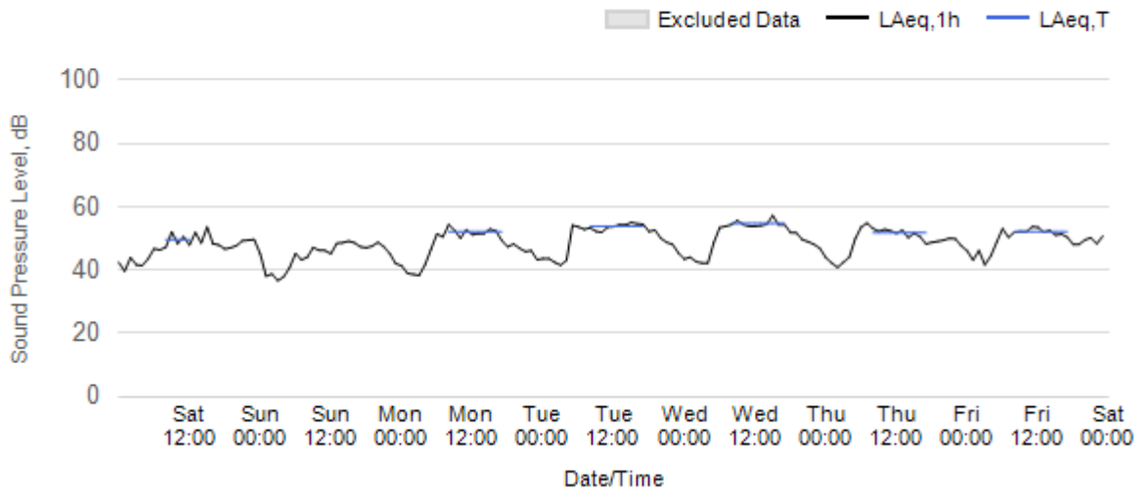


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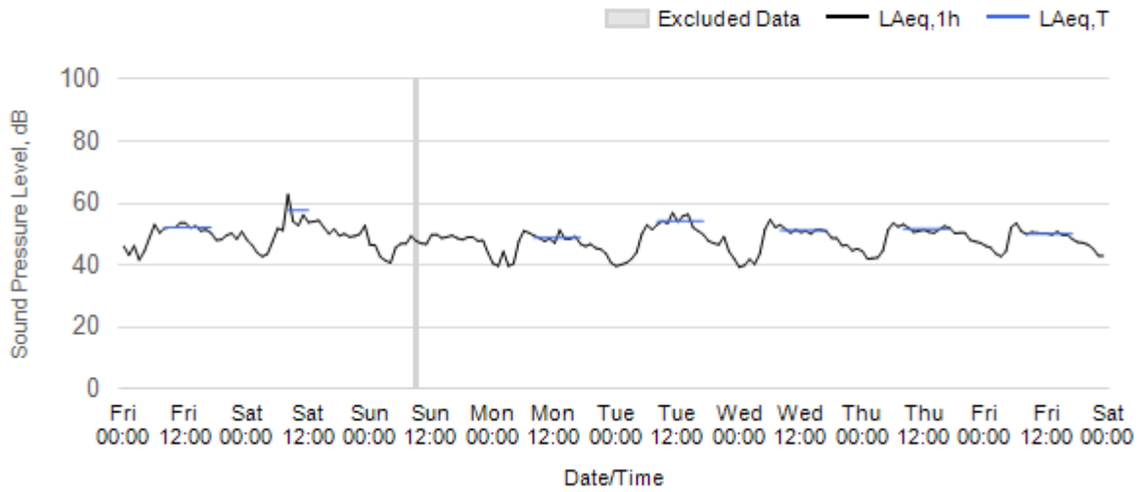


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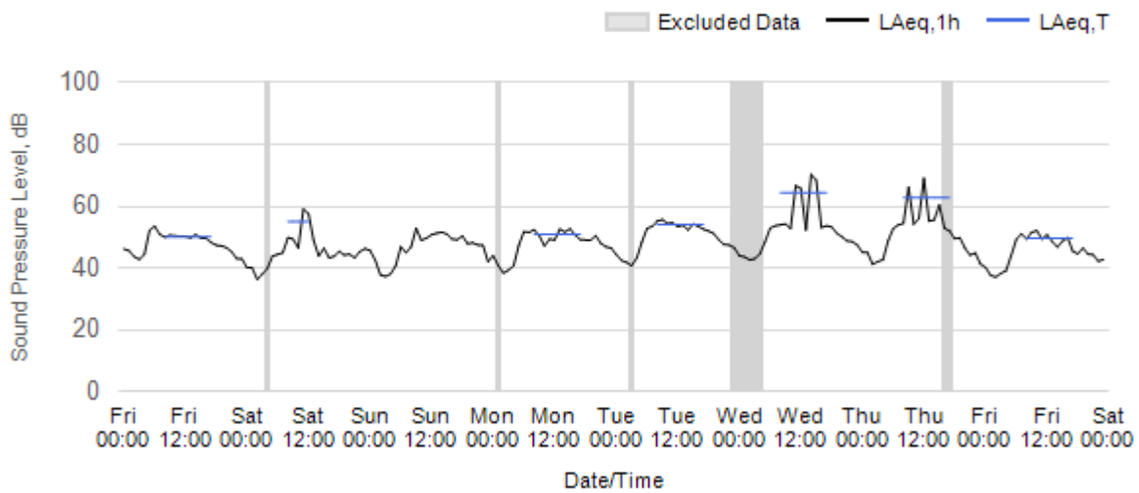
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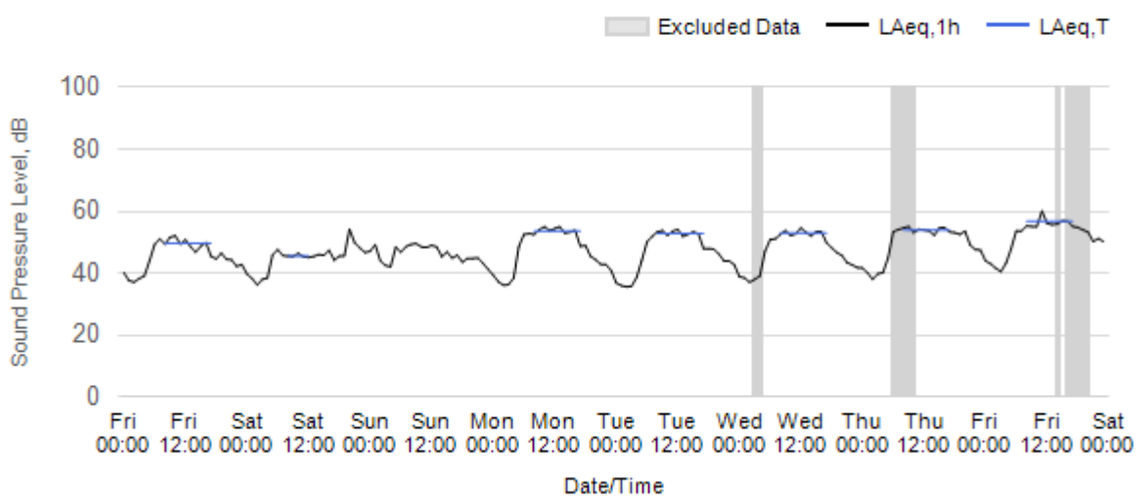
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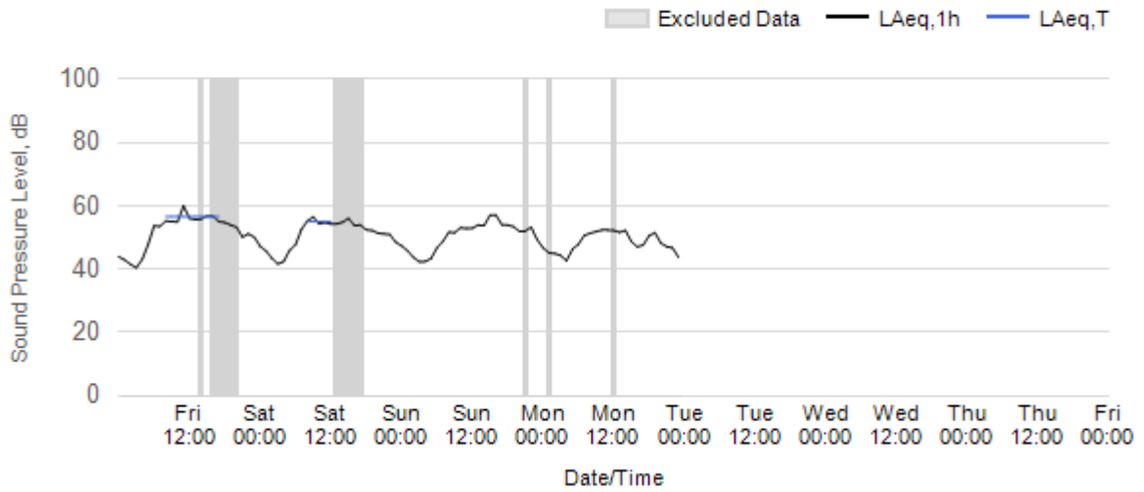
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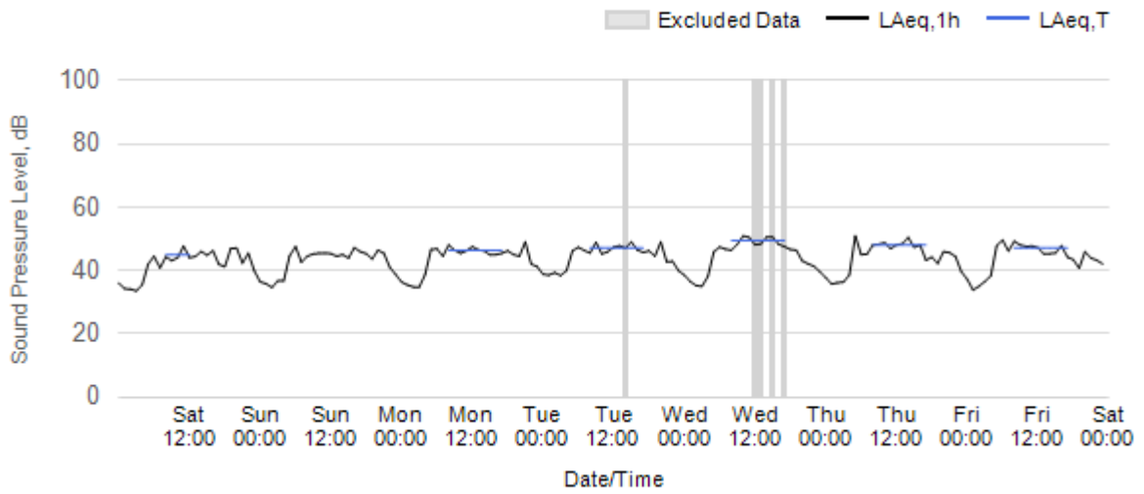


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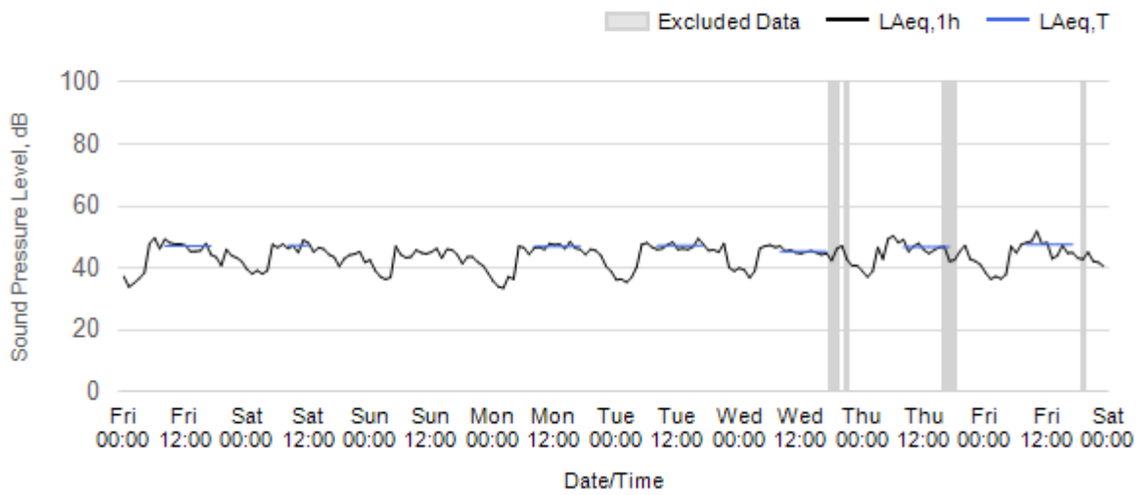


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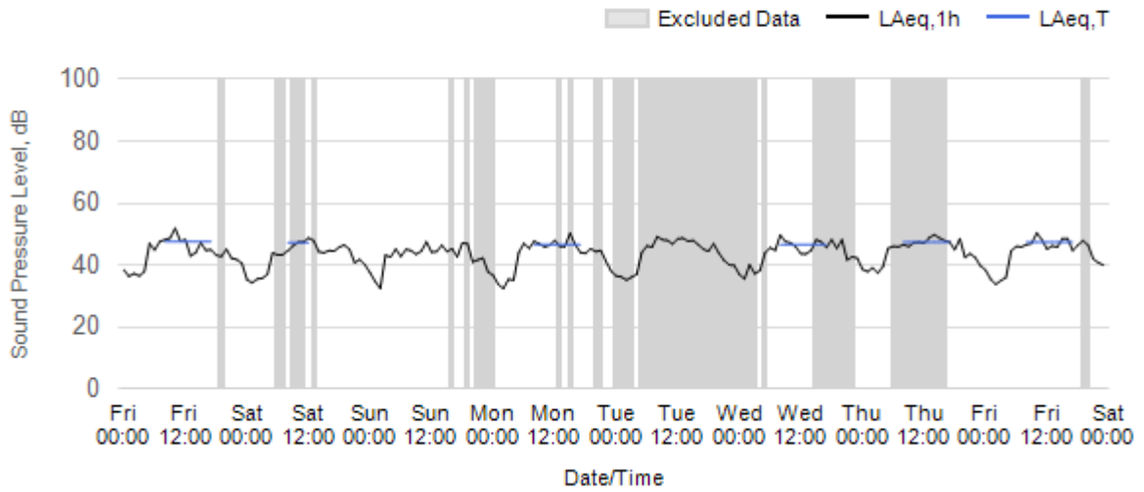
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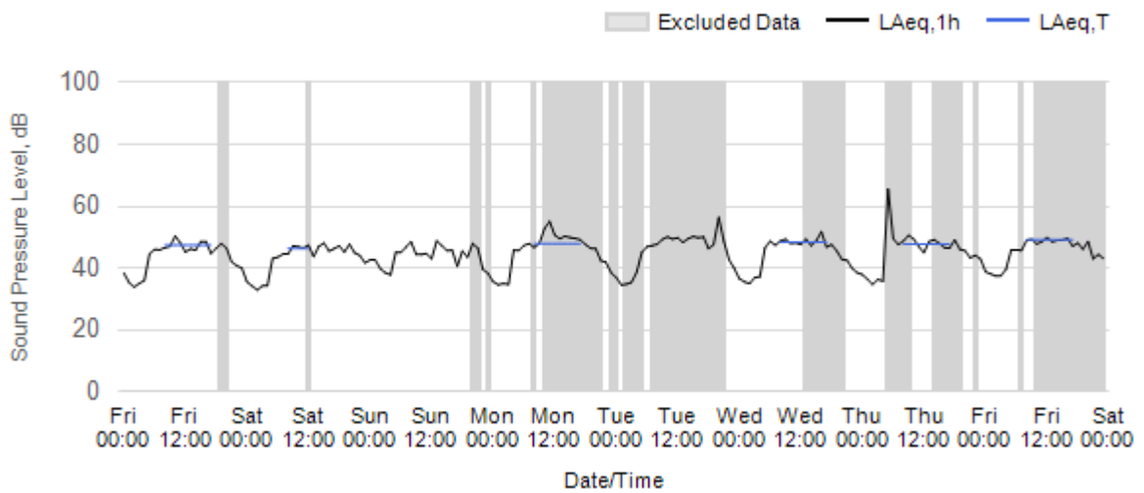
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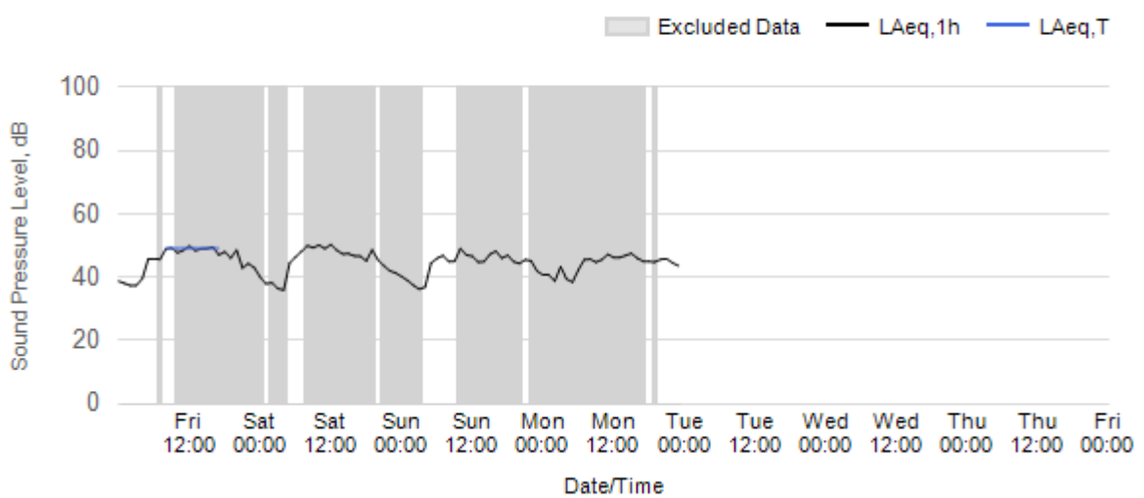
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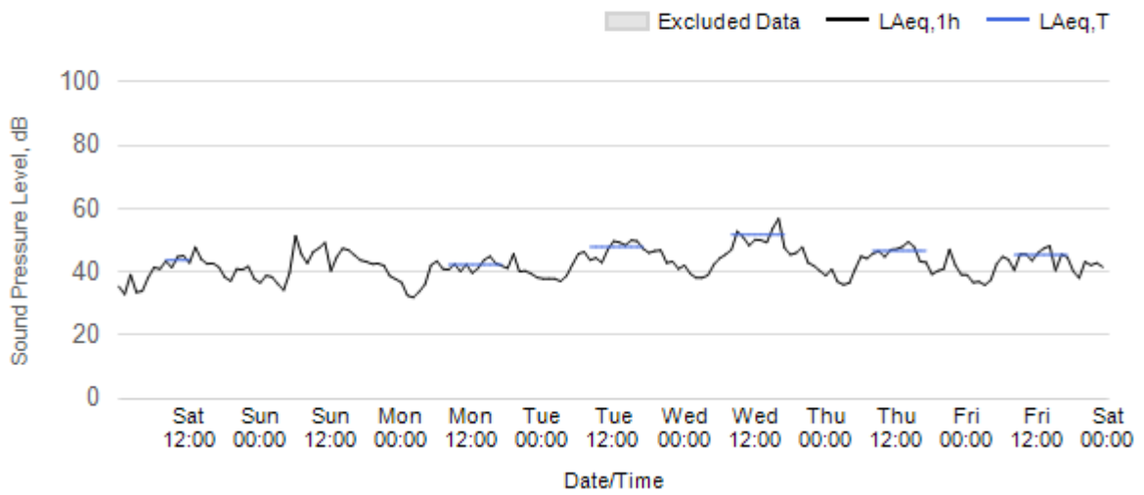


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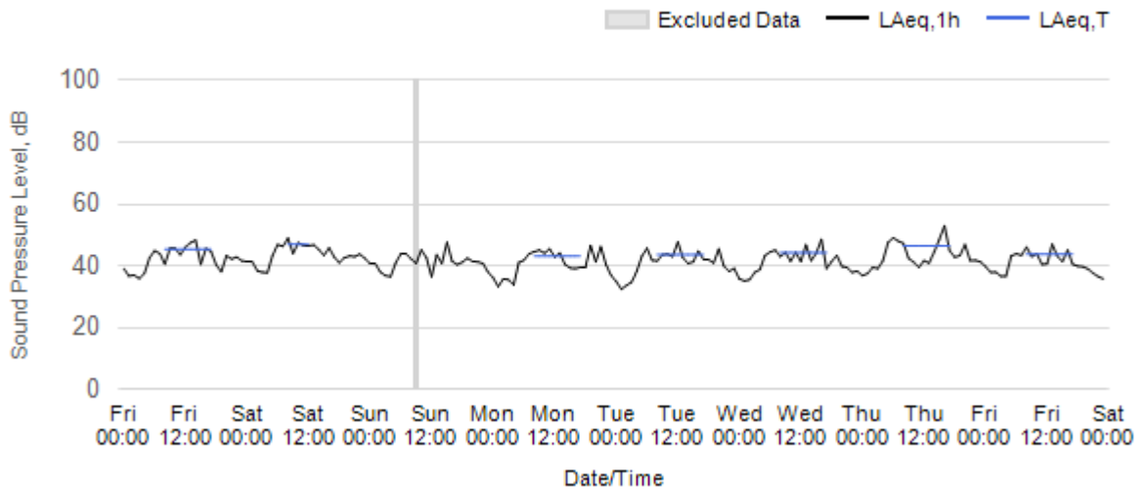


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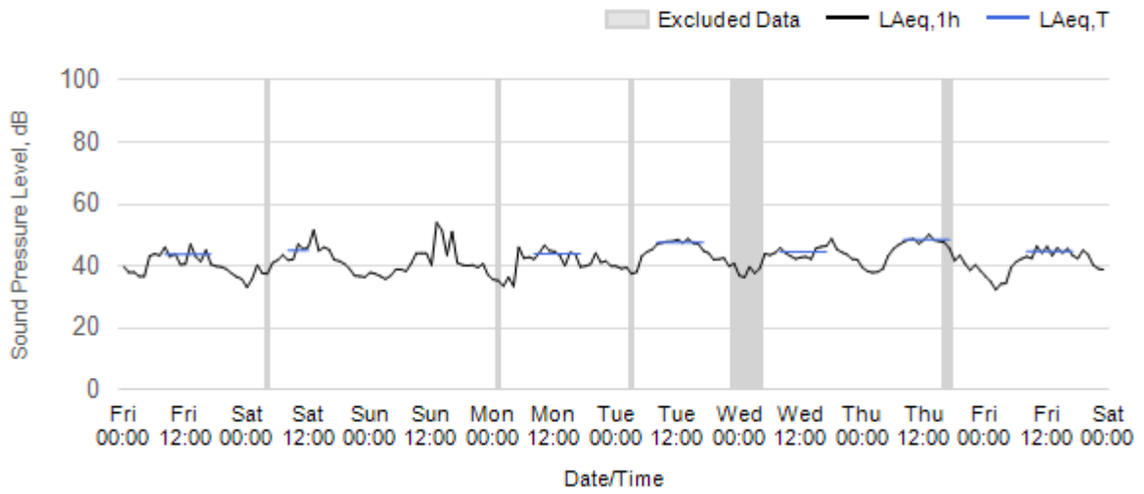
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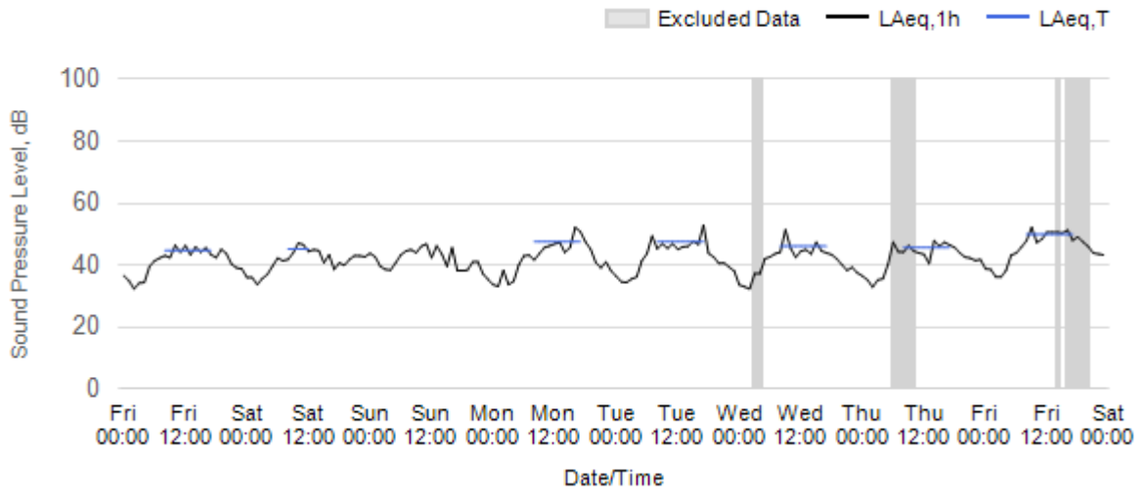
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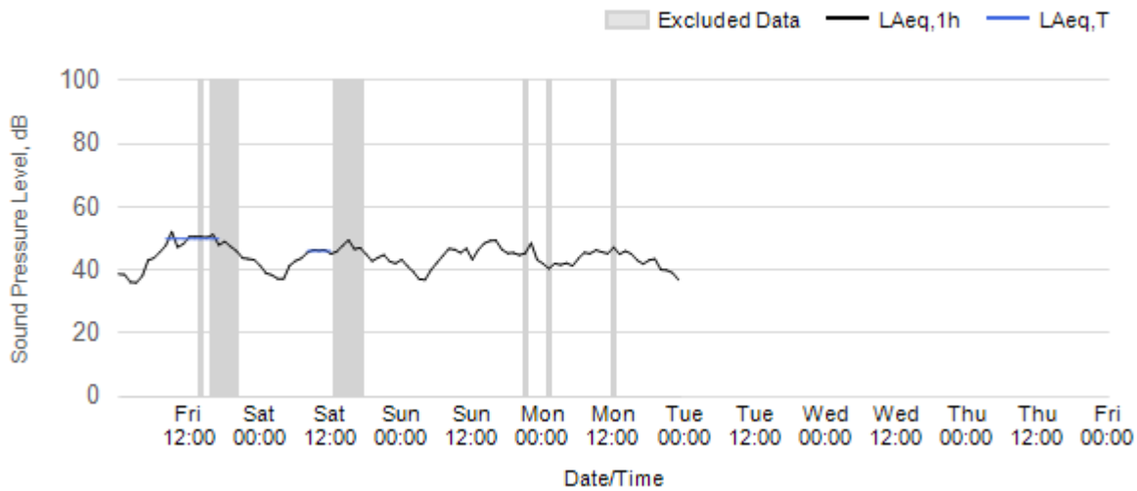
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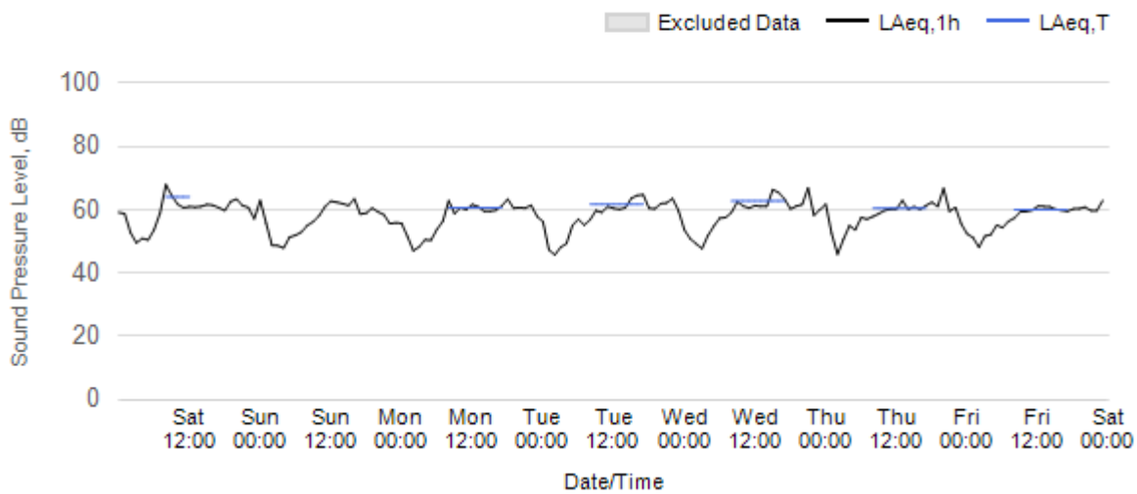


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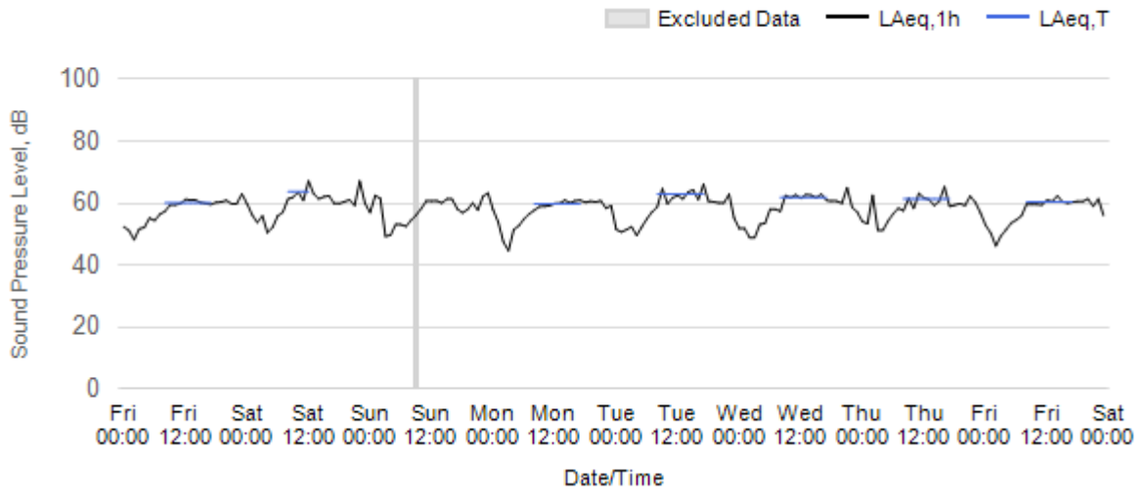


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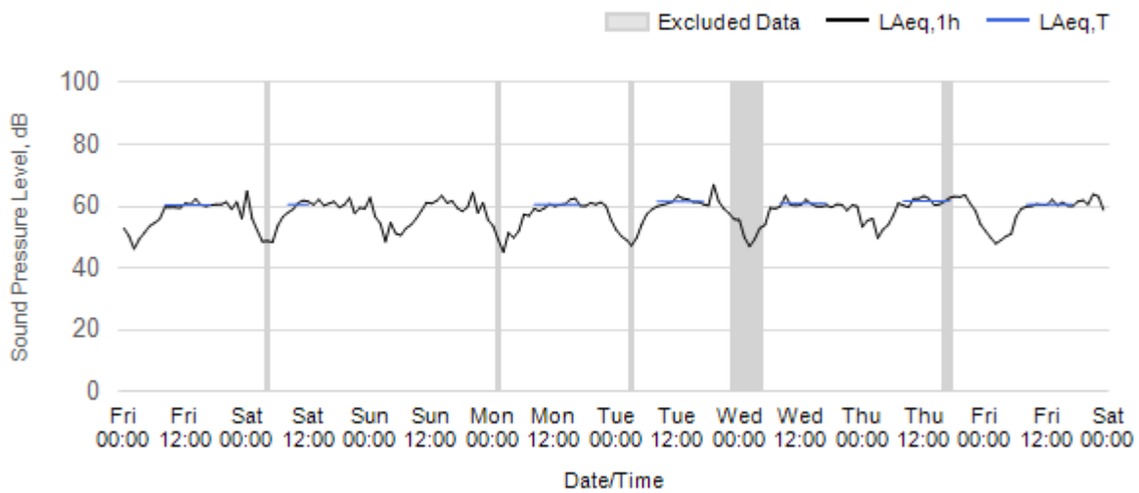
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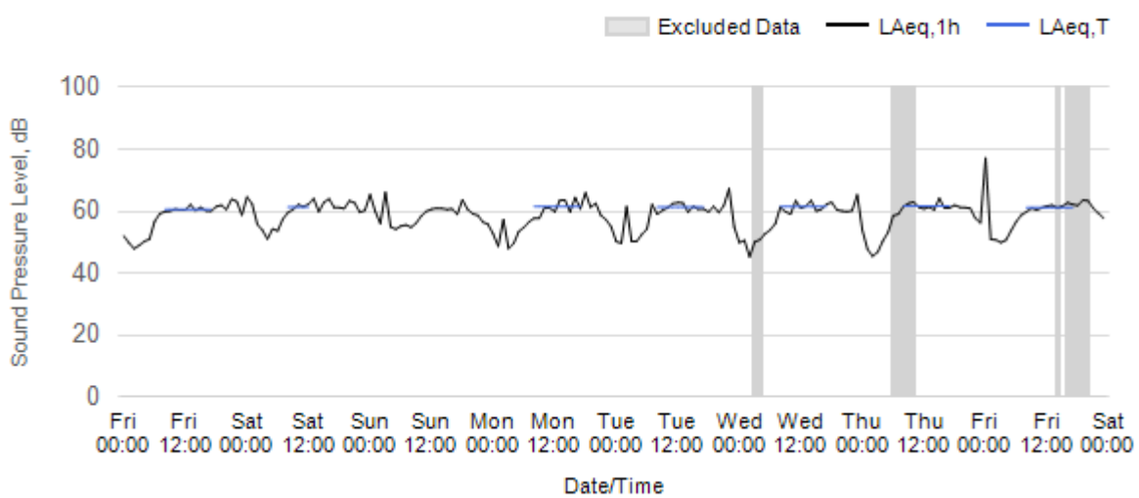
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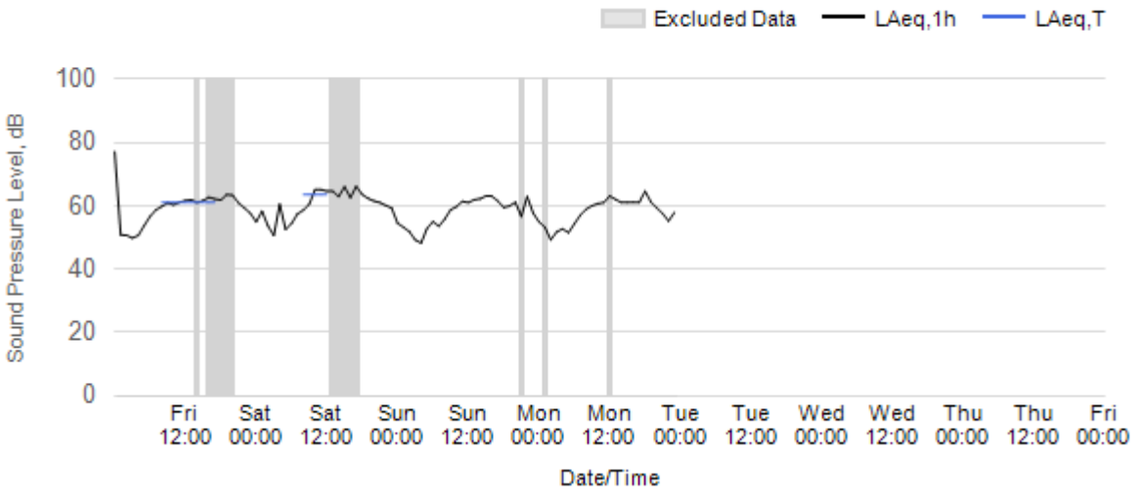
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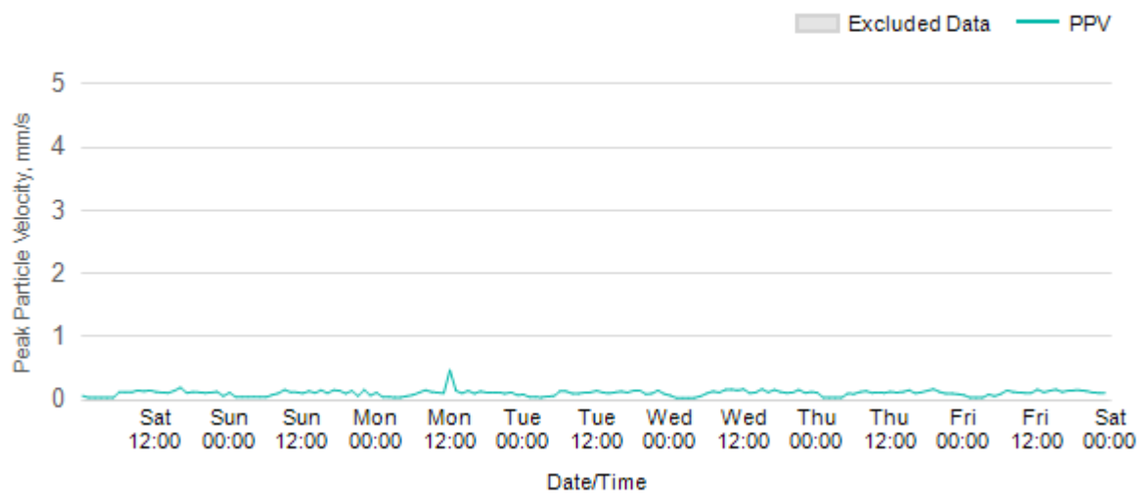


Vibration

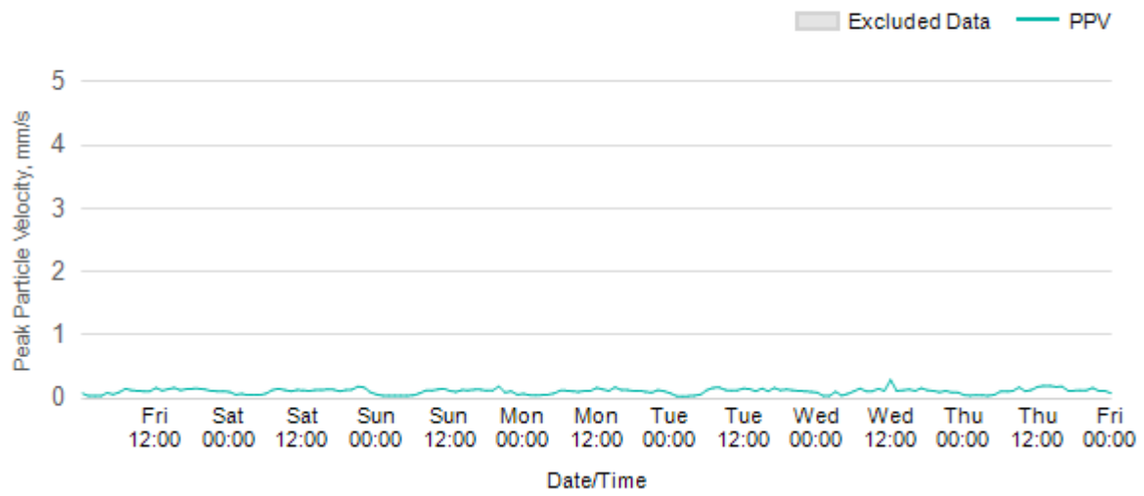
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which 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: BR - Monitoring Ref: HC-V002

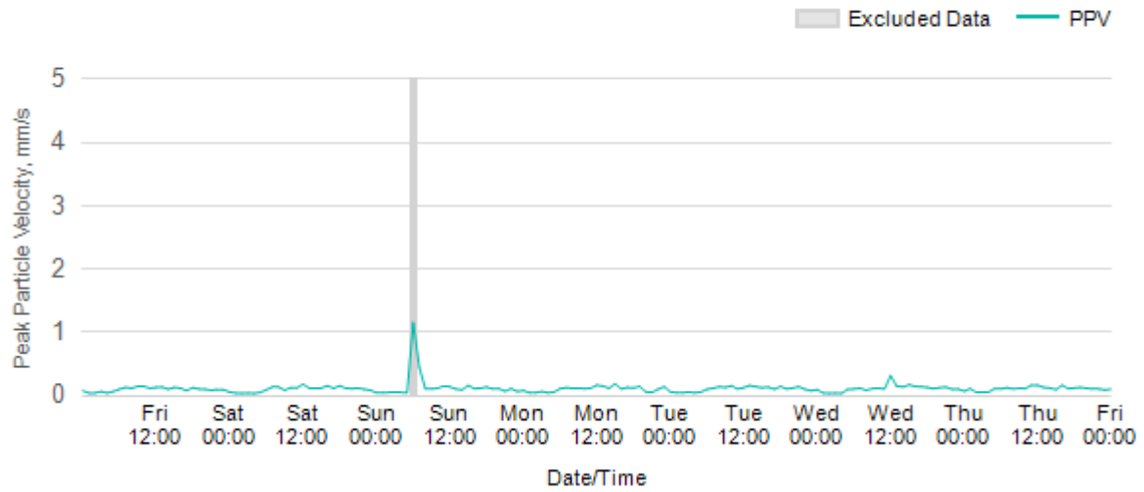
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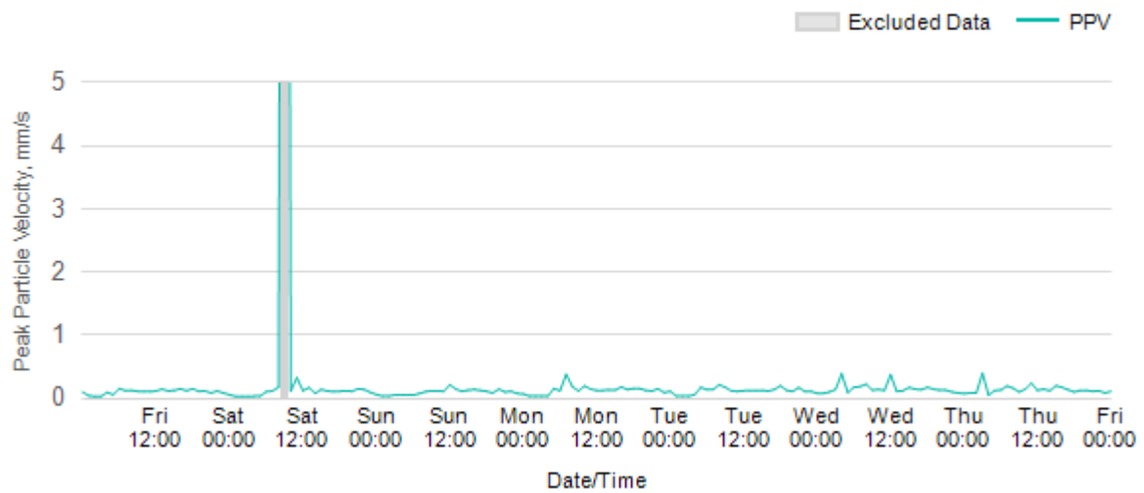
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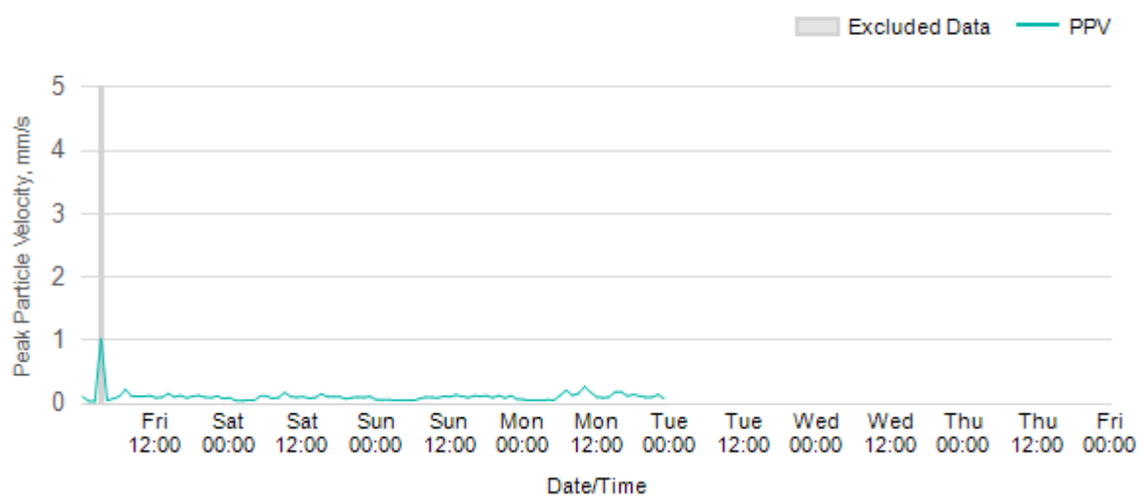
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Worksite: BR Monitoring Ref: HC-V002 22 August 2026 to 28 August 2026

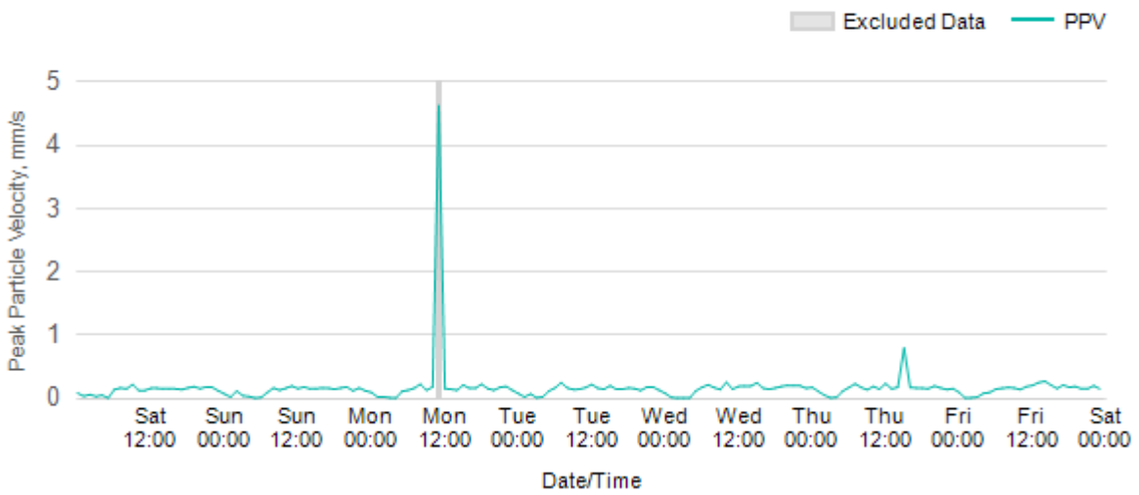


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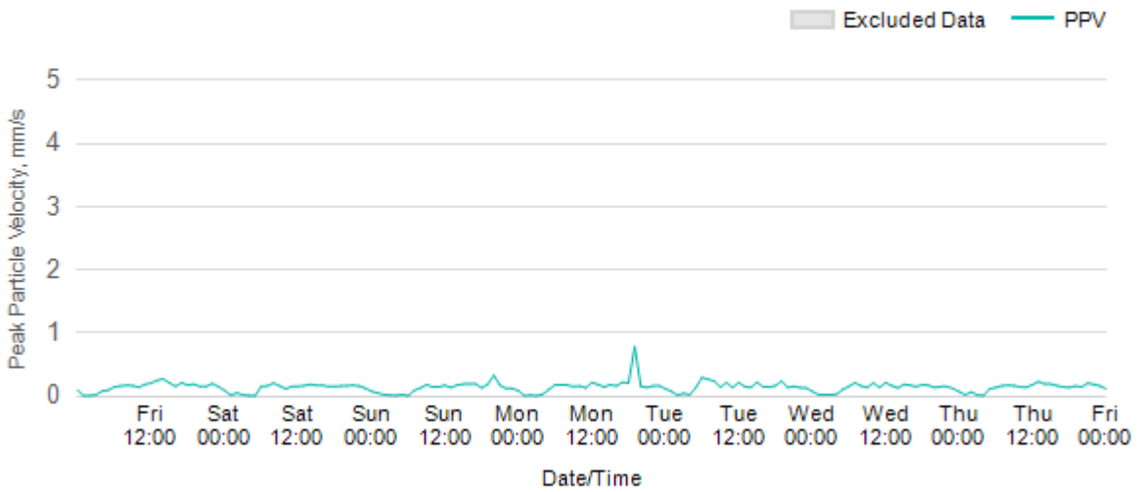


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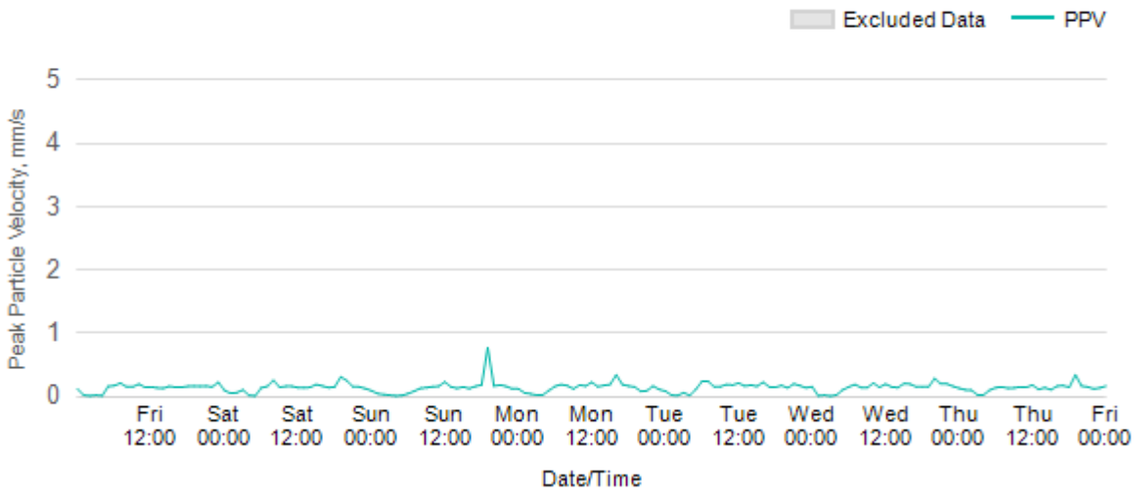
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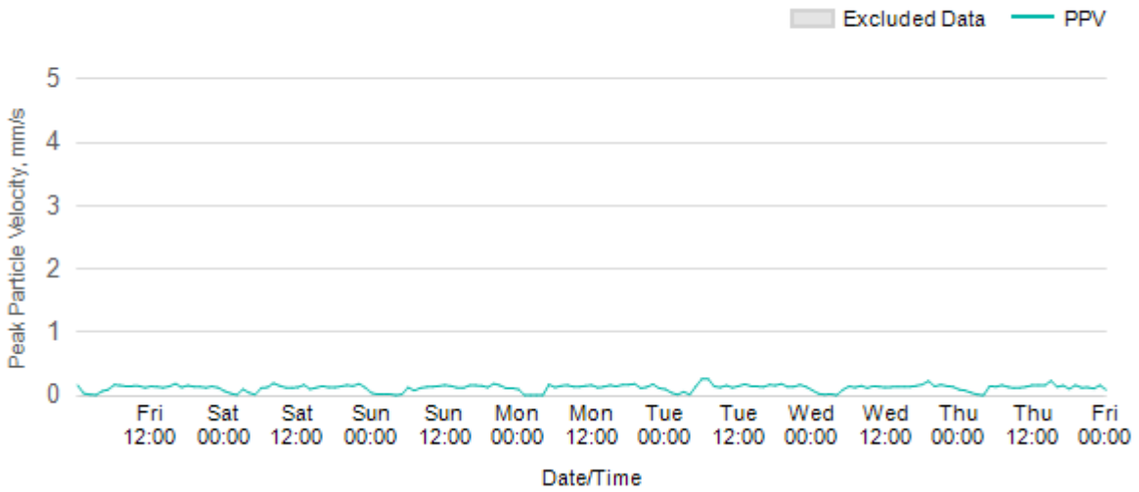
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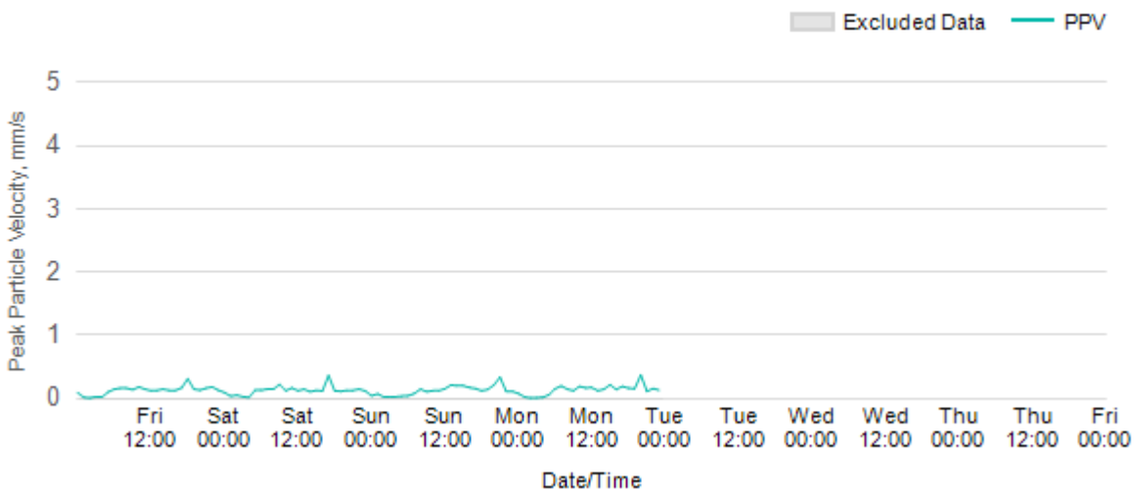
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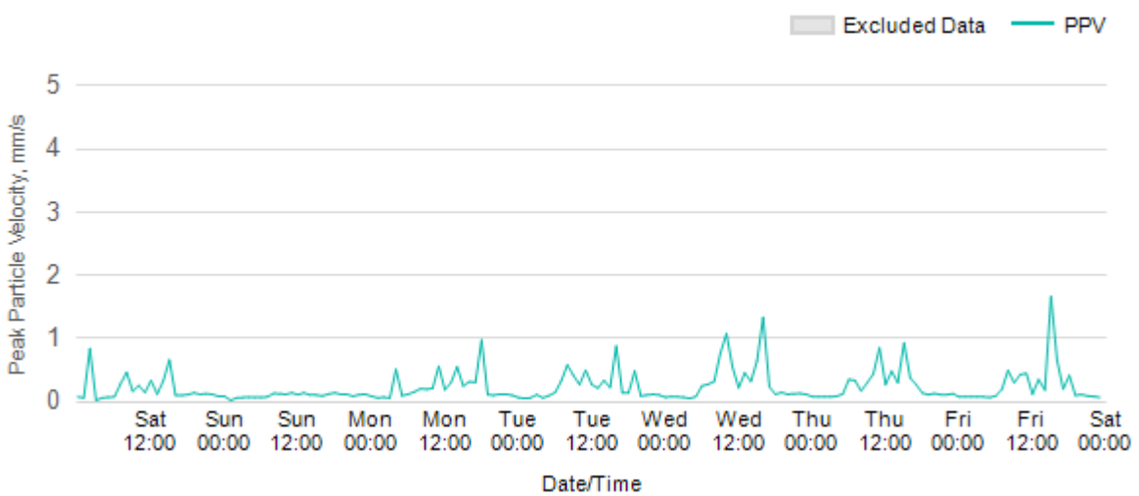


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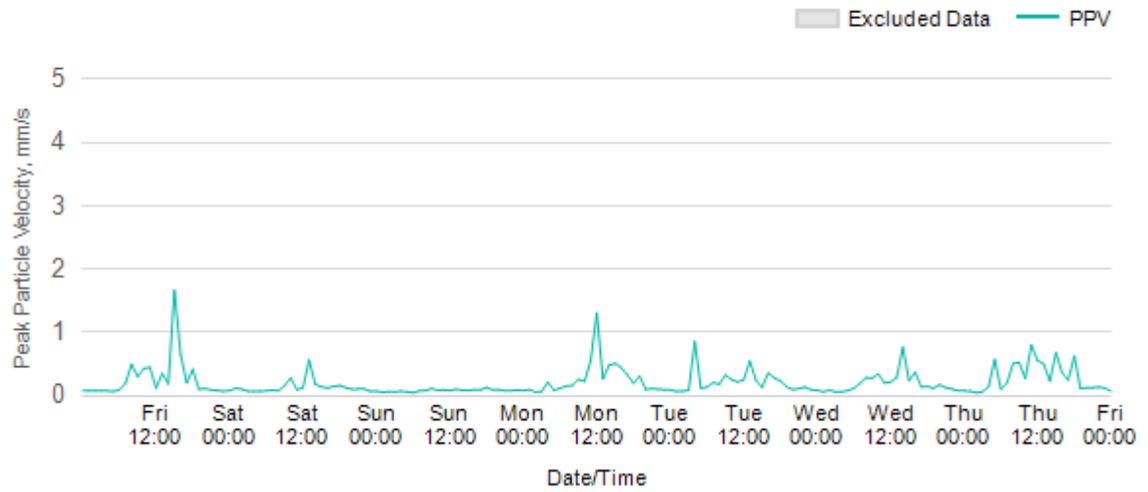


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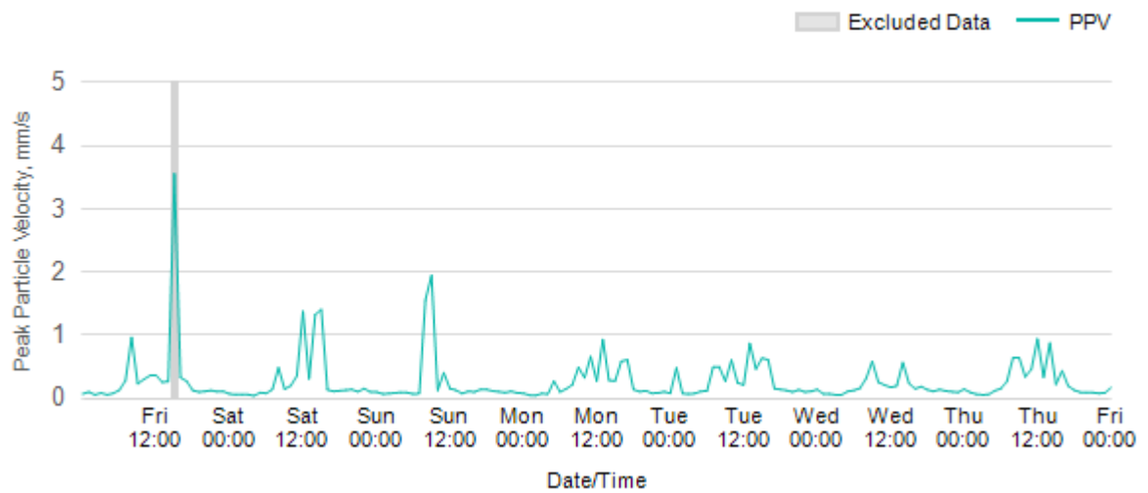
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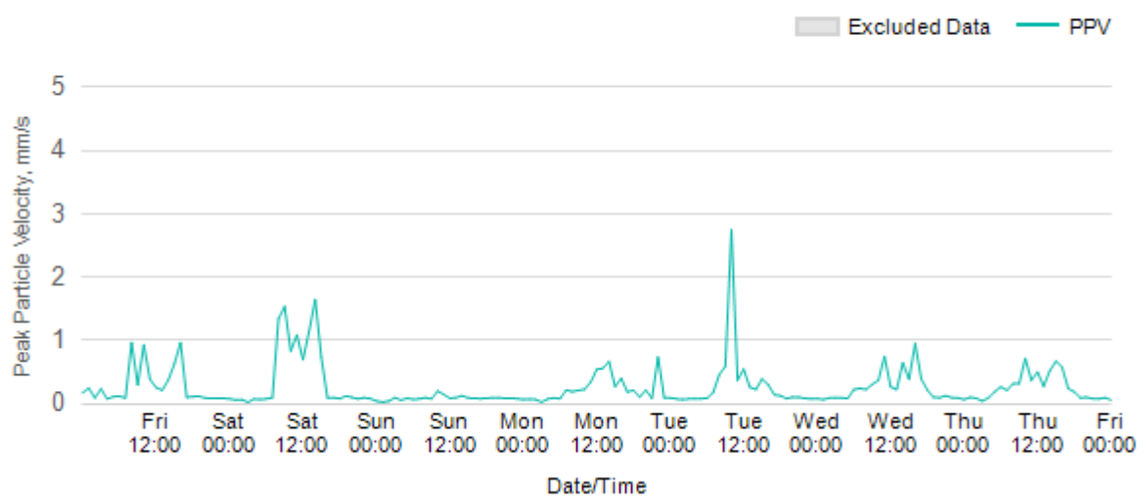
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Worksite: SRVS Monitoring Ref: SRVS-V001a 22 August 2026 to 28 August 2026



Worksite: SRVS Monitoring Ref: SRVS-V001a 29 August 2026 to 4 September 2026

