March 2026

Construction noise and vibration Monthly Report – March 2026

Warwick District Council

Index

List of tables

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 Warwick District Council during the month of Mar 2026.

Within this period monitoring was undertaken at the following worksites:

- A46 Compound and Dalehouse Lane worksite (ref.: A46C & DHL) where deck and diaphragm fixing works, deck shuttering works, defect repairs, site tidying, earthworks, drainage works, wing wall excavation, utilities amendments and haul road maintenance works were underway.
- Burton Green Tunnel Southern Portal worksite (ref.: BSP) where Sitewide drainage maintenance works were underway.
- Stoneleigh Park worksite (ref.: SP) where Stonehouse site maintenance, earthworks, parapet delivery, capping layer and subbase, parapet stitch shutter removal, pile cropping and road surfacing works were underway.
- Burton Green Tunnel worksite (ref.: BGT) where piling platform construction and beam installation at the Burton green tunnel south portal wereunderway.
- Offchurch Cutting worksite (ref.: OC) where Road construction, curb construction, earthworks, site deliveries, drainage works, utilities finalisation, and site maintenance works were underway.
- Cubbington Road worksite (ref.: C) where installation of parapets, pouring of stitch, sheet-pile installation, wingwall works, concrete finishing to abutments and piers, stitch installation, repair works to drainage and earthworks activities were undertaken.
- A429 Kenilworth Road Overbridge worksite (ref.: A429) where viaduct parapet installation works, embankment backfill, embankment dig & replace and upper embankment fill 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-papersenvironment) were exceeded five (5) times during the reporting period.

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

No complaints were received during the monitoring period.

Abbreviations and Descriptions

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

Table 1: Table of Abbreviations

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

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

1 Introduction

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

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

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

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

- A46 Compound and Dalehouse Lane worksite ref.: A46C & DHL (See plan 3 in Appendix A), where work activities included:
    - Dalehouse lane overbridge works including: deck and diaphragm fixing, deck shuttering, defect repairs and site tidying
    - Earthworks,
    - Drainage works
    - Wing wall excavation
    - Utilities amendments
    - Haul road maintenance
- Burton Green Tunnel Southern Portal worksite ref.: BSP (See plan 1 in Appendix A), where work activities included:
    - Sitewide drainage maintenance works
- Cryfield Grange Road Realignment worksite ref.: CGR (See plan 2 in Appendix A), where no works were undertaken.
- Stoneleigh Park worksite ref.: SP (See plan 3 in Appendix A), where work activities included:
    - Stonehouse site maintenance
    - Earthworks
    - Parapet delivery
    - Capping layer and subbase
    - Parapet Stitch Shutter Removal
    - Pile Cropping
    - Road surfacing
- Burton Green Tunnel worksite ref.: BGT (See plan 1 in Appendix A), where work activities included:

        - Piling platform construction
        - Beam install Burton green tunnel south portal
    - Offchurch Cutting worksite ref.: OC (See plan 5 in Appendix A), where work activities included:
        - Road construction
        - Curb construction
        - Earthworks
        - Site deliveries
        - Drainage works
        - Utilities finalisation
        - Site maintenance
    - Cubbington Road worksite ref.: C (See plan 4 in Appendix A), where work activities included:
        - Installation of parapets
        - Pouring of stitch
        - Sheet-pile installation
        - Wingwall works
        - Concrete finishing to abutments and piers
        - Stitch installation
        - Repair works drainage
        - Earthworks activities
    - A429 Kenilworth Road Overbridge worksite ref.: A429 (See plan 2 in Appendix A), where work activities included:
        - Viaduct parapet installation
        - Embankment backfill
        - Embankment dig & replace
        - Upper embankment fill

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 17 noise and 7 vibration monitoring installations were active in March in the Warwick District Council area. Tables 2a and 2b summarise the position of noise and vibration monitoring installations within the Warwick District Council area in March 2026.

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

Table 2a: Noise Monitoring Locations

Worksite Reference	Measurement Reference	Address
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth
	A429-N3	16 Kenilworth Road, Kenilworth
A46C	A46C-N1	Four Winds, Dalehouse Lane, Kenilworth, Warwickshire
	A46C-N3	Four Winds, Dalehouse Lane, Kenilworth, Warwickshire
BGT	BGT-N5	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
	BGT-N8	Alms House, Cromwell Lane, Burton Green
BSP	BSP-N1	301 Cromwell Ln, Burton Green, Kenilworth
C	C-N1	Broadwell Woods Caravan Park, Red Ln, Burton Green
	C-N2	Birches Wood Farm, Crackley Lane, Burton Green
DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth
OC	OC-N2	Valley Fields, Hunningham Road, Offchurch
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch
	OC-N7	Welsh Road Farm, Welsh Road, Offchurch
	FOS-N1	(East of) Landsdowne House, Offchurch
SP	SP-N1	(north-west of) East Lodge, Stoneleigh Park, Kenilworth
	SP-N2	4th Street, Stoneleigh Park, Kenilworth

Table 2b: Vibration Monitoring Locations

Worksite Reference	Measurement Reference	Address
A46C	A46C-V1	Kingswood Farmhouse, Dalehouse Lane
BGT	BGT-V11	Cromwell Ln, Burton Green
	BGT-V3	Alms House, Cromwell Lane, Burton Green
CGR	CGR-V1	Birches Wood Farm, Crackley Lane, Burton Green
C	C-V1	Wychwood, Rugby Road, Cubbington
FOS	FOS-V1	Landsdowne House, Offchurch
SP	SP-V1	East Lodge, Stoneleigh Park

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
BSP	BSP-N1	Broadwell Woods Caravan Park, Red Ln, Burton Green		53.0 (56.5)	57.0 (59.8)	46.0 (56.0)	43.0 (55.5)	41.6 (55.7)	46.8 (55.7)	52.5 (55.4)	44.0 (48.5)	44.3 (54.1)	39.1 (45.5)	47.0 (55.1)	40.3 (49.0)
DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth		60.4 (64.3)	58.8 (62.3)	50.4 (53.5)	48.4 (53.0)	48.8 (61.9)	48.4 (50.1)	49.4 (52.2)	48.7 (51.6)	46.3 (50.1)	47.0 (51.2)	49.3 (54.4)	49.4 (60.8)
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth		51.4 (57.1)	53.7 (58.3)	53.1 (55.8)	51.8 (55.2)	50.5 (59.6)	51.0 (55.1)	52.5 (55.0)	54.0 (56.2)	52.3 (63.2)	43.4 (50.5)	50.2 (58.5)	44.4 (50.9)
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth		52.8 (55.4)	54.7 (56.9)	50.9 (53.4)	49.5 (53.0)	47.2 (53.5)	48.3 (49.9)	49.6 (52.3)	49.9 (51.5)	48.7 (59.0)	43.0 (48.8)	48.0 (52.6)	43.7 (49.7)
	A429-N3	16 Kenilworth Road, Kenilworth		61.0 (62.9)	60.6 (61.6)	60.0 (61.0)	57.8 (60.4)	52.8 (59.5)	57.3 (58.9)	59.7 (60.9)	59.3 (60.5)	58.5 (62.0)	52.1 (57.3)	58.8 (62.5)	52.2 (59.7)
A46C	A46C-N1	Four Winds, Dalehouse Lane, Kenilworth		61.2 (64.8)	61.4 (63.7)	60.2 (62.5)	58.1 (61.1)	55.8 (64.1)	57.1 (58.4)	57.4 (60.8)	57.0 (61.8)	57.0 (61.6)	54.3 (59.3)	59.0 (62.5)	55.5 (62.5)
	A46C-N3	Kingswood Farmhouse, Dalehouse Lane, Kenilworth		56.5 (62.7)	61.7 (72.2)	55.0 (58.9)	53.4 (57.9)	50.4 (61.4)	49.2 (50.2)	49.9 (51.4)	49.2 (54.0)	52.2 (55.6)	52.3 (56.2)	53.5 (59.1)	50.1 (58.9)
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green		51.5 (57.1)	52.9 (64.4)	50.1 (54.8)	43.1 (52.1)	46.0 (61.2)	53.5 (56.0)	50.5 (52.8)	50.1 (51.0)	48.7 (54.5)	46.1 (56.9)	48.7 (53.7)	46.5 (59.0)
	BGT-N8	301 Cromwell Ln, Burton Green		47.1 (50.2)	60.7 (63.7)	45.5 (51.2)	41.7 (50.5)	40.0 (50.7)	44.0 (45.4)	47.4 (48.8)	42.3 (43.3)	43.3 (48.1)	38.4 (45.3)	44.5 (49.6)	40.3 (46.5)
C	C-N1	Wychwood, Rugby Road, Cubbington, Leamington Spa		51.0 (55.4)	59.5 (64.9)	50.4 (61.8)	46.5 (59.4)	43.6 (54.6)	49.0 (52.1)	53.7 (59.6)	50.8 (54.5)	49.2 (55.3)	44.8 (51.9)	51.1 (56.0)	45.1 (54.4)
	C-N2	Heathfield, Leicester Lane, Cubbington, Royal Leamington Spa		62.8 (69.9)	66.7 (68.6)	60.3 (67.8)	56.9 (64.4)	54.4 (66.6)	57.9 (63.7)	66.2 (69.1)	63.4 (66.3)	62.9 (66.3)	56.6 (61.4)	60.5 (68.4)	55.1 (64.9)
OC	OC-N2	Valley Fields, Hunningham Road, Offchurch, Leamington Spa		49.1 (51.6)	57.8 (61.9)	49.1 (58.6)	45.7 (57.3)	46.6 (52.8)	47.1 (50.9)	55.1 (59.7)	54.8 (60.6)	48.1 (59.0)	44.8 (52.1)	51.0 (58.1)	46.4 (53.3)
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch		57.0 (59.7)	55.6 (58.3)	54.6 (56.2)	50.5 (59.3)	47.7 (55.8)	51.6 (53.5)	54.9 (56.4)	55.6 (57.5)	51.9 (56.2)	45.0 (52.0)	52.7 (57.6)	47.9 (55.4)
	OC-N7	Welsh Road Farm, Welsh Road, Offchurch		66.0 (69.1)	64.4 (67.5)	61.9 (63.2)	58.4 (62.5)	54.2 (63.2)	59.9 (61.0)	64.3 (68.2)	64.5 (68.5)	60.4 (67.9)	50.5 (55.9)	60.7 (64.9)	54.2 (62.8)

	FOS-N1	Landsdowne House, Offchurch		48.0 (50.6)	51.4 (58.3)	46.6 (53.5)	43.6 (54.0)	40.6 (50.6)	45.3 (47.5)	50.7 (52.9)	48.6 (49.9)	43.5 (50.5)	38.7 (44.8)	46.0 (52.6)	41.0 (50.0)
SP	SP-N1	East Lodge, Stoneleigh Park, Kenilworth		55.7 (62.6)	59.9 (65.9)	52.0 (55.0)	48.6 (53.9)	46.8 (57.3)	51.2 (53.3)	56.9 (60.6)	55.7 (56.9)	52.3 (59.7)	45.8 (54.7)	51.6 (57.1)	47.1 (55.3)
	SP-N2	4th Street, Stoneleigh Park, Kenilworth		55.4 (59.8)	57.5 (60.5)	51.3 (54.6)	46.9 (54.0)	45.2 (64.9)	50.2 (51.9)	53.4 (54.5)	54.1 (56.4)	50.7 (58.8)	42.7 (47.3)	49.9 (61.8)	45.6 (55.6)

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
A46C	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	7.16 (Y-axis)
BGT	BGT-V11	Cromwell Ln, Burton Green, Kenilworth	9.18 (X-axis)
	BGT-V3	Alms House, Cromwell Lane, Burton Green	3.83 (X-axis)
C	C-V1	Wychwood, Rugby Road, Cubbington	11.08 (X-axis)
CGR	CGR-V1	Birches Wood Farm, Crackley Lane, Burton Green	1.52 (Y-axis)
OC	FOS-V1	Landsdowne House, Offchurch	1.48 (Z-axis)
SP	SP-V1	East Lodge, Stoneleigh Park, Kenilworth	3.23 (X-axis)

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

2.2 Exceedances of the LOAEL and SOAEL

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

2.2.2 The significant observed adverse effect level (SOAEL) is defined in the 'Planning Practice Guidance – Noise' as the level above which "noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the

noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area."

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

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

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

Table 5: Summary of Exceedances of LOAEL and SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth	Weekday	1900 - 2200	2	No exceedances
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	Saturday	1400 - 2200	1	No exceedances
			Night	2200 - 0700	28	No exceedances
	A429-N3	16 Kenilworth Road, Kenilworth	Saturday	1400 - 2200	1	No exceedances
			Sunday	0700 - 2200	3	No exceedances
			Night	2200 - 0700	30	No exceedances
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	All days	All periods	No exceedances	No exceedances
	A46C-N3	A46 Barns, Dalehouse Lane, Kenilworth	Weekday	0800 - 1800	2	No exceedances
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green, Warwick	All days	All periods	No exceedances	No exceedances
	BGT-N8	301 Cromwell Lane, Burton Green, Warwick	Weekday	0800 - 1800	1	No exceedances
BSP	BSP-N1	Broadwell Woods Caravan Park	Weekday	1900 - 2200	2	No exceedances
C	C-N1	Wychwood, Rugby Road, Cubbington, Leamington Spa	Weekday	0800 - 1800	1	No exceedances
				1800 - 1900	1	No exceedances
	C-N2	Heathfield, Leicester Lane, Cubbington, Leamington Spa	Weekday	0700 - 0800	16	No exceedances
				1800 - 1900	2	No exceedances
			Saturday	0800 - 1300	1	No exceedances

DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth	Weekday	0700 - 0800	15	No exceedances
OC	OC-N2	Valley Fields, Hunningham Road, Offchurch, Leamington Spa	Weekday	1800 - 1900	1	No exceedances
			Saturday	1300 - 1400	1	No exceedances
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch	All days	All periods	No exceedances	No exceedances
	OC-N7	Welsh Road Farm, Welsh Road, Offchurch	Weekday	0700 - 0800	21	No exceedances
				0800 - 1800	1	No exceedances
				1800 - 1900	8	No exceedances
			Saturday	0800 - 1300	1	No exceedances
				1300 - 1400	4	No exceedances
	FOS-N1	Landsdowne House, Offchurch	All days	All periods	No exceedances	No exceedances
SP	SP-N1	East Lodge, Stoneleigh Park, Kenilworth	Weekday	0700 - 0800	2	No exceedances
				0800 - 1800	2	No exceedances
			Saturday	1400 - 2200	3	No exceedances
	SP-N2	4th Street, Stoneleigh Park, Kenilworth	Weekday	0700 - 0800	2	No exceedances
				1900 - 2200	1	No exceedances
			Saturday	1400 - 2200	4	No exceedances

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

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

Table 6: Summary of Total Exceedances of SOAEL

Worksite Reference	Measurement Reference	Monitor Address	Total of SOAEL exceedances in the month
SP	SP-N1	East Lodge, Stoneleigh Park, Kenilworth	5

2.3 Exceedances of Trigger Level

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

Table 7: Summary of Exceedances of Trigger Levels

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

2.4 Complaints

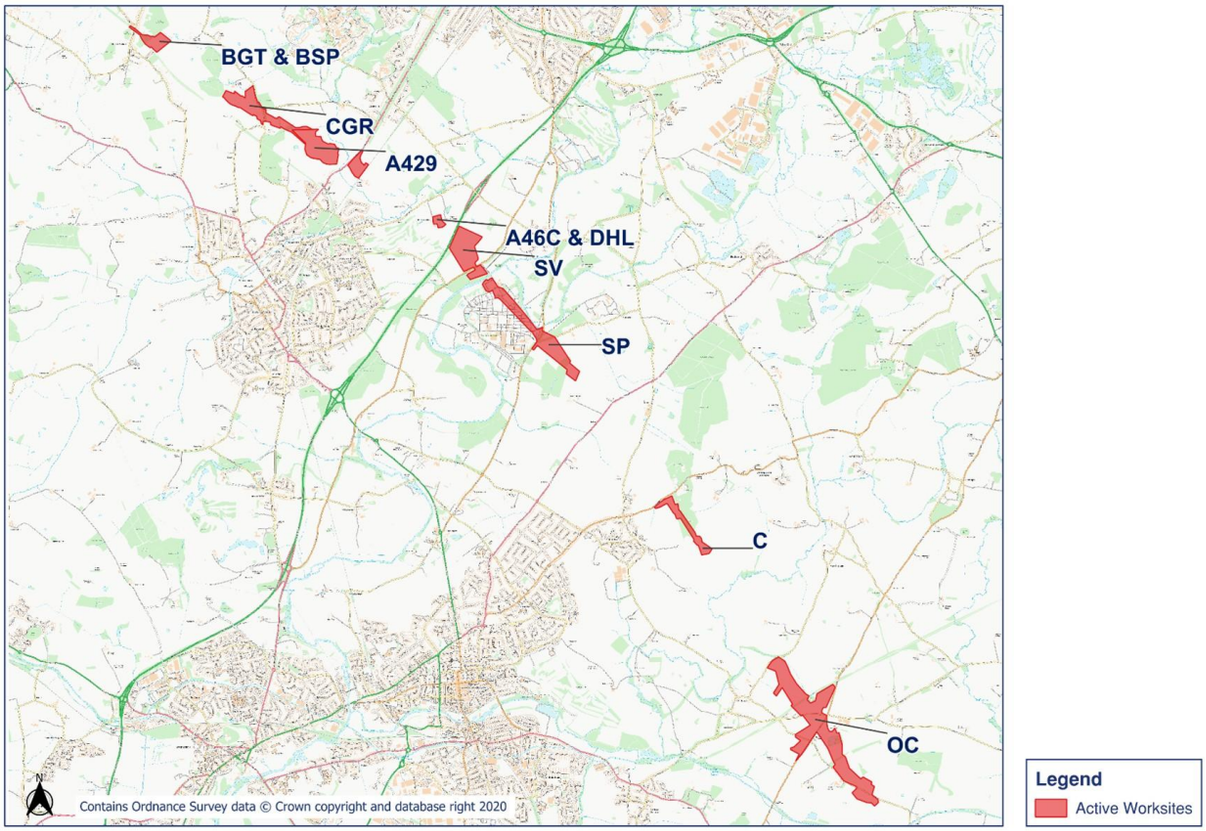
2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

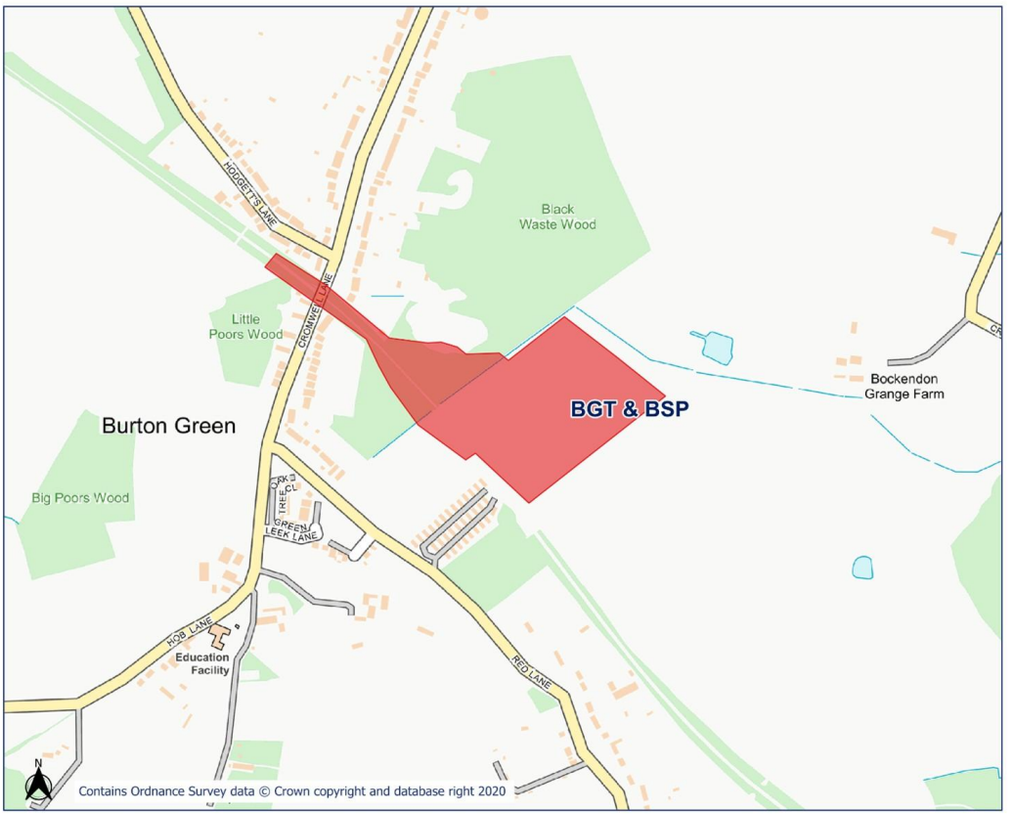
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
-	-	-	-	-

Appendix A Site Locations

HS2 **Worksite Identification Plan - Overview**

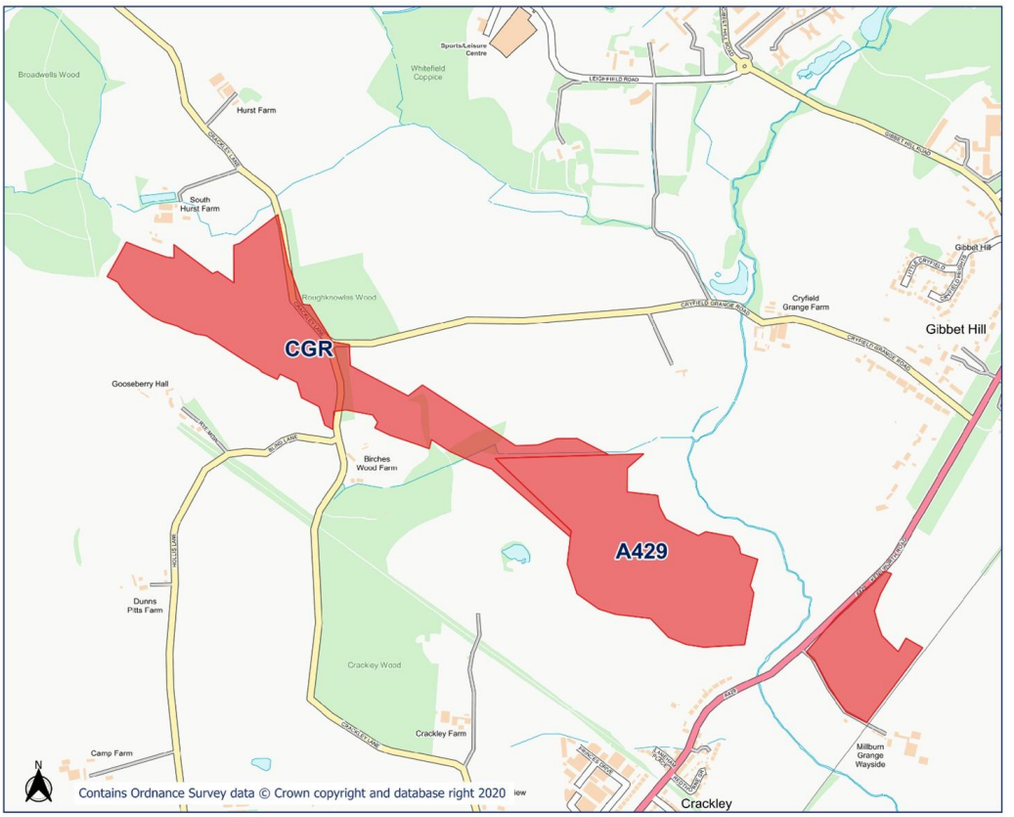


Worksite Identification Plan - 1



HS2

Worksite Identification Plan - 2

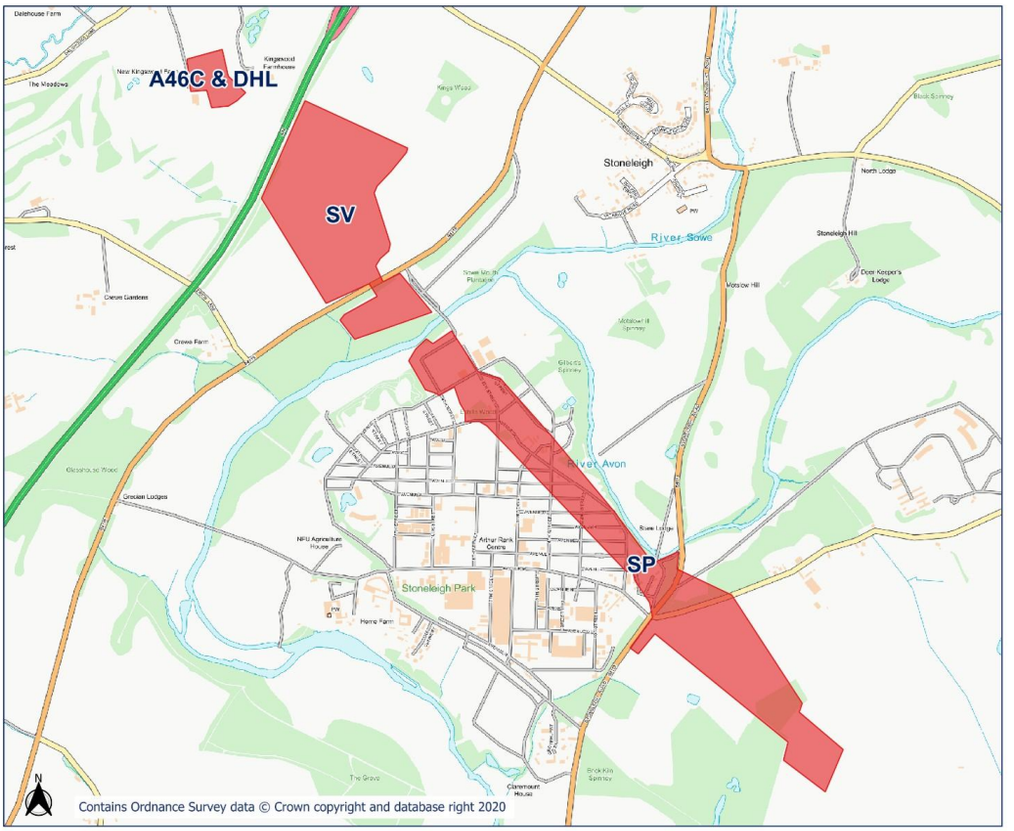


Legend

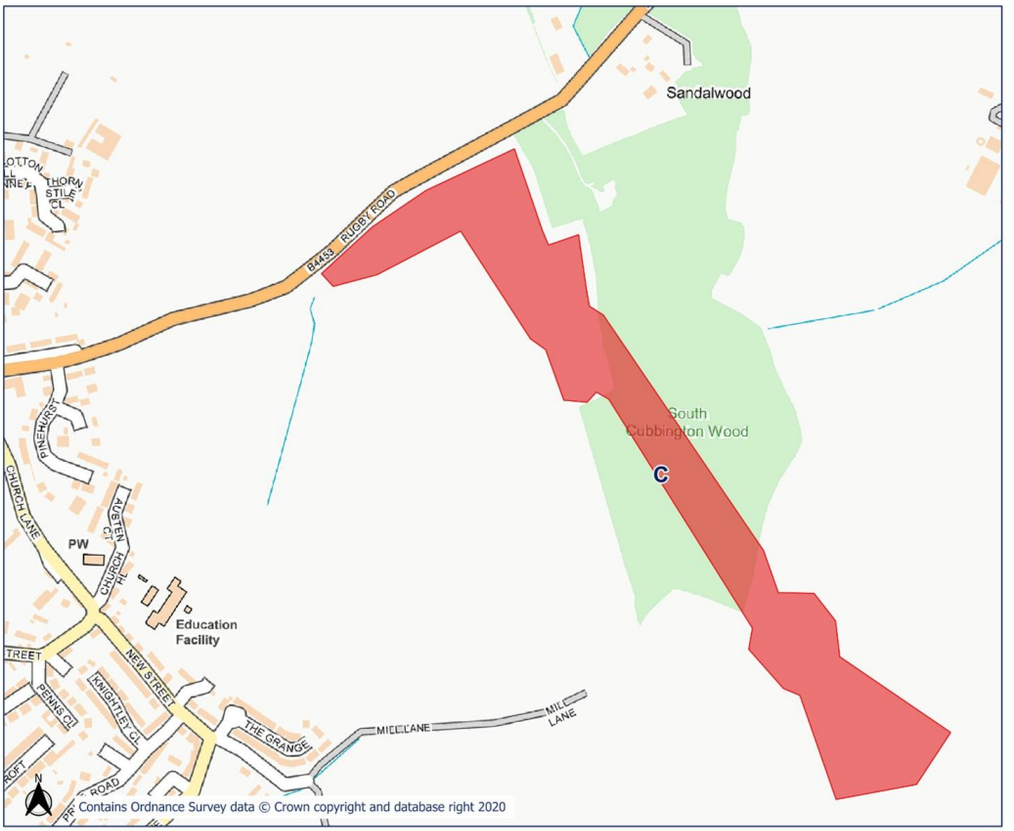
Active Worksites

HS2

Worksite Identification Plan - 3



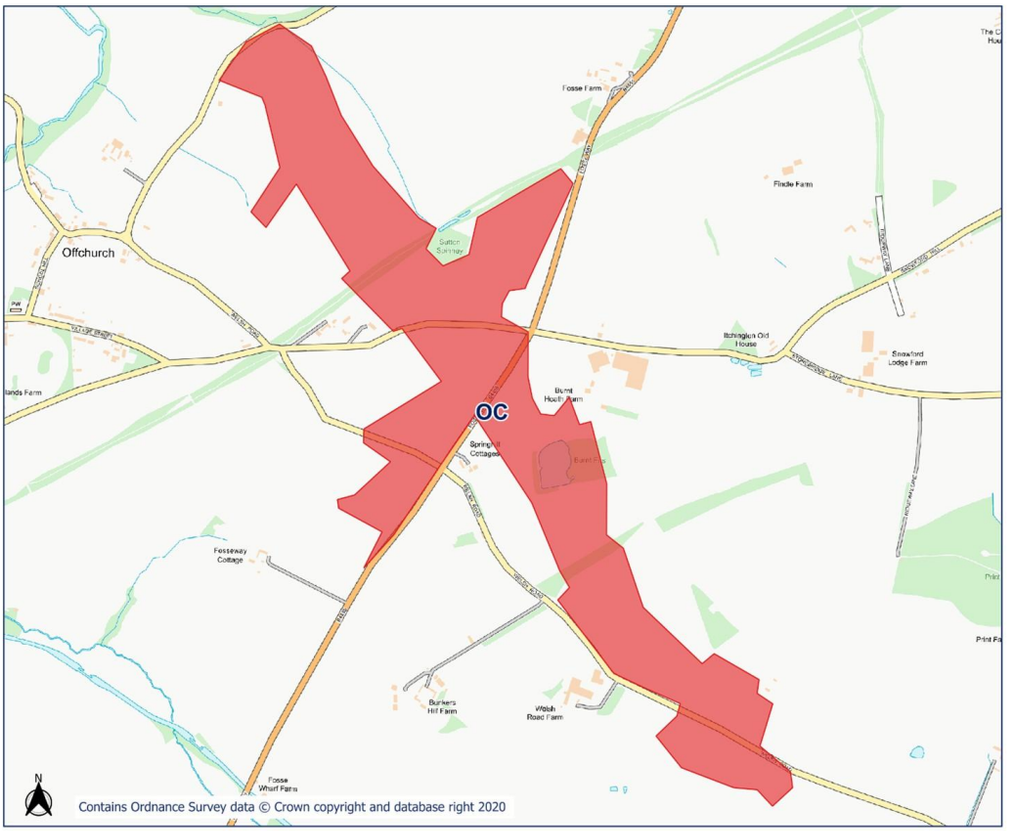
Worksite Identification Plan - 4



Legend

Active Worksites

Worksite Identification Plan - 5

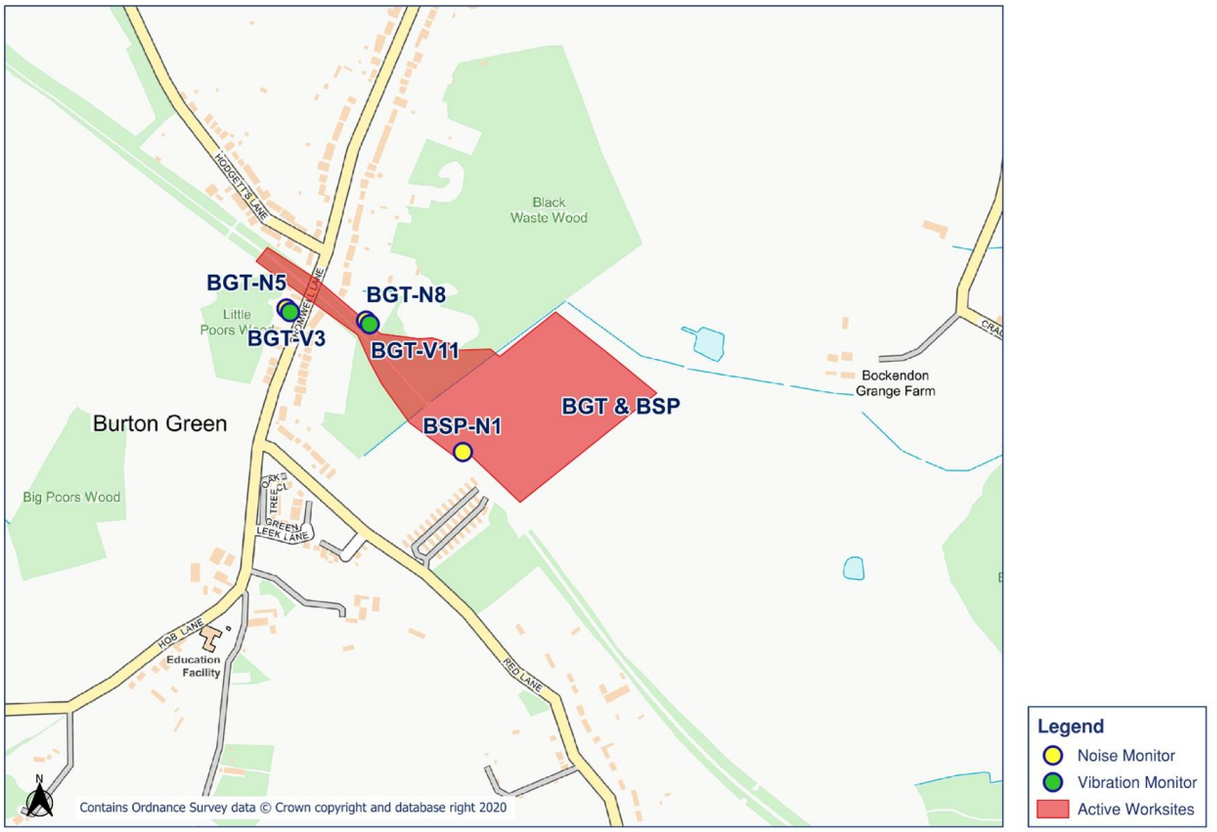


Legend

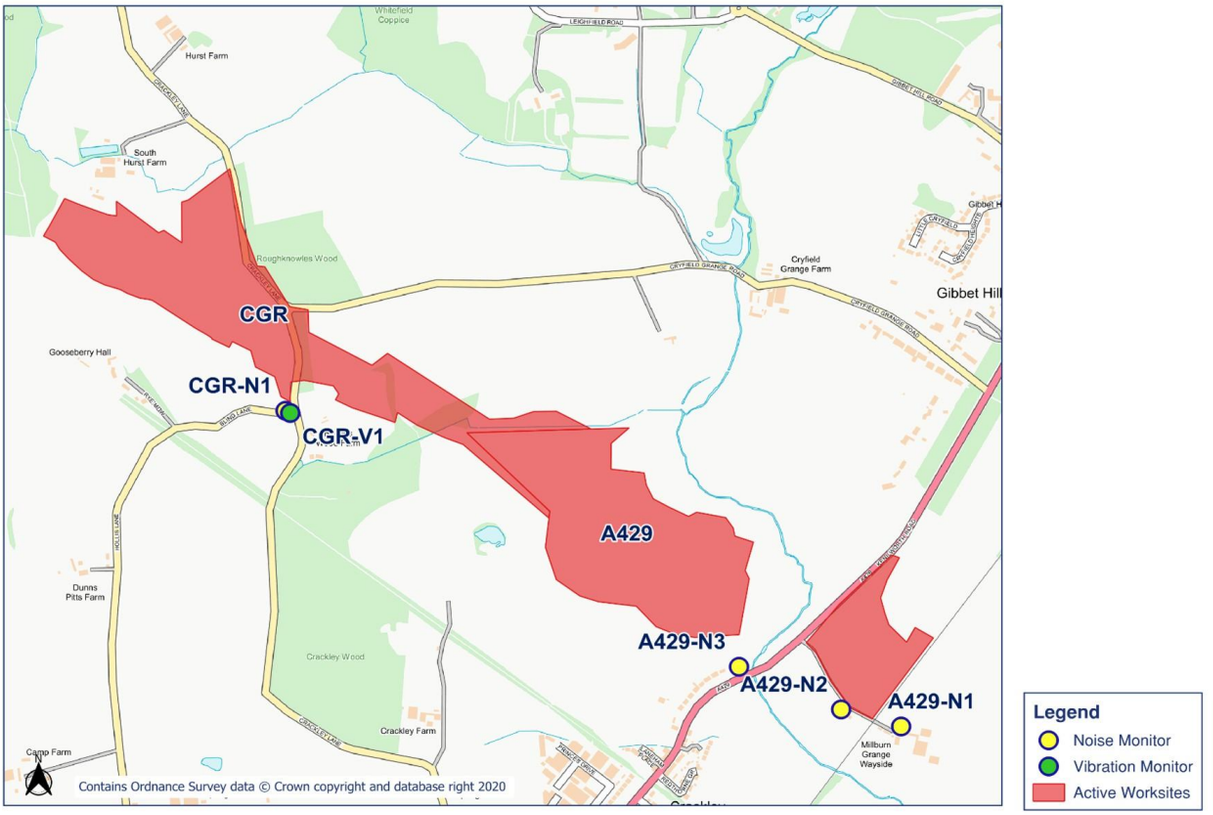
Active Worksites

Appendix B Monitoring Locations

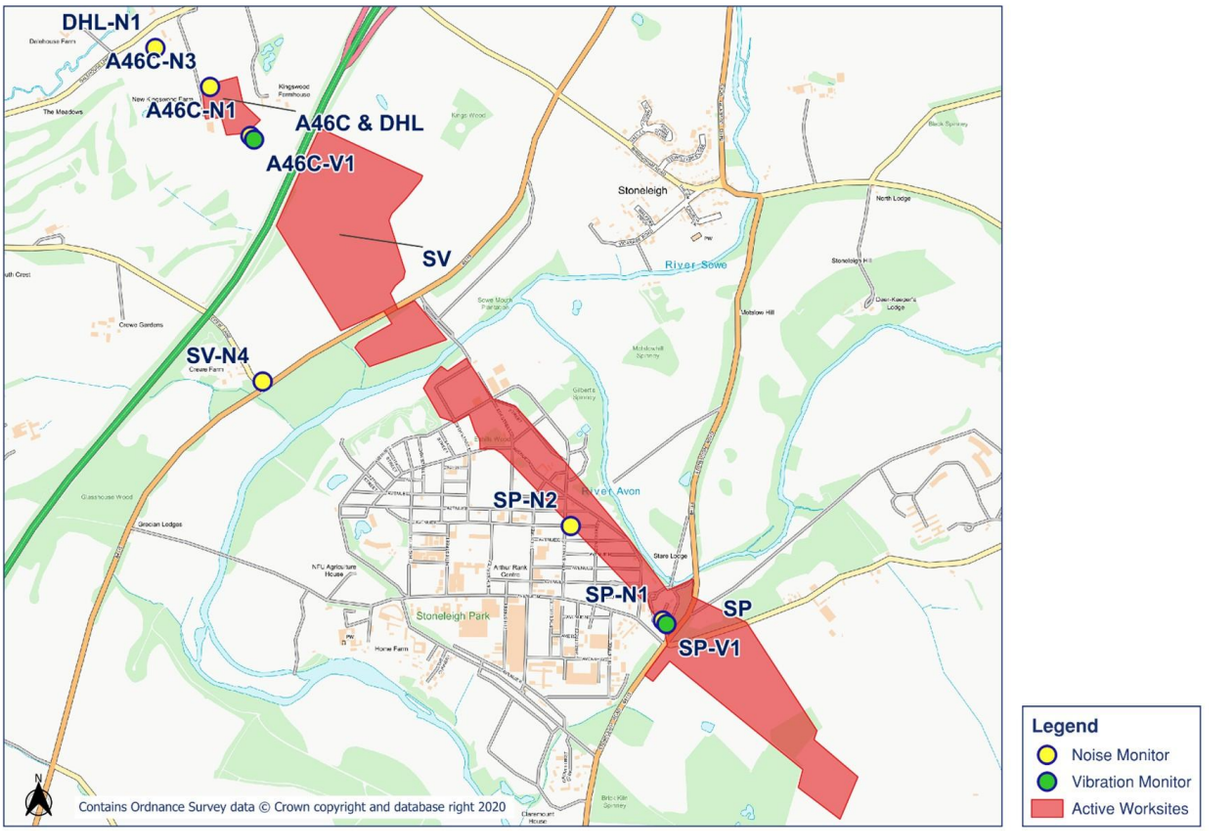
HS2 **Noise and Vibration Monitoring Plan - 1**



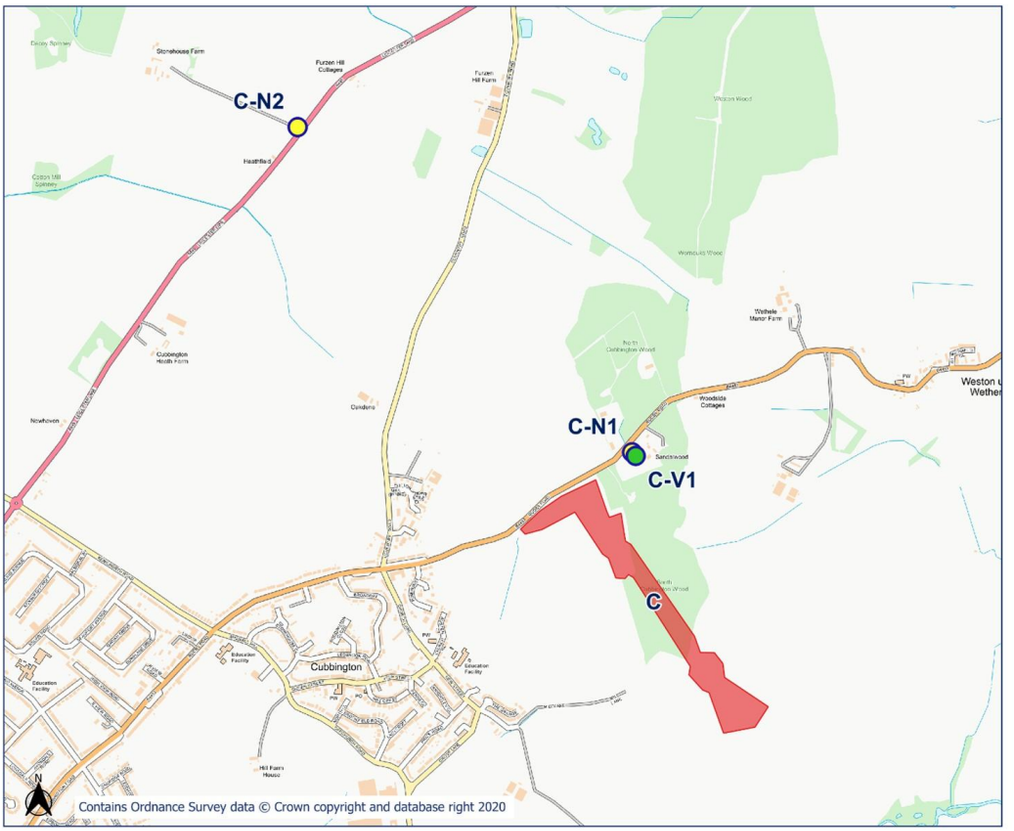
Noise and Vibration Monitoring Plan - 2



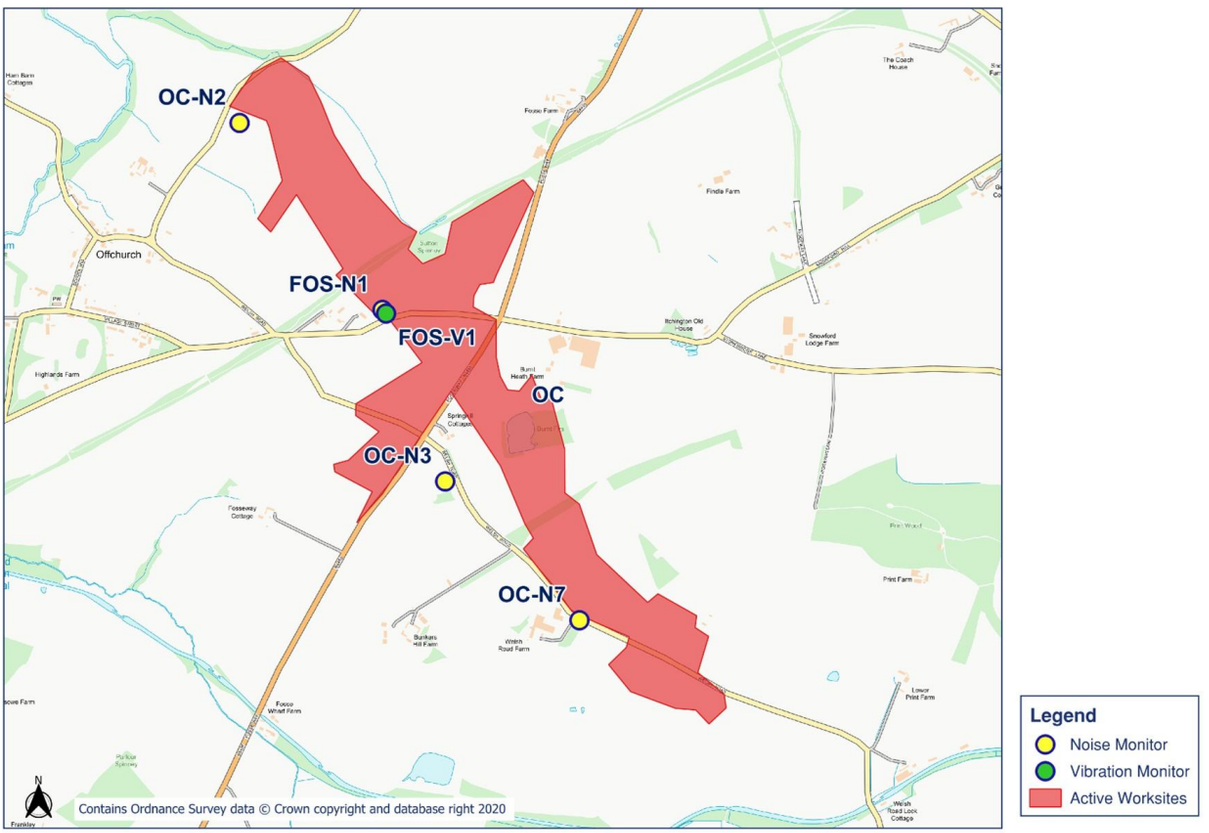
HS2 Noise and Vibration Monitoring Plan - 3



Noise and Vibration Monitoring Plan - 4



Noise and Vibration Monitoring Plan - 5

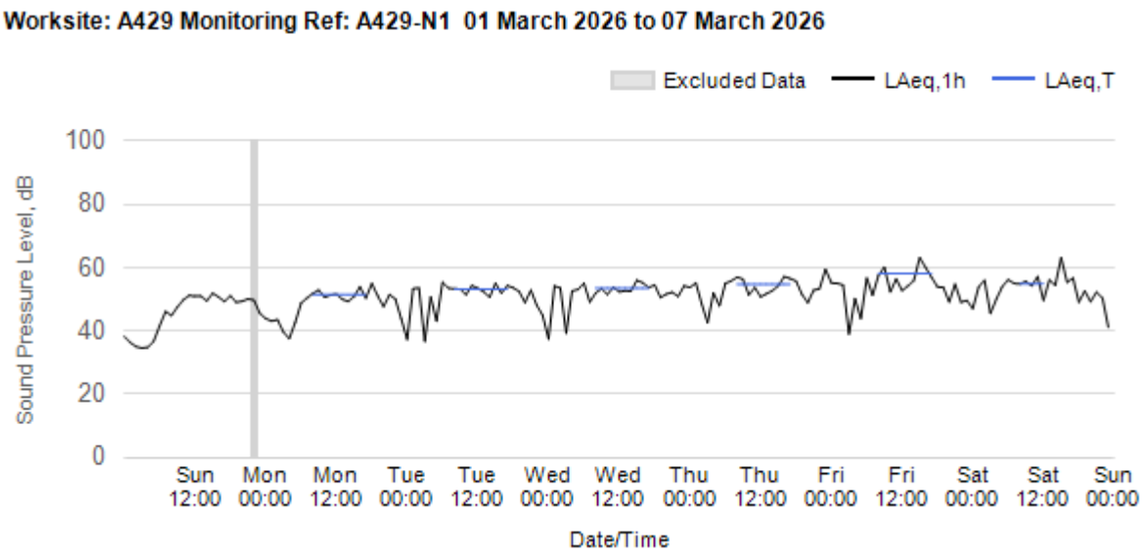


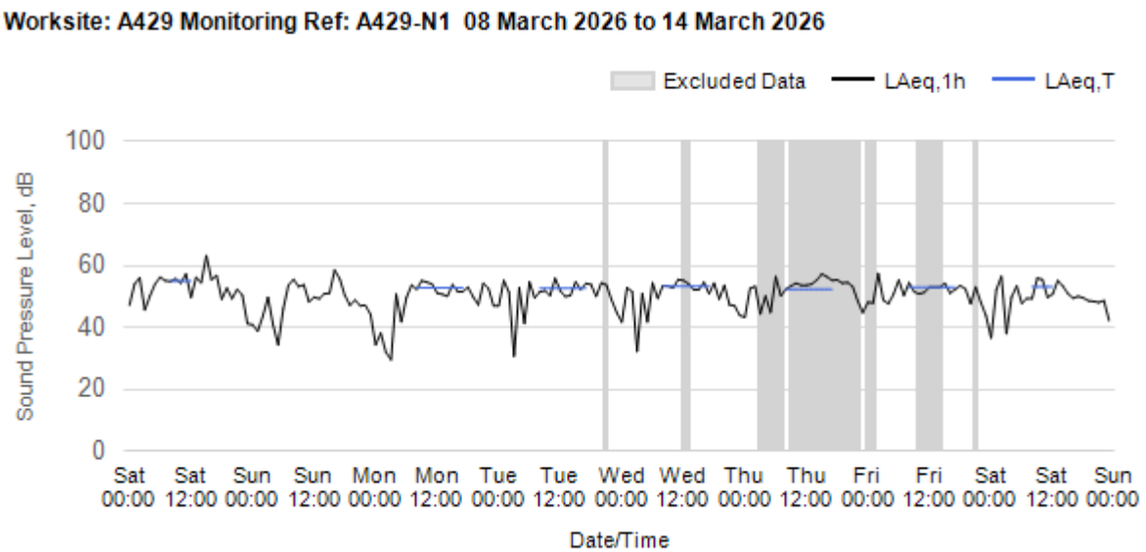
Appendix C Data

Noise

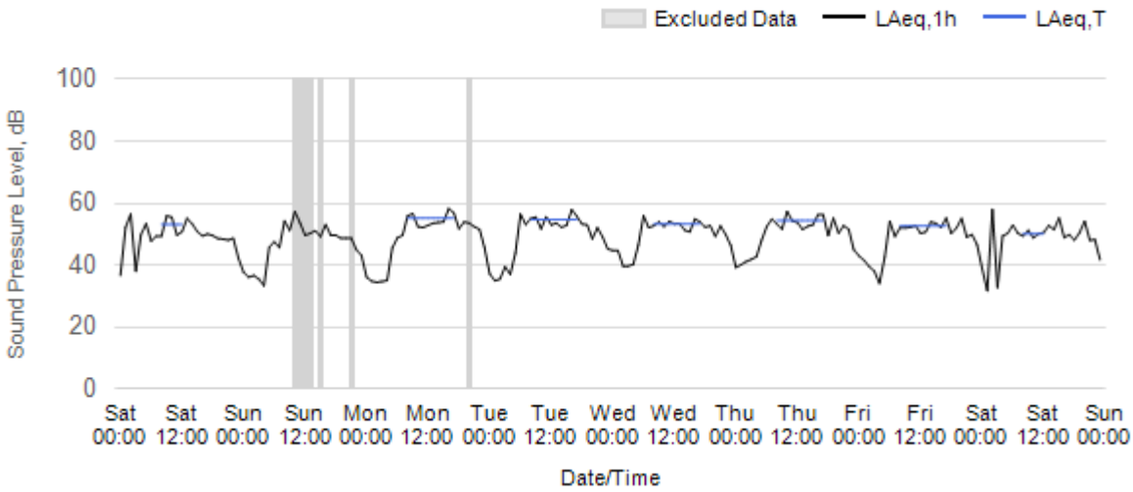
The following graphs show the hourly measured ambient noise level LAeq,1h and, where relevant, the averaged noise level LAeq,T values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part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

Worksite: A429 - Monitoring Ref: A429-N1

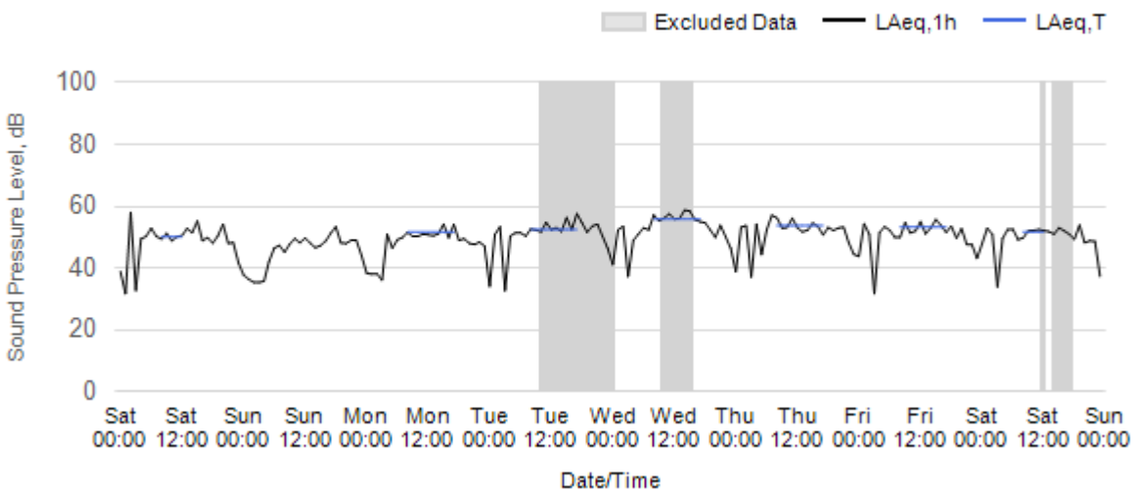




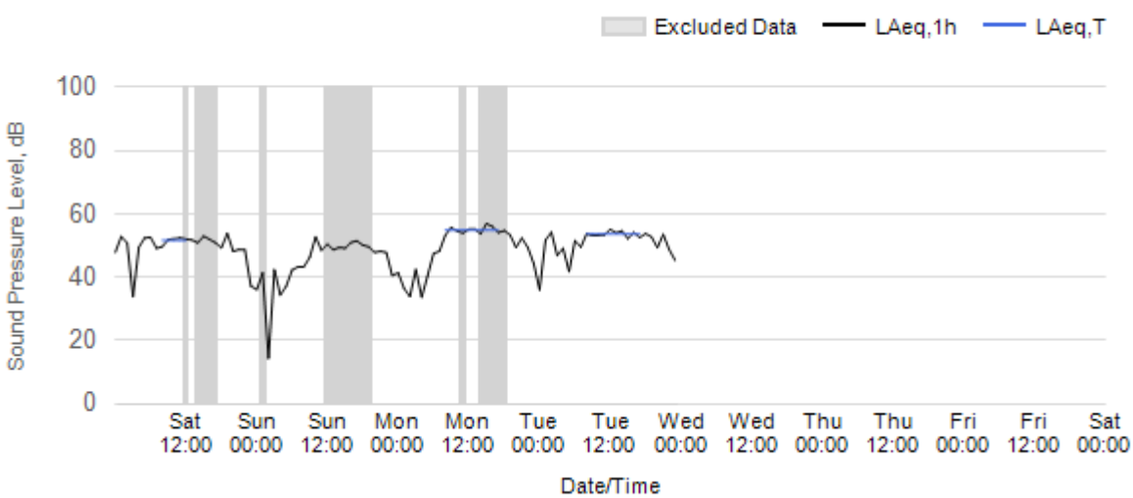
Worksite: A429 Monitoring Ref: A429-N1 15 March 2026 to 21 March 2026



Worksite: A429 Monitoring Ref: A429-N1 22 March 2026 to 28 March 2026

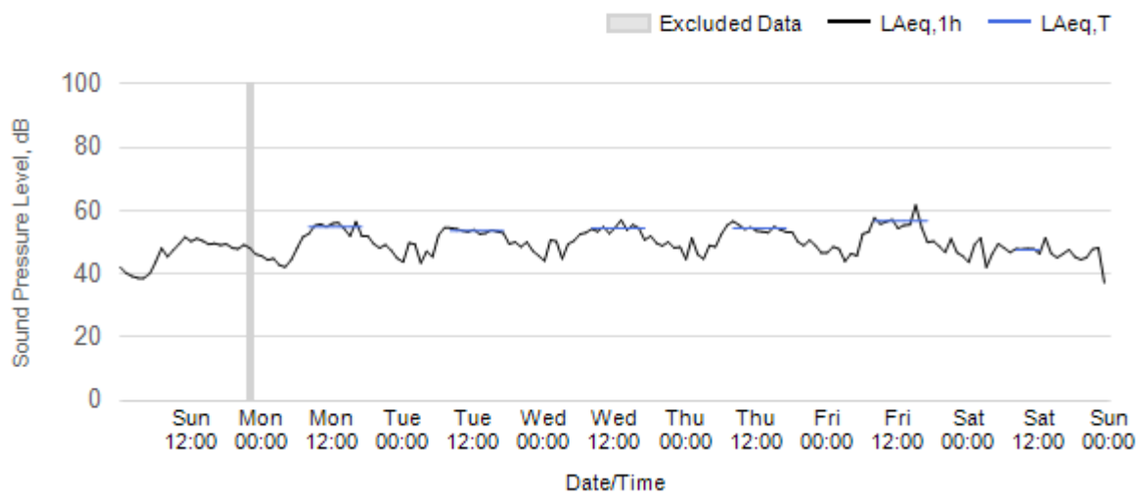


Worksite: A429 Monitoring Ref: A429-N1 29 March 2026 to 4 April 2026

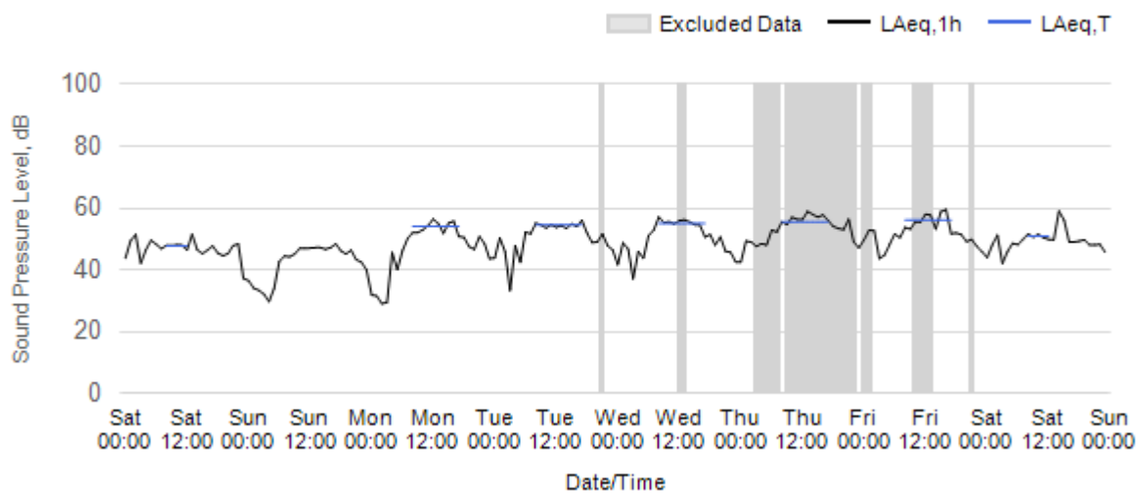


Worksite: A429 - Monitoring Ref: A429-N2

Worksite: A429 Monitoring Ref: A429-N2 01 March 2026 to 07 March 2026



Worksite: A429 Monitoring Ref: A429-N2 08 March 2026 to 14 March 2026



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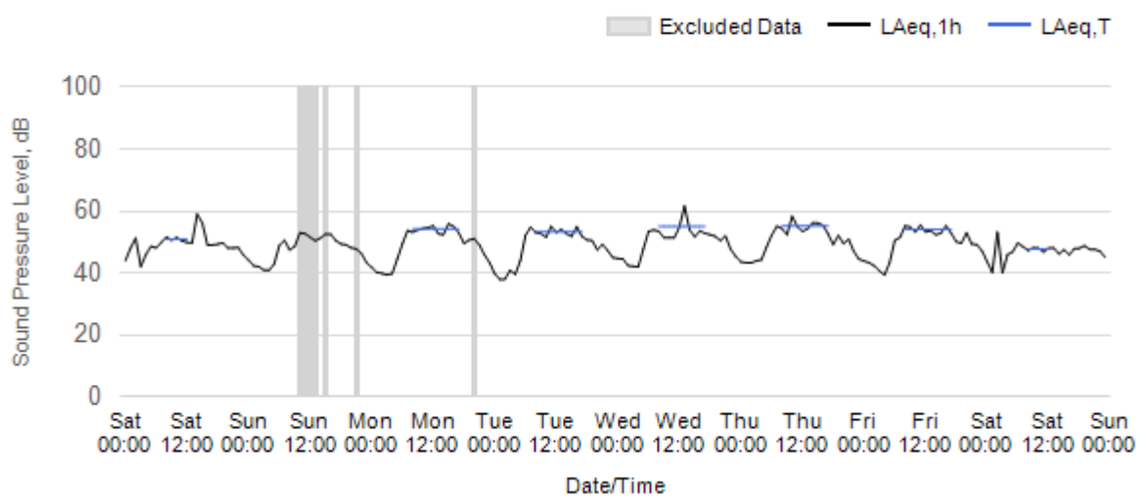
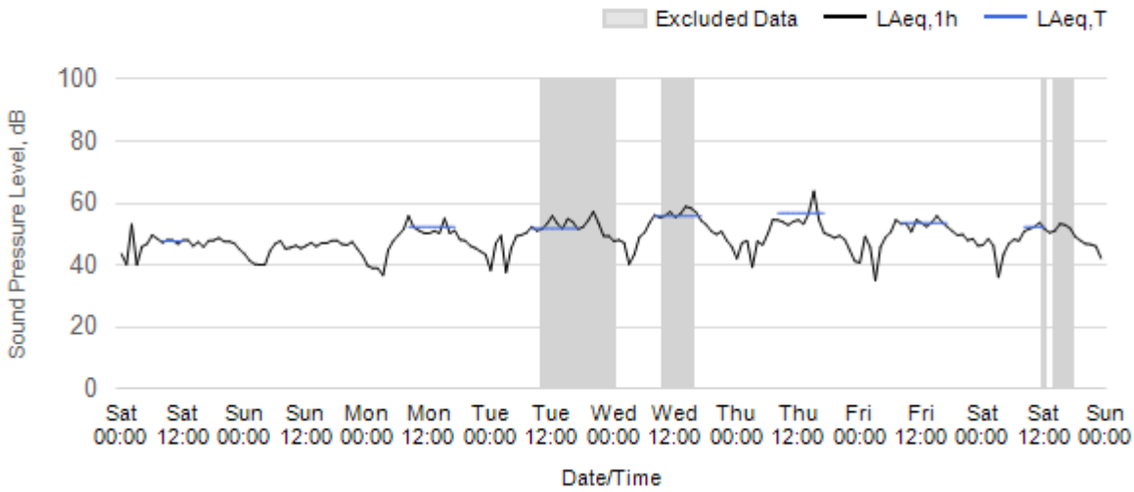


Worksite: A429 Monitoring Ref: A429-N2 22 March 2026 to 28 March 2026



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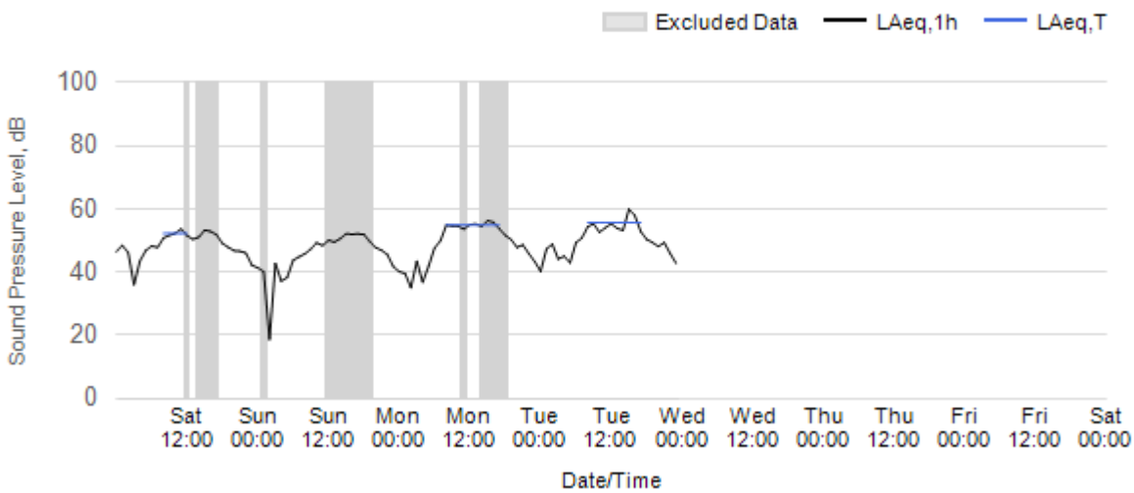

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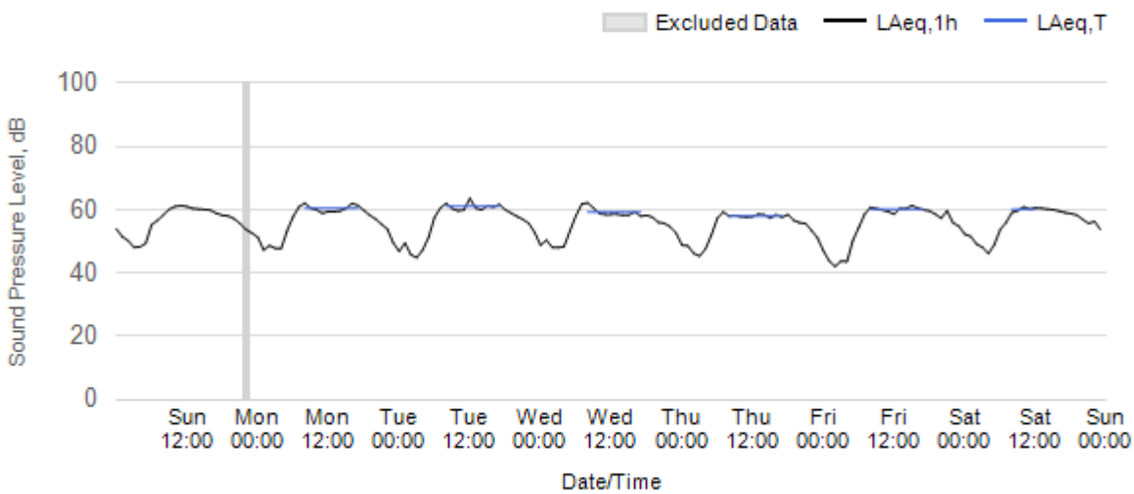
Worksite: A429 Monitoring Ref: A429-N3 01 March 2026 to 07 March 2026



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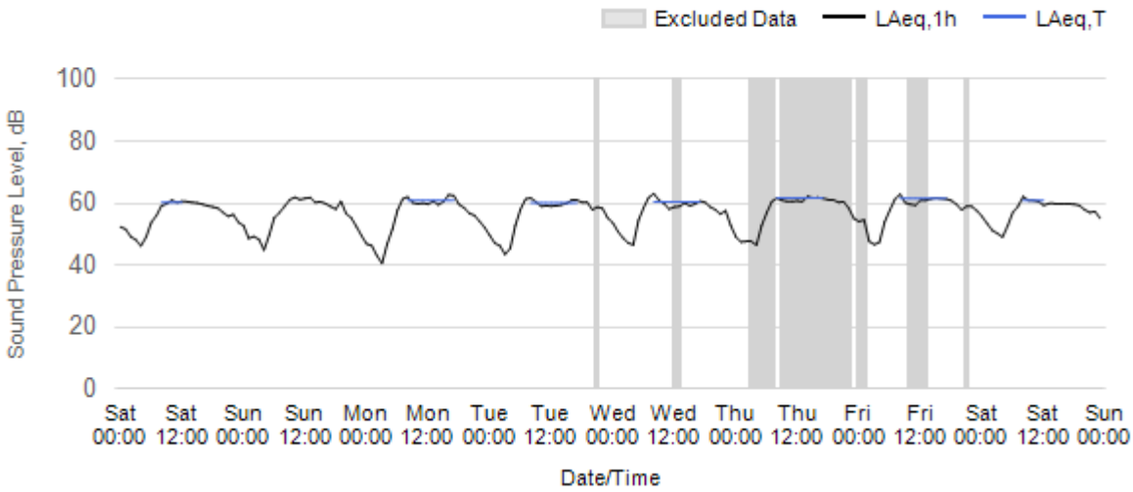

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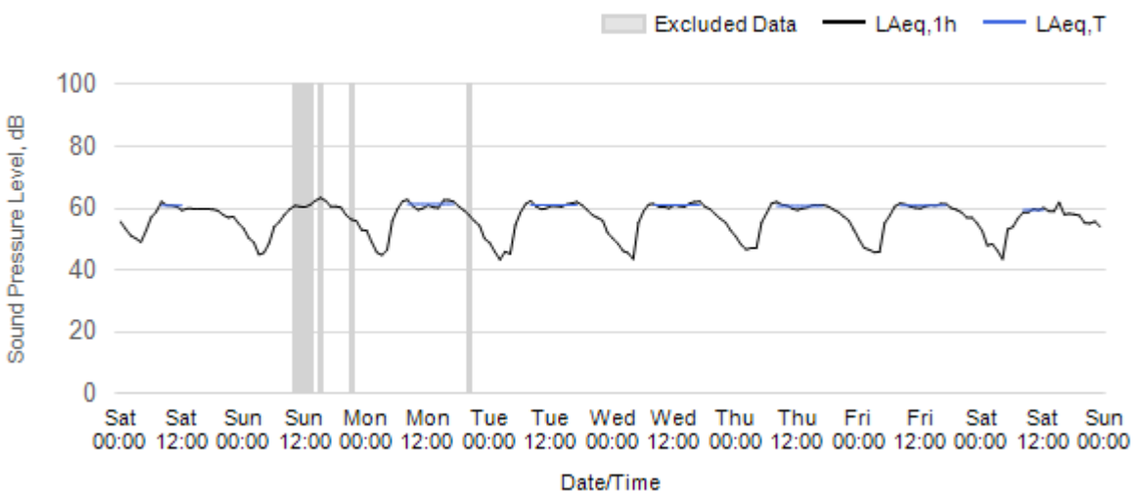
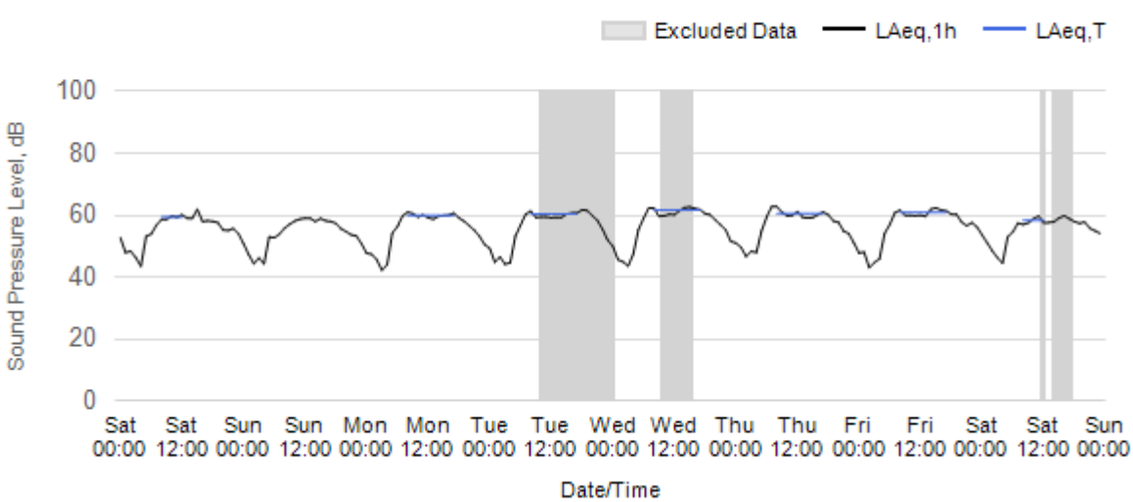
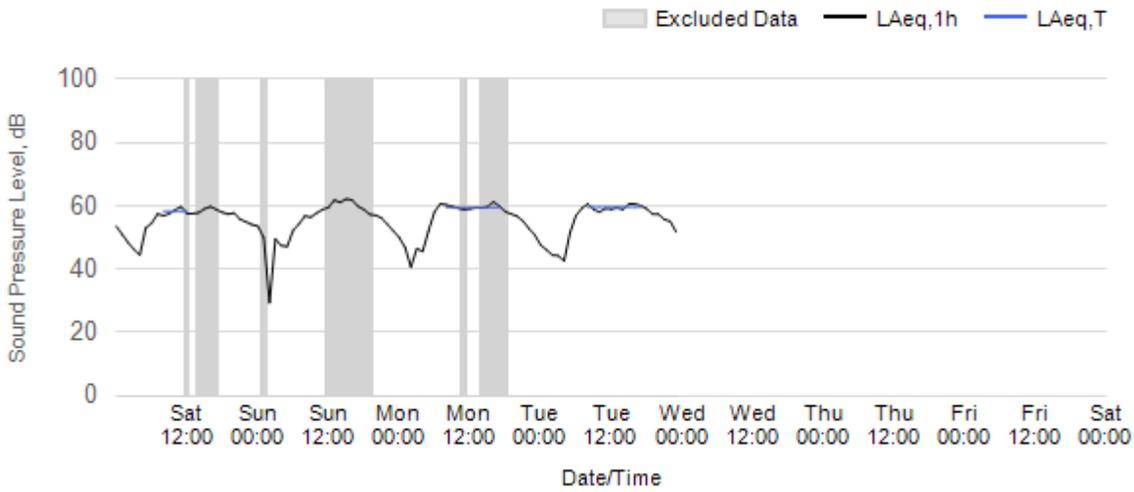


Worksite: A429 Monitoring Ref: A429-N3 22 March 2026 to 28 March 2026

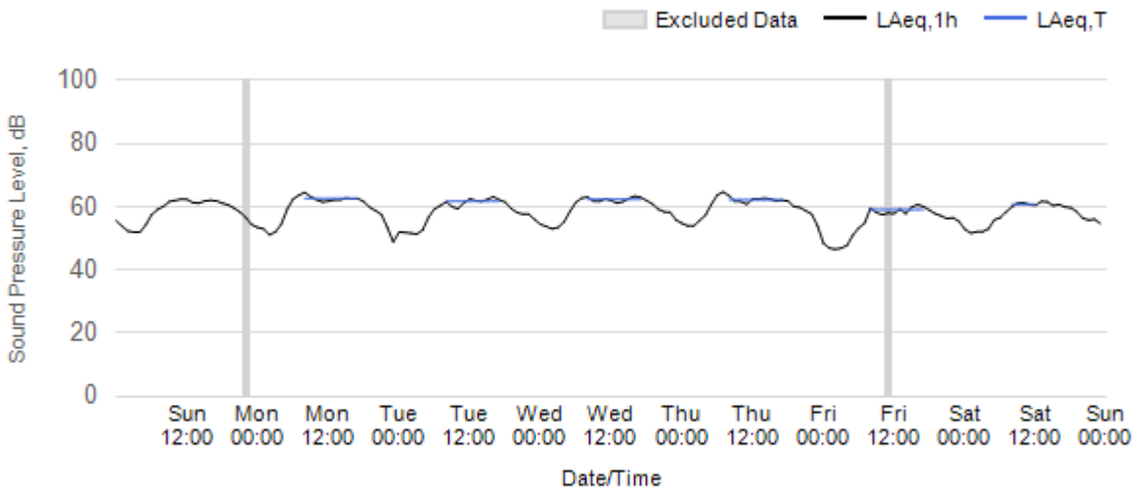


Worksite: A429 Monitoring Ref: A429-N3 29 March 2026 to 4 April 2026

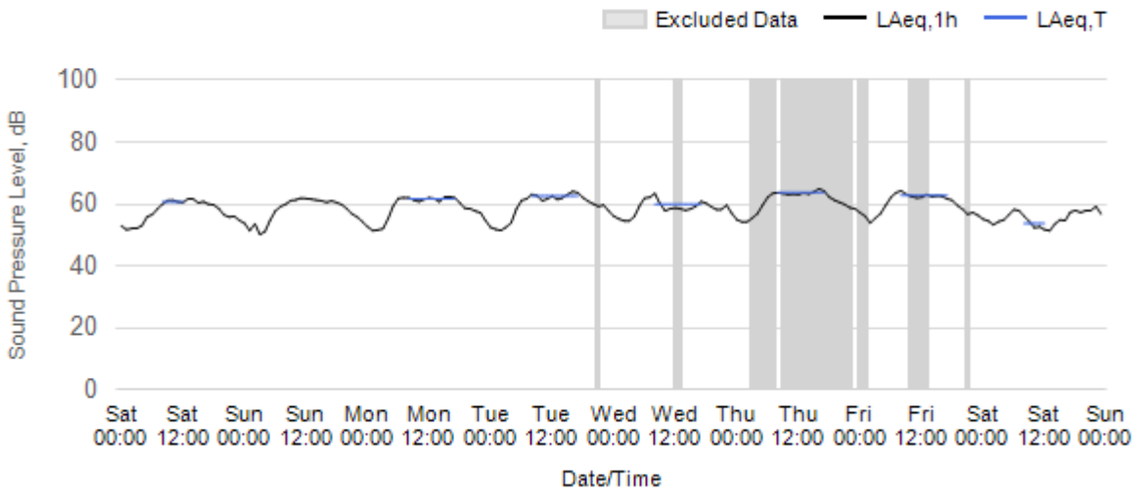


Worksite: A46C - Monitoring Ref: A46C-N1

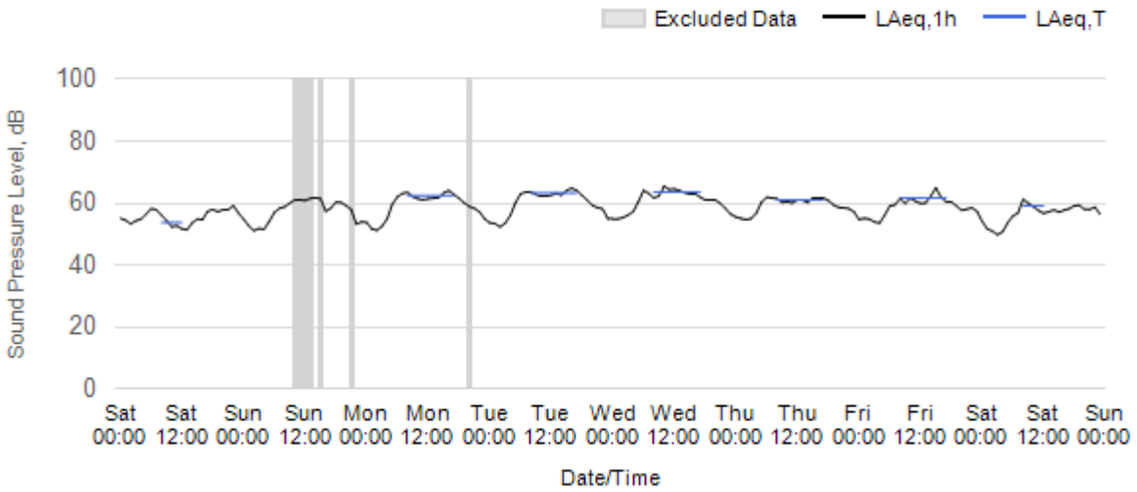
Worksite: A46C Monitoring Ref: A46C-N1 01 March 2026 to 07 March 2026



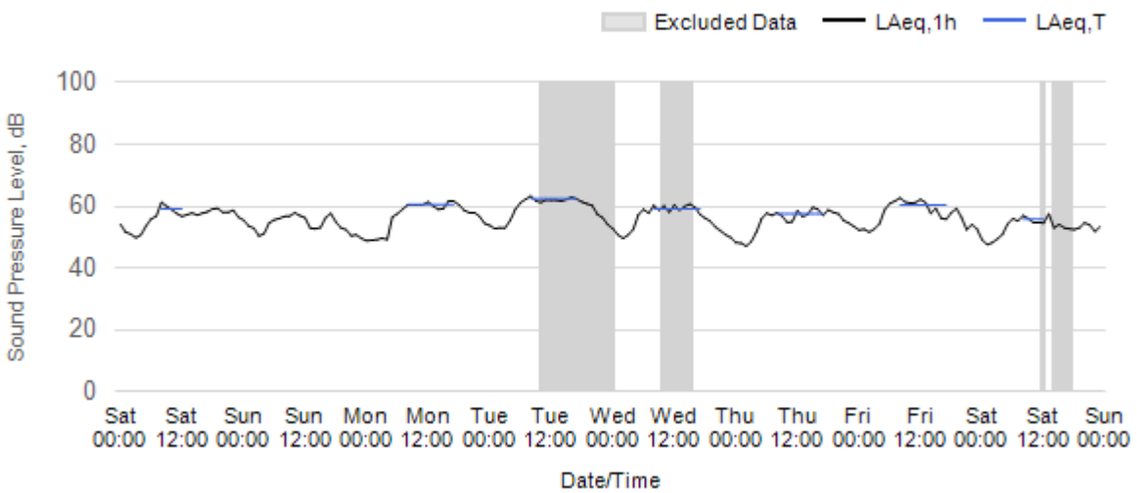
Worksite: A46C Monitoring Ref: A46C-N1 08 March 2026 to 14 March 2026



Worksite: A46C Monitoring Ref: A46C-N1 15 March 2026 to 21 March 2026



Worksite: A46C Monitoring Ref: A46C-N1 22 March 2026 to 28 March 2026



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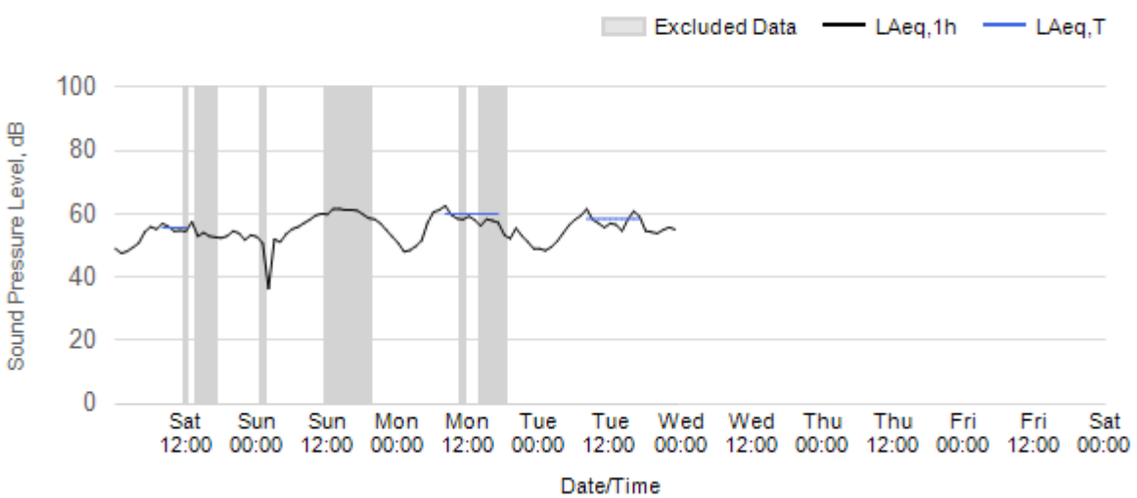
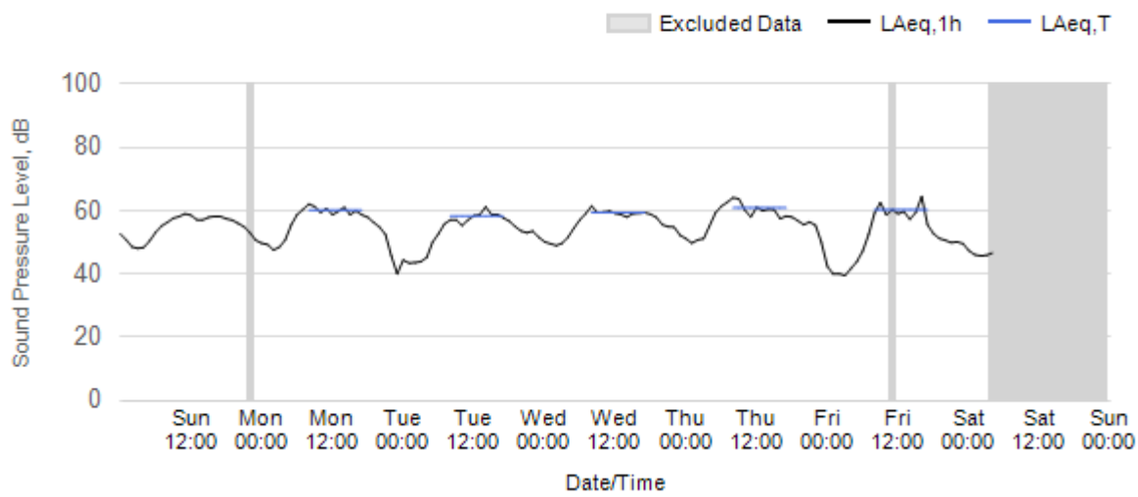


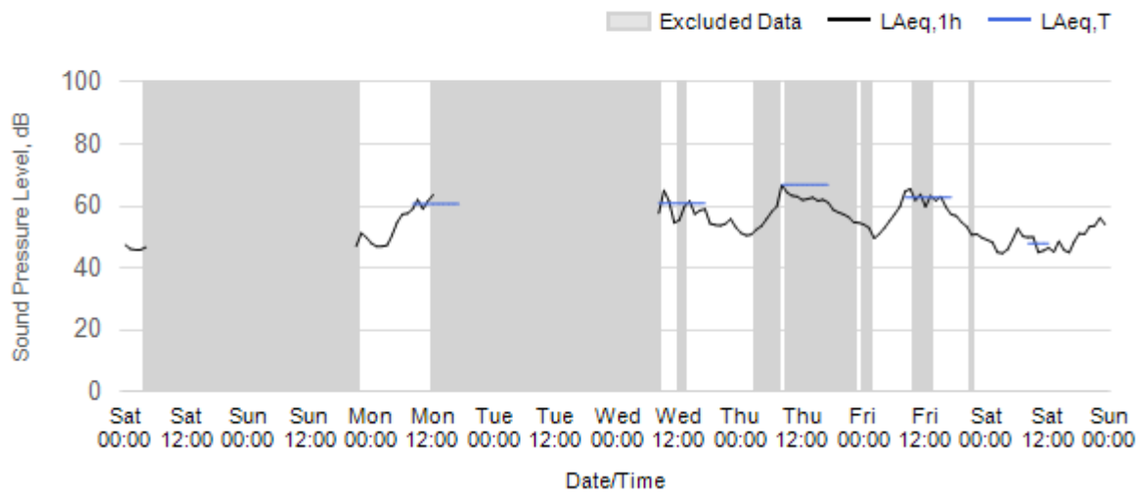
Worksite: A46C - Monitoring Ref: A46C-N3

Worksite: A46C Monitoring Ref: A46C-N3 01 March 2026 to 07 March 2026



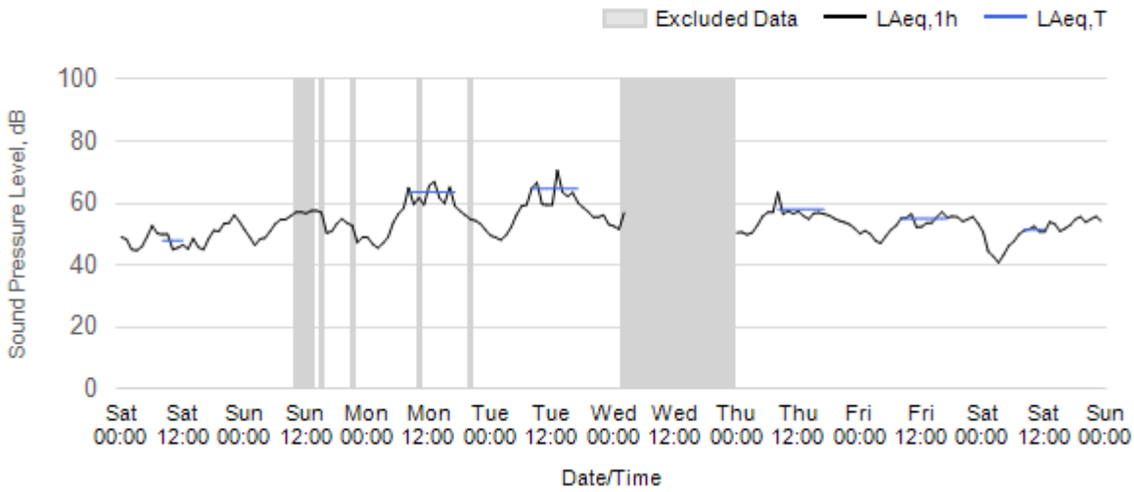
Note: Missing data was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

Worksite: A46C Monitoring Ref: A46C-N3 08 March 2026 to 14 March 2026



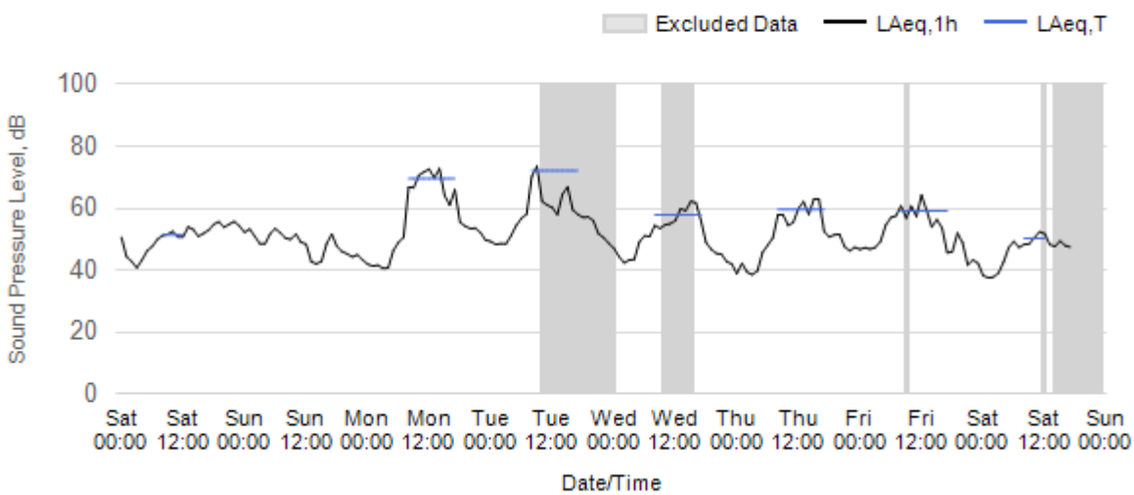
Note: Missing data was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

Worksite: A46C Monitoring Ref: A46C-N3 15 March 2026 to 21 March 2026

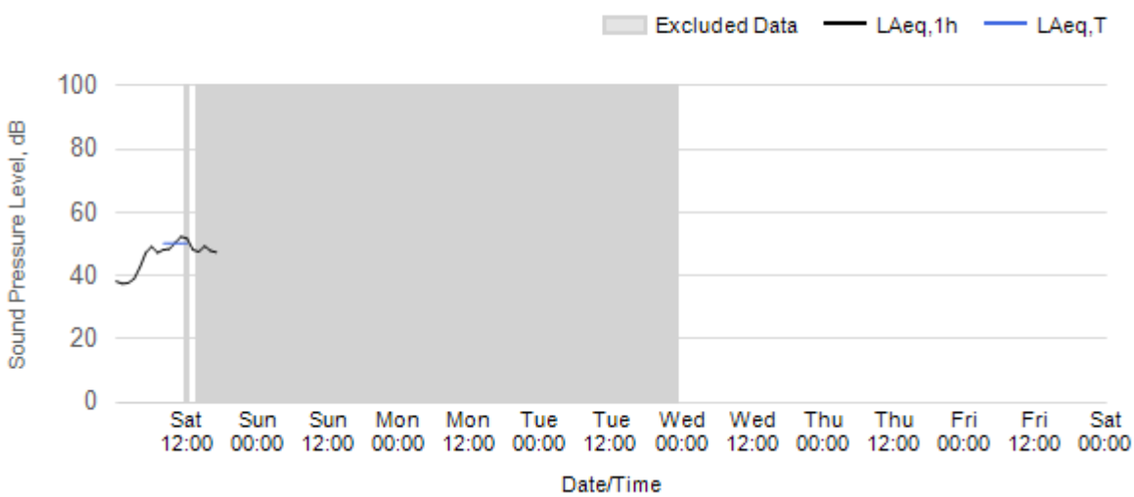


Note: Missing data was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

Worksite: A46C Monitoring Ref: A46C-N3 22 March 2026 to 28 March 2026



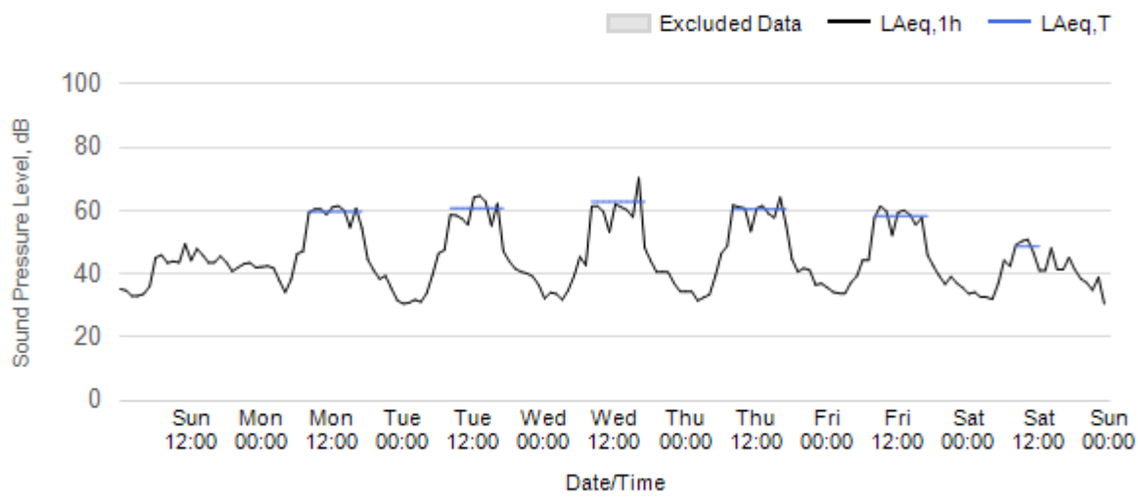
Worksite: A46C Monitoring Ref: A46C-N3 29 March 2026 to 4 April 2026



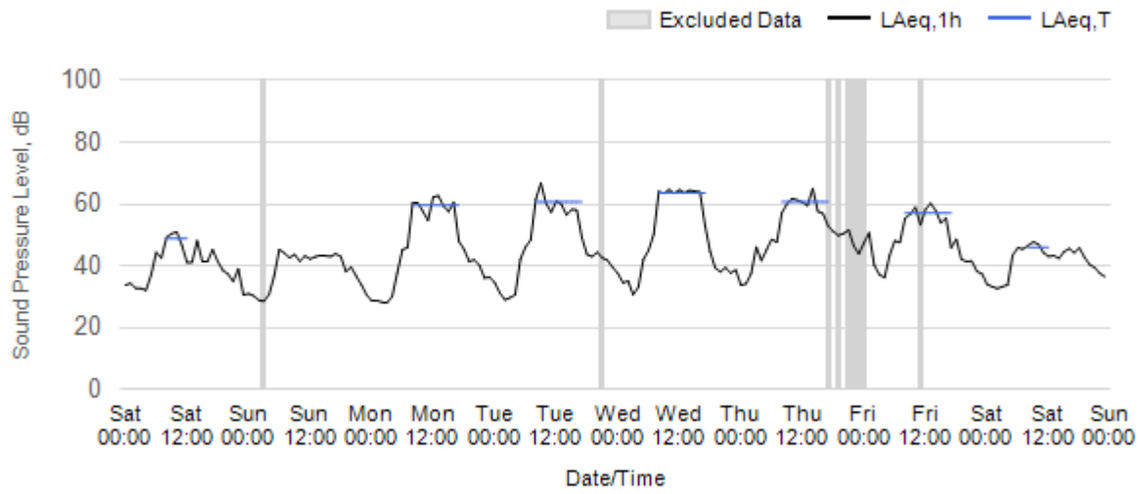
Note: Missing data was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

Worksite: BGT - Monitoring Ref: BGT-N8

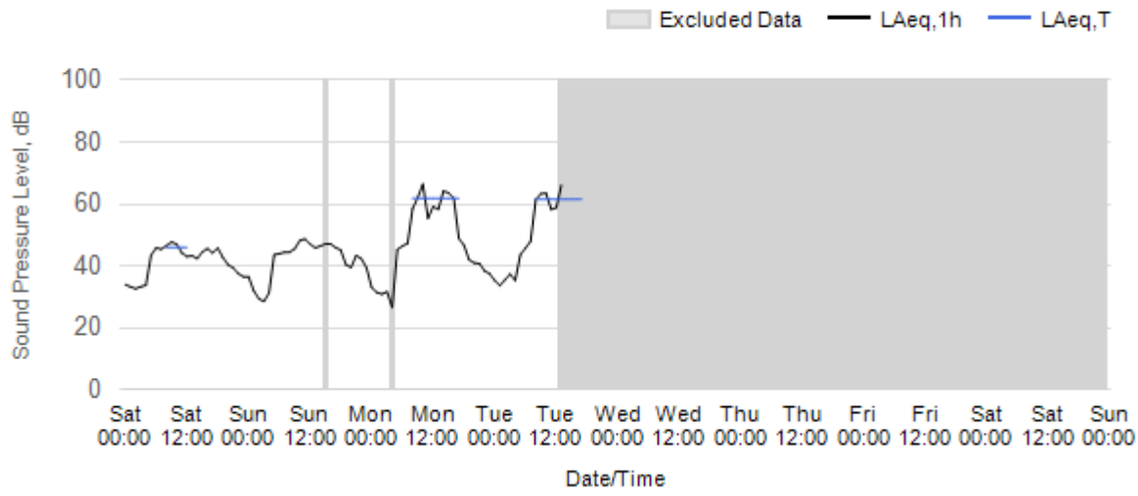
Worksite: BGT Monitoring Ref: BGT-N8 01 March 2026 to 07 March 2026



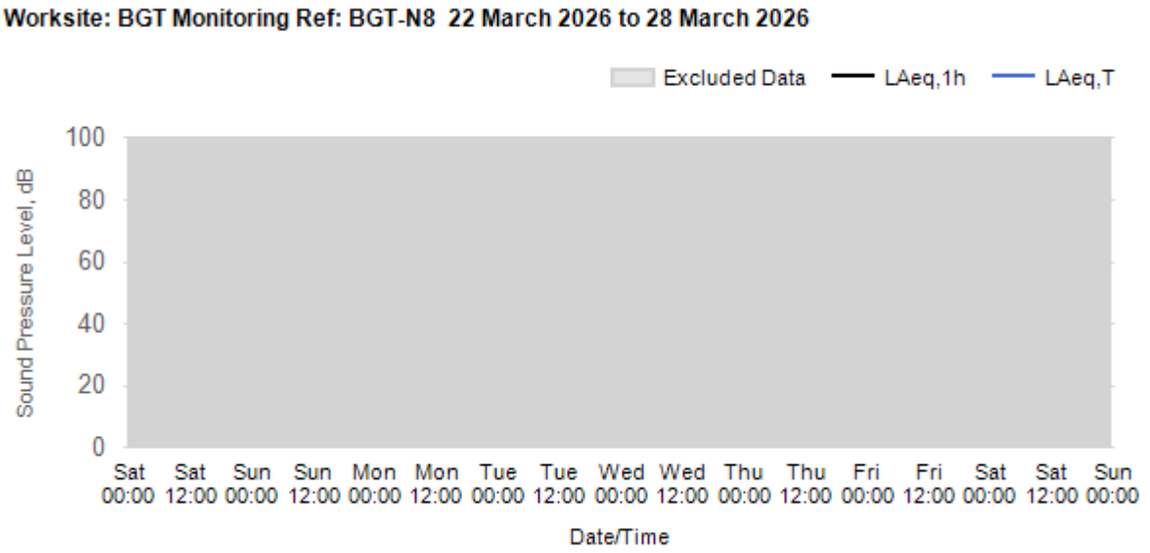
Worksite: BGT Monitoring Ref: BGT-N8 08 March 2026 to 14 March 2026



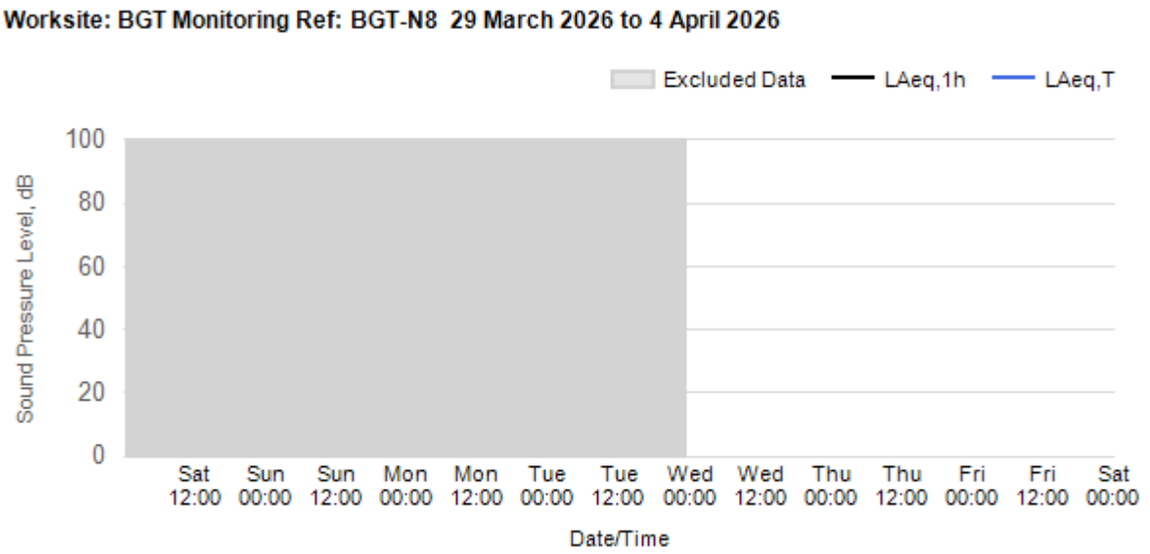
Worksite: BGT Monitoring Ref: BGT-N8 15 March 2026 to 21 March 2026



Note: Missing data due to a fault with monitoring equipment

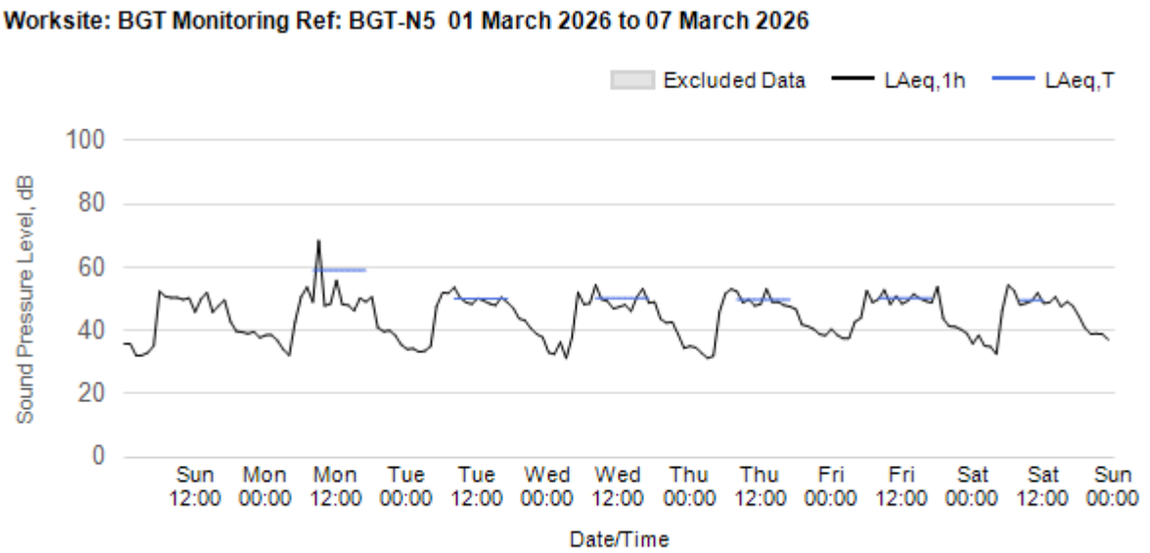


Note: Missing data due to a fault with monitoring equipment

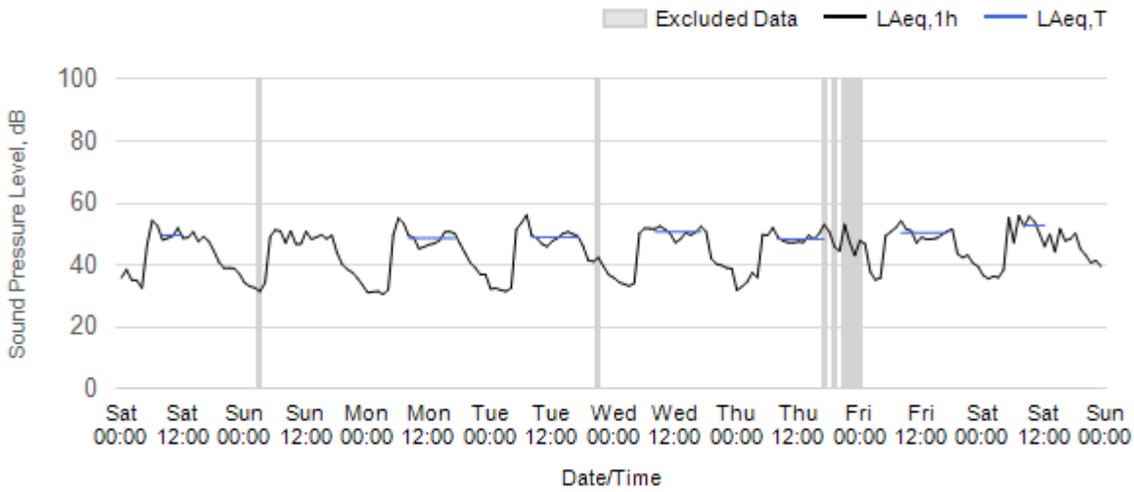


Note: Missing data due to a fault with monitoring equipment

Worksite: BGT - Monitoring Ref: BGT-N5



Worksite: BGT Monitoring Ref: BGT-N5 08 March 2026 to 14 March 2026



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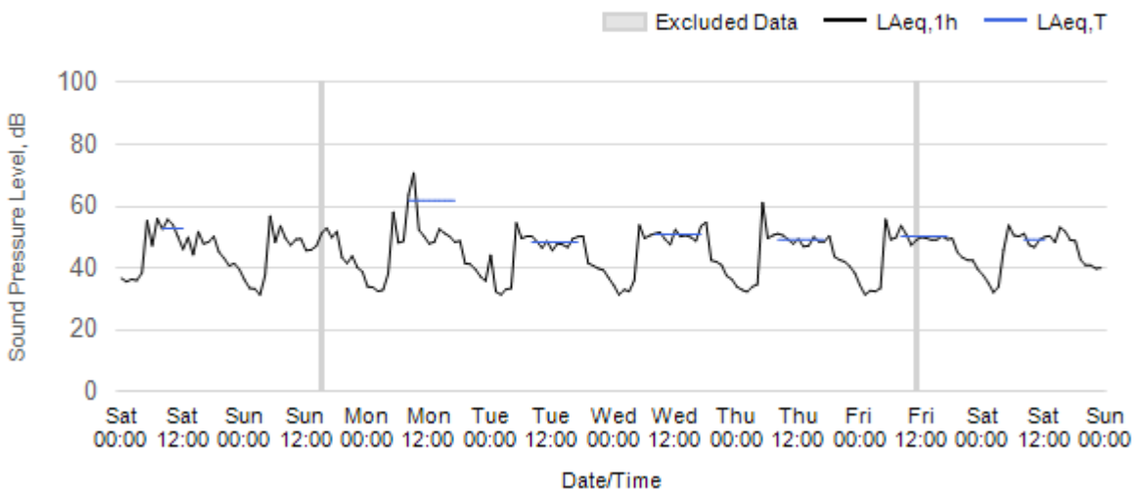
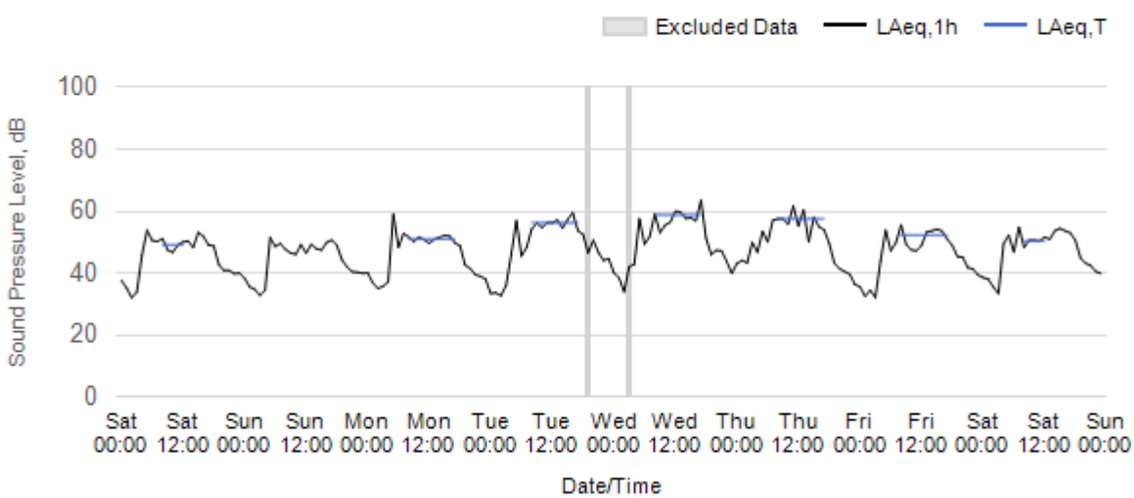
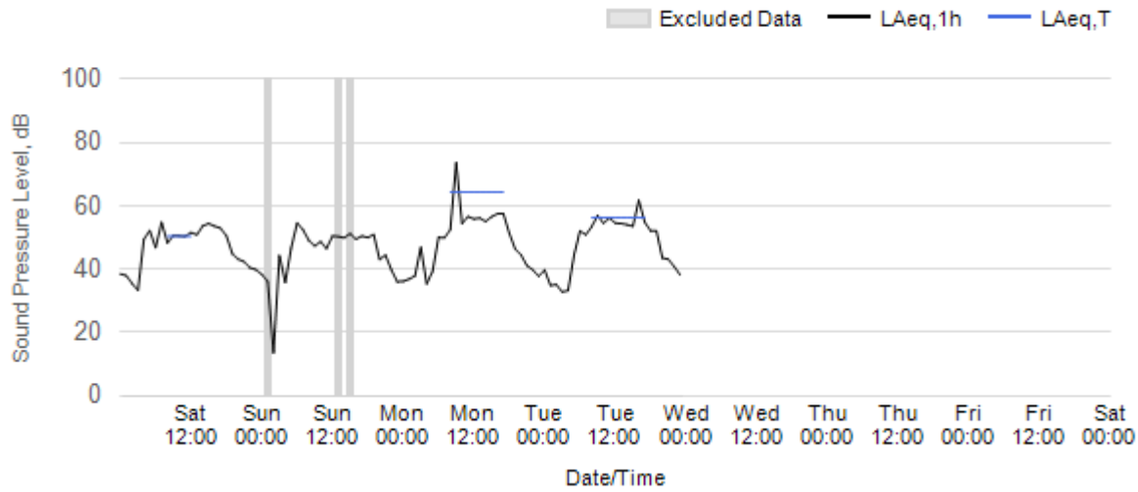


Worksite: BGT Monitoring Ref: BGT-N5 22 March 2026 to 28 March 2026

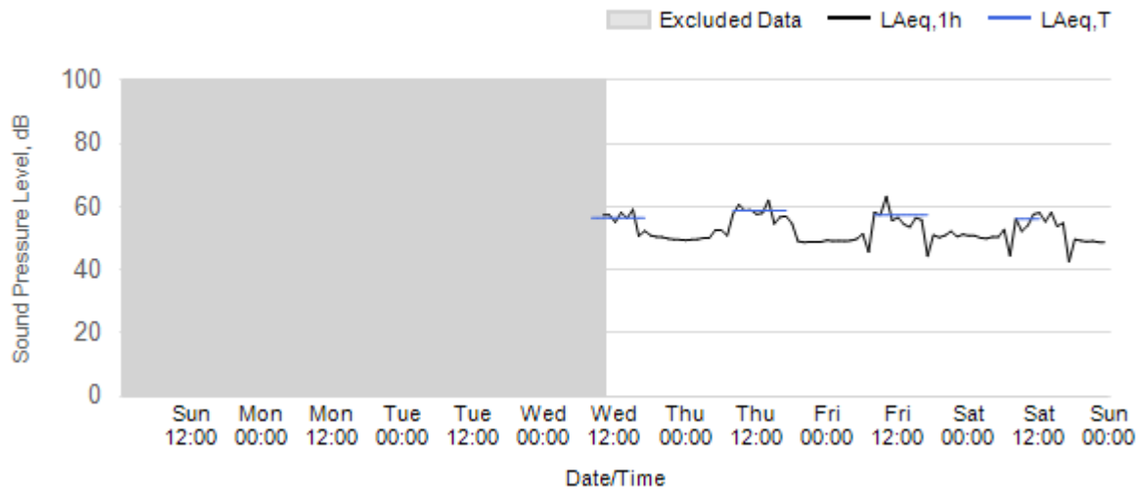


Worksite: BGT Monitoring Ref: BGT-N5 29 March 2026 to 4 April 2026



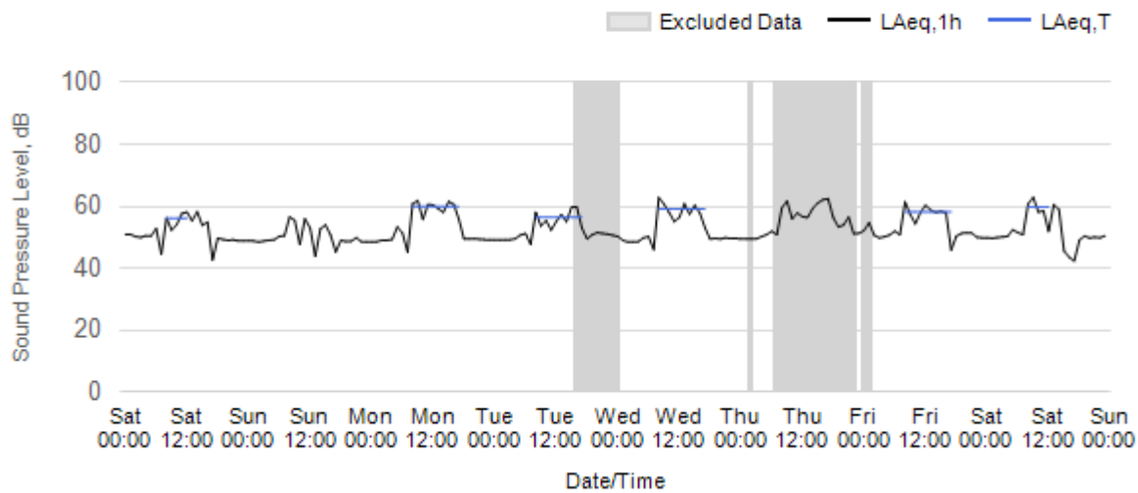
Worksite: OC - Monitoring Ref: OC-N2

Worksite: OC Monitoring Ref: OC-N2 01 March 2026 to 07 March 2026

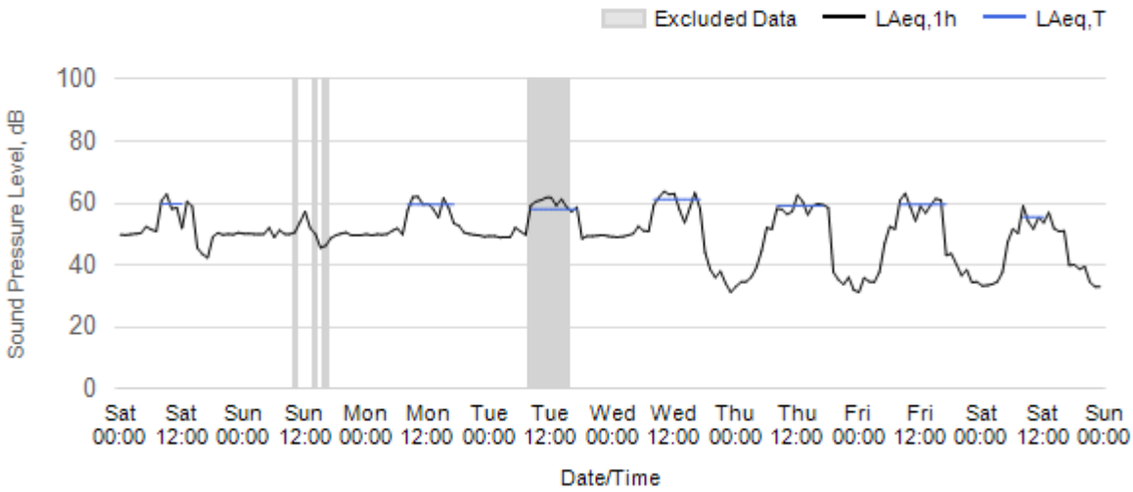


Note: Monitor relocated to a more representative location of nearby residential receptors

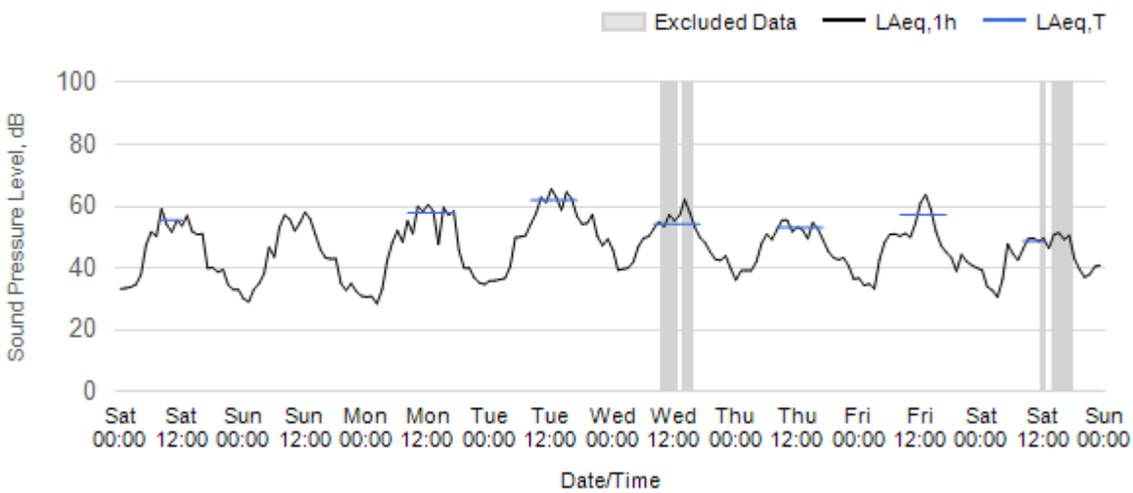
Worksite: OC Monitoring Ref: OC-N2 08 March 2026 to 14 March 2026



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



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



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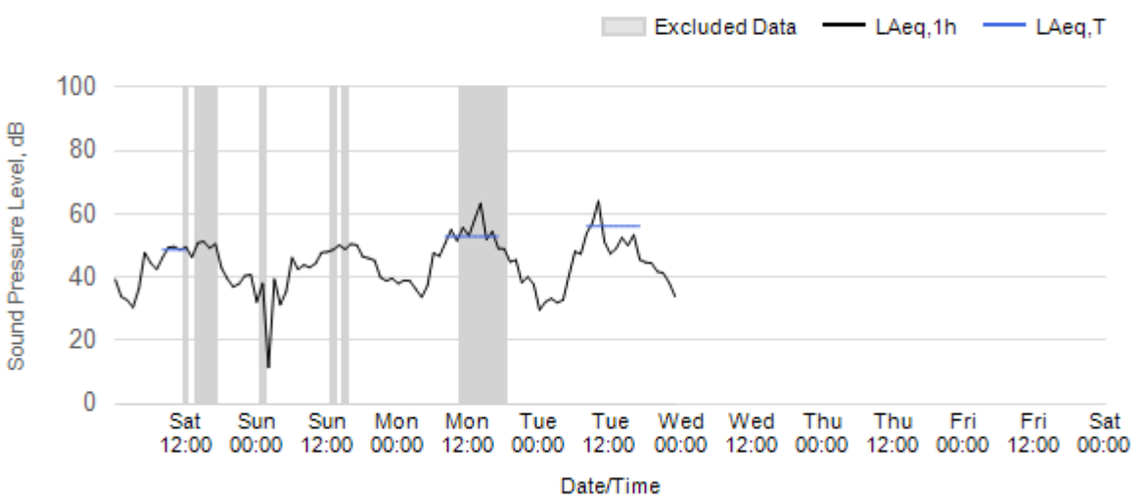
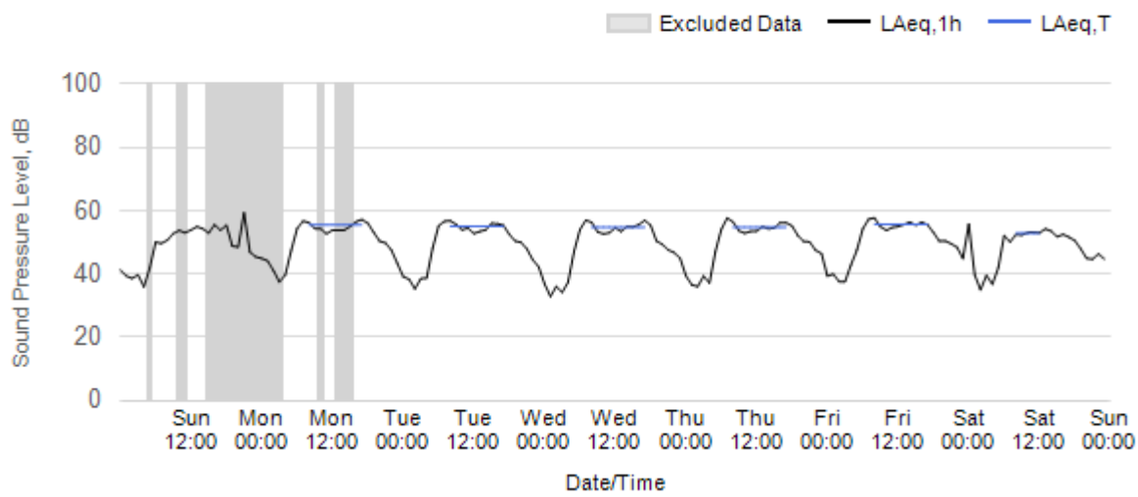


Worksite: OC - Monitoring Ref: OC-N3

Worksite: OC Monitoring Ref: OC-N3 01 March 2026 to 07 March 2026



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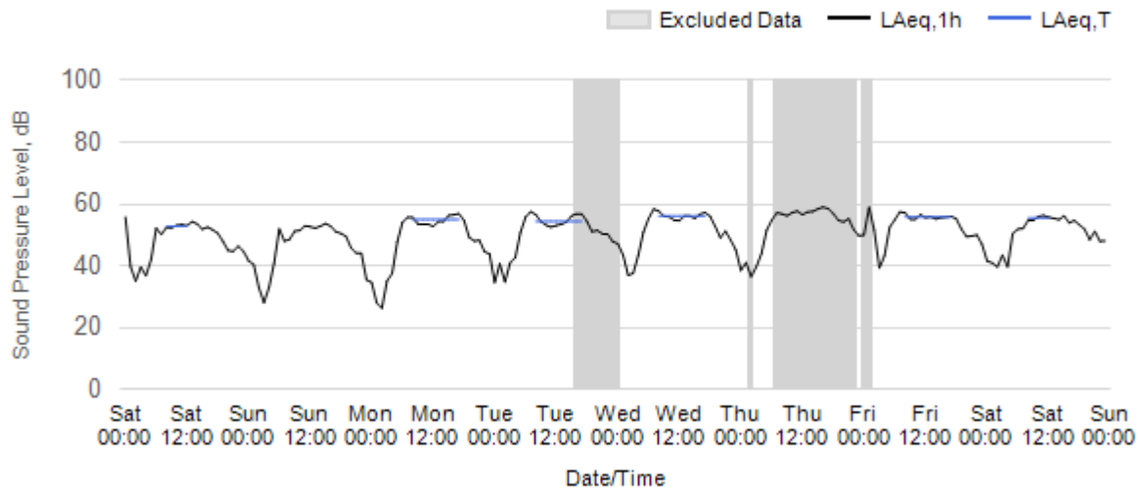

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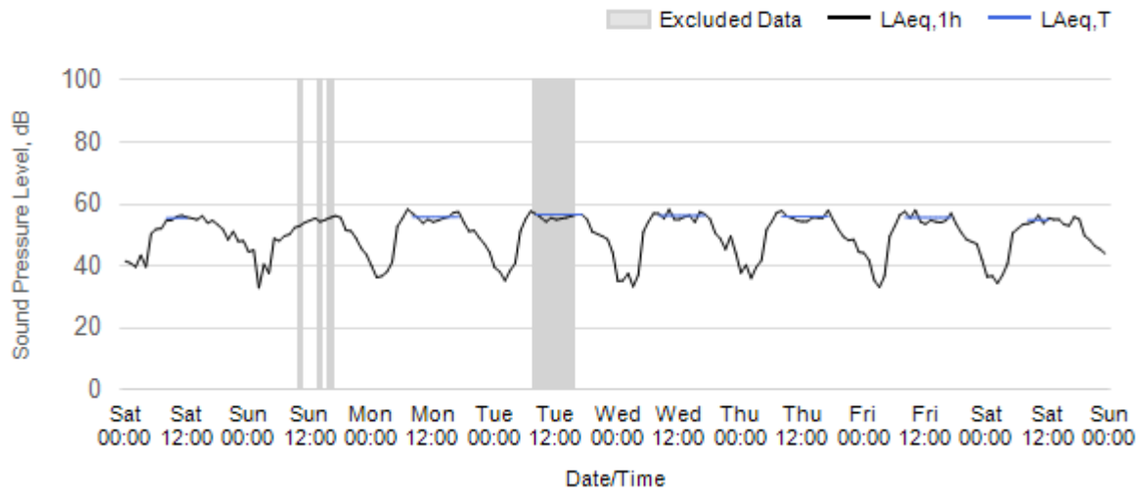
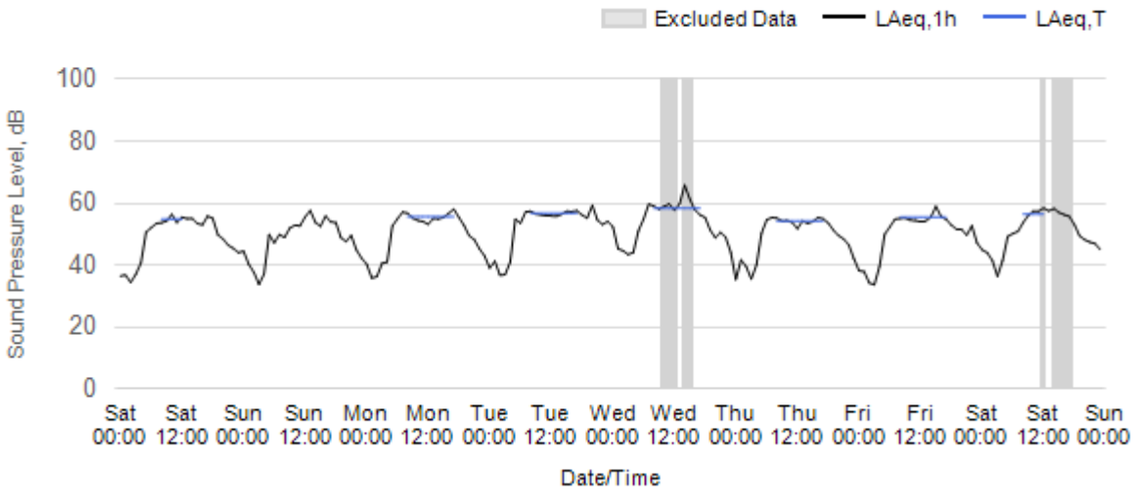


Worksite: OC Monitoring Ref: OC-N3 22 March 2026 to 28 March 2026



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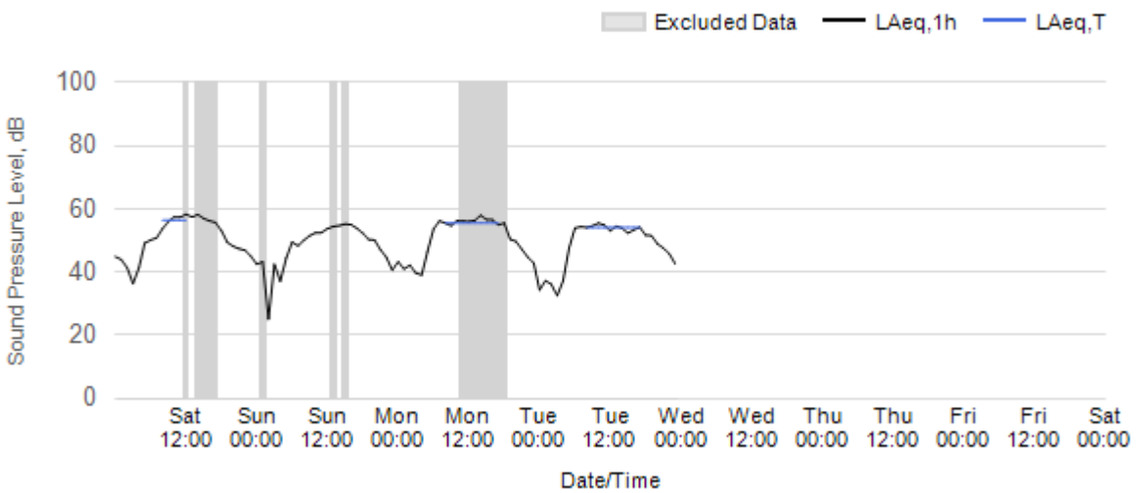

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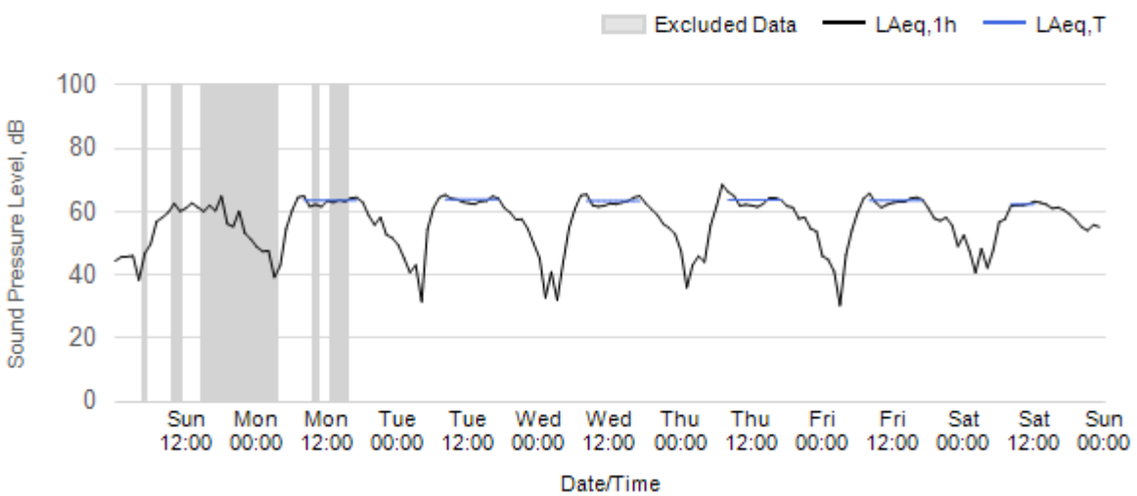
Worksite: OC Monitoring Ref: OC-N7 01 March 2026 to 07 March 2026



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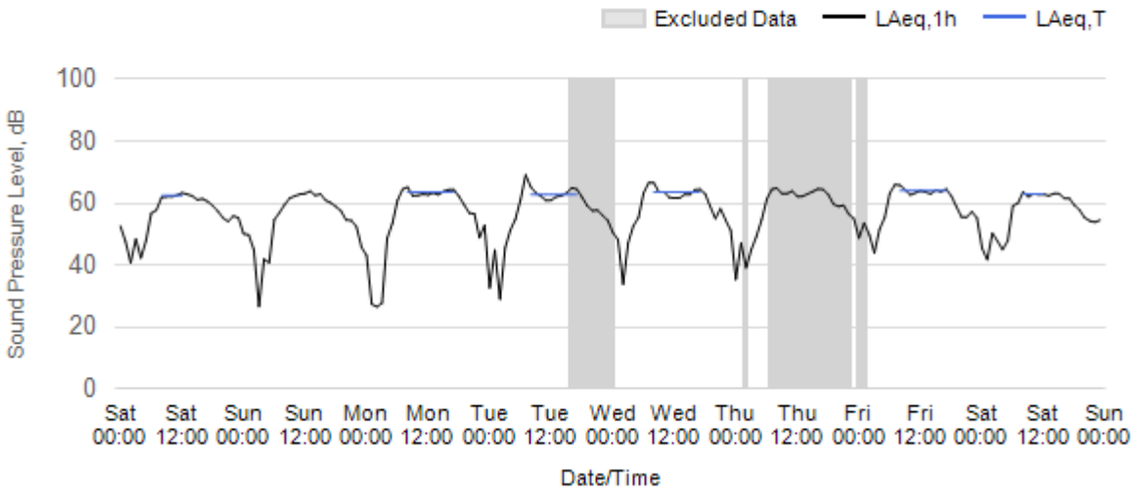

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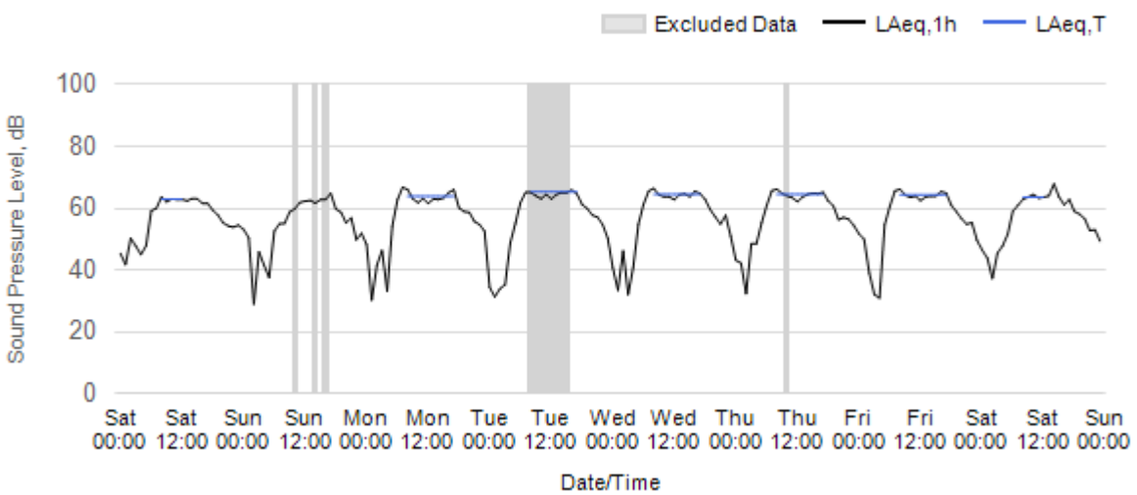

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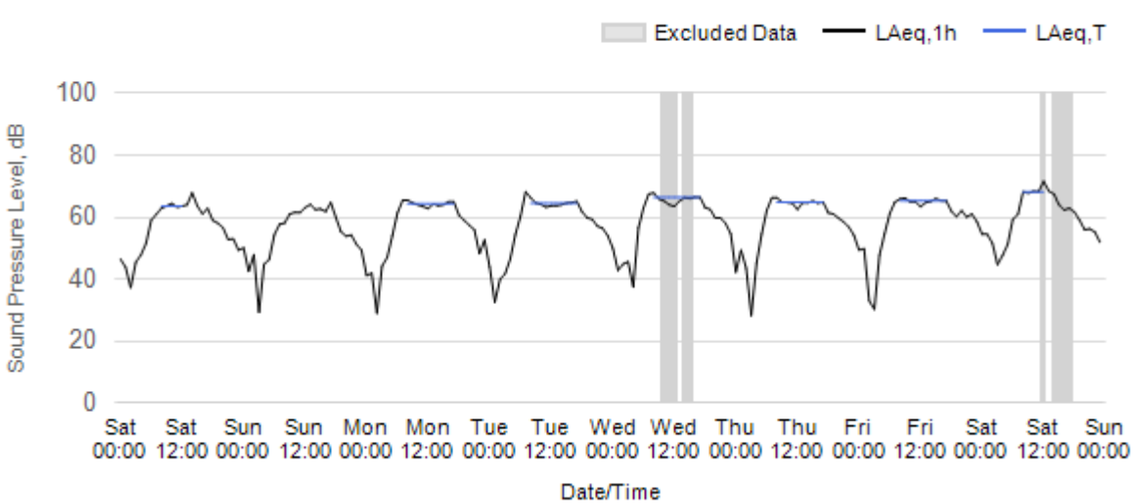

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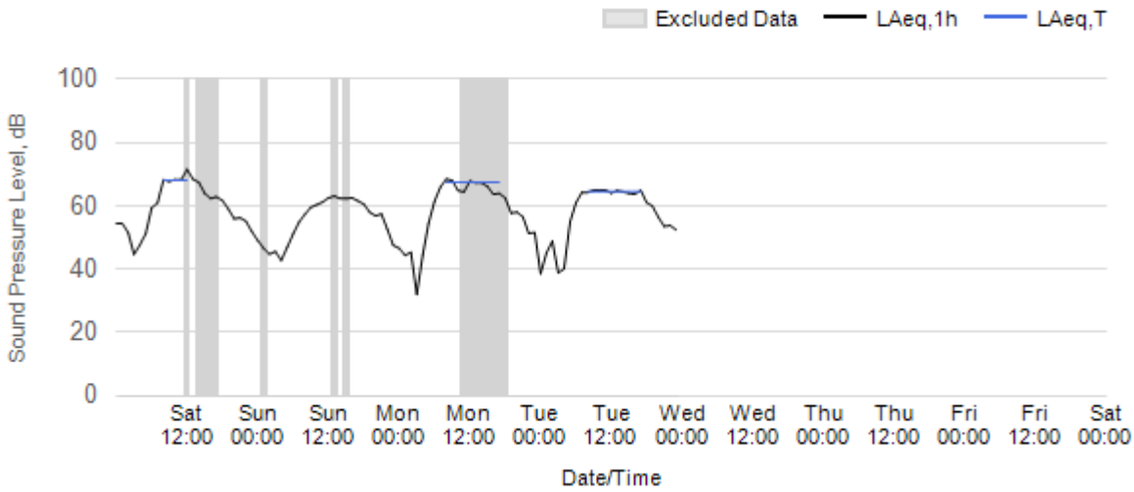

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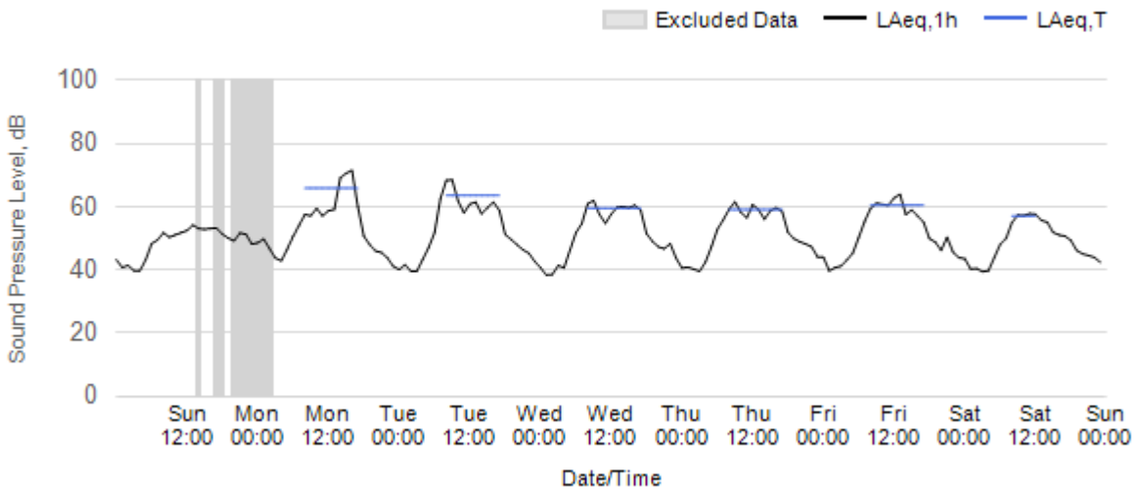

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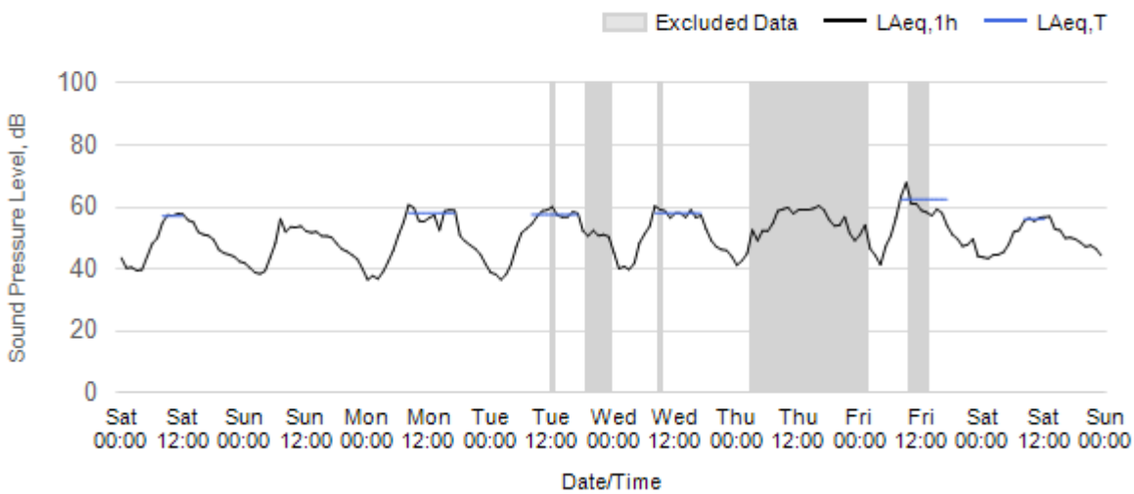

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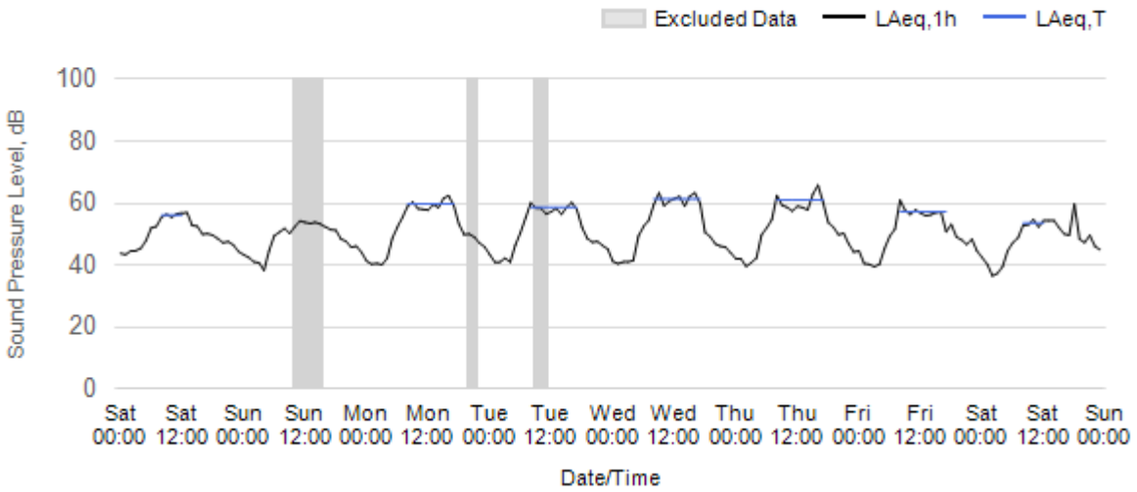

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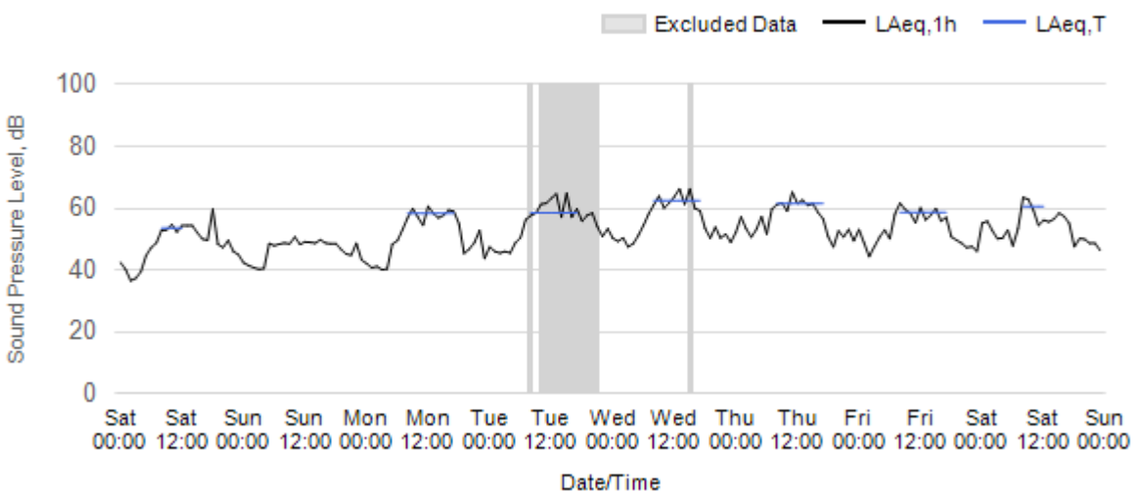

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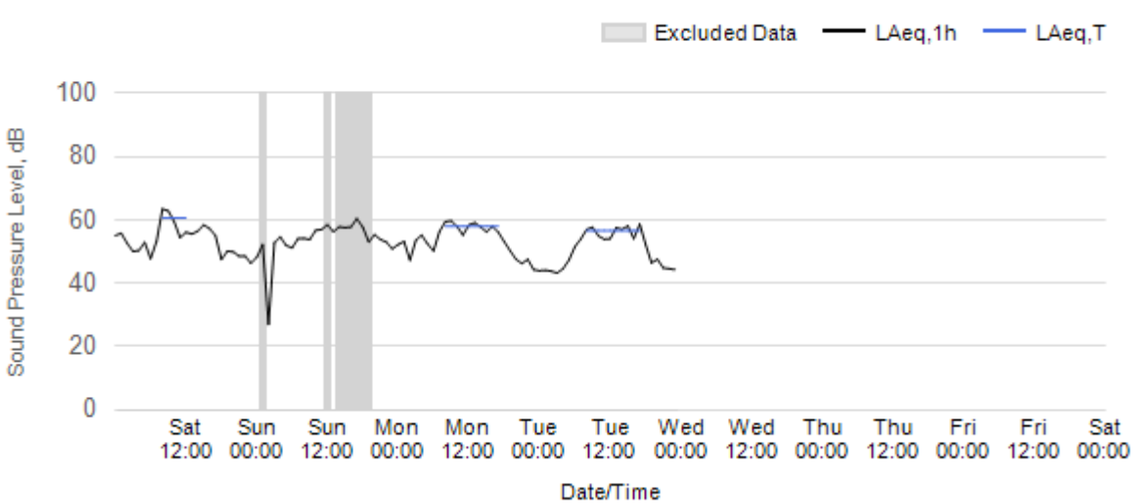

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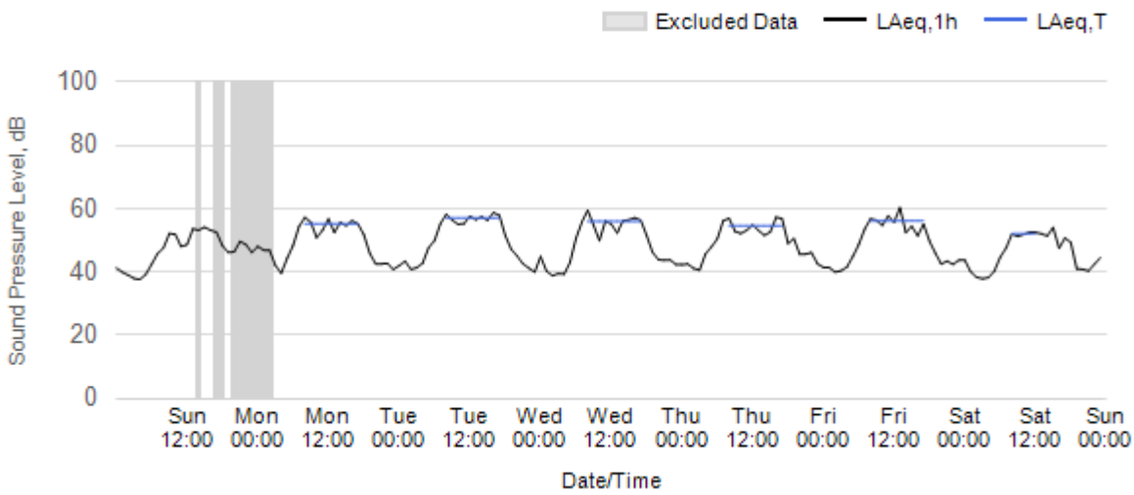

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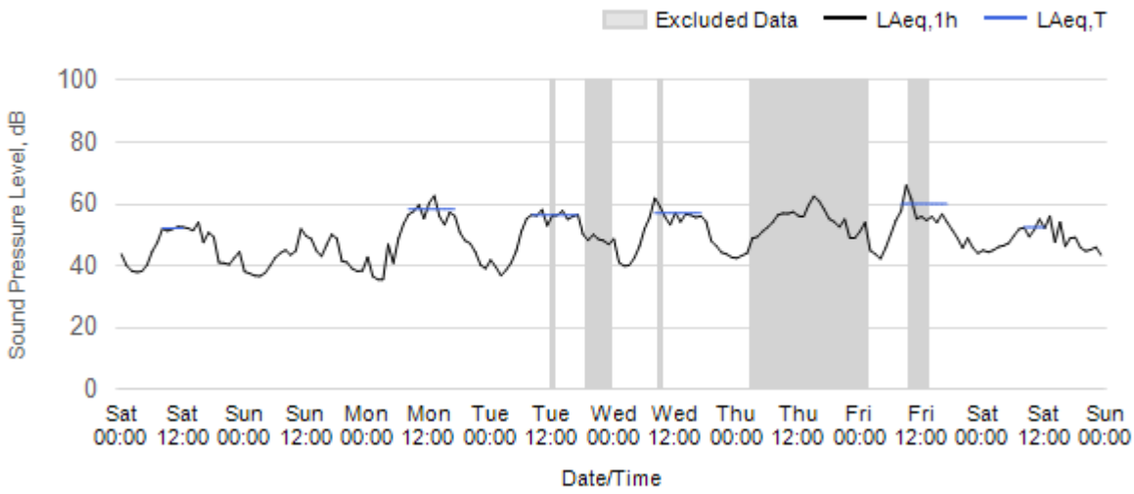

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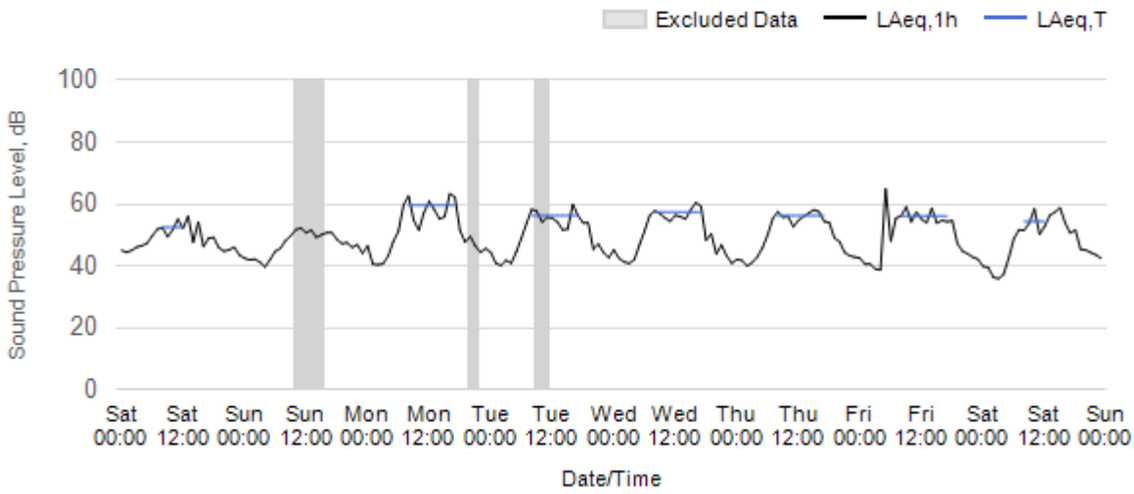

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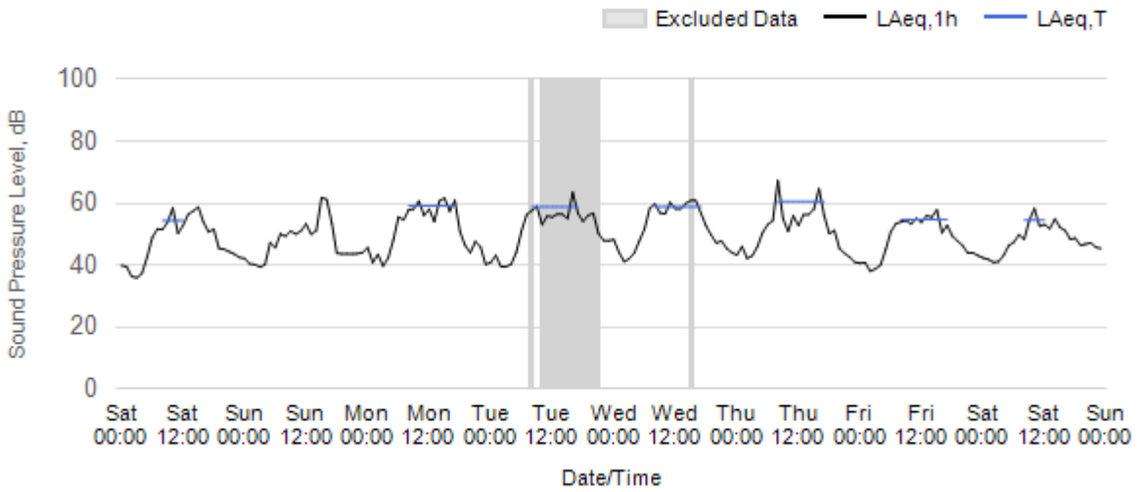

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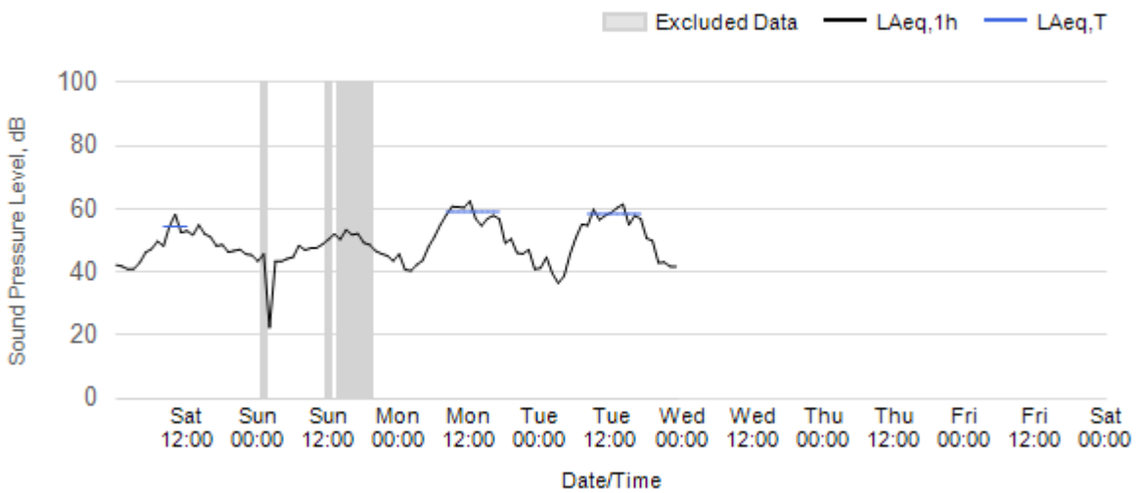

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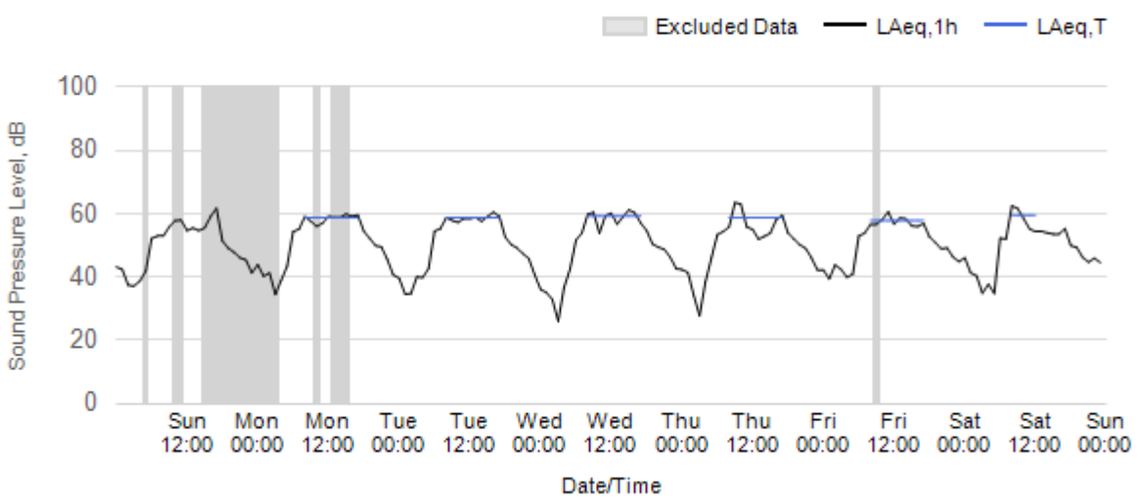
Worksite: C Monitoring Ref: C-N1 01 March 2026 to 07 March 2026



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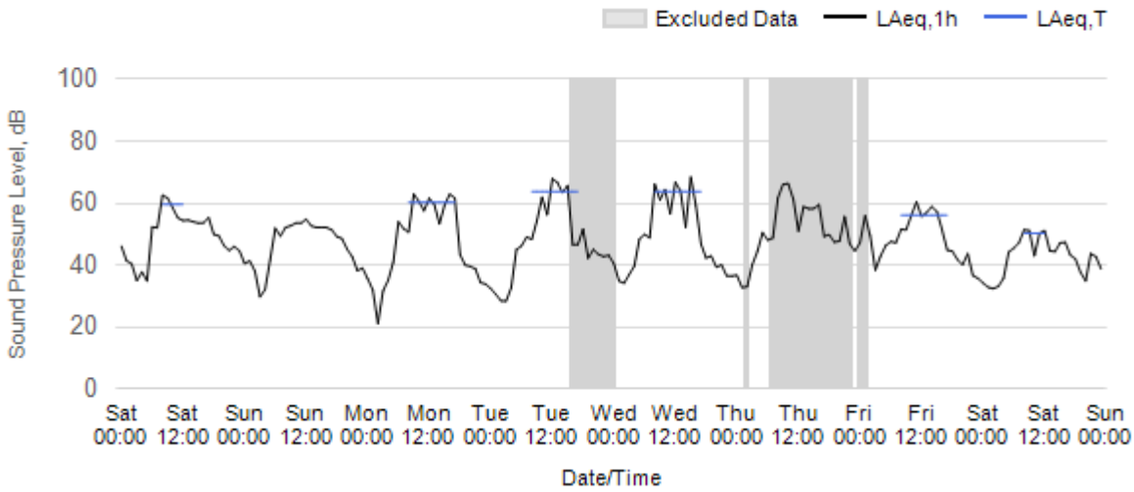

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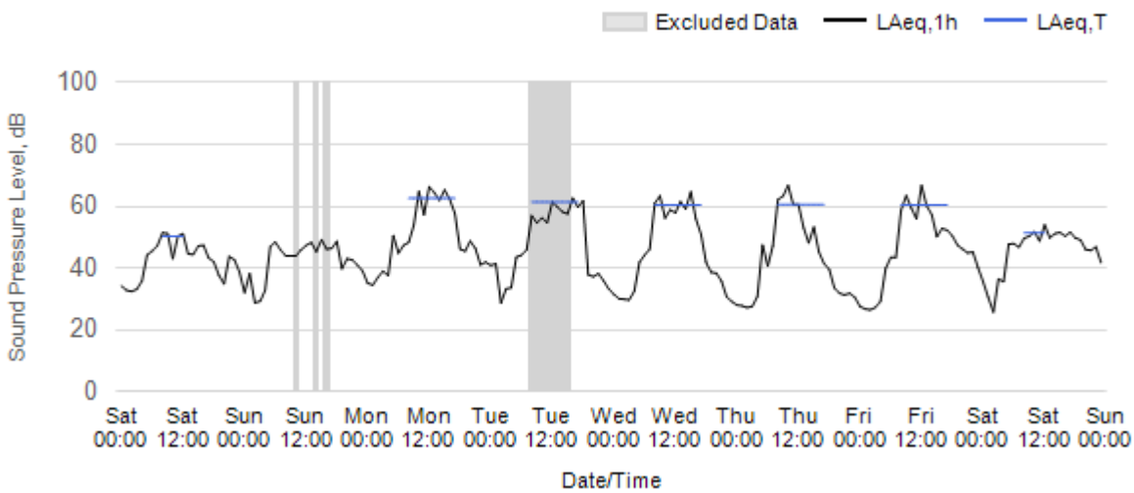

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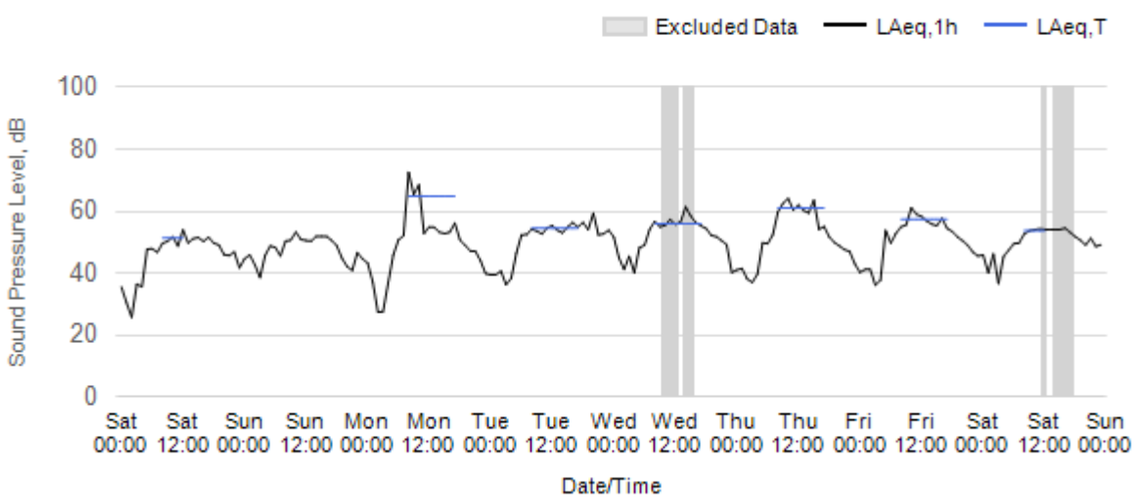

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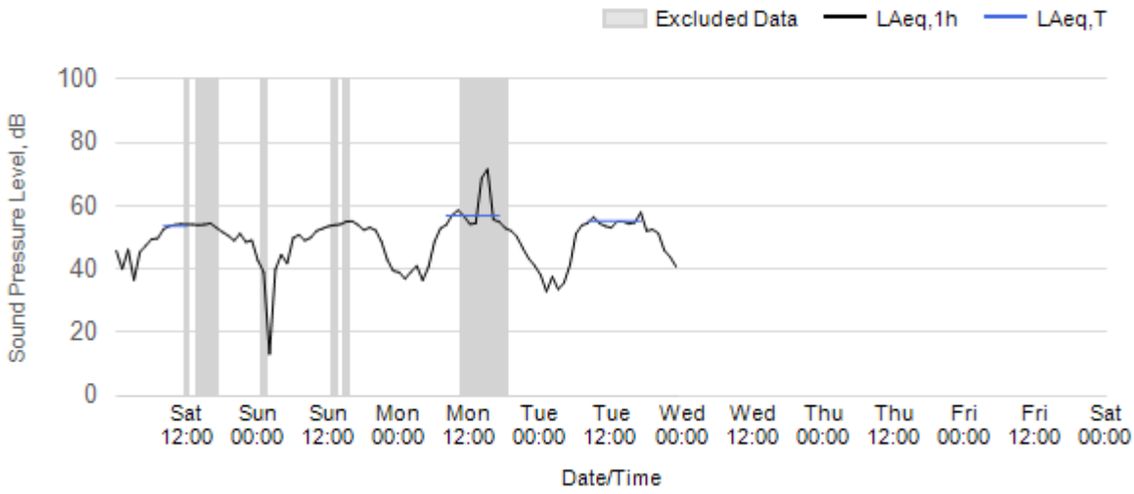

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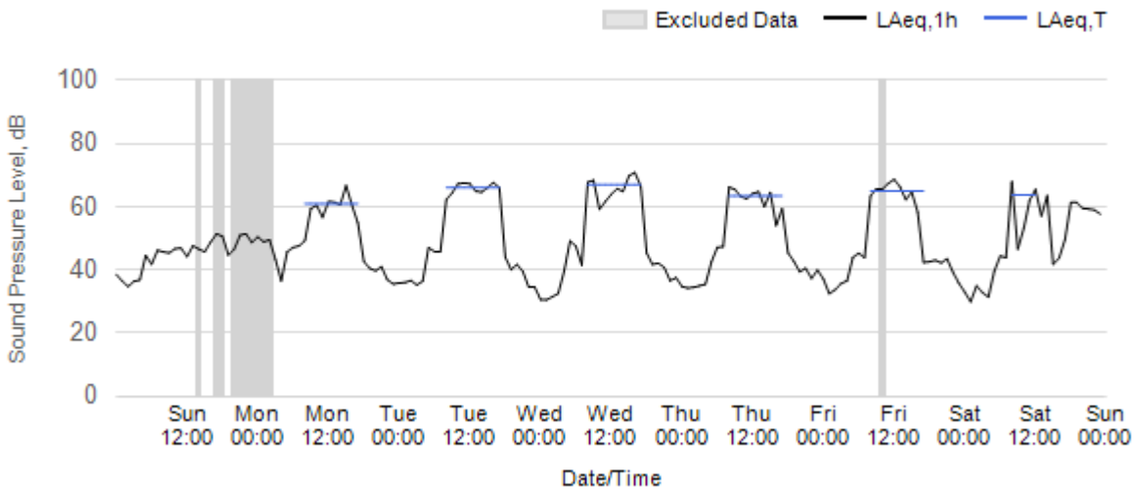

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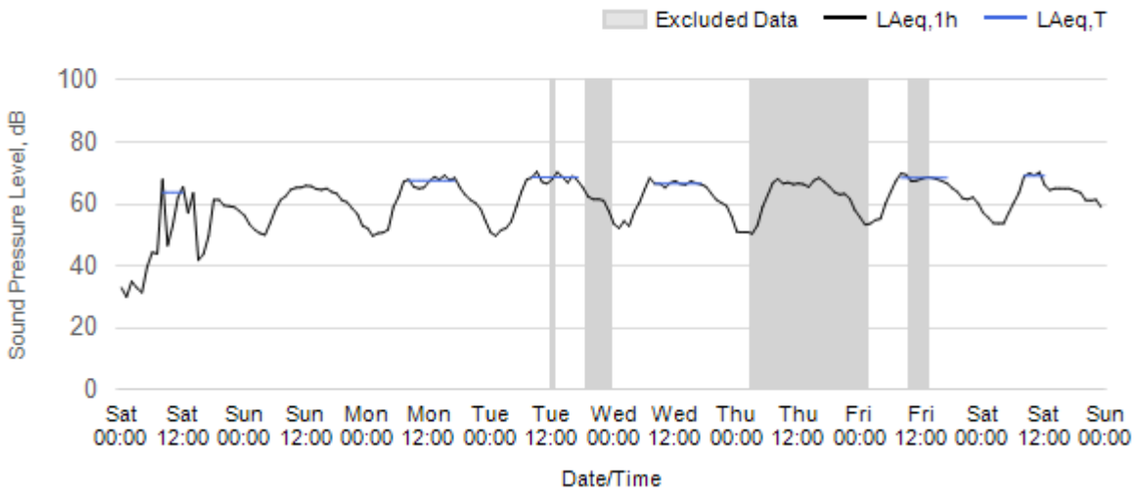

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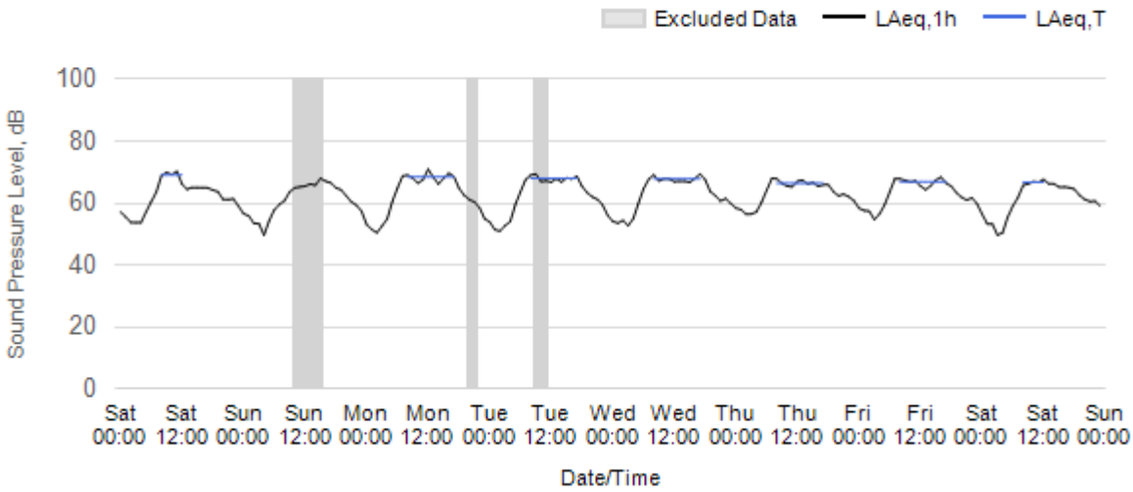

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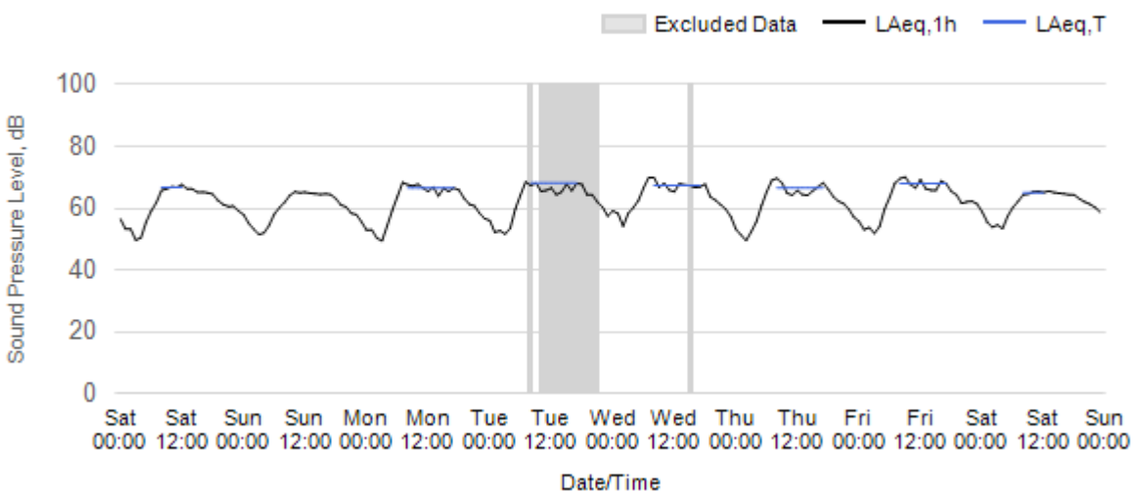

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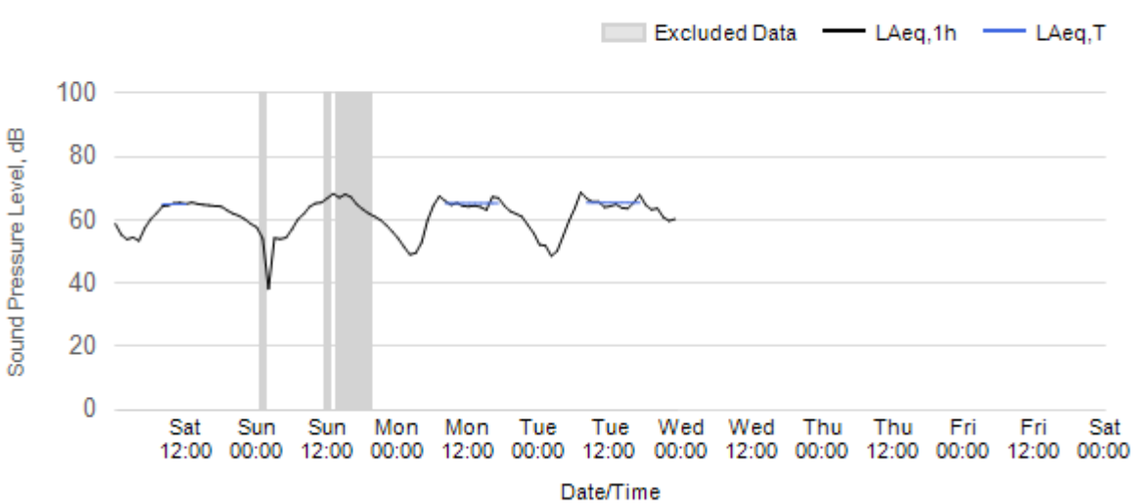

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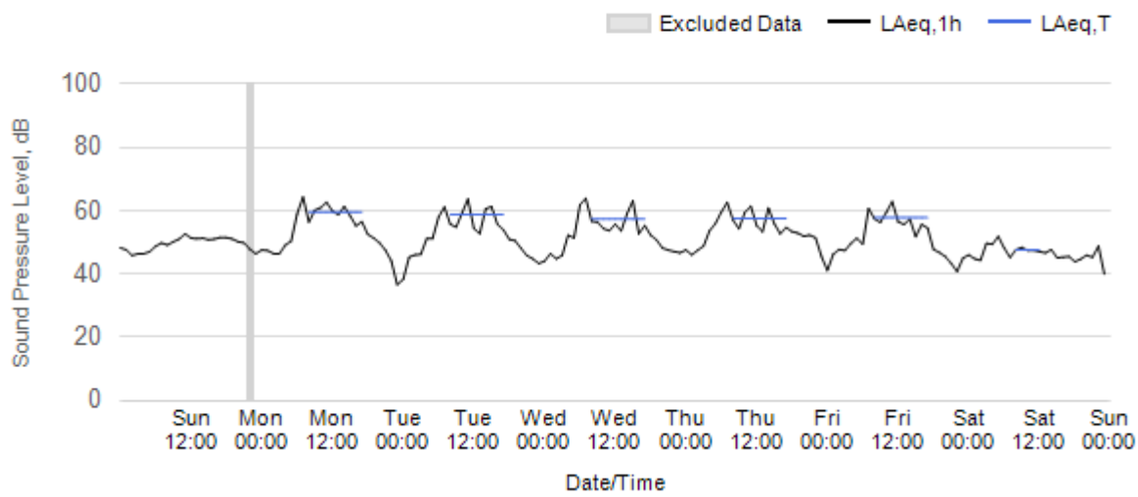

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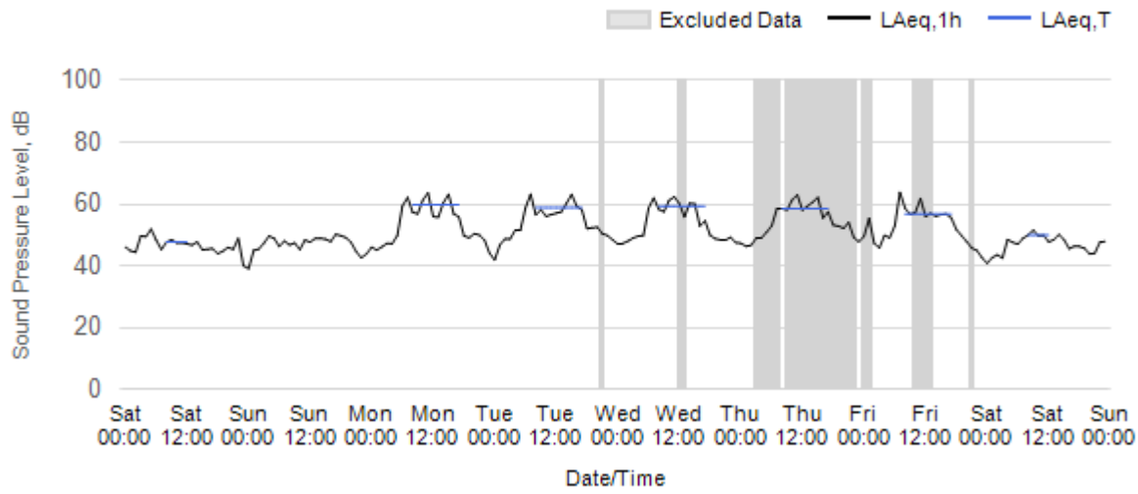

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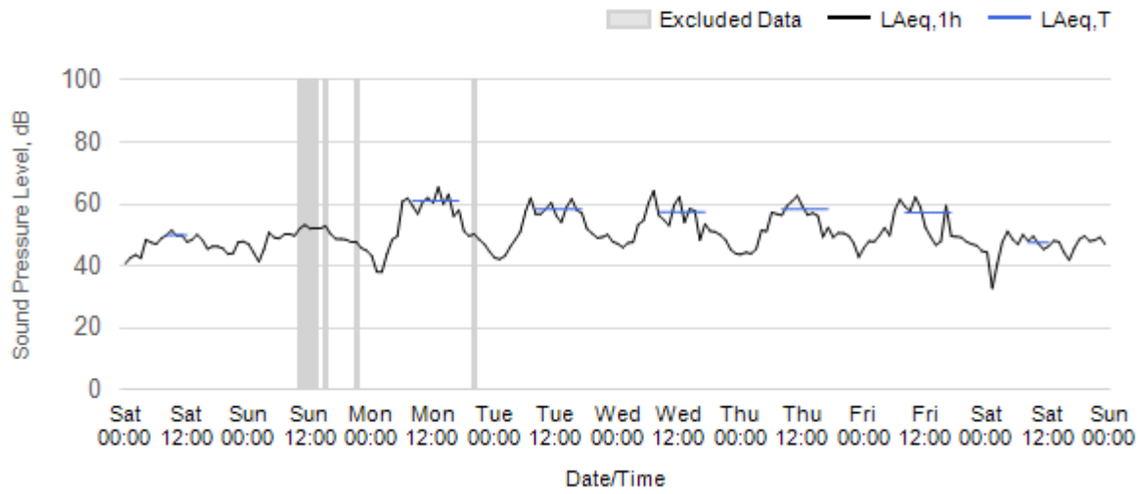

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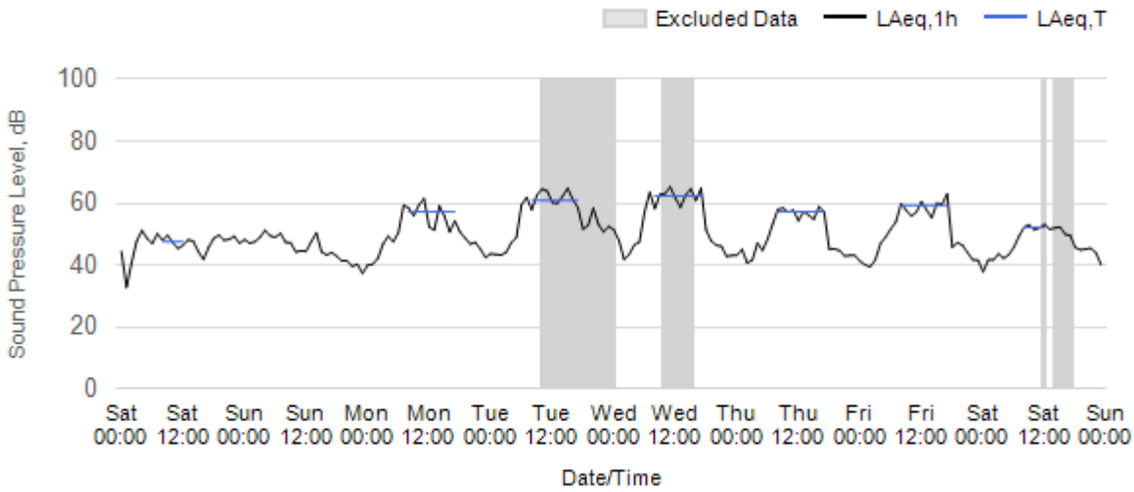

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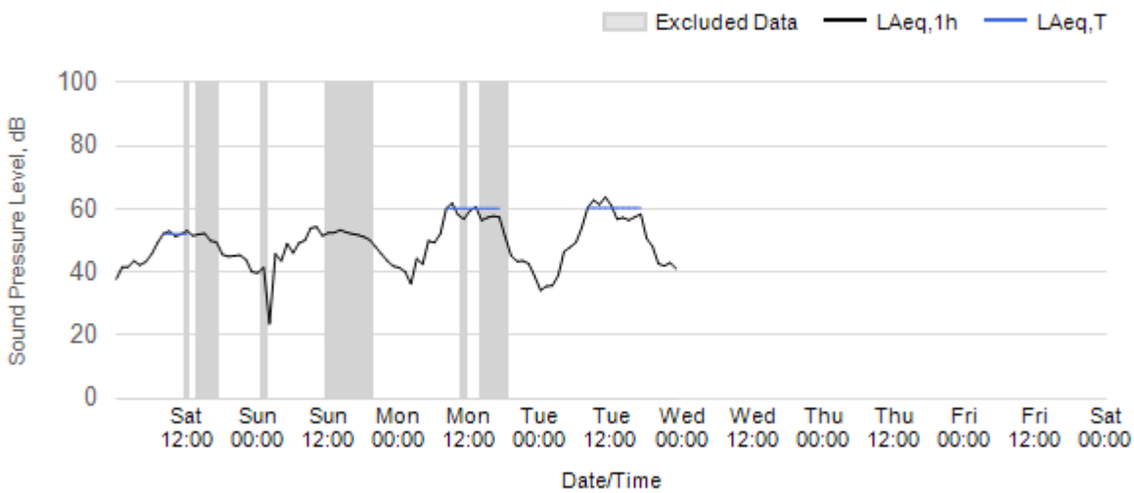

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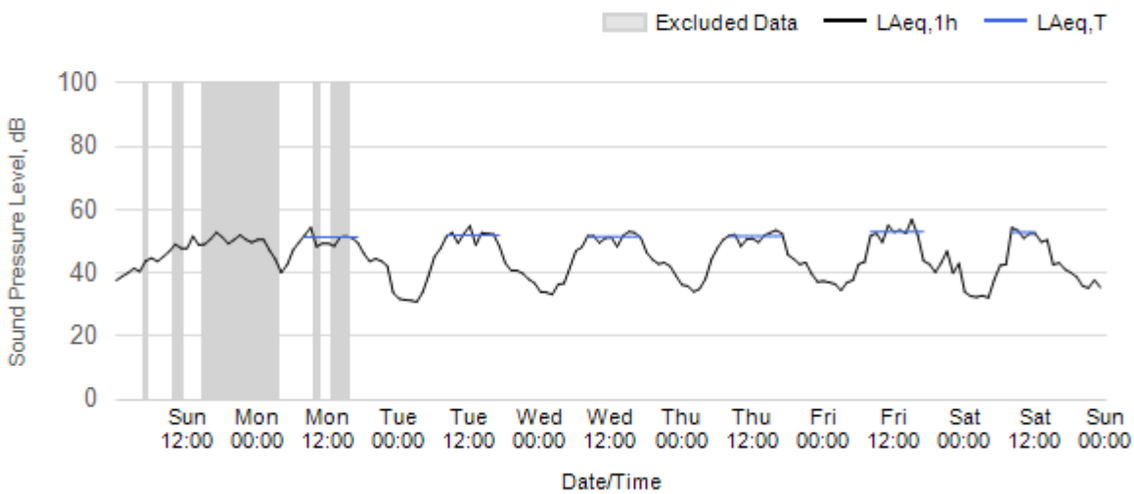

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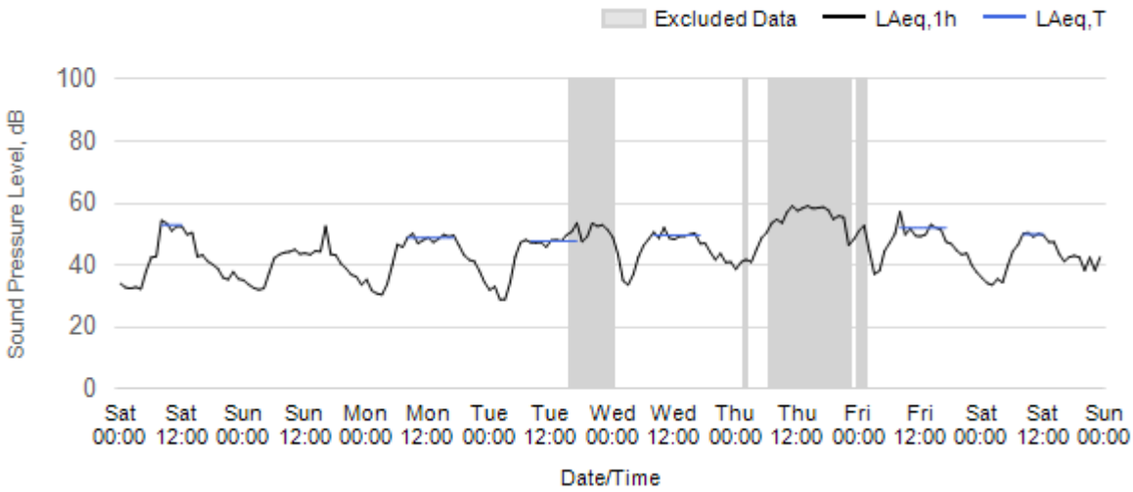

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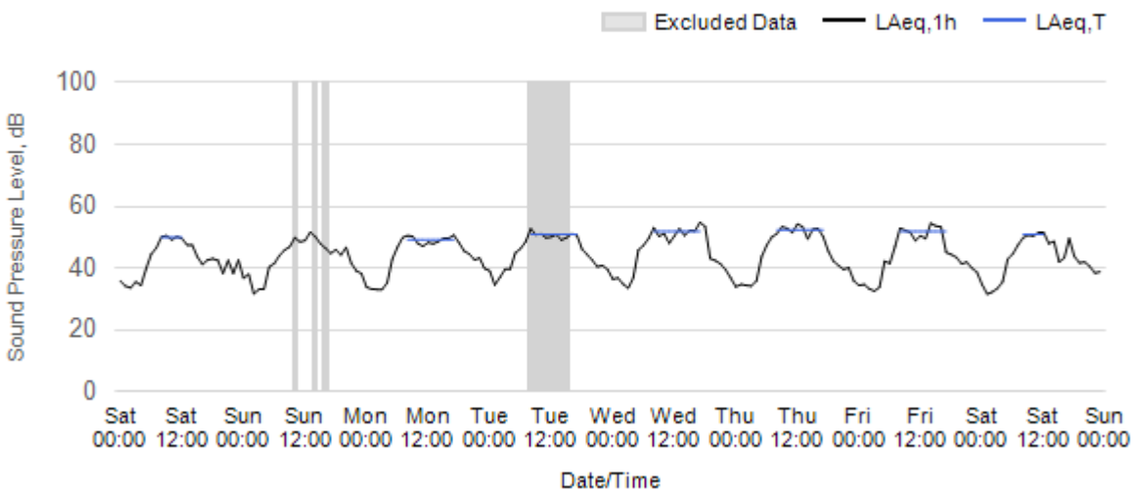

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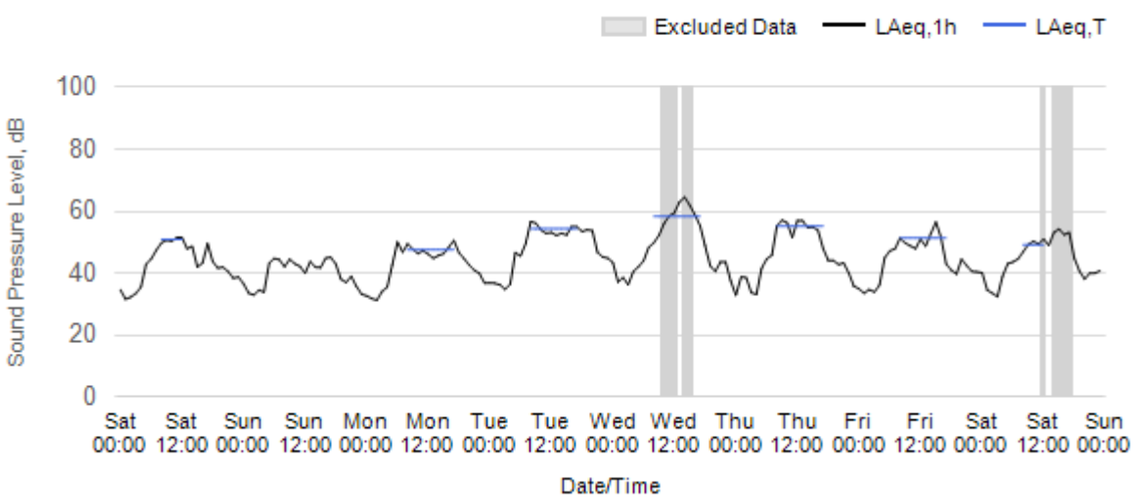

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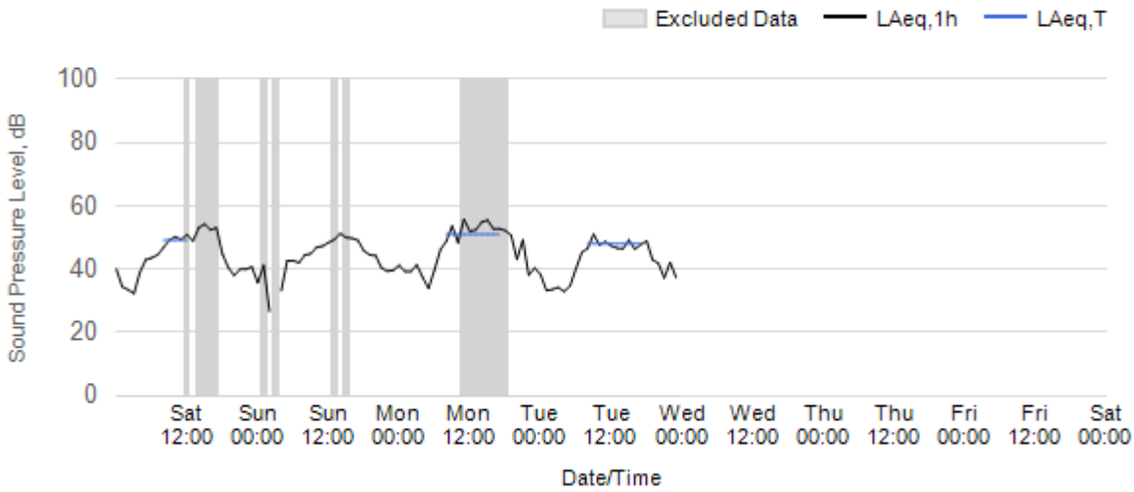

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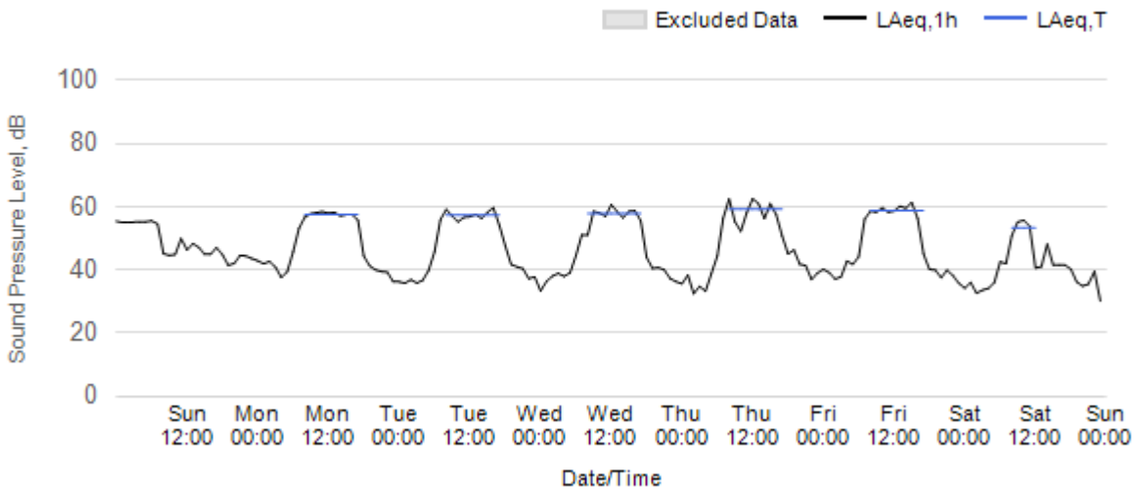

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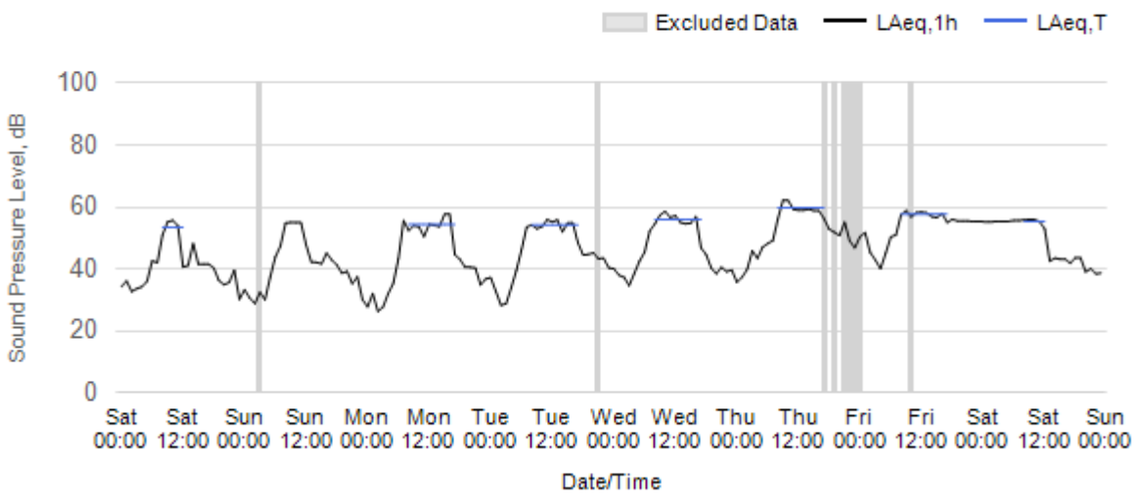

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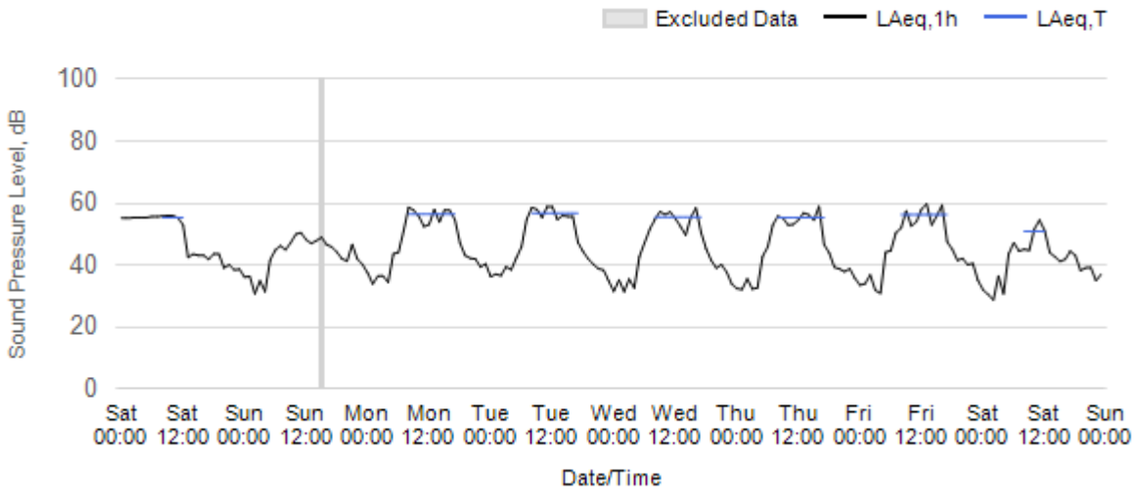

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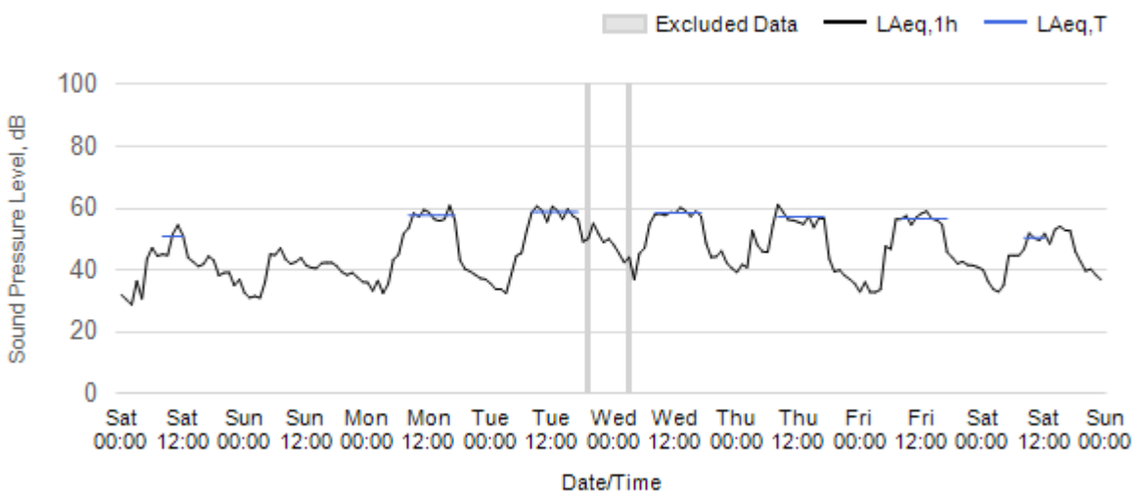

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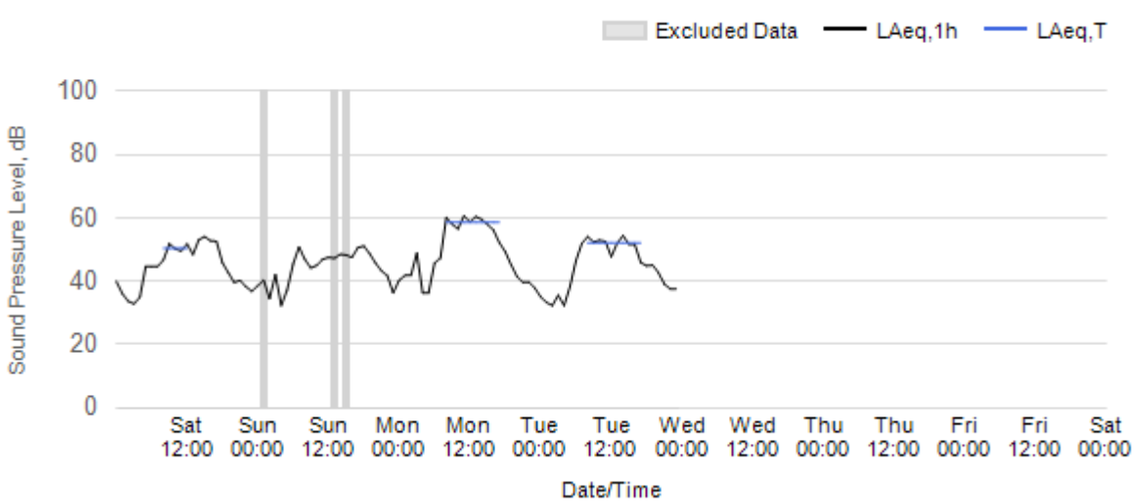
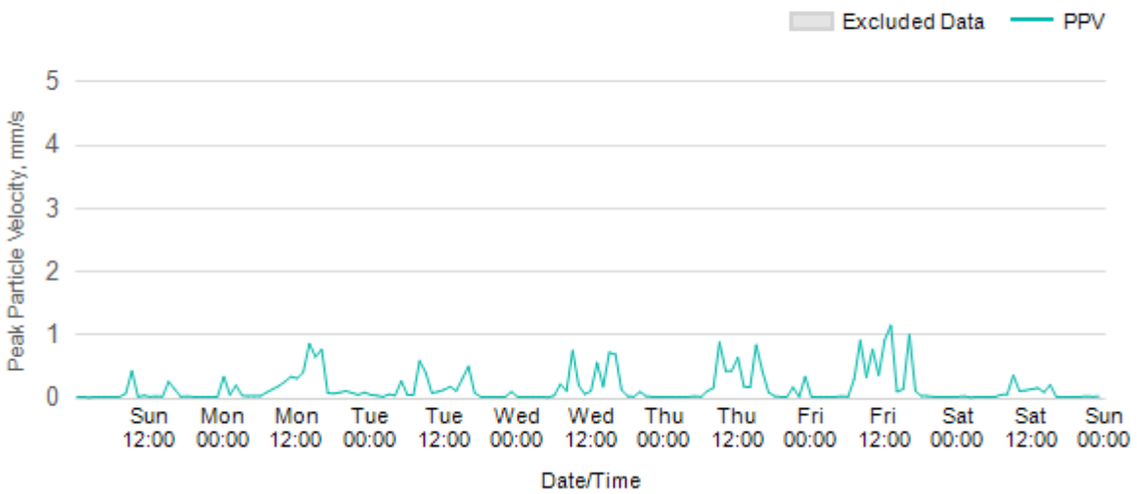


Vibration

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: SP - Monitoring Ref: SP-V1

Worksite: SP Monitoring Ref: SP-V1 01 March 2026 to 07 March 2026



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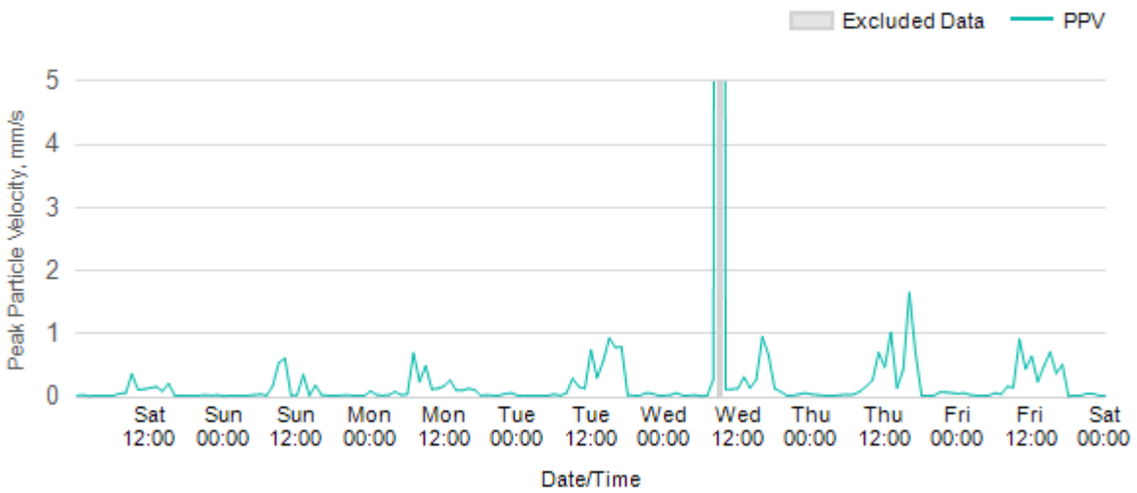

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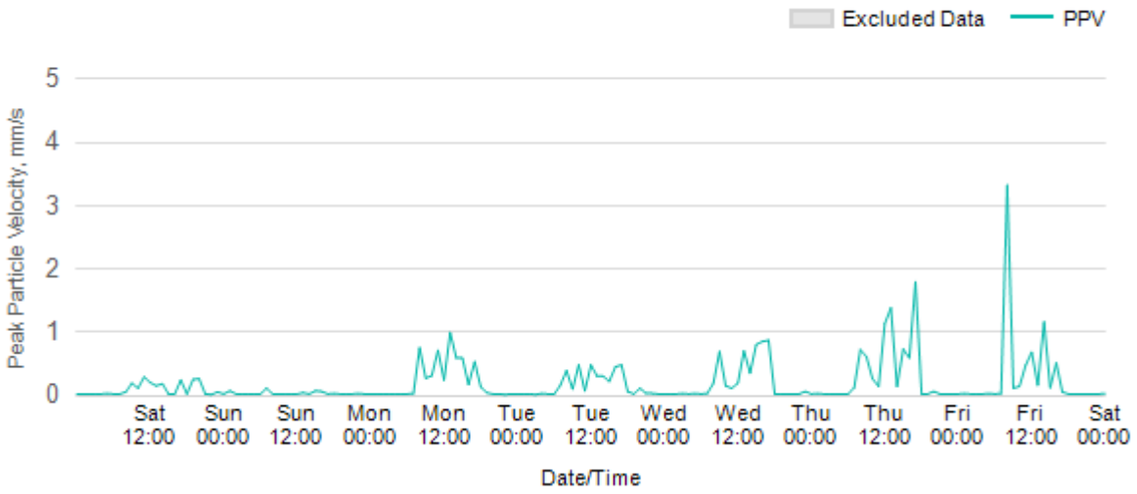

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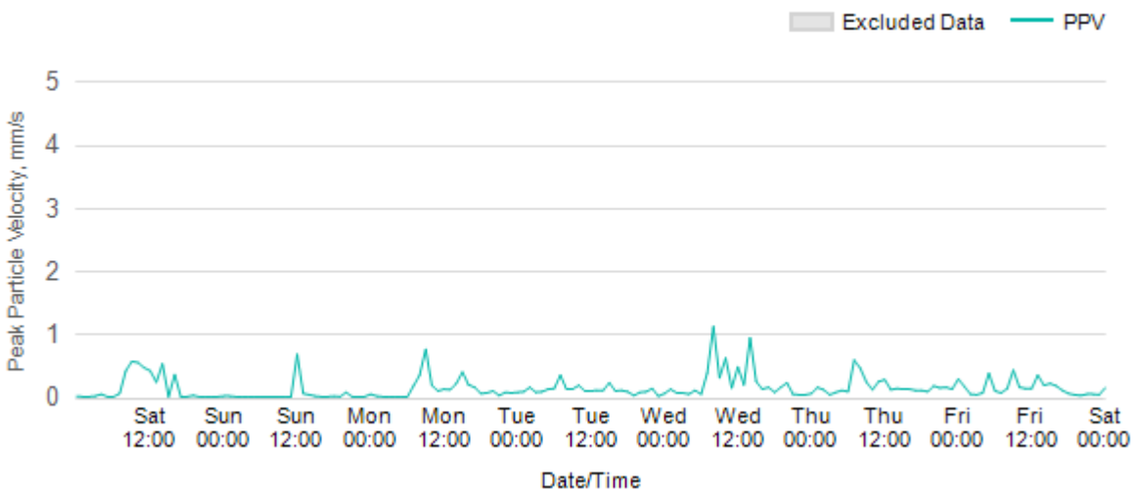

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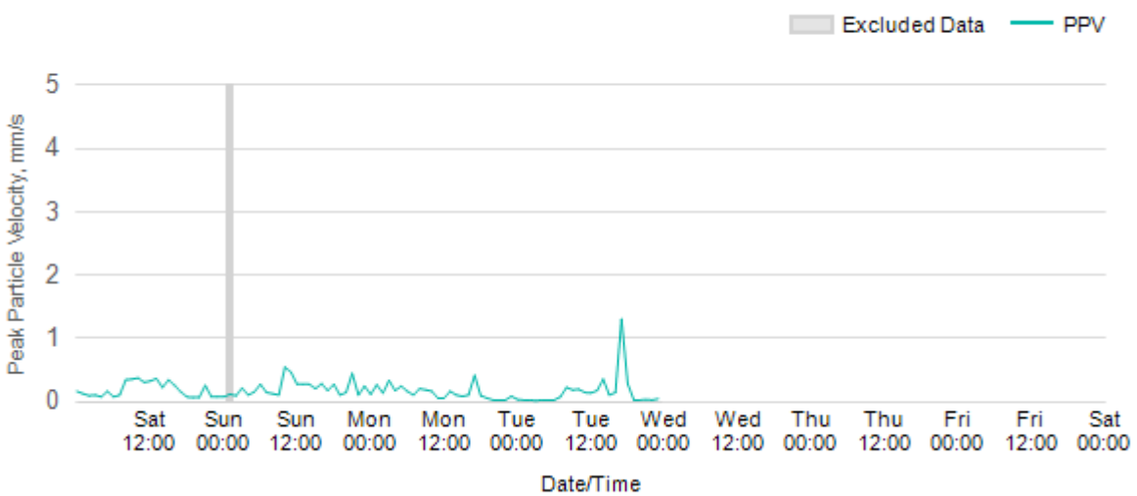

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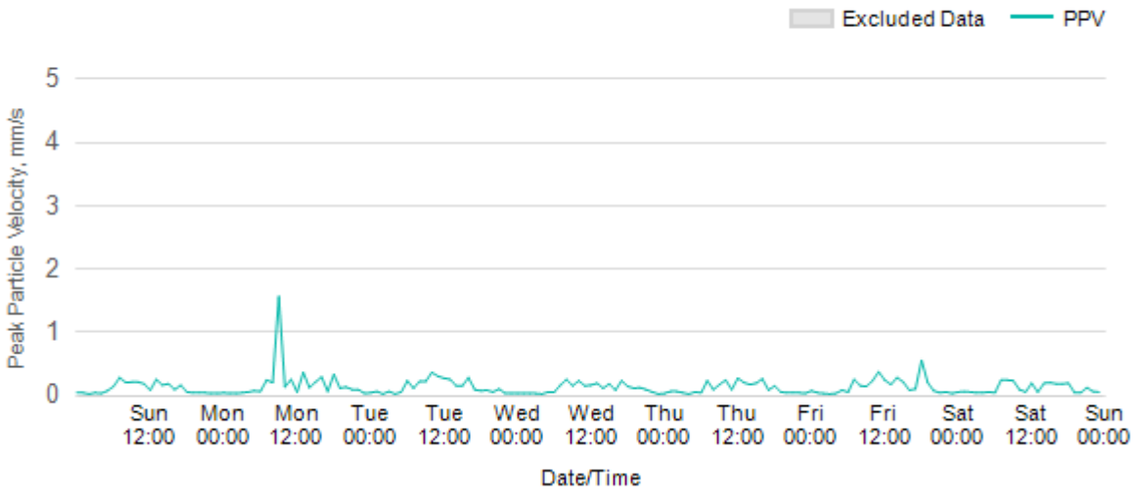

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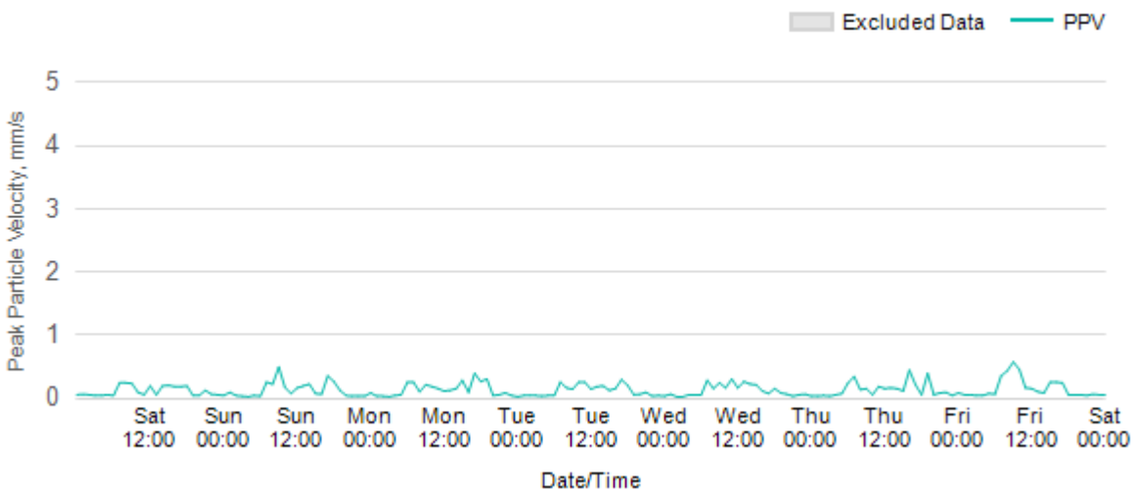

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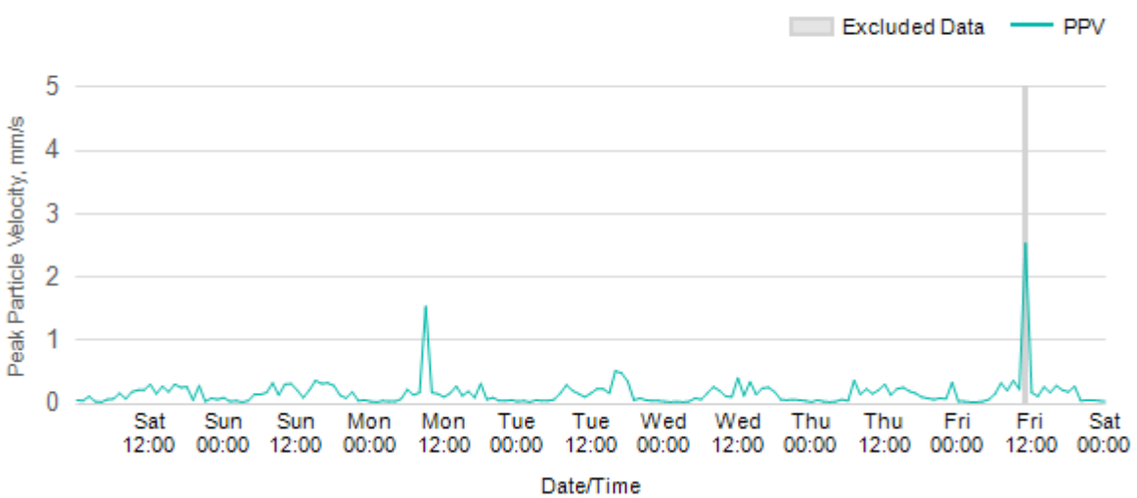

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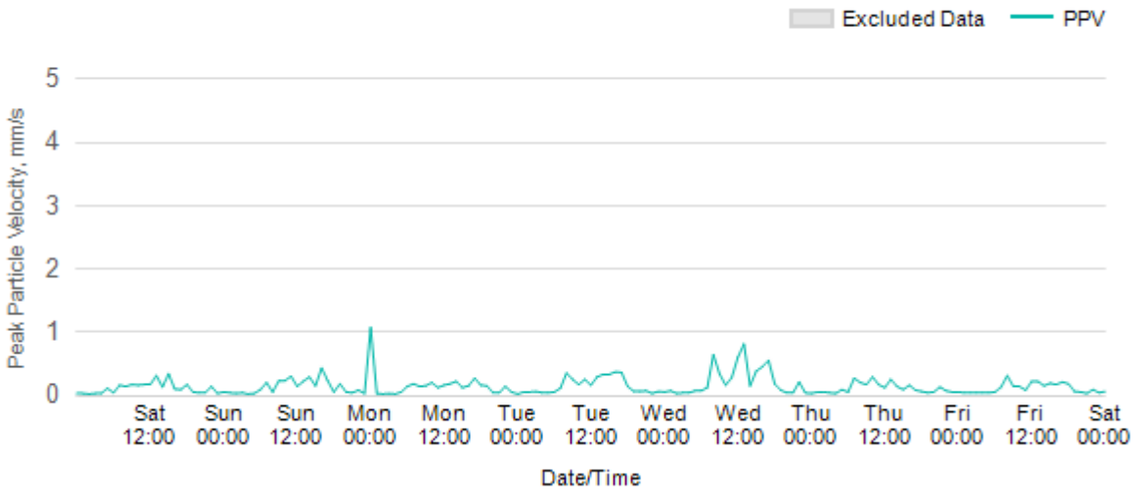

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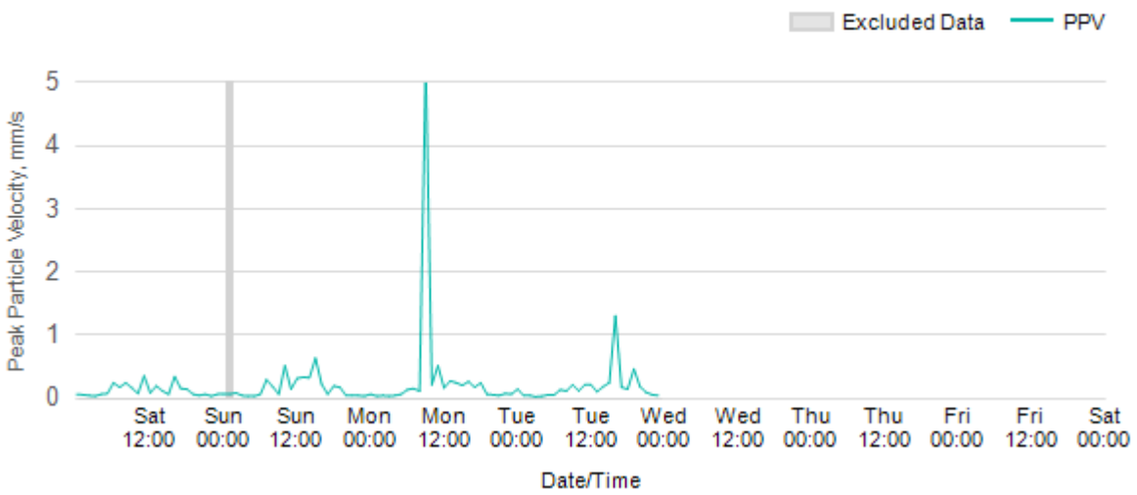

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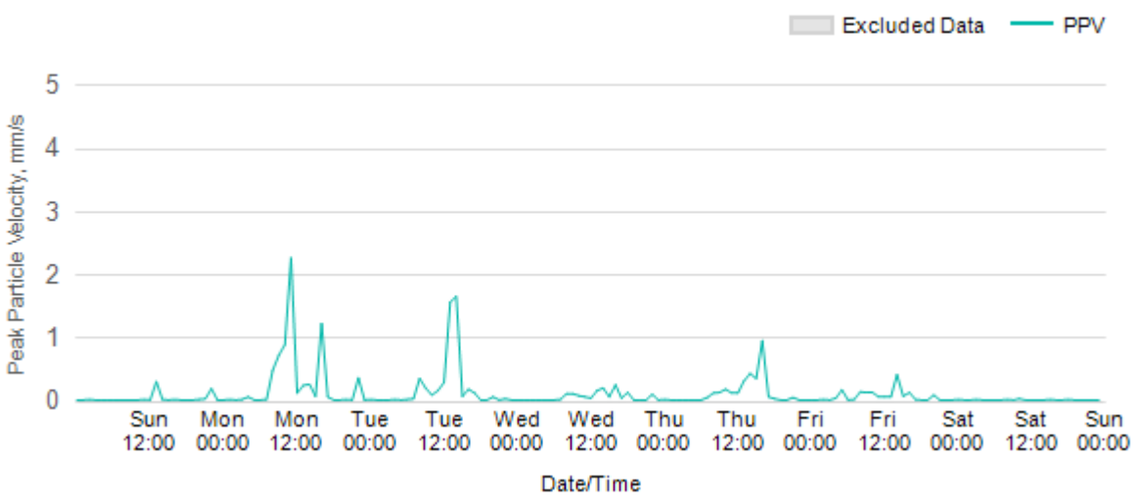
Worksite: BGT Monitoring Ref: BGT-V11 01 March 2026 to 07 March 2026



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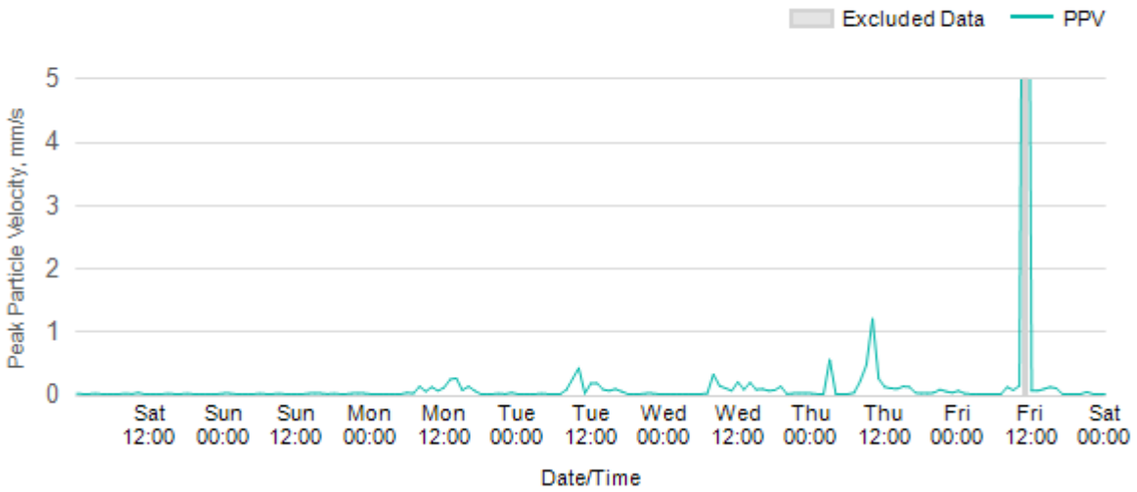

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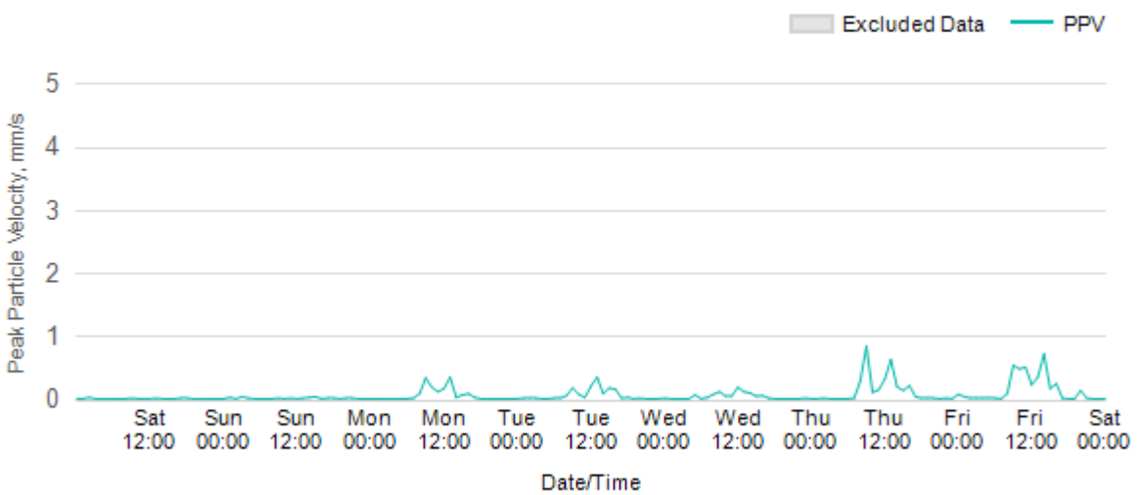
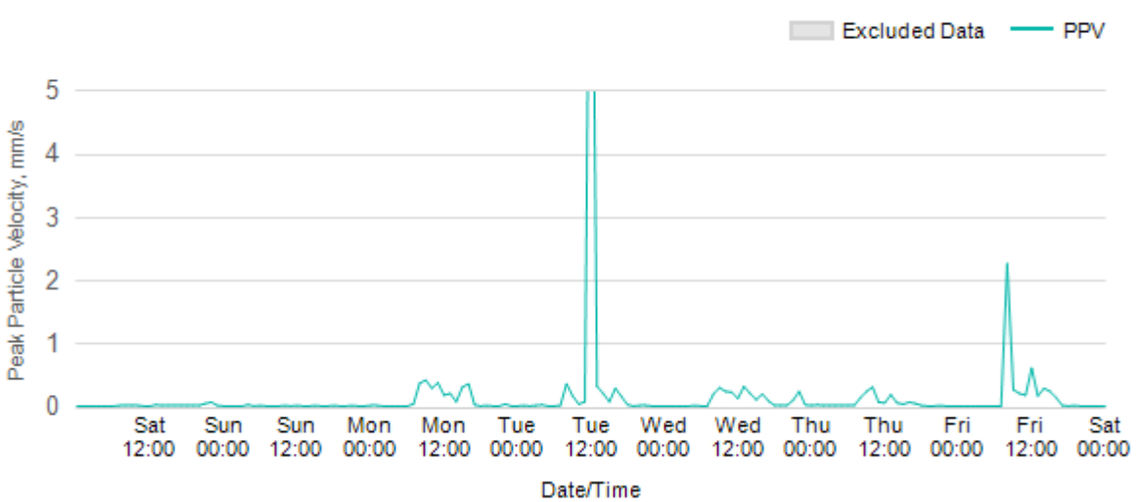


Worksite: BGT Monitoring Ref: BGT-V11 22 March 2026 to 28 March 2026



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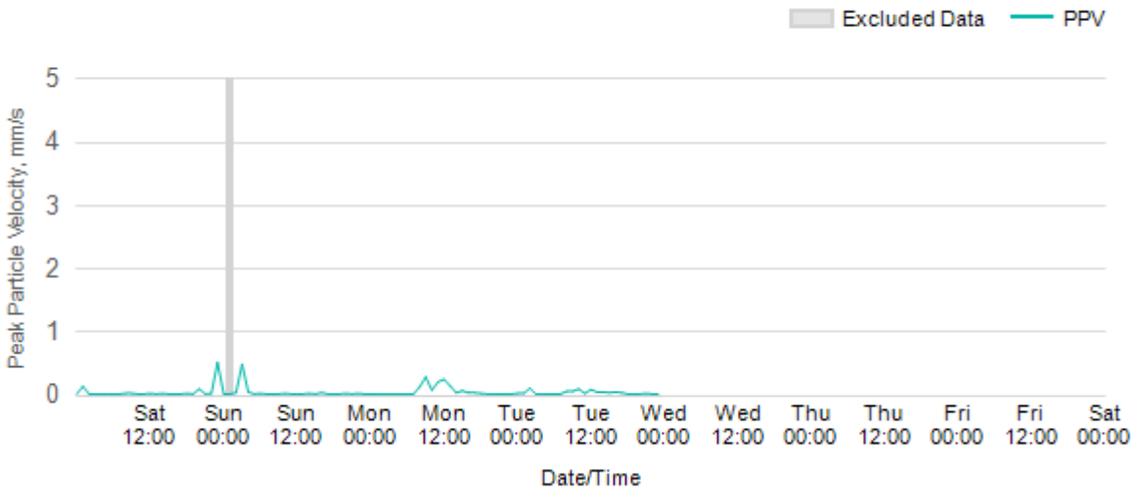

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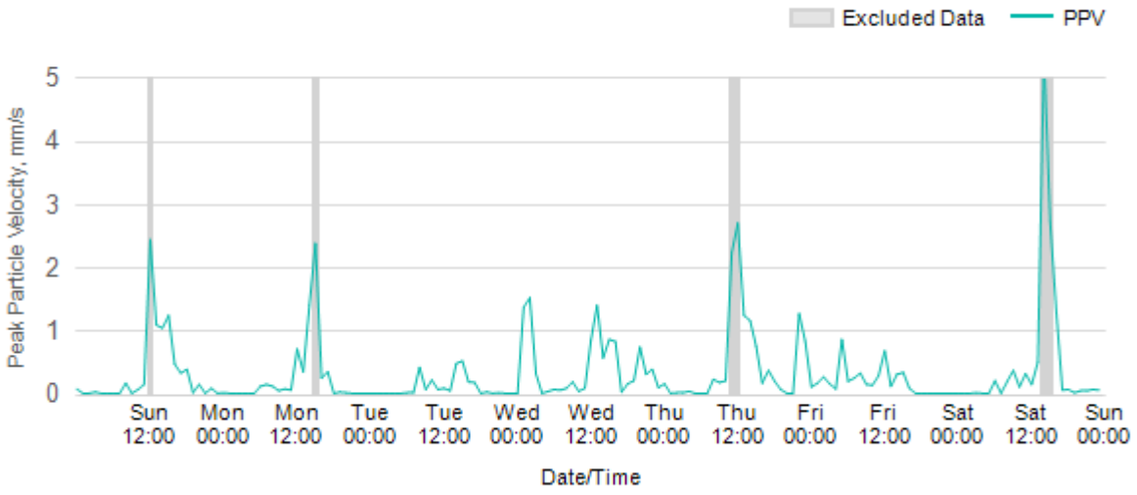
Worksite: CGR Monitoring Ref: CGR-V1 01 March 2026 to 07 March 2026



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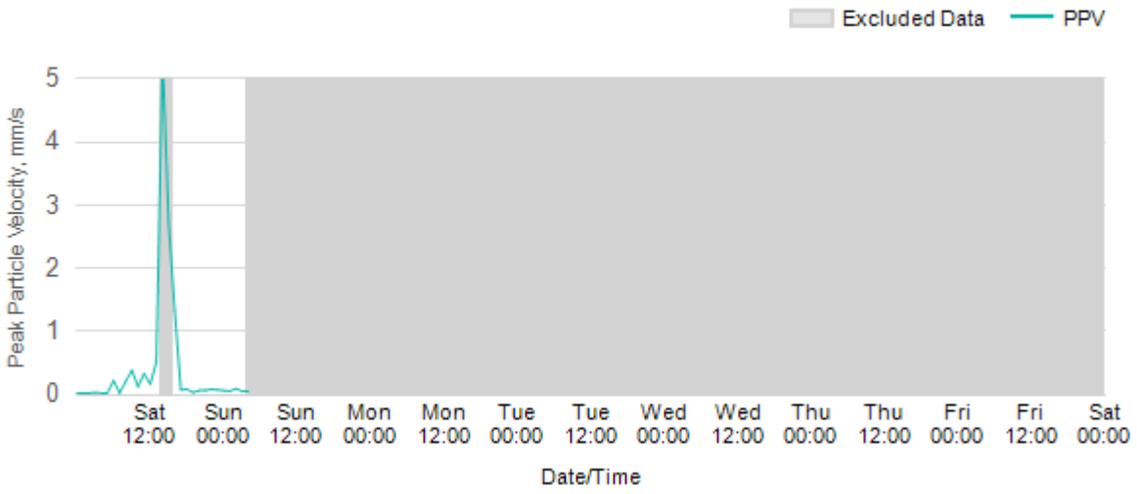

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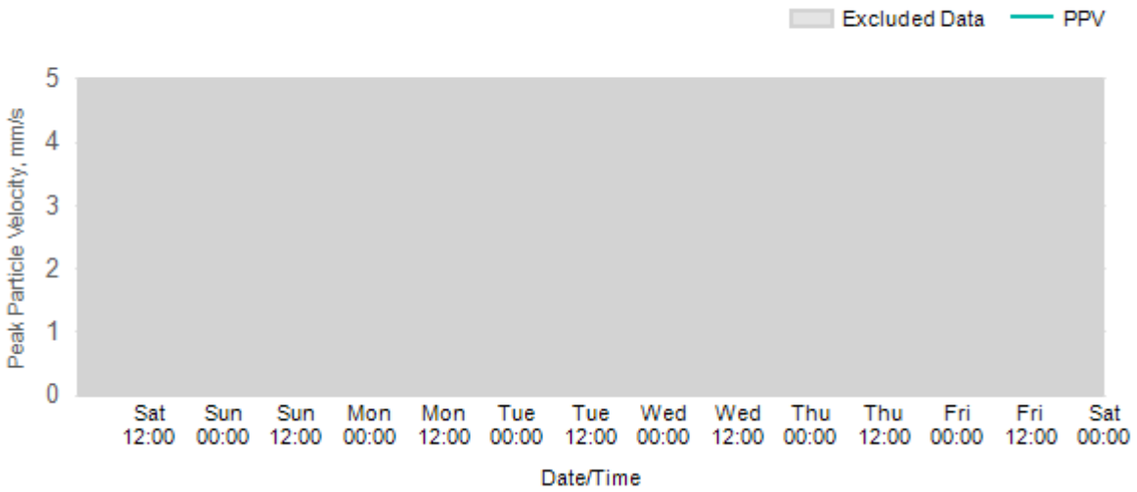

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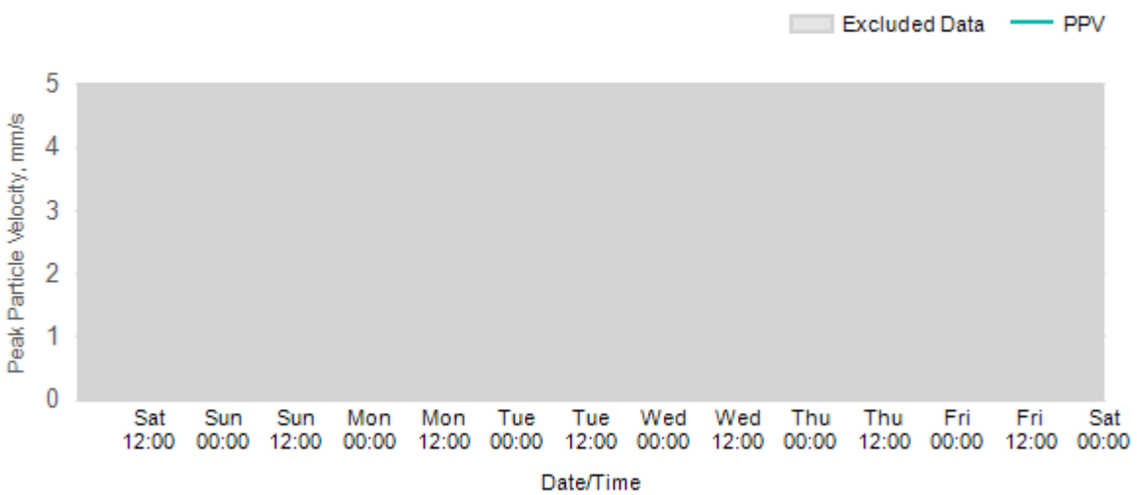

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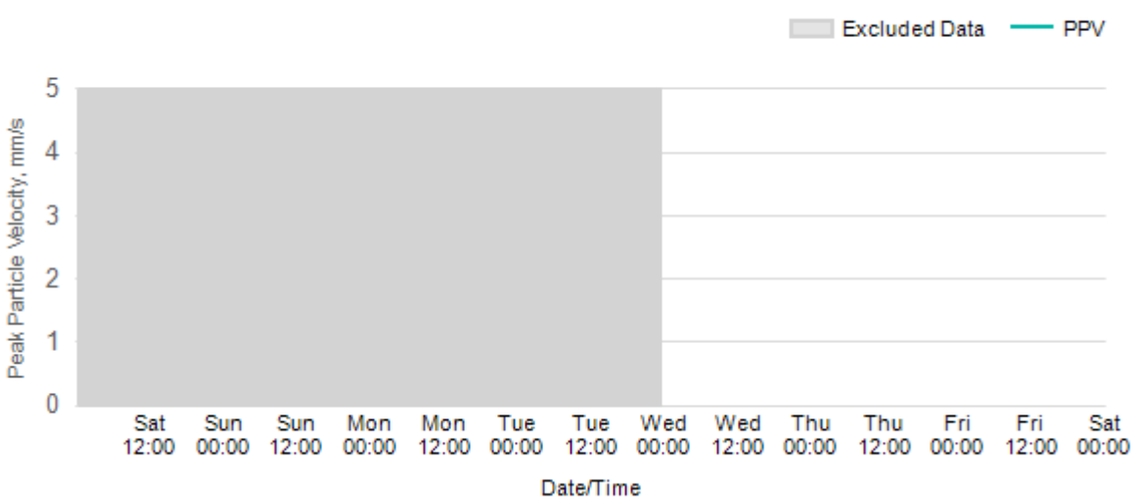

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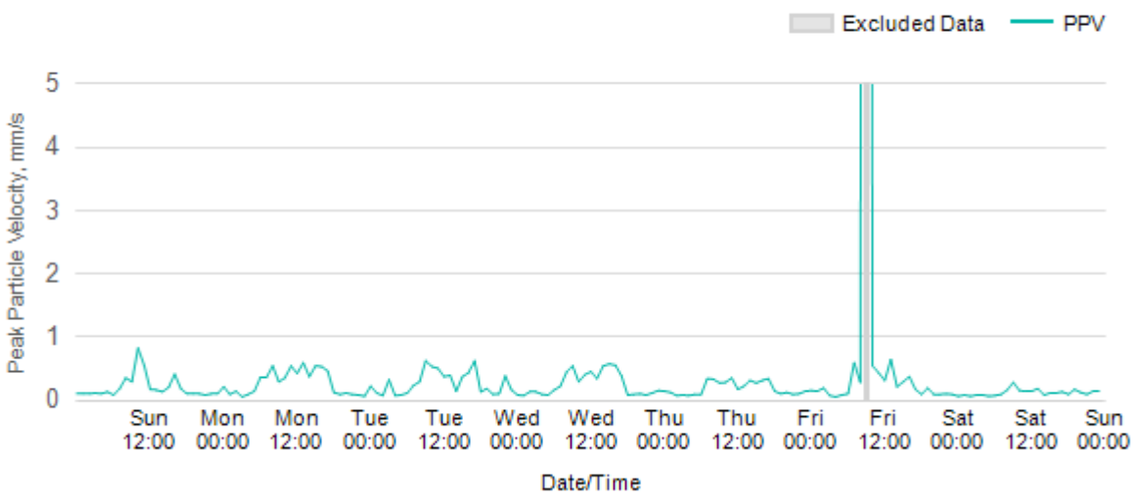
Worksite: C Monitoring Ref: C-V1 01 March 2026 to 07 March 2026



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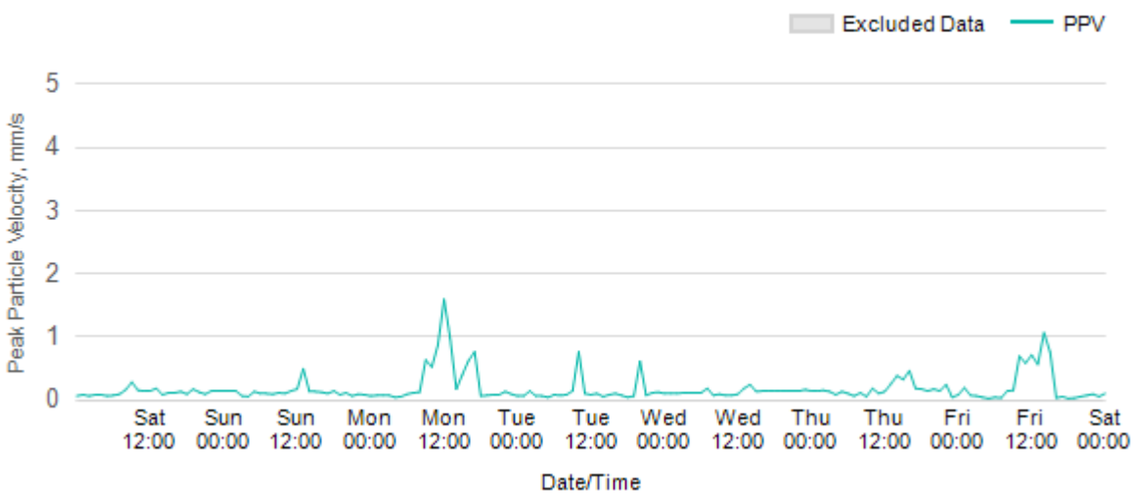

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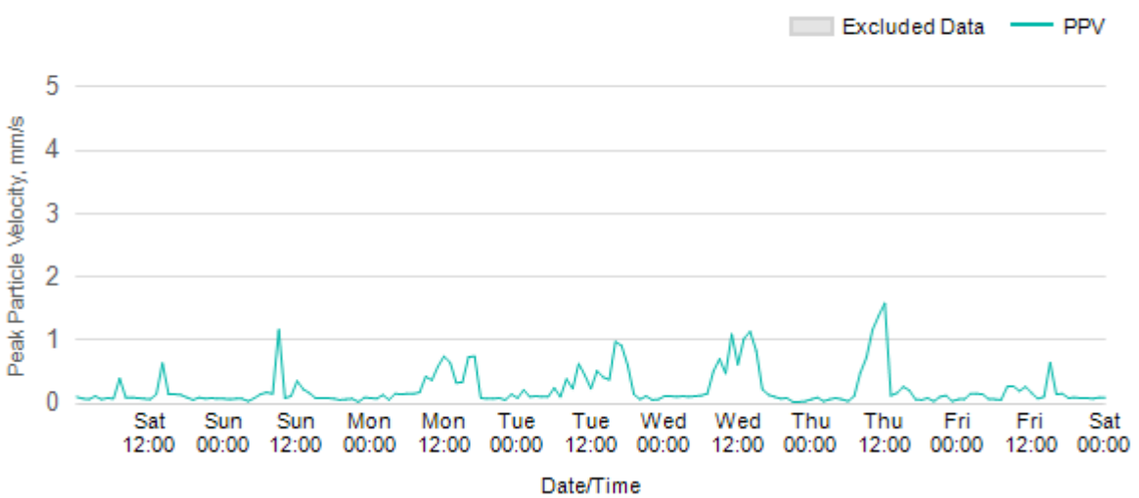

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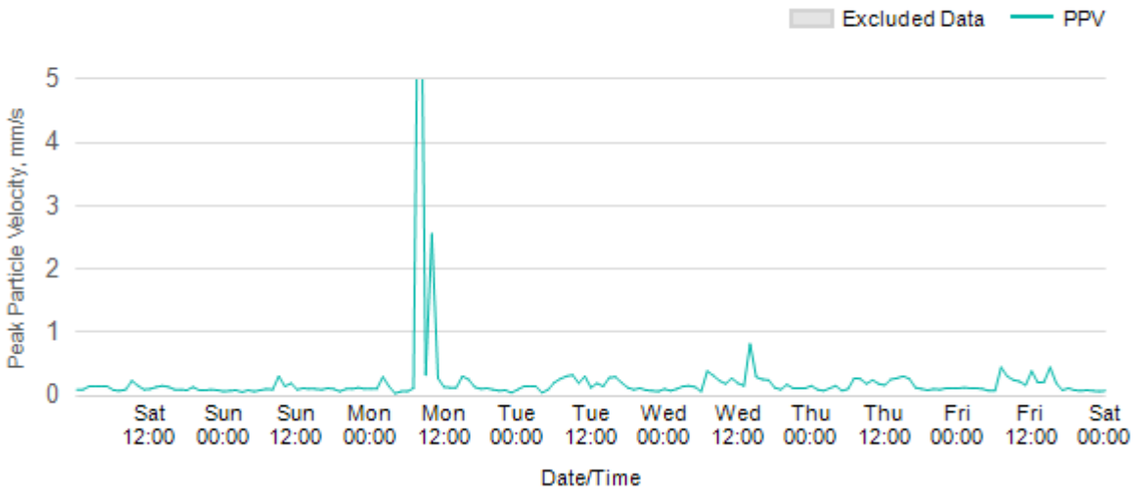

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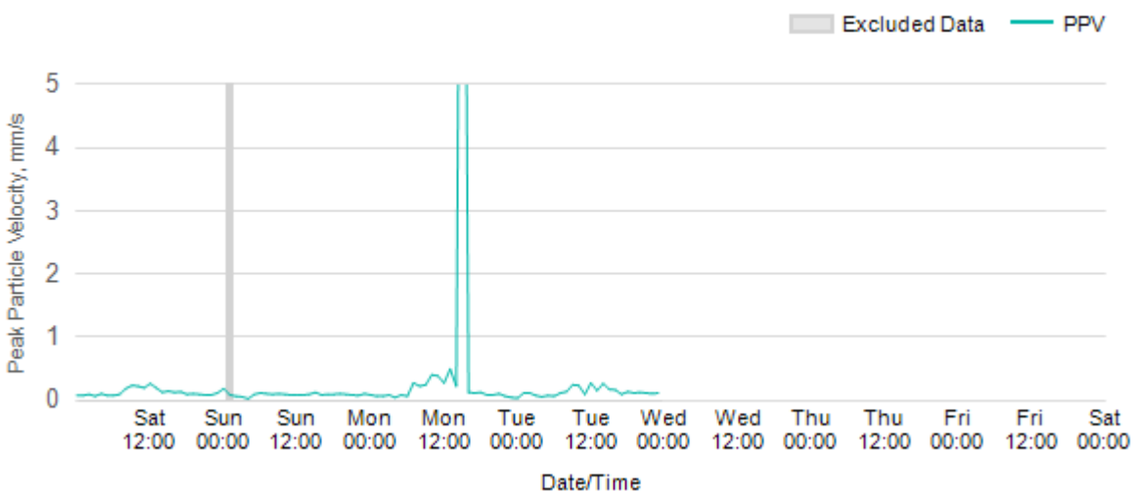

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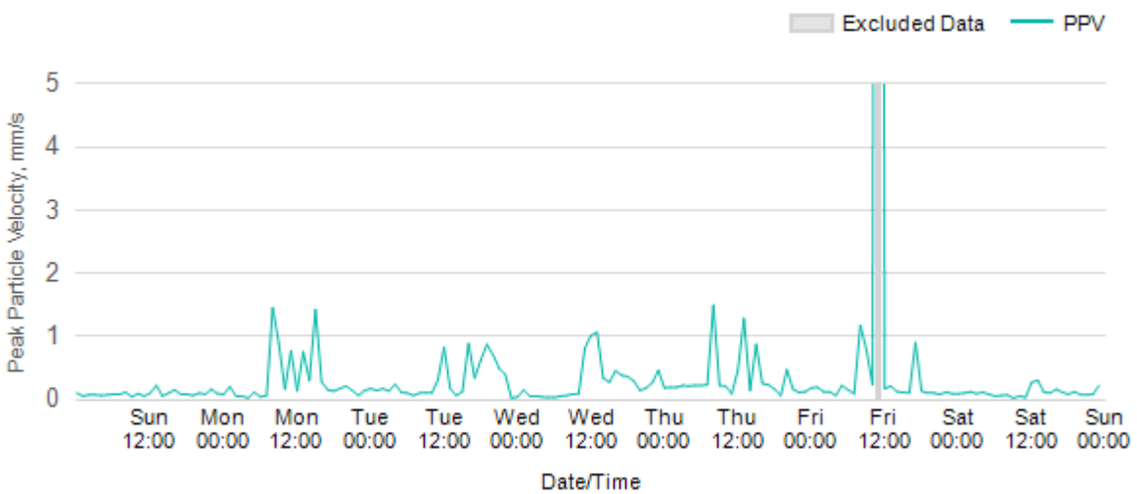
Worksite: A46C Monitoring Ref: A46C-V1 01 March 2026 to 07 March 2026



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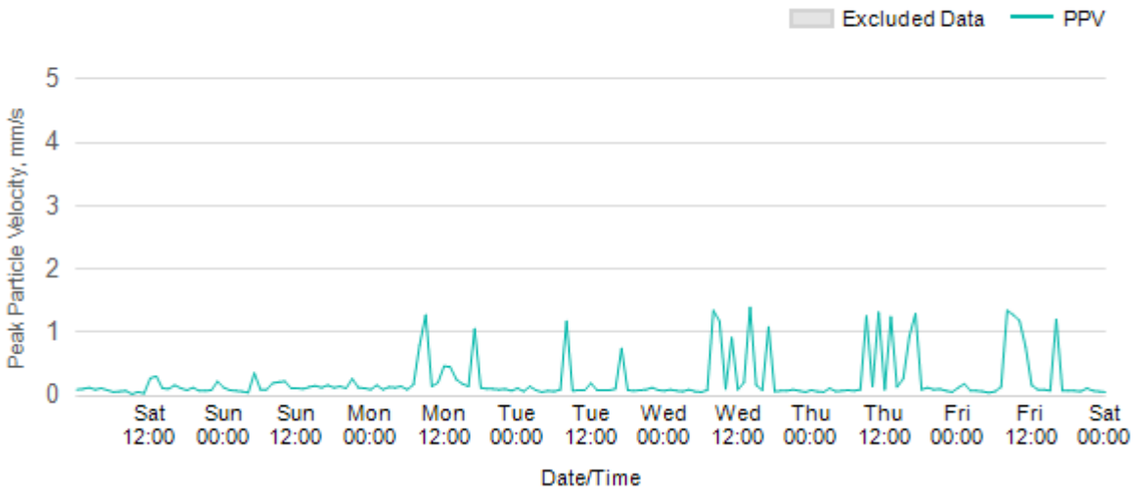

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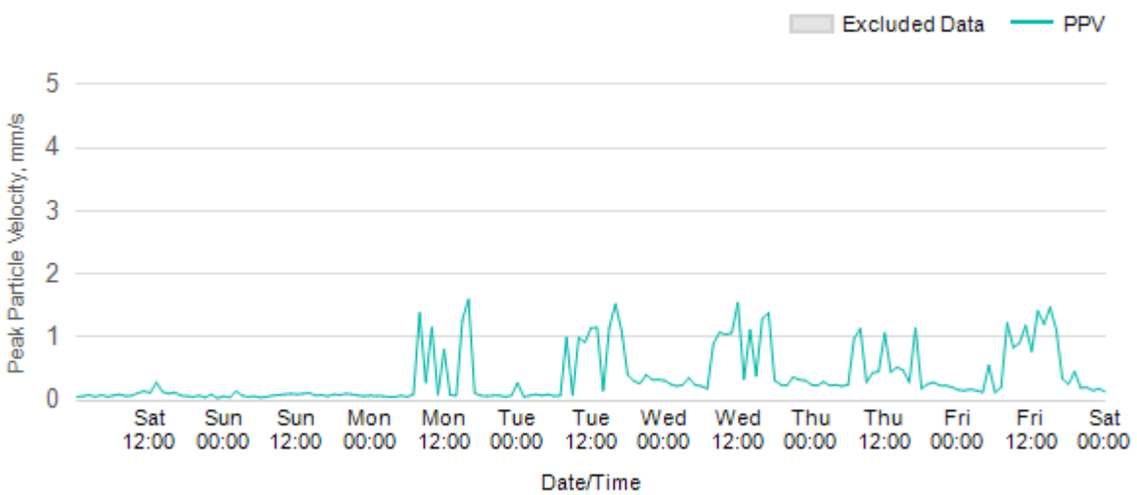

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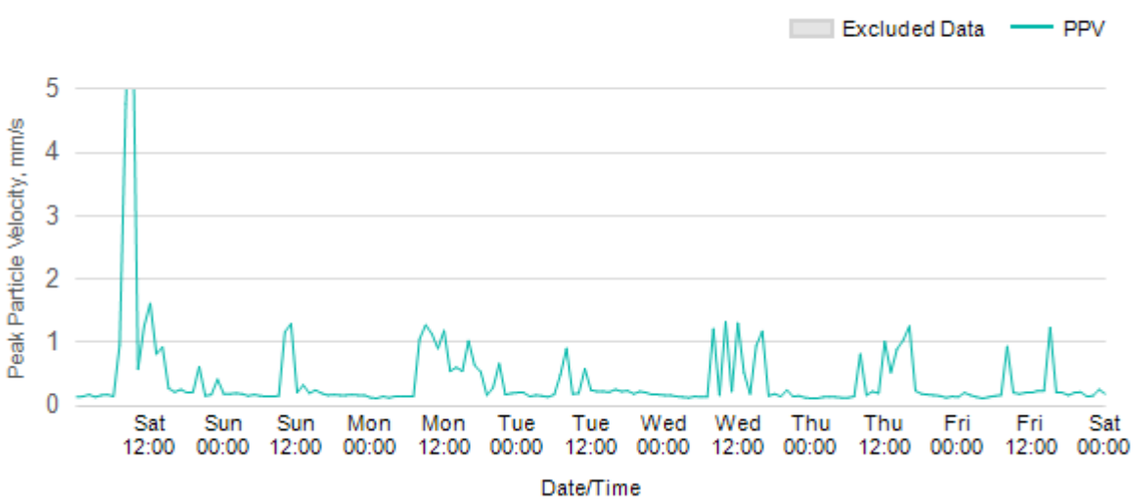

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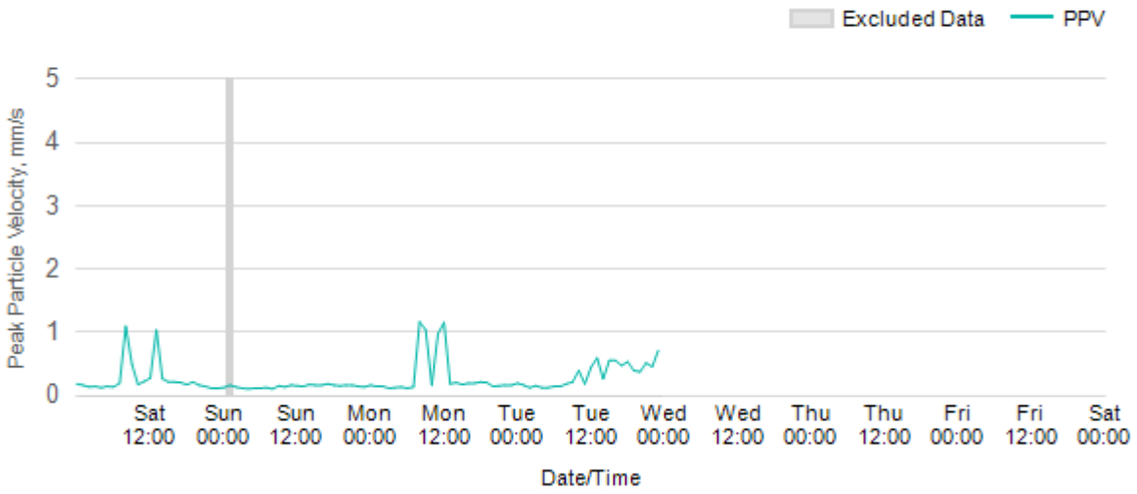

Worksite: FOS - Monitoring Ref: FOS-V1

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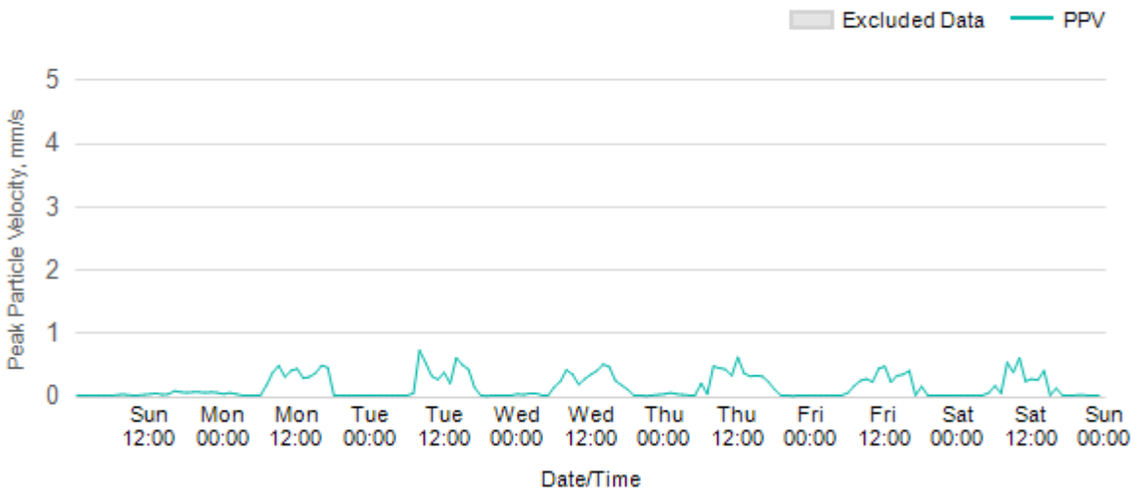

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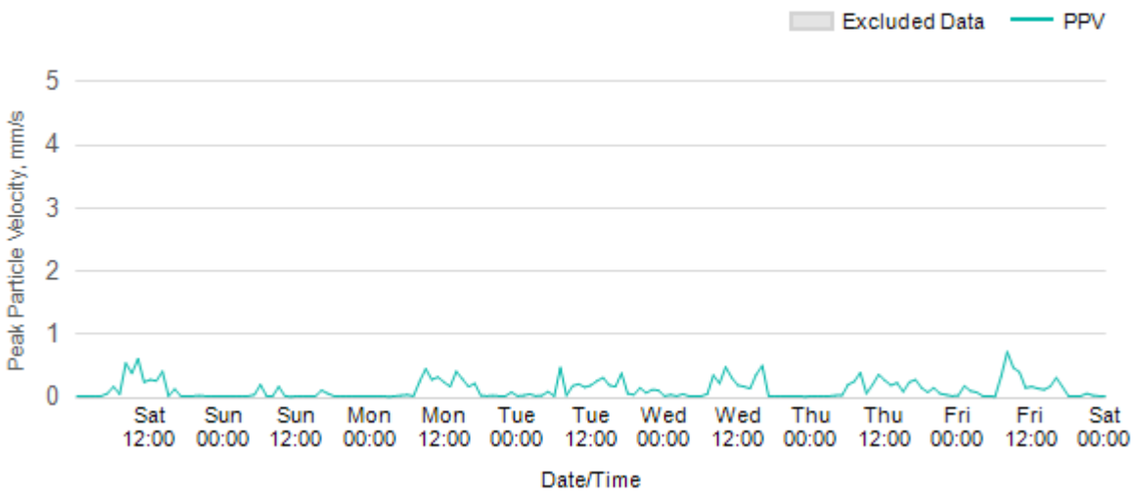

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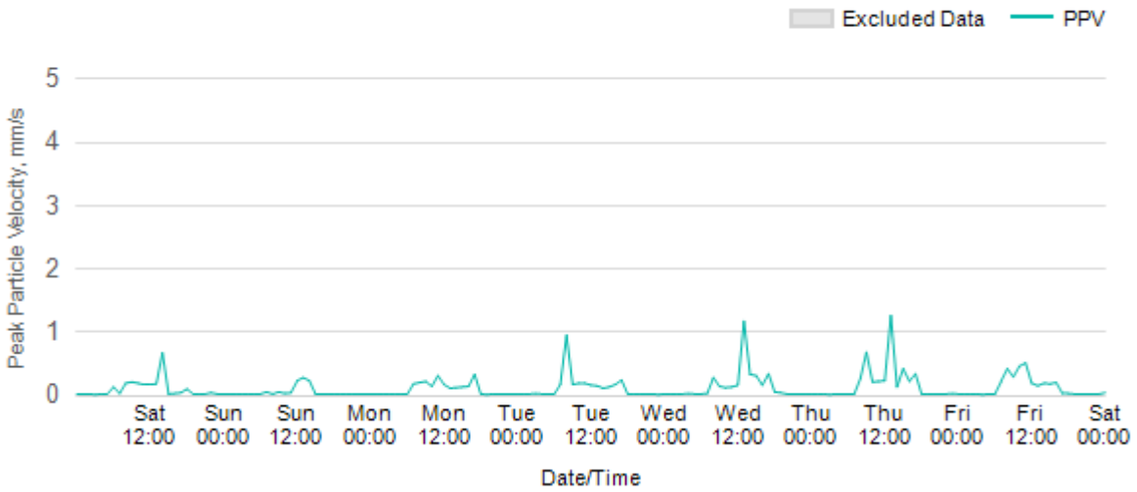

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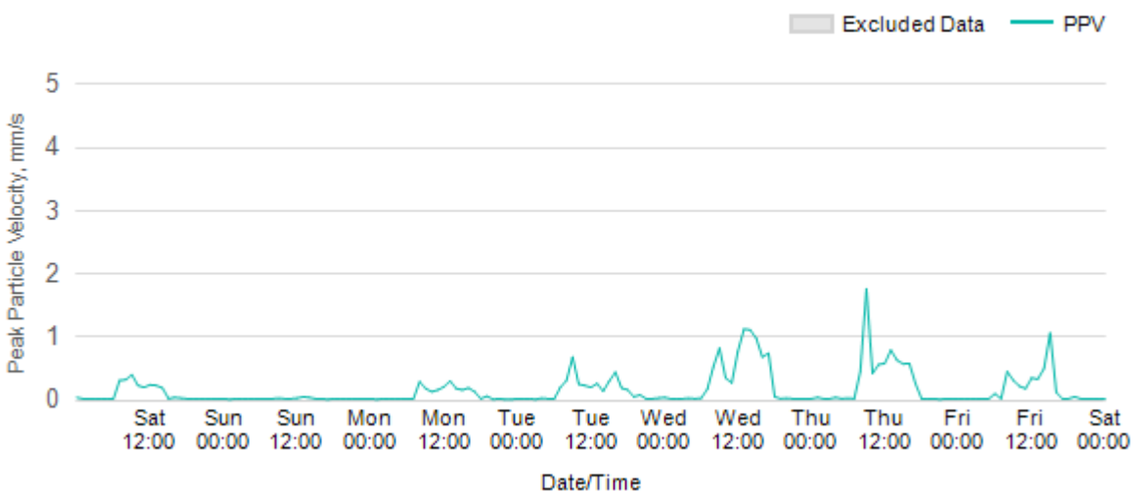

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