

**HS2**

April 2026

# **Construction noise and vibration Monthly Report – April 2026**

**Buckinghamshire Council**

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# Non-Technical Summary

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

Within this period monitoring was undertaken at the following worksites:

- Noise and vibration were undertaken in the vicinity of Little Missenden Vent Shaft worksite (ref.: LM) where commissioning works and mechanical, electrical and plumbing enabling works were underway.
- Noise and vibration were undertaken in the vicinity of West Street Overbridge worksite, (ref.: WSO) where structure works were underway.
- Noise and vibration were undertaken in the vicinity of Aylesbury Golf Course worksite (ref.: GC) where utilities, landscaping and earthworks were underway.
- Noise and vibration were undertaken in the vicinity of Chalfont St Peter Vent Shaft worksite (ref.: CSP) where headhouse external works, landscaping, demobilisation works and water management works were underway.
- Noise and vibration were undertaken in the vicinity of Twyford worksite (ref.: TW) where cutting-reinstatement works, wingwall foundation concrete works, formwork panel installation, deliveries, viaduct works, landscaping, operation and maintenance of site access and mass haul road, and water management works were underway.
- Noise and vibration were undertaken in the vicinity of Chesham Road worksite (ref.: CHSM) where fencing works, tarmac repairs, seeding, habitat installations, lift commissioning works, and mechanical, electrical and plumbing enabling works were underway.
- Noise and vibration were undertaken in the vicinity of Chalfont St Giles Vent Shaft worksite (ref.: CSG) where compound footing works, lift commissioning works and mechanical, electrical and plumbing enabling works were underway.
- Noise and vibration were undertaken in the vicinity of Rocky Lane Embankment worksite (ref.: RLE) where culvert waterproofing works, in-situ concrete works, and surface repair works were underway.
- Noise and vibration were undertaken in the vicinity of Woodlands worksite (ref.: WDL) where structure works and earthworks were underway.
- Noise and vibration were undertaken in the vicinity of Nash Lee Lane worksite (ref.: NLL) where trimming, capping, steel fixing, concrete pours, noise barrier piling and waterproofing works were underway.

- Noise and vibration were undertaken in the vicinity of Wendover Dean Viaduct worksite (ref.: WDV) where installation of the roof slabs, and installation of the penstock and hydro brake works were underway.
- Noise and vibration were undertaken in the vicinity of Waddesdon worksite (ref.: WAD) where pouring blinding for base slab, fix base slab, install reinforcement for abutments, aggregate deliveries and earthworks were underway
- Noise and vibration were undertaken in the vicinity of Moat Farm Worksite (ref.: MF) where earthworks, overbridge works, concreting works, waterproofing and earthworks were underway.
- Noise and vibration were undertaken in the vicinity of Thame Valley Viaduct worksite (ref.: TVV) where parapet wall installation works, fixing base slab, transition slab works, deck finishing works, waterproofing works and robust kerb works were underway.
- Noise and vibration were undertaken in the vicinity of South Heath worksite (ref.: SH) where earthworks, landscaping, overbridge works, drainage works and water management works were underway.
- Noise and vibration were undertaken in the vicinity of A422 Turweston North worksite (ref.: A422 TN) where overbridge works, operation and maintenance of site access and mass haul road, utility installations, and water management activities were underway.
- Noise and vibration were undertaken in the vicinity of Hermitage worksite (ref.: HC) where batter reinstatement, road realignment utility installation works, tarmac removals, operation and maintenance of site access and mass haul road and water management works were underway.
- Noise and vibration were undertaken in the vicinity of School End worksite (ref.: SE) where cutting plug removal works, construction of piling platform, landscaping, operation and maintenance of site access and mass haul road and water management works were underway.
- Noise and vibration were undertaken in the vicinity of Calvert worksite (ref.: CAL) where structure works and earthworks were underway.
- Noise and vibration were undertaken in the vicinity of Quainton worksite (ref.: QAR) where structure works and earthworks were underway.
- Noise and vibration were undertaken in the vicinity of North Portal worksite (ref.: NP) where porous portal works, north portal building works, piling platform reinstatement works, earthworks and water management works were underway.
- Noise and vibration were undertaken in the vicinity of Wendover Green Tunnel worksite (ref.: WGT) where saw cutting and breaking out blinding works, blockwork for retaining wall and tarmac and concrete removal works were underway.

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

- Whielden Lane where habitat installation, seeding, lift commissioning works and mechanical, electrical and plumbing enabling works were underway.
- Calvert where earthworks were underway.
- Sheephouse wood where structure 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 eight (8) 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
L <sub>Aeq,T</sub>	See equivalent continuous sound pressure level.
Ambient Sound	A description of the all-encompassing sound at a given location and time which will include sound from many sources near and far. Ambient sound can be quantified in terms of the equivalent continuous sound pressure level, L <sub>pAeq,T</sub>
Decibel(s), or dB	Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
Decibel(s) A-weighted, or dB(A)	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dB(A)'.
Equivalent continuous sound pressure level, or L <sub>Aeq,T</sub>	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 Buckinghamshire Council (BC) area for the period 1-30 April 2026.

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

- Little Missenden Vent Shaft worksite, Ref.: LM (See plan 9 in Appendix A), where work activities included:
  - Commissioning works
  - Mechanical, electrical and plumbing enabling works
- West Street Overbridge worksite, Ref.: WSO (See plan 2 in Appendix A), where work activities included:
  - Structure works
- Aylesbury Golf Course worksite, Ref.: GC (See plan 6 in Appendix A), where work activities included:
  - Utilities
  - Landscaping
  - Earthworks
- Chalfont St Peter Vent Shaft worksite, Ref.: CSP (See plan 12 in Appendix A), where work activities included:
  - Headhouse external works
  - Landscaping
  - Demobilisation
  - Water management
- Twyford worksite, Ref.: TW (See plan 2 in Appendix A), where work activities included:
  - Cutting- Reinstatement of batter toes
  - Wingwall foundation concrete
  - Formwork panel installation
  - Deliveries
  - Viaduct works including robust kerb, concreting, noise barrier wingwall

- concreting and cheek wall concreting
  - Landscaping
  - Operation and maintenance of site access and mass haul road
  - Water management / pumping activities
- Chesham Road worksite, Ref.: CHSM (See plan 8 in Appendix A), where work activities included:
  - Fencing works
  - Tarmac repair
  - Seeding
  - Habitat installations
  - Lift commissioning works
  - Mechanical, electrical and plumbing enabling works
- Chalfont St Giles Vent Shaft worksite, Ref.: CSG (See plan 11 in Appendix A), where work activities included:
  - Compound footings
  - Lift commissioning works
  - Mechanical, electrical and plumbing enabling works
- Rocky Lane Embankment worksite, Ref.: RLE (See plan 7 in Appendix A), where work activities included:
  - Culvert waterproofing works
  - In-situ concrete works
  - Continued surface repairs
- Woodlands worksite, Ref.: WDL (See plan 4 in Appendix A), where work activities included:
  - Structure works
  - Earthworks
- Nash Lee Lane worksite, Ref.: NLL (See plan 6 in Appendix A), where work activities included:
  - Trimming
  - Capping
  - Steel fixing
  - Concrete pours
  - Noise barrier piling
  - Waterproofing
- Wendover Dean Viaduct worksite, Ref.: WDV (See plan 7 in Appendix A), where work activities included:
  - Installation of the roof slabs
  - Installation of the penstock and hydro brake
- Waddesdon worksite, Ref.: WAD (See plan 5 in Appendix A), where work activities included:
  - Pouring blinding for base slab
  - Fix Base Slab
  - Install reinforcement for abutments
  - Quainton Railhead (aggregate deliveries)
  - Earthworks
- Moat Farm Worksite ref.: MF See plan 6 in Appendix A), where work activities

included:

- Earthworks
- Overbridge works
- Concreting works
- Waterproofing
- Earthworks
- Thame Valley Viaduct worksite, Ref.: TVV (See plan 5 in Appendix A), where work activities included:
  - Parapet wall installation
  - Fixing base slab
  - transition slab FSC
  - Deck finishing works
  - Waterproofing works
  - Robust kerb works
- South Heath worksite, Ref.: SH (See plan 8 in Appendix A), where work activities included:
  - Earthworks
  - Landscaping
  - Overbridge works
  - Drainage works
  - Water management
- A422 Turweston North worksite, Ref.: A422 TN (See plan 1 in Appendix A), where work activities included:
  - Overbridge works including surfacing, topsoiling and seeding
  - Operation and maintenance of site access and mass haul road
  - Utility installations
  - Water management activities
- Hermitage worksite, Ref.: HC (See plan 2 in Appendix A), where work activities included:
  - Batter reinstatement
  - Road Realignment - utility installation
  - Tarmac removals
  - Operation and maintenance of site access and mass haul road
  - Water management / pumping activities
- School End worksite, Ref.: SE (See plan 2 in Appendix A), where work activities included:
  - Cutting plug removal
  - Construction of platform for sheet pile rig
  - Landscaping
  - Operation and maintenance of site access and mass haul road
  - Water management / pumping activities
- Calvert worksite Ref.: CAL (See plan 3 in Appendix A), where work activities included:
  - Structure works
  - Earthworks
- Quanton worksite, Ref.: QAR (See plan 4 in Appendix A), where work activities included:

- Structure works
- Earthworks
- North Portal worksite, Ref.: NP (See plan 8 in Appendix A), where work activities included:
  - Porous portal works
  - North portal building
  - Piling platform reinstatement
  - Earthworks
  - Water management
- Wendover Green Tunnel worksite, Ref.: WGT (See plan 7 in Appendix A), where work activities included:
  - Saw cutting and breaking out blinding works
  - Blockwork for retaining wall
  - Tarmac and concrete removal in preparation for the realignment works

1.1.3 Further works, where monitoring did not take place, were also undertaken at:

- Whielden Lane where habitat installation, seeding, lift commissioning works and mechanical, electrical and plumbing enabling works were underway
- Calvert where earthworks were underway
- Sheephouse wood where structure works were underway

1.1.4 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 30 noise and 8 vibration monitoring installations were active in April in the Buckinghamshire Council area. Tables 2a and 2b summarise the position of noise and vibration monitoring installations within the Buckinghamshire Council area in April 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
NP	BFH-NMP1	Bury Farm, Great Missenden
	BLH-NMP1	4 Bayleys Hatch, South Heath, Great Missenden
	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath
WGT	BL-NMP1	Bacombe Lane, Wendover
	ER-NMP1	Ellesborough Rd, Wendover
	WGT-NMP1	Wendover, Aylesbury
	WC-NMP1	Wendover compound, Wendover, Aylesbury
CSG	CSG-NMP1	Chalfont St Giles, Align JV Site, Bottom House Farm Lane
CSP	CSP-NMP2	Chalfont St Peter, ALIGN JV Site, Chesham Lane

CAL	FCC-NMP1	Calvert South
	SHC-NMP1	School Hill Compound, Calvert
GC	GC-NMP1	Aylesbury, Buckinghamshire
HC	HC-NMP1	Hermitage, Chetwode
SH	HHF-NMP1	Hammonds Hall Farm, Potter Row, South Heath
	PKF-NMP1	Park Farm, South Heath, Great Missenden
LM	LM-NMP1	Little Missenden, Align JV Site, A413, Amersham, HP7 0RQ
CHSM	MDL-NMP1	Meadow Leigh cottage, Frith Hill, South Heath
MF	MF-NMP1	Moat Farm, Marsh Lane
RLE	NCAS6-NMP1	Chesham Lane, The Lee, Wendover
NLL	NLL-NMP2	Nash Lee Lane, Nash Lee
QAR	QAR-NMP2	Station Road, Quainton
	LSF-NMP1	Upper South Farm
SE	SE-NMP1	School End, Chetwode
A422 TN	TN-NMP1	Turweston North, Brackley
TVV	TVV-NMP1	Aylesbury, Buckinghamshire
TW	TW-NMP1	Twyford, Buckinghamshire
WAD	WAD-NMP2	Waddesdon, Buckinghamshire
WDL	WDL-NMP1	Woodlands Farmhouse, Station Rd, Quainton
WDV	WDV-NMP1	Upper Wendover Dean Farm, A413, Wendover
WSO	WSO-NMP1	West Street, Twyford

Table 2b: Vibration Monitoring Locations

Worksite Reference	Measurement Reference	Address
CAL	BRA-Vib1	13 Brackley Lane, Calvert Village
WGT	ER-Vib1	Ellesborough Rd, Wendover
WSO	PF-Vib1	Twyford, Buckinghamshire
SE	SE-Vib1	School End, Chetwode
QAR	SR-Vib1	Station Road, Quainton
WDL	WC-Vib1	Quainton, Buckinghamshire
	WDL-Vib1	Station Road, Quainton

# 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
NP	BFH-NMP1	Bury Farm, Great Missenden	Free field	46.3 (55.9)	50.0 (64.4)	46.4 (60.2)	43.2 (52.2)	42.1 (56.4)	46.1 (51.9)	46.3 (48.8)	47.8 (50.0)	47.0 (52.8)	44.2 (56.5)	46.8 (56.4)	42.8 (54.5)
	BLH-NMP1	Bayleys Hatch South Heath	Free field	49.2 (51.5)	52.0 (58.6)	50.8 (64.7)	48.2 (56.3)	40.5 (53.9)	48.9 (50.4)	51.5 (55.5)	52.1 (57.6)	53.1 (61.7)	43.6 (53.3)	50.2 (57.9)	40.3 (52.7)
	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath	Free field	45.4 (51.8)	54.1 (60.2)	56.8 (64.6)	46.6 (63.5)	42.3 (50.3)	44.3 (46.9)	54.3 (60.7)	48.5 (52.8)	50.8 (64.2)	43.2 (52.0)	47.1 (54.0)	41.6 (49.8)
WGT	BL-NMP1	Bacombe Lane, Wendover	Free field	47.2 (49.4)	47.9 (51.3)	45.2 (48.3)	44.1 (55.1)	41.5 (48.9)	44.2 (44.9)	44.5 (45.4)	44.2 (45.5)	46.2 (57.3)	40.9 (44.6)	44.3 (48.2)	41.3 (49.2)
	ER-NMP1	Ellesborough Rd, Wendover	Free field	55.8 (58.0)	54.2 (56.9)	53.9 (56.9)	52.4 (55.8)	50.1 (58.2)	51.2 (55.5)	53.5 (56.2)	53.4 (56.7)	53.5 (57.1)	49.8 (53.9)	54.1 (73.6)	48.6 (58.2)
	WGT-NMP1	Wendover, Aylesbury	Free field	49.9 (55.7)	50.7 (59.8)	49.2 (60.2)	46.6 (53.9)	45.1 (55.6)	49.0 (54.1)	50.0 (55.8)	50.1 (52.9)	50.8 (54.7)	46.7 (55.2)	50.0 (57.0)	46.6 (57.2)
	WC-NMP1	Wendover compound, Wendover, Aylesbury	Free field	67.6 (68.5)	66.2 (67.8)	65.9 (68.2)	62.9 (66.3)	60.7 (72.5)	63.0 (63.8)	65.4 (66.6)	65.2 (67.1)	65.2 (69.1)	60.0 (65.3)	64.4 (69.2)	60.6 (70.1)
CSG	CSG-NMP1	Chalfont St Giles, Align JV Site, Bottom House Farm Lane	Free field	50.7 (54.0)	50.9 (53.3)	48.5 (55.5)	49.5 (61.5)	41.2 (53.6)	51.8 (55.8)	51.0 (52.9)	45.3 (45.3)	48.5 (54.5)	46.3 (53.8)	50.7 (61.5)	43.2 (54.4)
CSP	CSP-NMP2	Chalfont St Peter, ALIGN JV Site, Chesham Lane	Free field	48.0 (54.3)	49.1 (61.7)	44.5 (47.8)	43.8 (49.9)	41.0 (50.8)	43.9 (45.1)	45.6 (47.4)	46.4 (46.4)	45.0 (49.2)	38.7 (45.7)	46.7 (50.2)	39.4 (46.6)
QAR	QAR-NMP2	Station Road, Quainton	Free field	48.4 (62.5)	50.3 (64.4)	49.1 (61.2)	44.4 (57.1)	42.9 (63.5)	44.7 (47.0)	47.8 (50.5)	49.1 (51.9)	48.1 (53.9)	44.5 (55.4)	48.0 (54.1)	42.5 (52.1)
	LSF-NMP1	Upper South Farm	Free field	55.0 (59.8)	61.3 (70.8)	46.2 (53.1)	41.6 (47.0)	40.9 (50.2)	49.0 (54.1)	62.0 (76.5)	59.4 (79.5)	57.1 (78.5)	43.9 (59.8)	56.7 (78.3)	40.6 (47.8)
CAL	FCC-NMP1	Calvert South	Free field	59.2 (63.4)	59.2 (60.6)	45.8 (51.7)	42.7 (49.3)	42.8 (56.6)	51.3 (52.2)	50.6 (57.1)	52.4 (59.2)	48.7 (58.1)	44.3 (54.2)	44.8 (52.7)	42.2 (51.2)
	SHC-NMP1	School Hill Compound, Calvert	Free field	56.8 (59.9)	61.2 (71.7)	54.8 (69.6)	50.7 (67.0)	48.7 (64.1)	56.0 (61.5)	63.4 (65.9)	62.4 (69.0)	59.3 (71.0)	55.0 (73.1)	55.0 (70.5)	46.5 (53.0)
HC	HC-NMP1	Hermitage, Chetwode	Free field	55.3 (61.6)	57.4 (59.2)	46.2 (56.2)	41.2 (54.6)	41.3 (55.5)	49.6 (53.5)	52.2 (55.6)	55.9 (62.7)	51.5 (61.7)	45.9 (59.5)	46.3 (54.8)	40.9 (49.8)
LM	LM-NMP1	Little Missenden,	Free field	54.3	54.6	55.3	53.3	46.8	50.3	53.1	51.8	53.4	47.2	52.4	46.3

		Align JV Site, A413, Amersham		(58.0)	(58.8)	(59.0)	(58.7)	(52.7)	(51.6)	(54.5)	(51.8)	(56.9)	(51.2)	(57.0)	(52.8)
CHSM	MDL-NMP1	Meadow Leigh Cottage, Frith Hill, South Heath	Free field	55.6 (60.2)	56.8 (62.9)	55.6 (60.2)	53.9 (59.5)	47.6 (61.3)	53.3 (59.2)	55.2 (57.7)	53.7 (55.3)	54.5 (58.7)	50.3 (60.0)	54.6 (61.1)	45.5 (56.0)
MF	MF-NMP1	Moat Farm, Marsh Lane	Free field	50.6 (56.7)	62.3 (65.7)	49.9 (57.3)	47.8 (59.3)	44.3 (53.5)	53.0 (54.4)	52.5 (61.0)	53.6 (59.6)	53.0 (62.5)	45.7 (56.0)	49.1 (55.8)	45.5 (53.8)
RLE	NCAS6-NMP1	Chesham Lane, The Lee, Wendover	Free field	52.0 (54.6)	56.2 (59.9)	50.3 (53.5)	48.1 (56.2)	44.7 (52.3)	49.4 (51.2)	51.9 (56.3)	53.0 (57.5)	52.3 (57.8)	48.1 (58.1)	49.9 (55.3)	44.0 (52.3)
NLL	NLL-NMP2	Nash Lee Lane, Nash Lee	Free field	54.1 (63.9)	57.1 (58.9)	52.3 (55.6)	49.4 (53.5)	46.7 (56.1)	50.5 (51.4)	51.3 (56.4)	51.8 (57.5)	51.3 (56.1)	47.7 (54.0)	49.8 (60.2)	47.0 (55.4)
SE	SE-NMP1	School End, Chetwode	Free field	56.6 (64.5)	59.2 (61.7)	52.8 (55.8)	51.4 (54.0)	51.2 (57.1)	53.2 (54.5)	54.5 (56.0)	56.7 (61.4)	53.9 (60.0)	53.4 (62.6)	52.6 (58.3)	51.6 (52.7)
A422 TN	TN-NMP1	Turweston North, Brackley	Free field	51.0 (54.0)	51.4 (56.9)	48.0 (50.7)	47.4 (52.2)	46.9 (54.5)	49.4 (49.9)	50.4 (51.7)	49.9 (51.0)	49.3 (51.8)	47.5 (54.8)	49.3 (55.2)	46.9 (53.9)
TW	TW-NMP1	Twyford, Twyford	Free field	45.4 (56.2)	54.8 (62.0)	43.0 (52.3)	40.3 (53.1)	39.4 (45.2)	44.2 (44.9)	45.2 (47.8)	44.6 (47.4)	43.9 (50.5)	43.8 (56.6)	44.7 (51.4)	40.5 (49.1)
WDL	WDL-NMP1	Woodlands Farmhouse, Station Rd, Quinton	Free field	62.8 (72.1)	67.7 (76.2)	56.4 (75.8)	52.1 (75.2)	49.4 (70.1)	55.9 (70.3)	61.9 (71.9)	64.3 (72.4)	61.7 (71.9)	56.5 (78.7)	58.8 (78.5)	45.0 (61.2)
WDV	WDV-NMP1	A413, Wendover, Upper Wendover Dean Farm site boundary	Free field	53.5 (70.8)	58.4 (61.9)	47.7 (52.6)	45.3 (52.0)	44.6 (56.1)	50.0 (52.7)	54.7 (66.2)	51.9 (59.7)	51.3 (63.2)	45.4 (55.5)	49.4 (54.9)	45.3 (54.9)
WSO	WSO-NMP1	West Street, Twyford	Free field	44.0 (46.5)	51.8 (59.0)	42.2 (49.7)	39.7 (52.1)	38.2 (57.6)	46.1 (49.8)	44.7 (47.5)	44.4 (48.1)	43.3 (49.9)	40.4 (56.2)	43.5 (52.4)	39.4 (59.0)
TVV	TVV-NMP1	Aylesbury, Buckinghamshire	Free field	46.4 (49.4)	47.8 (52.8)	42.9 (47.9)	42.4 (56.8)	40.6 (53.0)	42.8 (50.2)	44.7 (48.3)	46.0 (48.8)	45.5 (50.2)	42.8 (53.4)	43.8 (50.4)	42.2 (54.1)
GC	GC-NMP1	Aylesbury, Buckinghamshire	Free field	47.1 (49.9)	53.3 (66.4)	44.8 (51.5)	43.3 (60.9)	41.6 (50.6)	45.5 (49.8)	45.2 (48.2)	45.6 (48.3)	45.7 (52.4)	42.7 (50.4)	45.0 (53.9)	43.1 (59.0)
WAD	WAD-NMP2	Waddesdon, Buckinghamshire	Free field	51.1 (60.3)	56.6 (60.6)	44.9 (50.3)	42.0 (48.8)	40.4 (49.4)	49.6 (54.3)	51.7 (55.3)	49.4 (50.9)	51.1 (60.7)	43.2 (55.8)	45.6 (51.5)	40.1 (48.6)
SH	HHF-NMP1	Hammonds Hall Farm, Potter Row, South Heath,	Free field	44.2 (48.5)	64.6 (67.3)	58.5 (66.8)	45.9 (59.8)	38.6 (47.1)	42.7 (45.7)	60.1 (66.4)	56.5 (65.1)	57.1 (65.7)	43.4 (58.9)	47.8 (56.7)	37.3 (45.2)
	PKF-NMP1	Park Farm, South Heath,	Free field	47.9 (57.4)	51.9 (56.5)	50.7 (54.6)	47.6 (56.4)	42.0 (51.8)	45.3 (45.9)	51.3 (55.4)	52.8 (55.6)	53.4 (59.6)	48.1 (64.5)	50.2 (60.8)	39.2 (49.1)

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
CAL	BRA-Vib1	13 Brackley Lane, Calvert Village	1.32 (Z-axis)
WGT	ER-Vib1	Ellesborough Rd, Wendover	124.45 (Y-axis)
WSO	PF-Vib1	Twyford, Buckinghamshire	1.94 (Y-axis)
SE	SE-Vib1	School End, Chetwode	2.19 (Y-axis)
QAR	SR-Vib1	Station Road, Quainton	2.67 (X-axis)
WDL	WC-Vib1	Quainton, Buckinghamshire	6.47 (Y-axis)
	WDL-Vib1	Station Road, Quainton	2.16 (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
A422 TN	TN-NMP1	Turweston, Brackley	Sunday	0700 - 2200	2	No exceedances
			Night	2200 - 0700	29	No exceedances
CHSM	MDL-NMP1	Meadow Leigh Cottage, Firth Hill, South Heath	Weekday	0700 - 0800 1800 - 1900	1 1	No exceedances No exceedances
CSG	CSG-NMP1	Chalfont St Giles Vent Shaft	All days	All periods	No exceedances	No exceedances
CSP	CSP-NMP2	Chalfont St Peter Vent Shaft	All days	All periods	No exceedances	No exceedances
CAL	FCC-NMP1	Calvert South	Weekday	0700 - 0800	10	No exceedances
			Saturday	1300 - 1400	1	No exceedances
	SHC-NMP1	School Hill Compound, Calvert	Weekday	0700 - 0800	6	No exceedances
				0800 - 1800	6	No exceedances
				1800 - 1900	7	No exceedances
			Saturday	0700 - 0800	1	No exceedances
0800 - 1300	2	No exceedances				
1300 - 1400	3	No exceedances				
GC	GC-NMP1	Aylesbury, Buckinghamshire	Weekday	0800 - 1800	3	No exceedances
HC	HC-NMP1	Hermitage, Chetwode	Weekday	0700 - 0800	1	No exceedances
			Saturday	1300 - 1400	1	No exceedances
LM	LM-NMP1	Little Missenden Vent Shaft Worksite	Weekday	1900 - 2200	3	No exceedances
MF	MF-NMP1	Moat Farm, Marsh Lane	Weekday	0800 - 1800	6	No exceedances
				1900 - 2200	1	No exceedances
			Saturday	1300 - 1400	1	No exceedances
				Night	2200 - 0700	12
NLL	NLL-NMP2	Nash Lee Lane, Nash Lee	Weekday	0700 - 0800	1	No exceedances
NP	BFH-NMP1	Bury Farm, Great Missenden	Weekday	0800 - 1800	1	No exceedances
				1800 - 1900	1	No exceedances
			Sunday	0700 - 2200	2	No exceedances
	BLH-NMP1	Bayleys Hatch, South Heath, Great Missenden	Weekday	1800 - 1900	1	No exceedances
				Saturday	1400 - 2200	3
			Sunday	0700 - 2200	3	No exceedances
	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath	Weekday	1800 - 1900	7	1
1900 - 2200				3	No exceedances	
Saturday			1400 - 2200	2	1	

QAR	QAR-NMP2	Station Rd, Quainton	Weekday	0700 - 0800	1	No exceedances
			0800 - 1800	1	No exceedances	
			1800 - 1900	1	No exceedances	
	LSF-NMP1	Upper South Farm	Weekday	0700 - 0800	2	No exceedances
0800 - 1800			5	No exceedances		
Saturday			0800 - 1300	2	1	
			1300 - 1400	1	1	
RLE	NCAS6-NMP1	Chesham Lane, The Lee, Wendover	All days	All periods	No exceedances	No exceedances
SE	SE-NMP1	School End, Chetwode	Weekday	0700 - 0800	2	No exceedances
			Saturday	1300 - 1400	1	No exceedances
				1400 - 2200	4	No exceedances
			Sunday	0700 - 2200	5	No exceedances
SH	HHF-NMP1	Hammonds Hall Farm, Potter Row, South Heath	Weekday	0800 - 1800	16	No exceedances
			1800 - 1900	13	No exceedances	
			Saturday	0800 - 1300	2	No exceedances
				1300 - 1400	1	No exceedances
				1400 - 2200	4	2
	Sunday	0700 - 2200	3	No exceedances		
PKF-NMP1	Park Farm, South Heath	Saturday	1400 - 2200	3	No exceedances	
		Sunday	0700 - 2200	3	No exceedances	
TVV	TVV-NMP1	Aylesbury, Buckinghamshire	All days	All periods	No exceedances	No exceedances
TW	TW-NMP1	Twyford, Buckinghamshire	Night	2200 - 0700	8	No exceedances
WAD	WAD-NMP2	Waddesdon, Buckinghamshire	Weekday	0700 - 0800	2	No exceedances
WDL	WDL-NMP1	Woodlands Farmhouse, Station Rd, Quainton	Weekday	0700 - 0800	19	No exceedances
			0800 - 1800	19	1	
			1800 - 1900	9	1	
			Saturday	0700 - 0800	1	No exceedances
				0800 - 1300	1	No exceedances
				1300 - 1400	4	No exceedances
WDV	WDV-NMP1	A413, Wendover	Weekday	0700 - 0800	3	No exceedances
			Saturday	0800 - 1300	1	No exceedances
				1300 - 1400	1	No exceedances
WGT	BL-NMP1	Bacombe Lane, Wendover	All days	All periods	No exceedances	No exceedances
	ER-NMP1	Ellesborough Rd, Wendover	All days	All periods	No exceedances	No exceedances
	WGT-NMP1	Wendover, Aylesbury	Weekday	1800 - 1900	1	No exceedances
	WC-NMP1	Wendover compound, Wendover, Aylesbury	Weekday	0700 - 0800	20	No exceedances
0800 - 1800			20	No exceedances		
1800 - 1900			18	No exceedances		

			Saturday	0700 - 0800	4	No exceedances
				0800 - 1300	3	No exceedances
				1300 - 1400	3	No exceedances
WSO	WSO-NMP1	West Street, Twyford	All days	All periods	No exceedances	No exceedances

2.2.6 There were exceedances of the LOAEL, during April 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
LSF	LSF-NMP1	Upper South Farm	1
NP	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath, Great Missenden, HP16 9QF	1
SH	HHF-NMP1	Hammonds Hall Farm, Potter Row, South Heath, Great Missenden, HP169LT	2
WDL	WDL-NMP1	Woodlands Farmhouse, Station Rd, Quainton	2
WGT	ER-NMP1	Ellesborough Rd, Wendover	1

## 2.3 Exceedances of Trigger Level

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

Table 7: Summary of Exceedances of Trigger Levels

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

## 2.4 Complaints

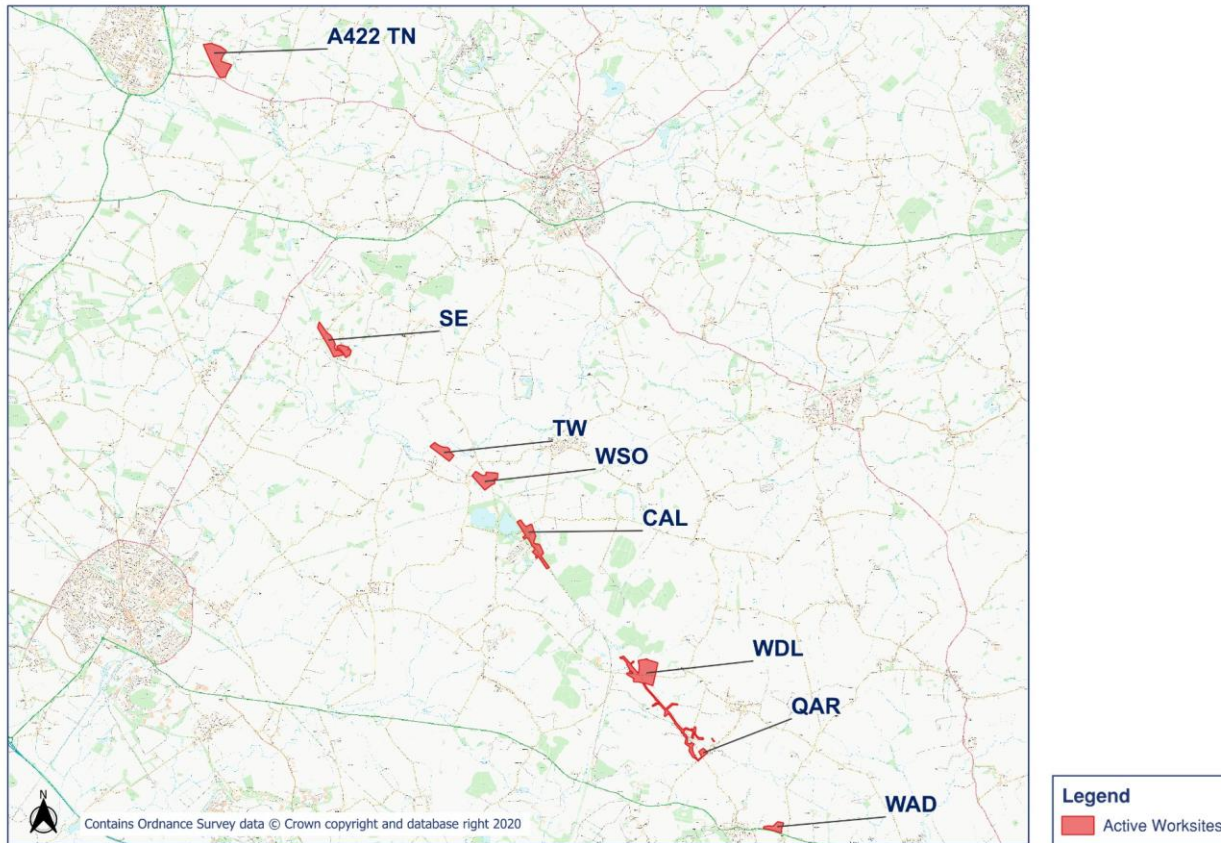
2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

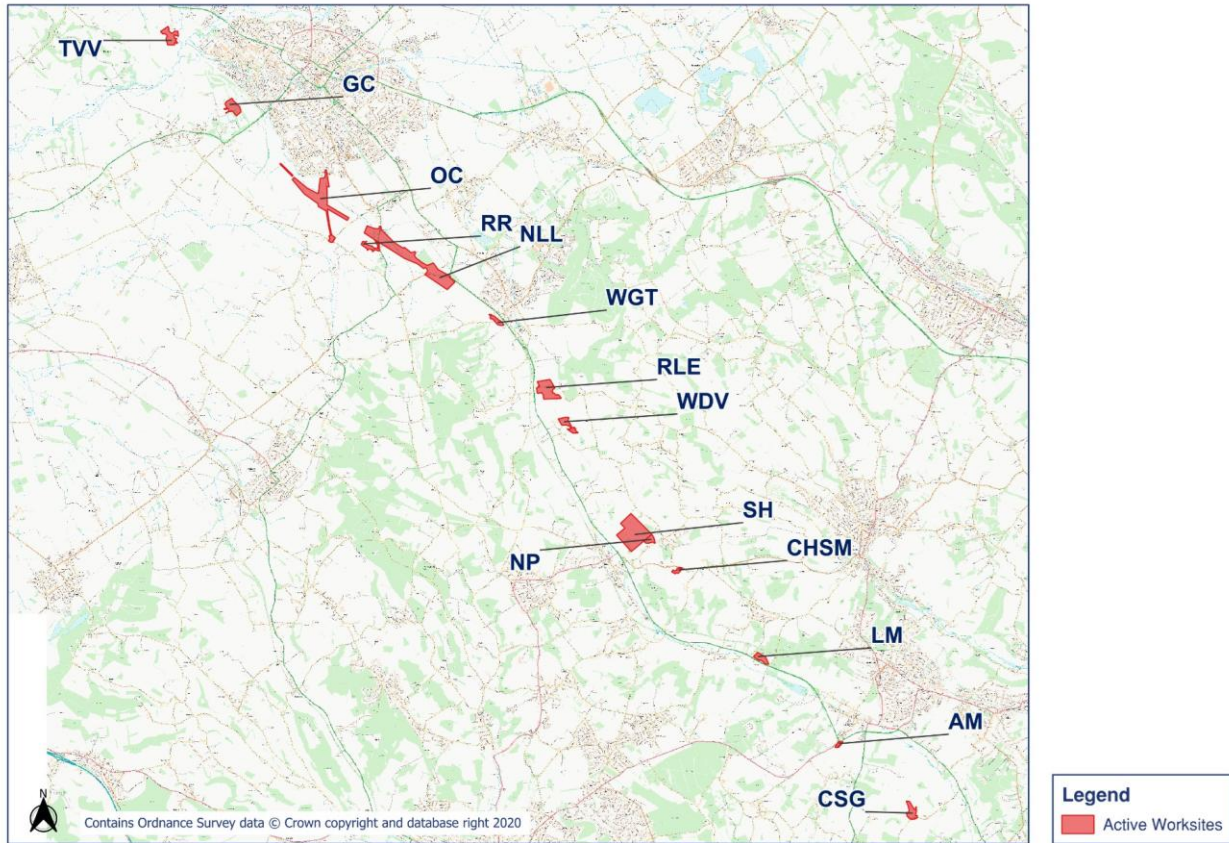
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
-	-	-	-	-

# Appendix A Site Locations

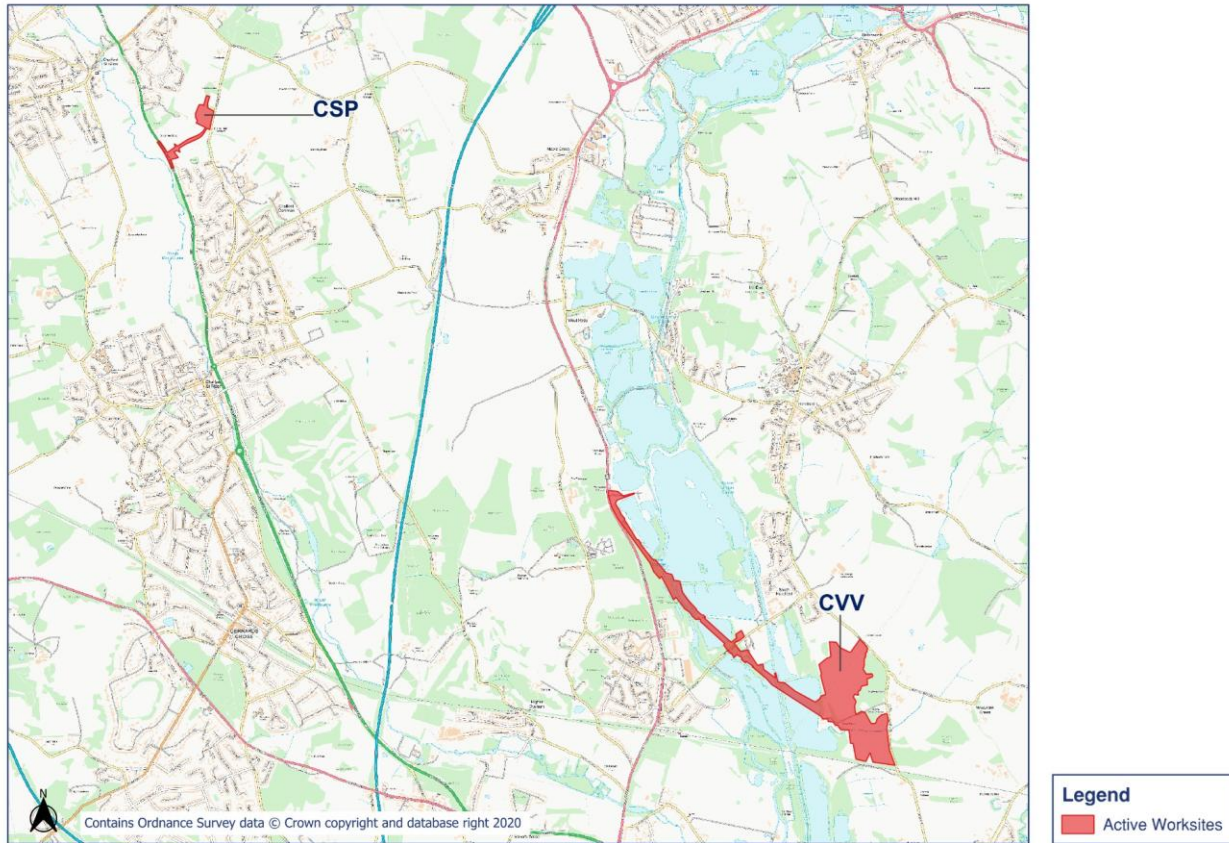
## HS2 Worksite Identification Plan - Overview 1

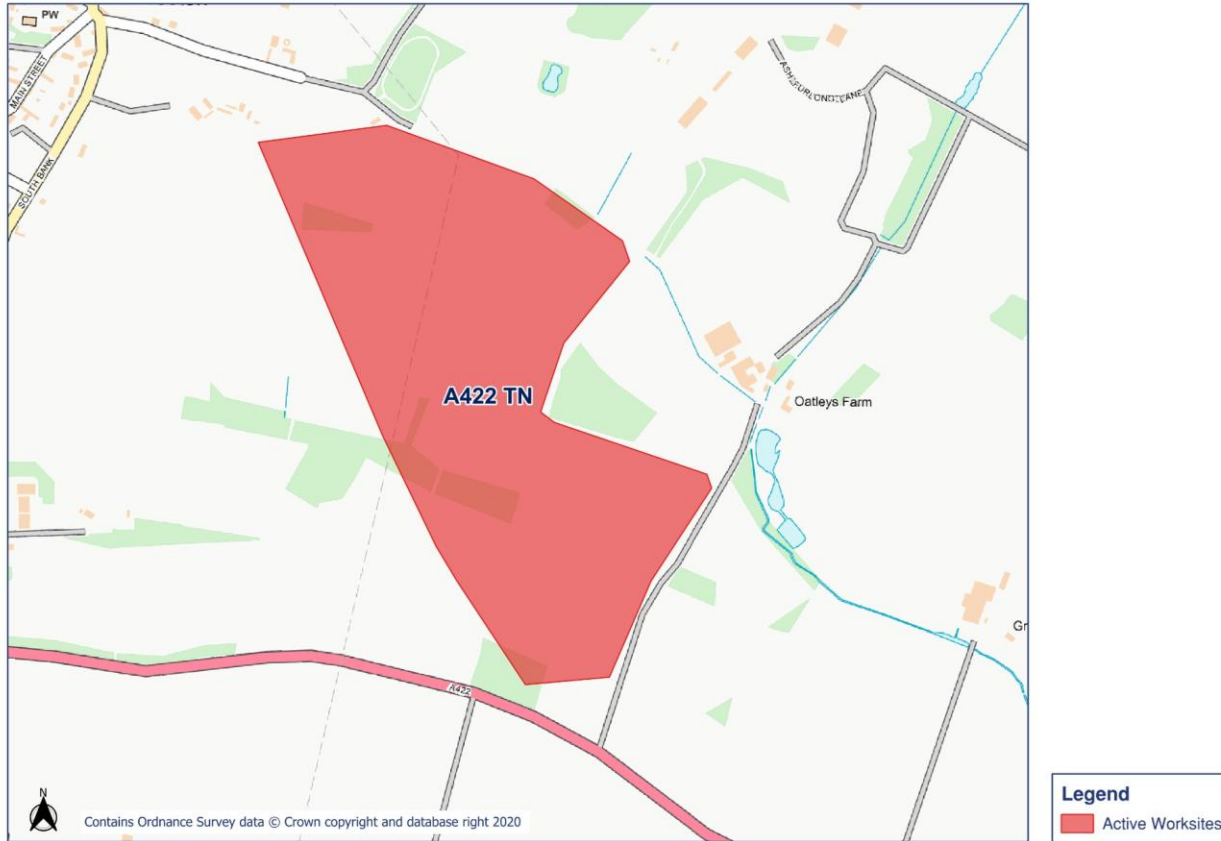


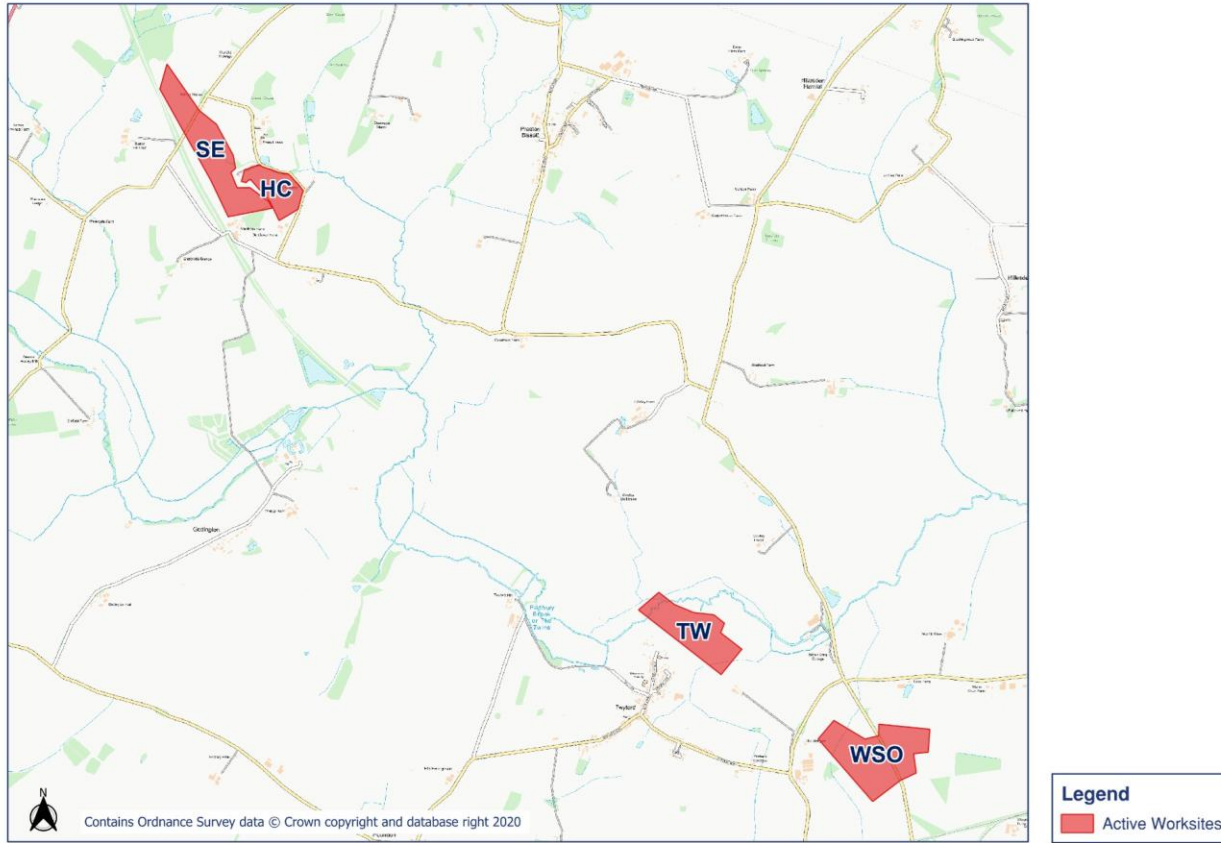
# HS2 Worksite Identification Plan - Overview 2

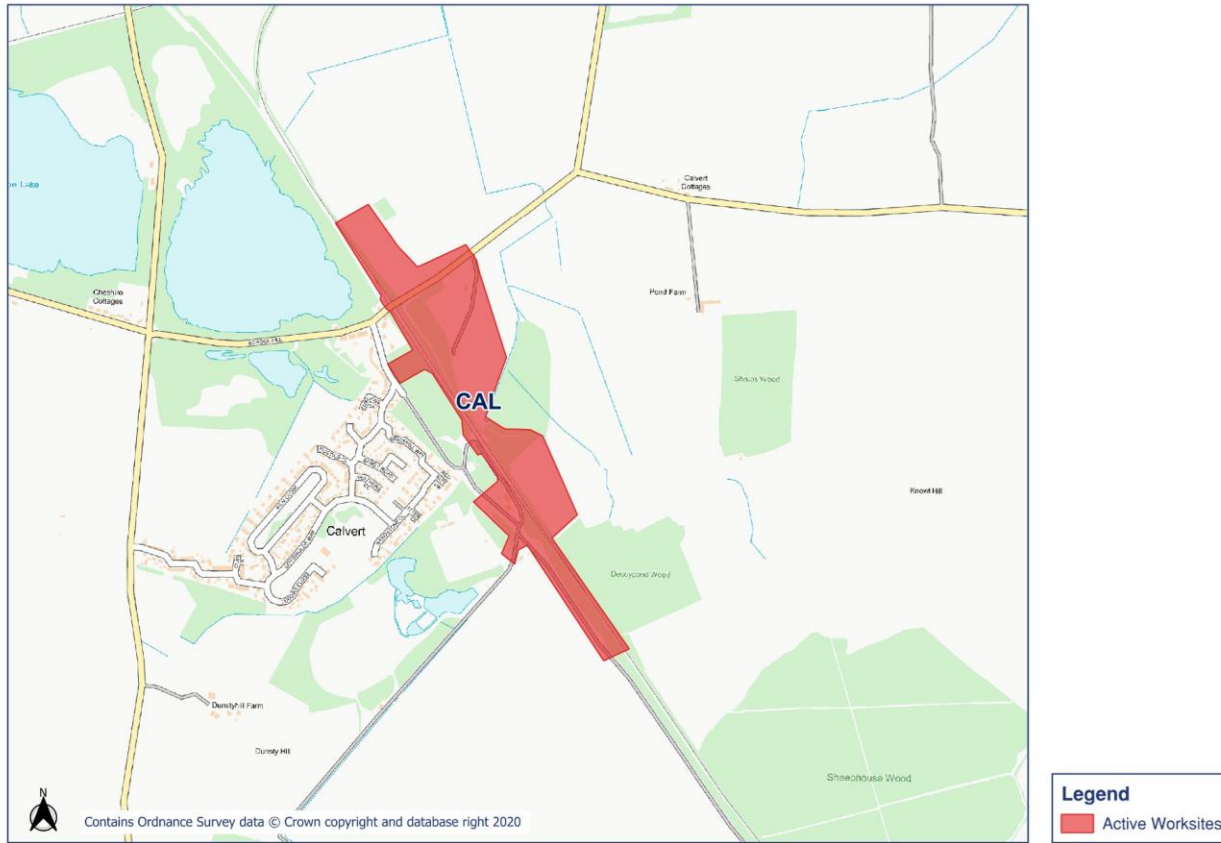


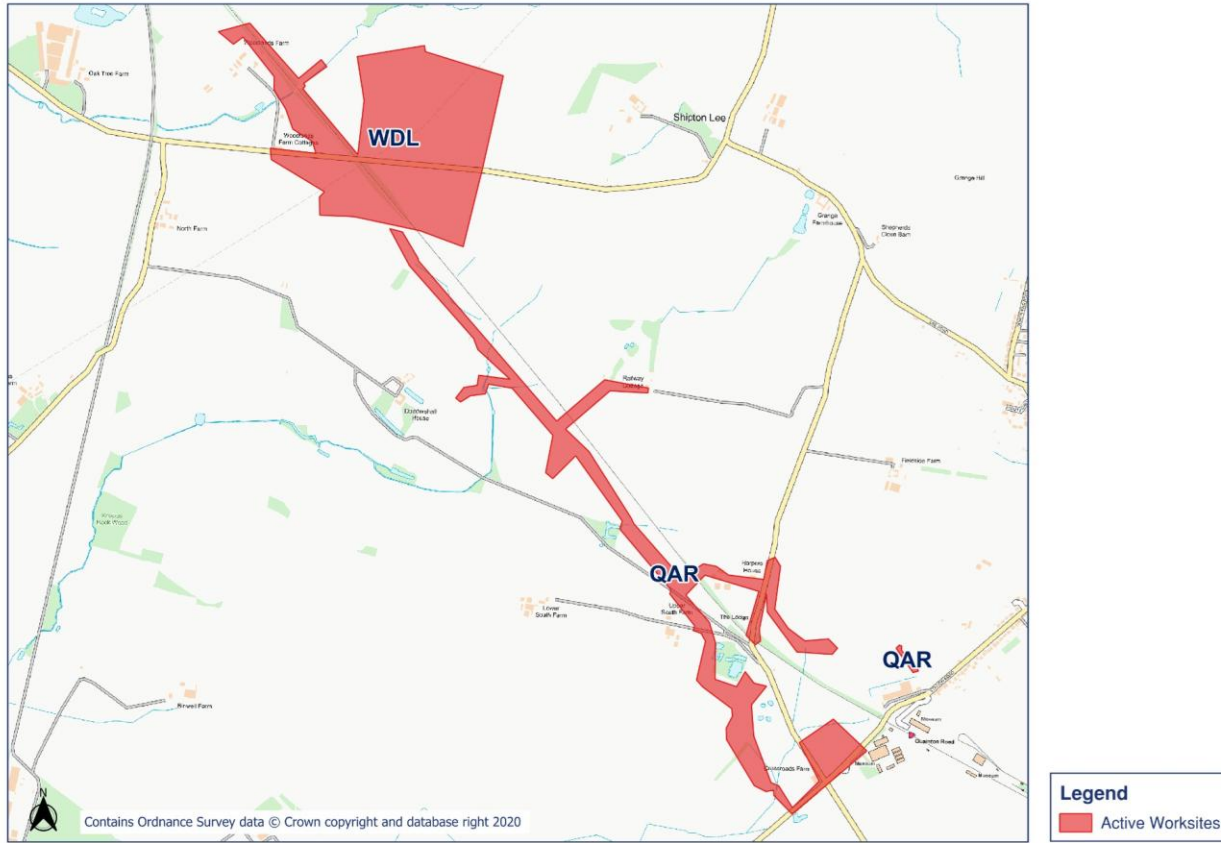
# HS2 Worksite Identification Plan - Overview 3

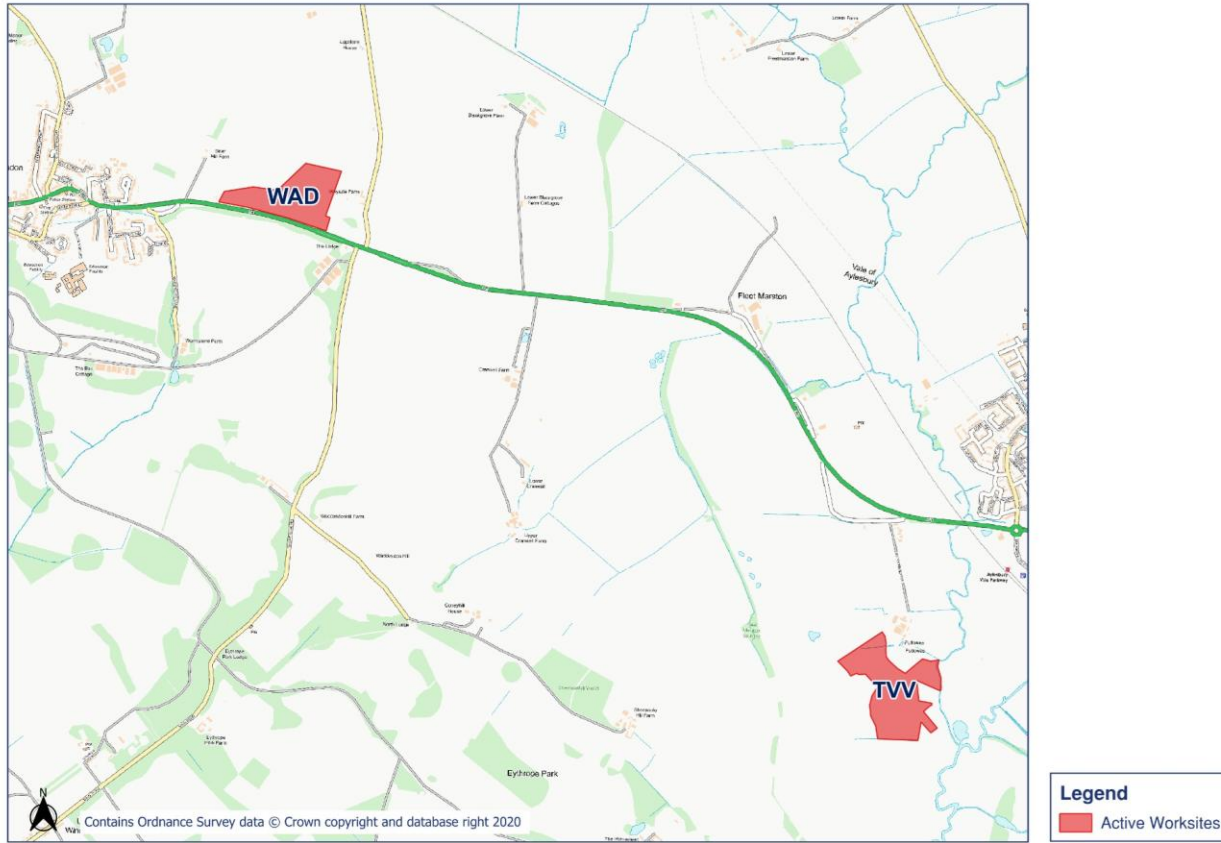


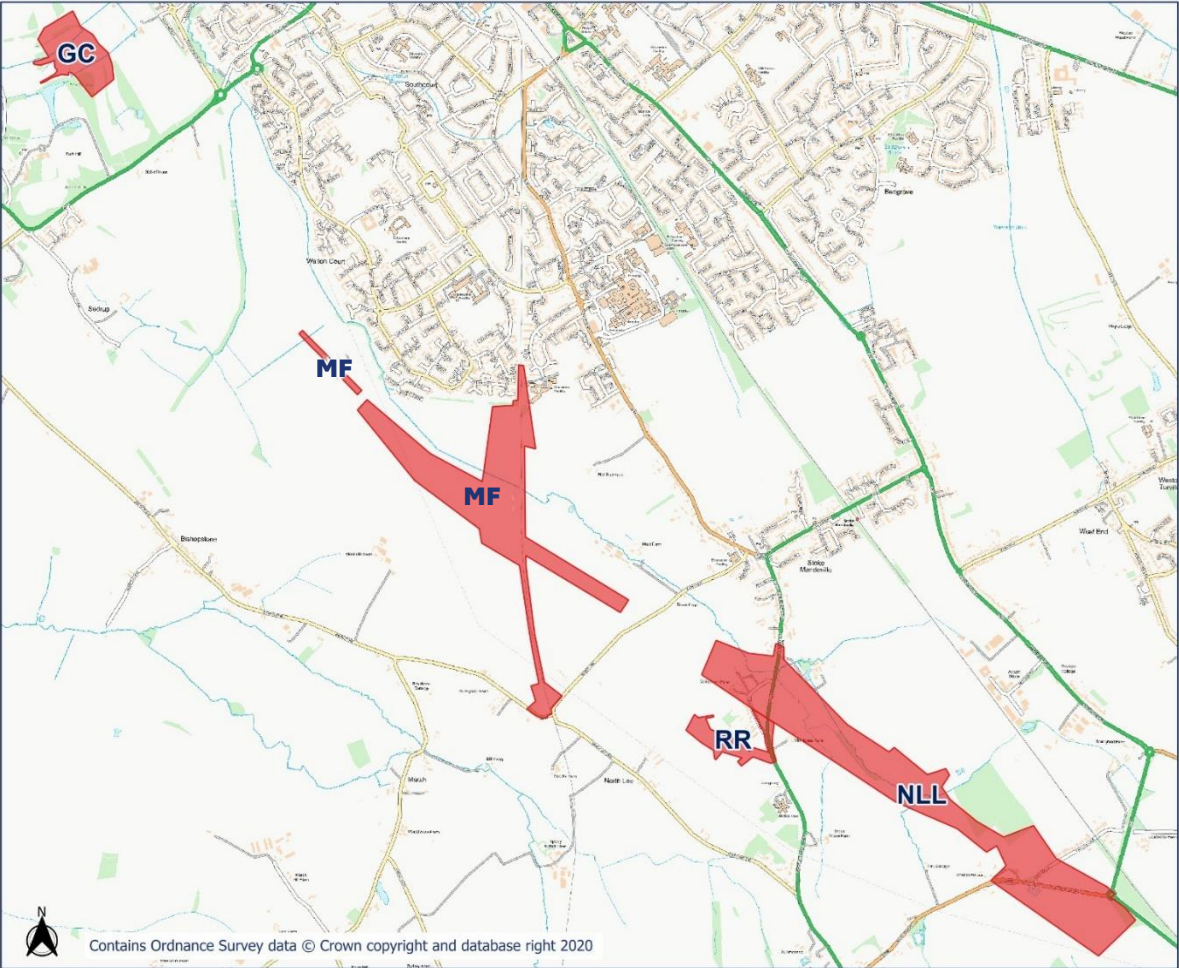


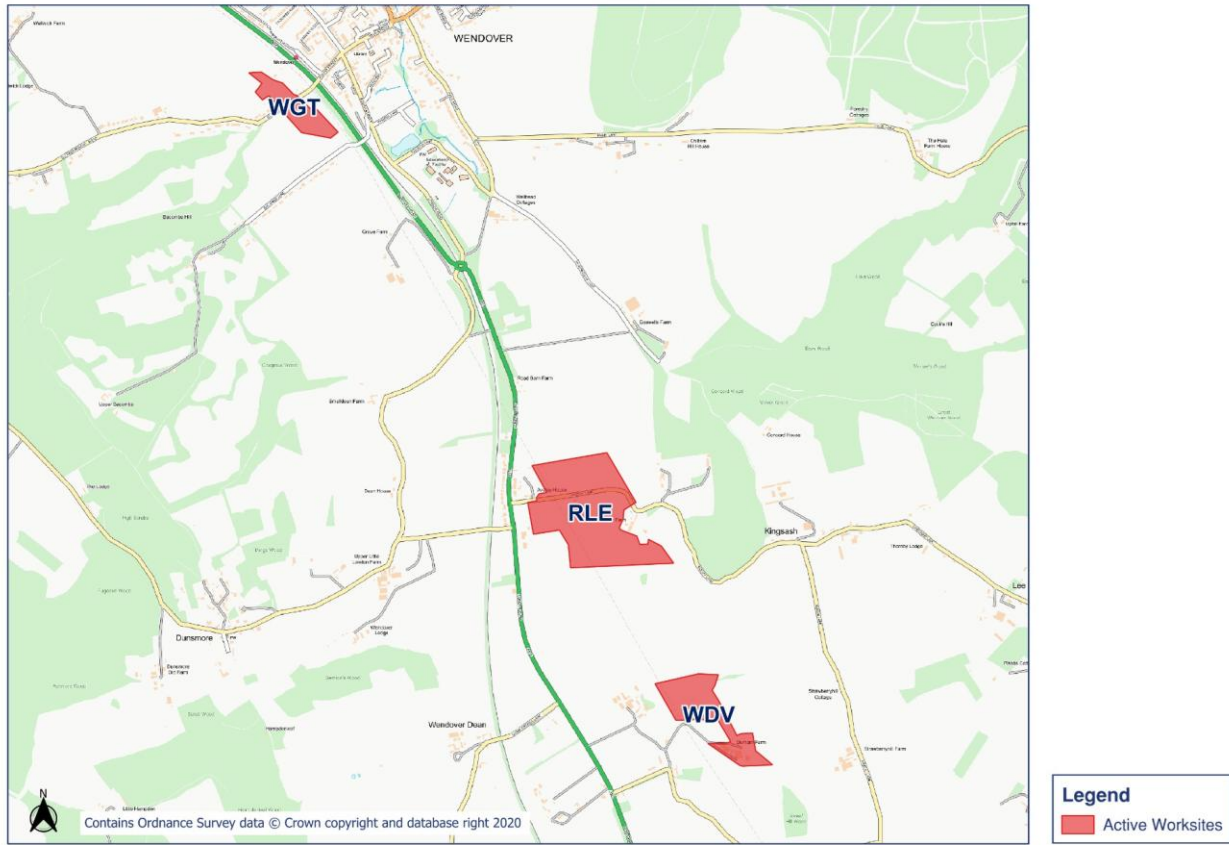


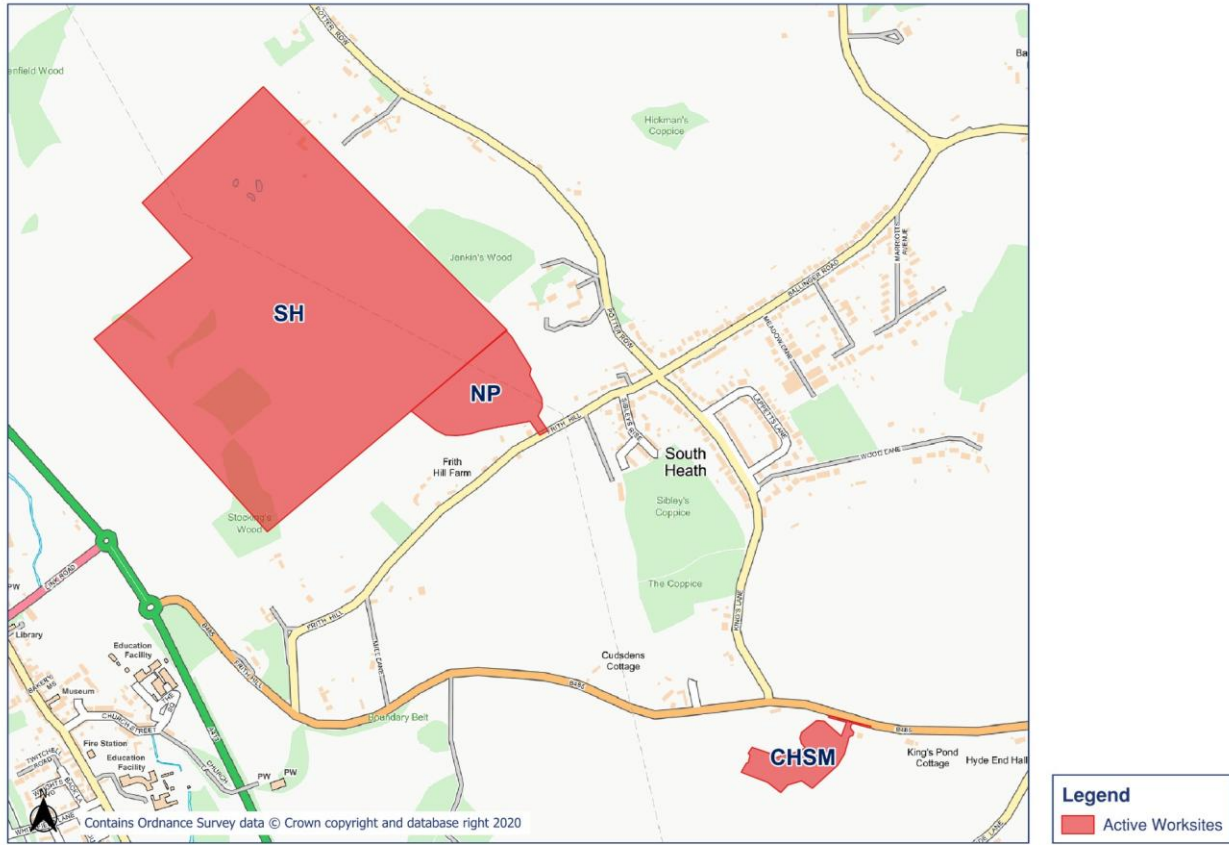








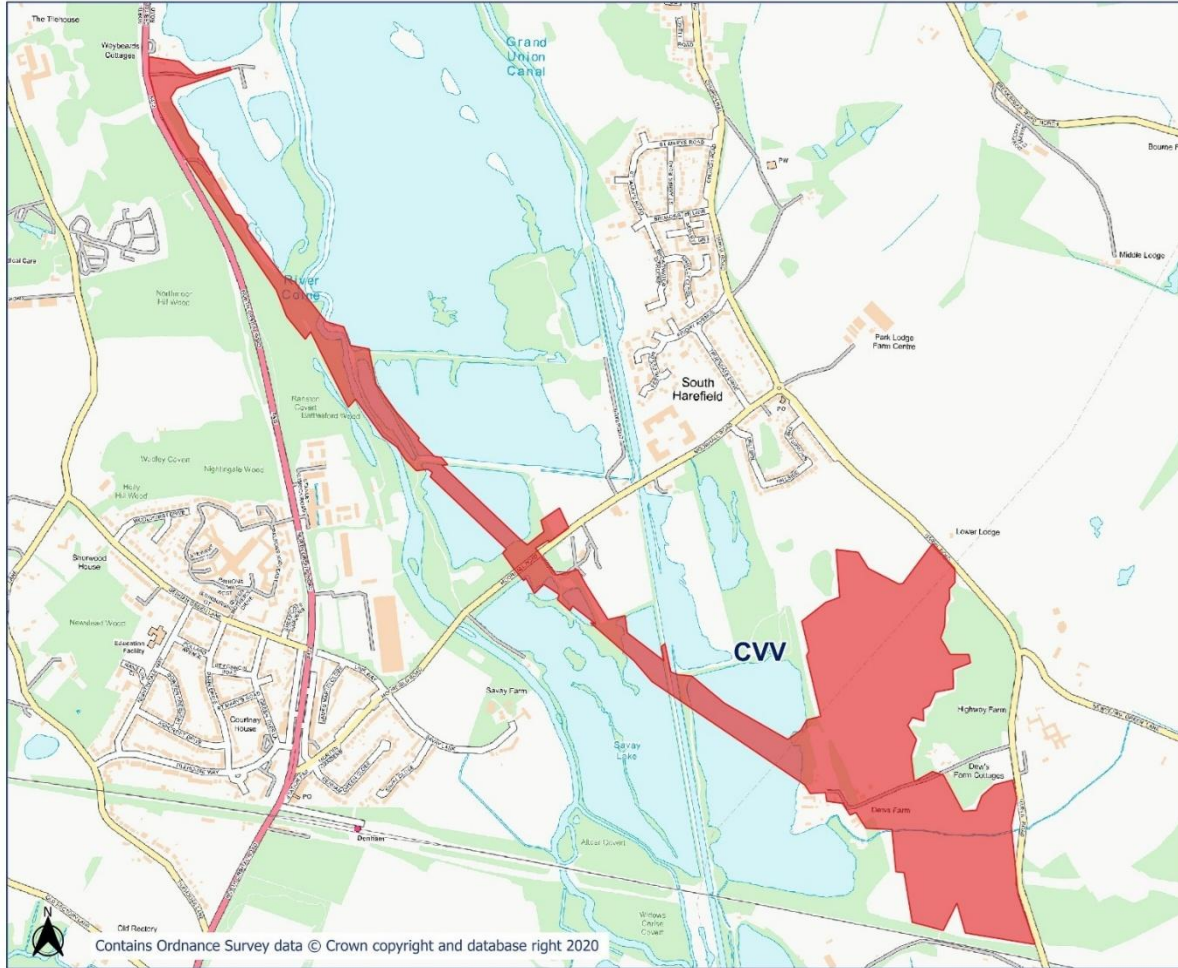






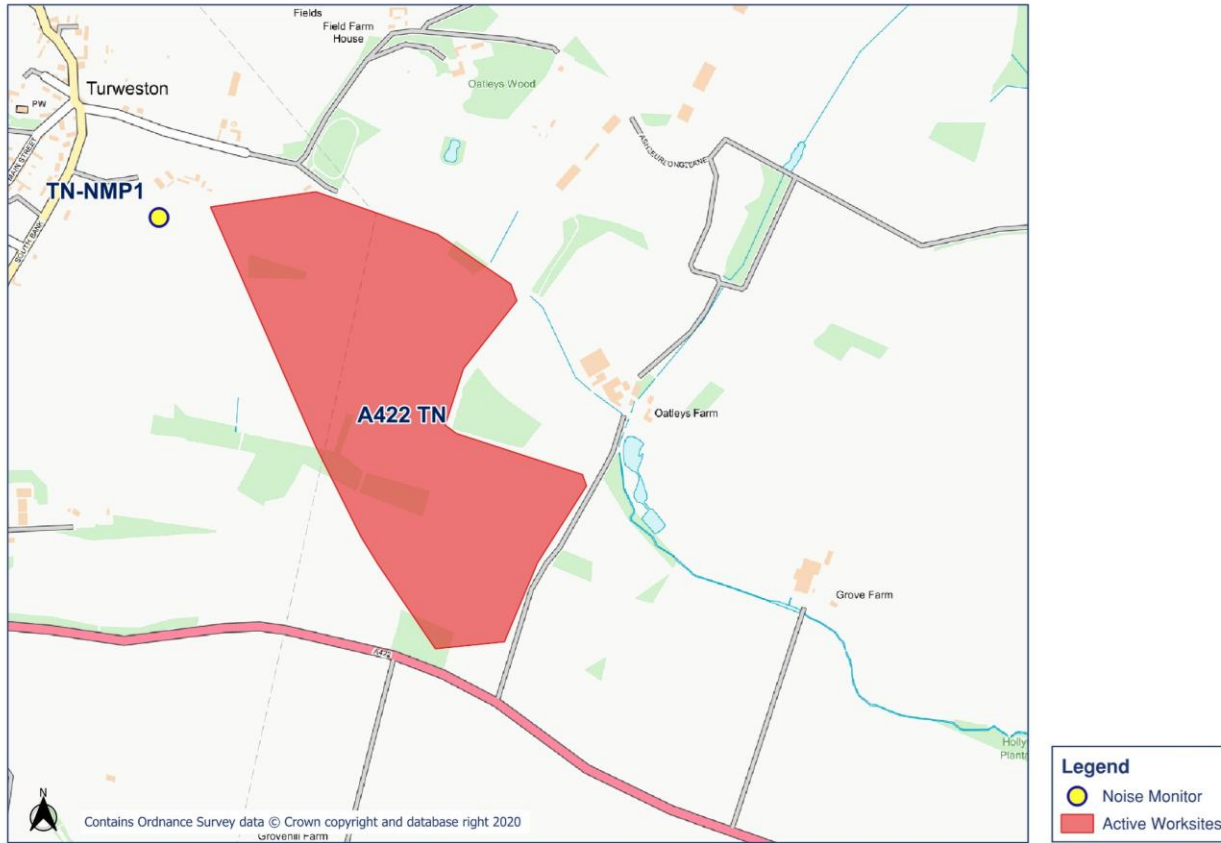






# Appendix B Monitoring Locations

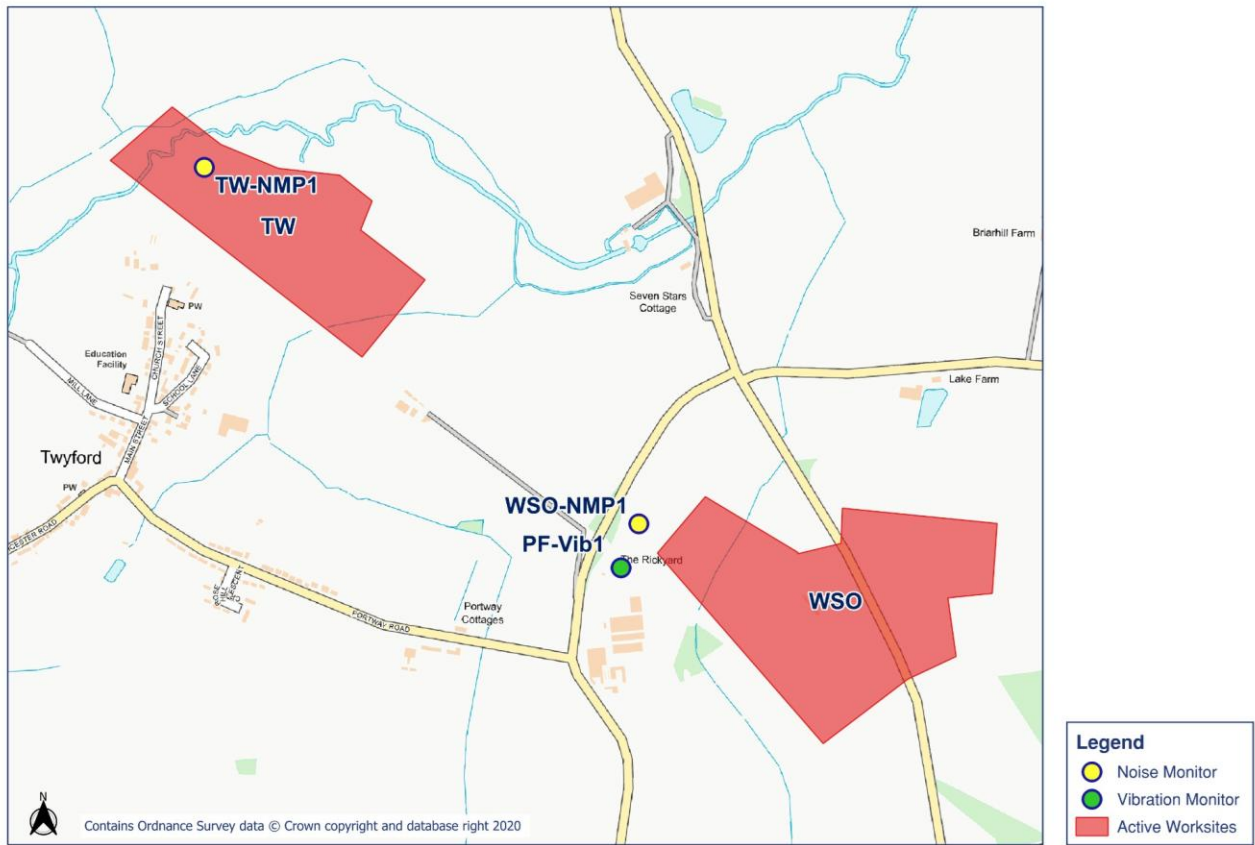
## HS2 Noise and Vibration Monitoring Plan - 1

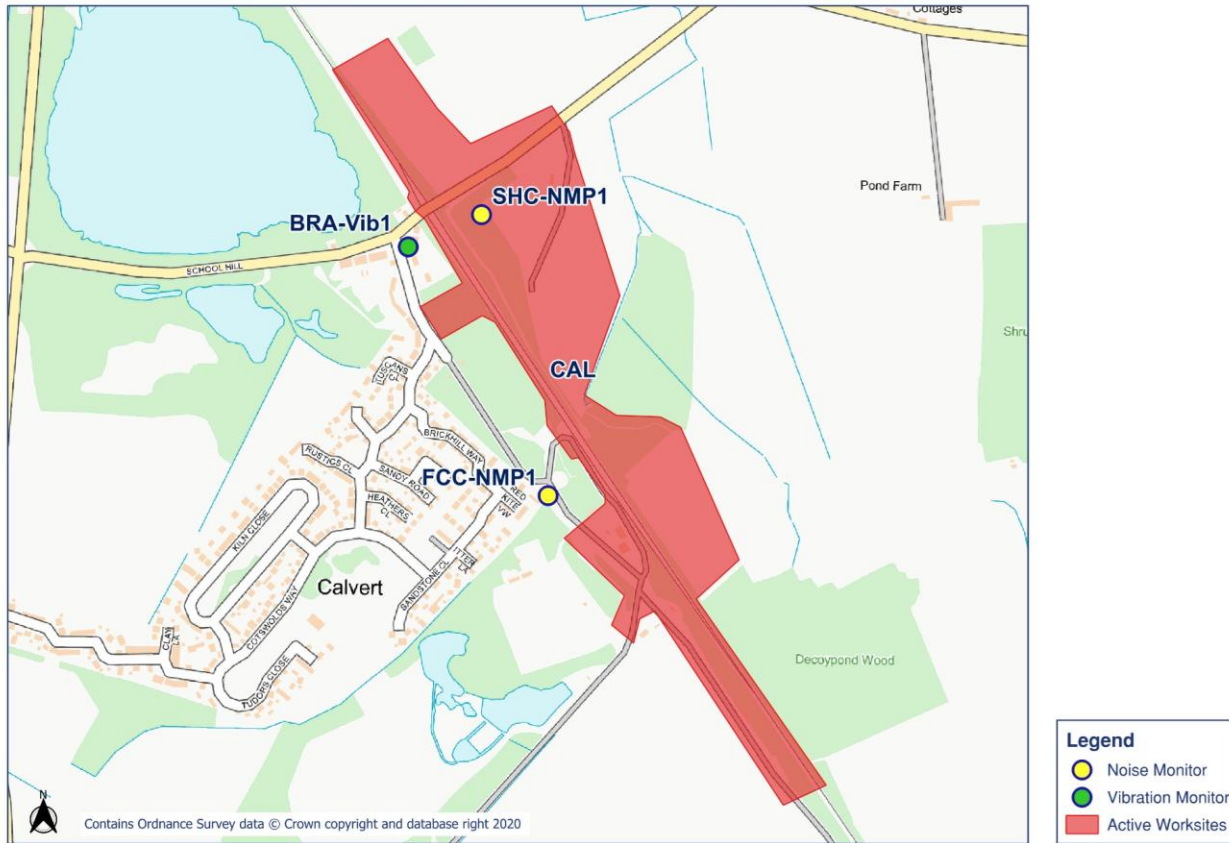


# HS2 Noise and Vibration Monitoring Plan - 2

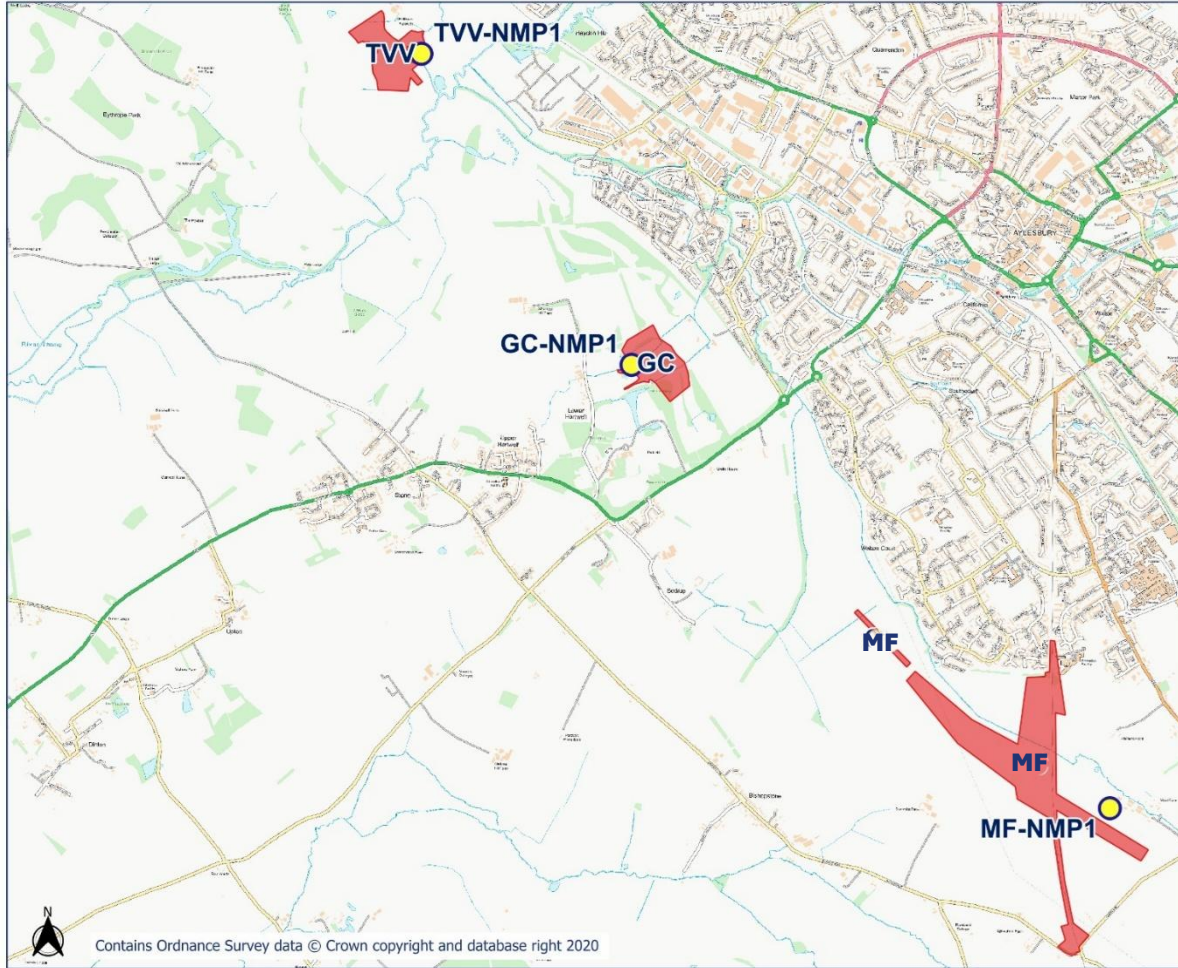


# HS2 Noise and Vibration Monitoring Plan - 3

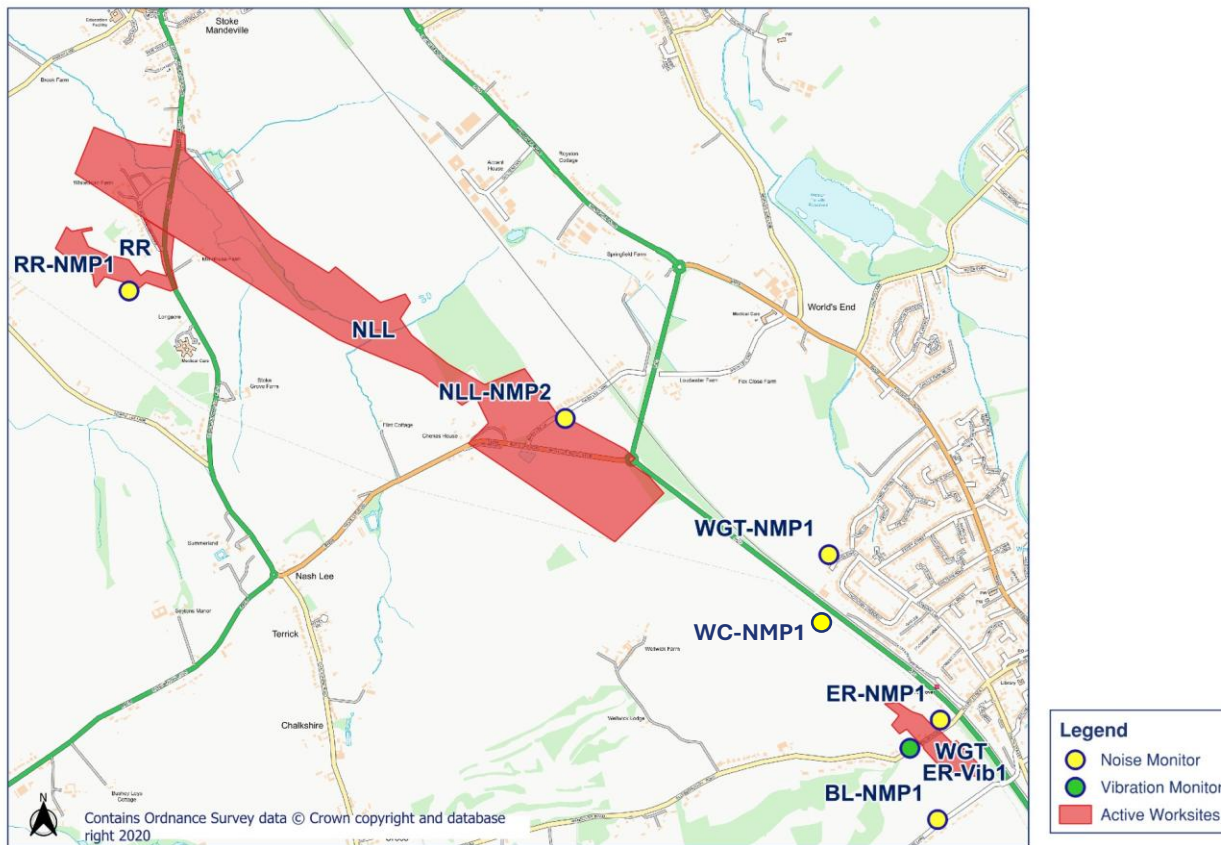




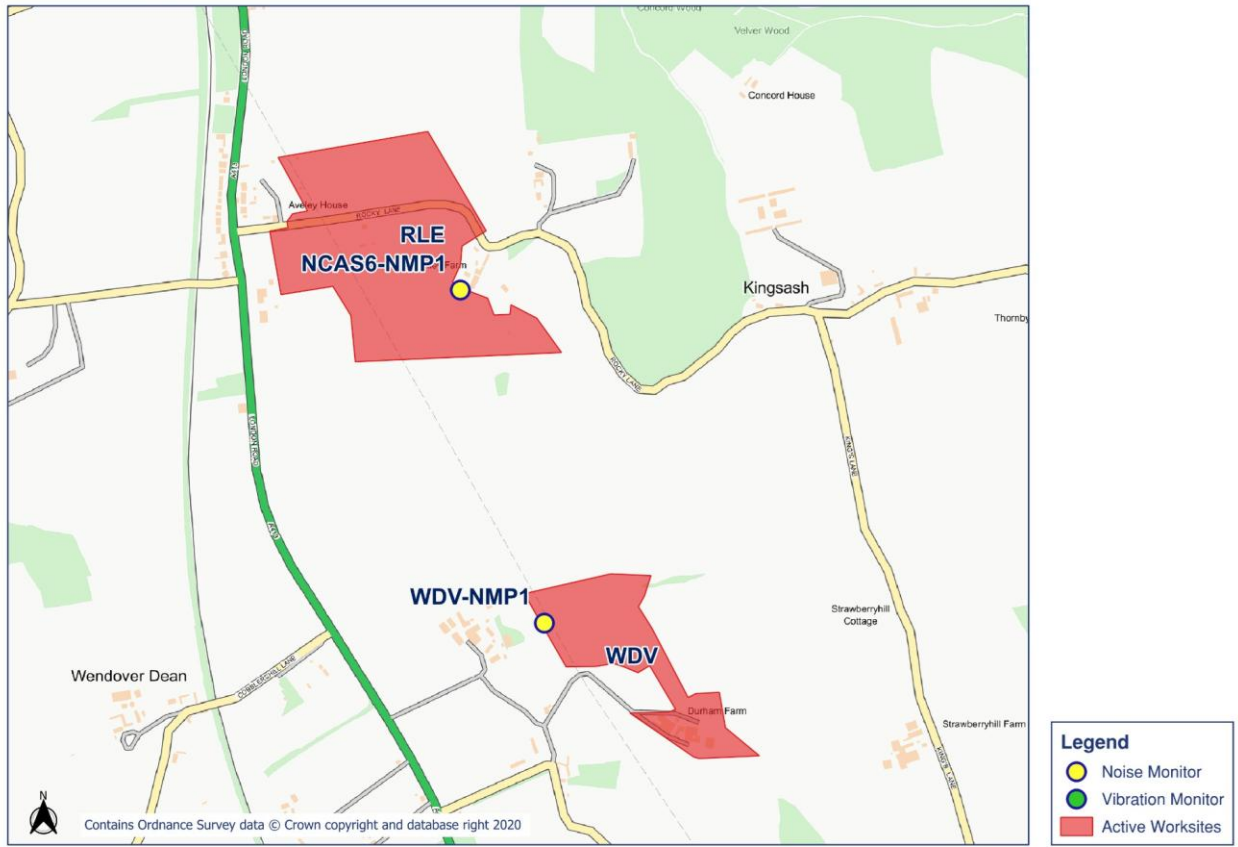




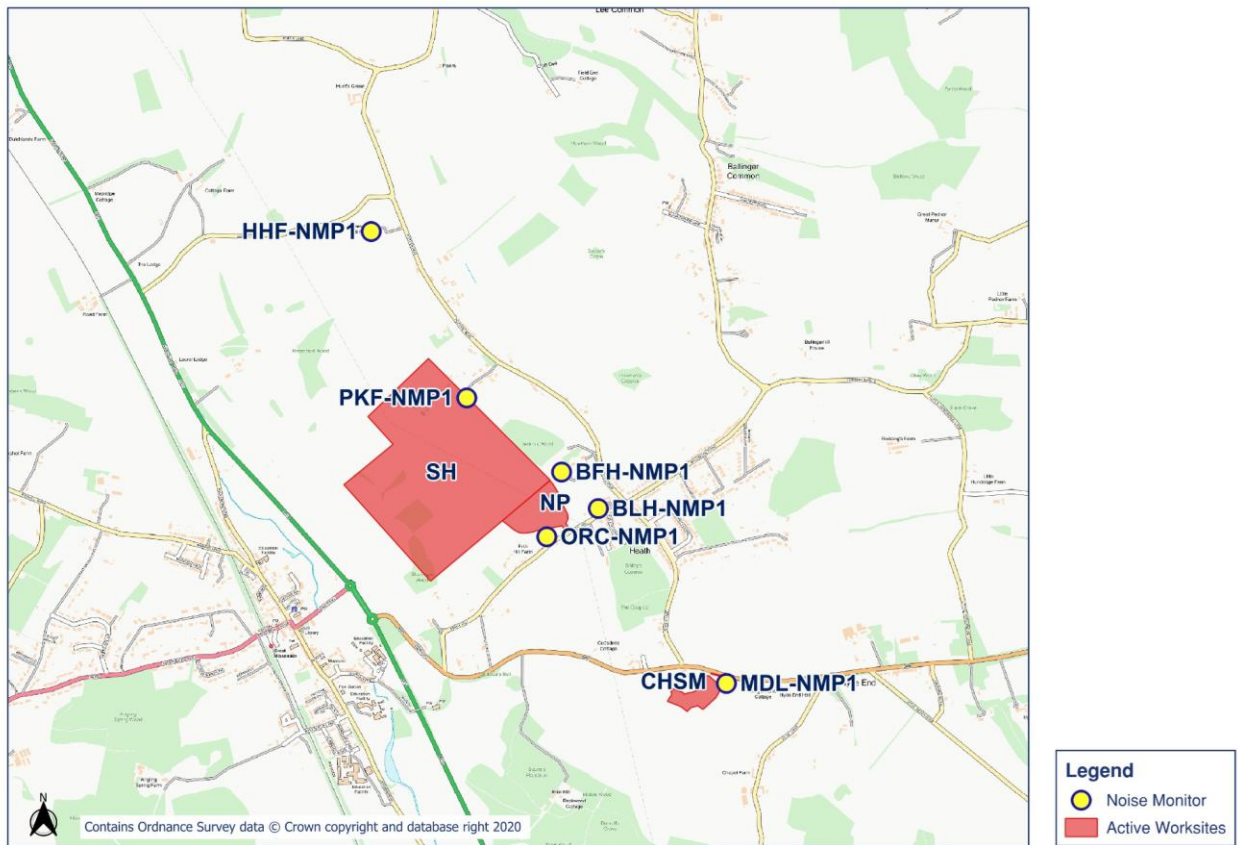
# HS2 Noise and Vibration Monitoring Plan - 7



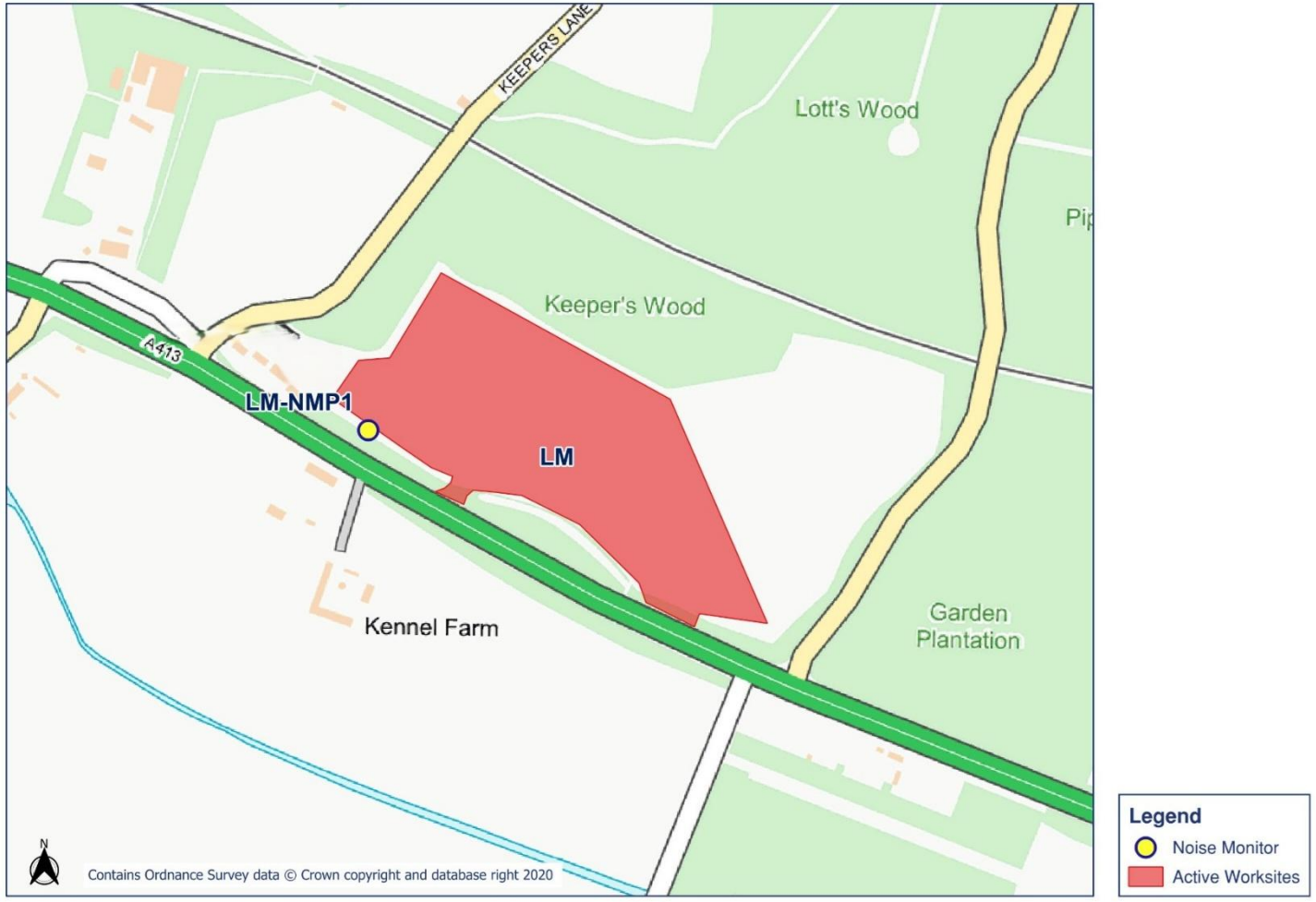
# HS2 Noise and Vibration Monitoring Plan - 8

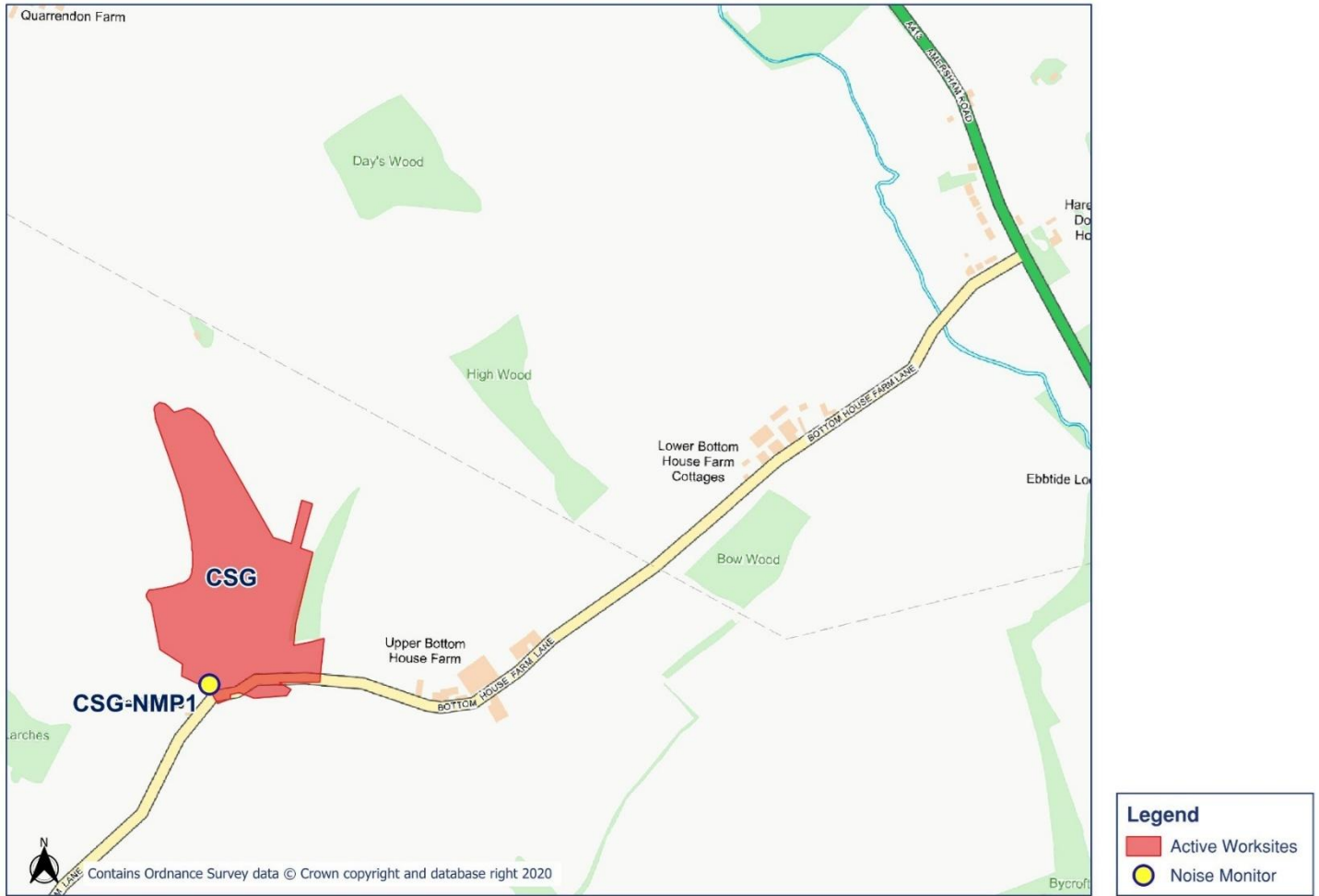


# HS2 Noise and Vibration Monitoring Plan - 9

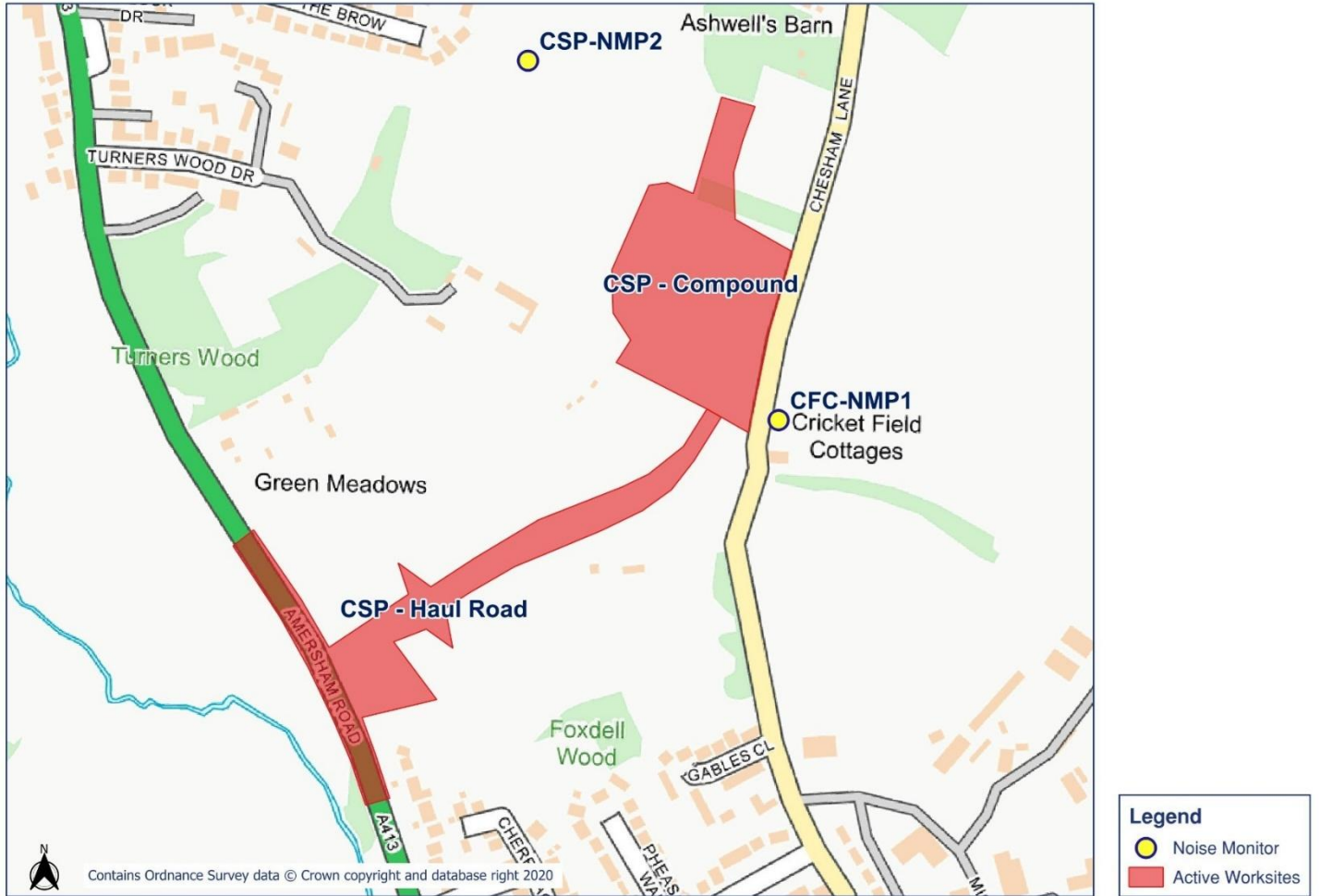


# HS2 Noise and Vibration Monitoring Plan - 10





# HS2 Noise and Vibration Monitoring Plan - 12



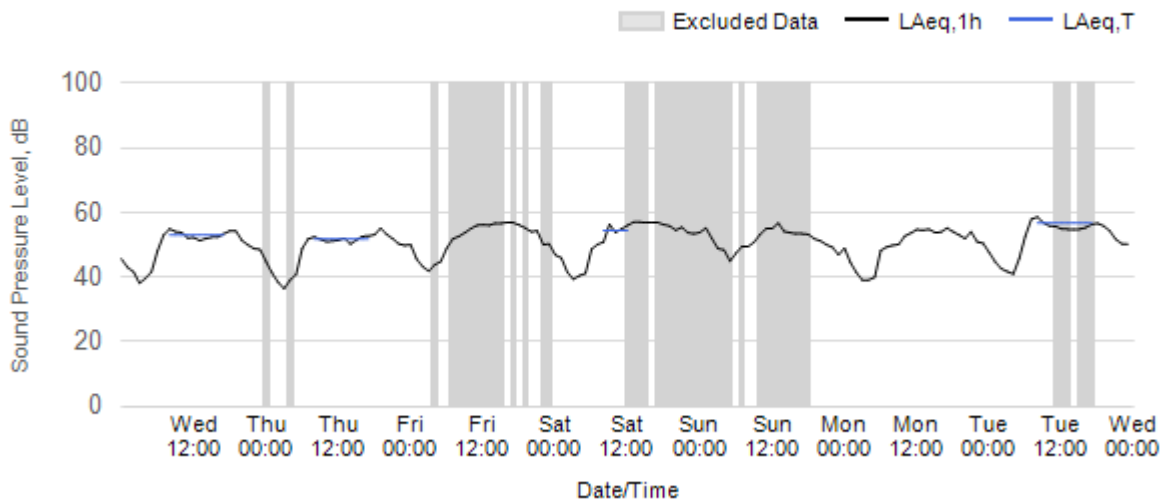
# Appendix C Data

## Noise

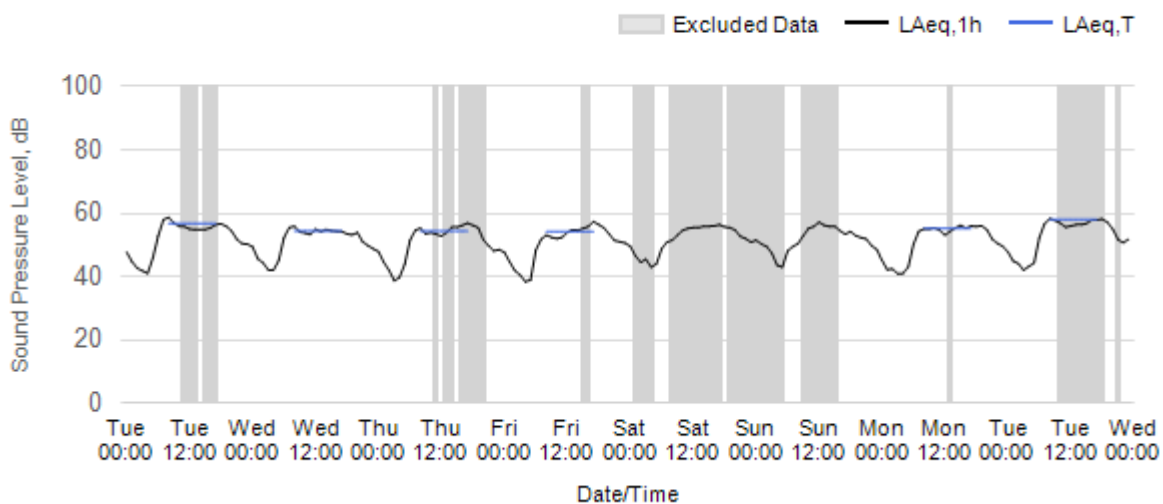
The following graphs show the hourly measured ambient noise level LAeq,1h and, where relevant, the averaged noise level LAeq,T values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part 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: LM - Monitoring Ref: LM-NMP1

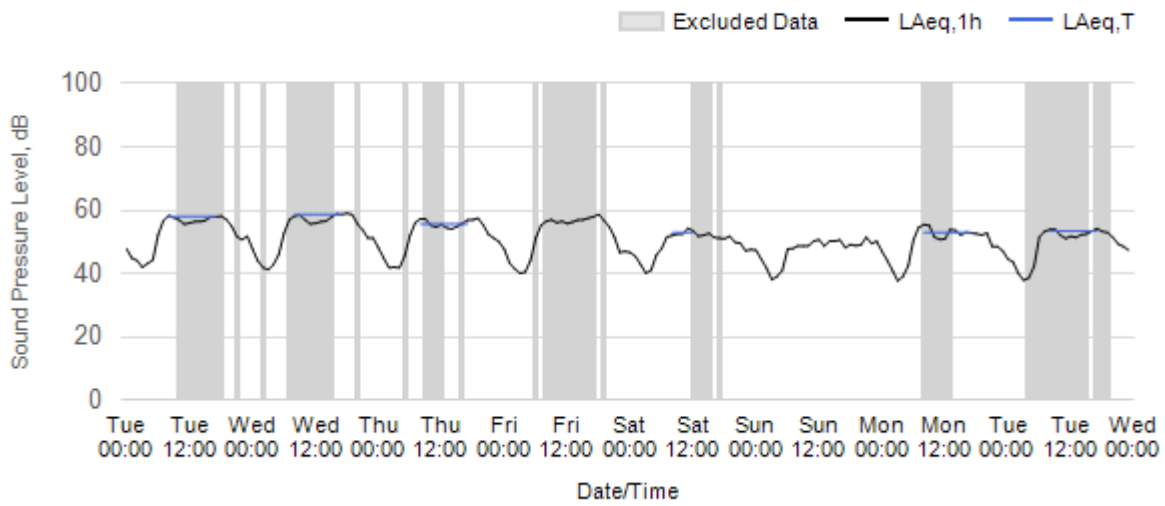
Worksite: LM Monitoring Ref: LM-NMP1 01 April 2026 to 07 April 2026



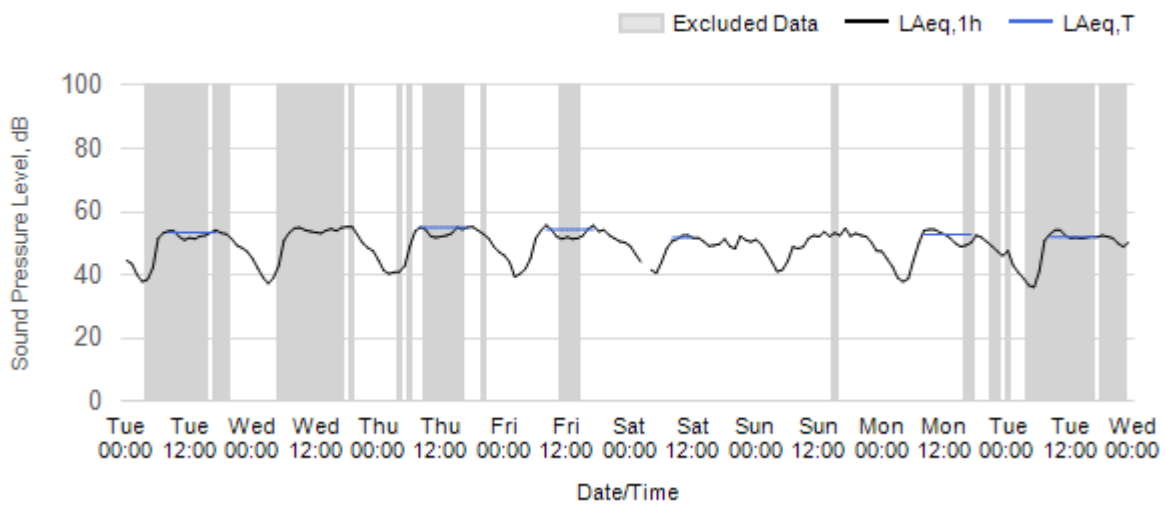
Worksite: LM Monitoring Ref: LM-NMP1 08 April 2026 to 14 April 2026



**Worksite: LM Monitoring Ref: LM-NMP1 15 April 2026 to 21 April 2026**

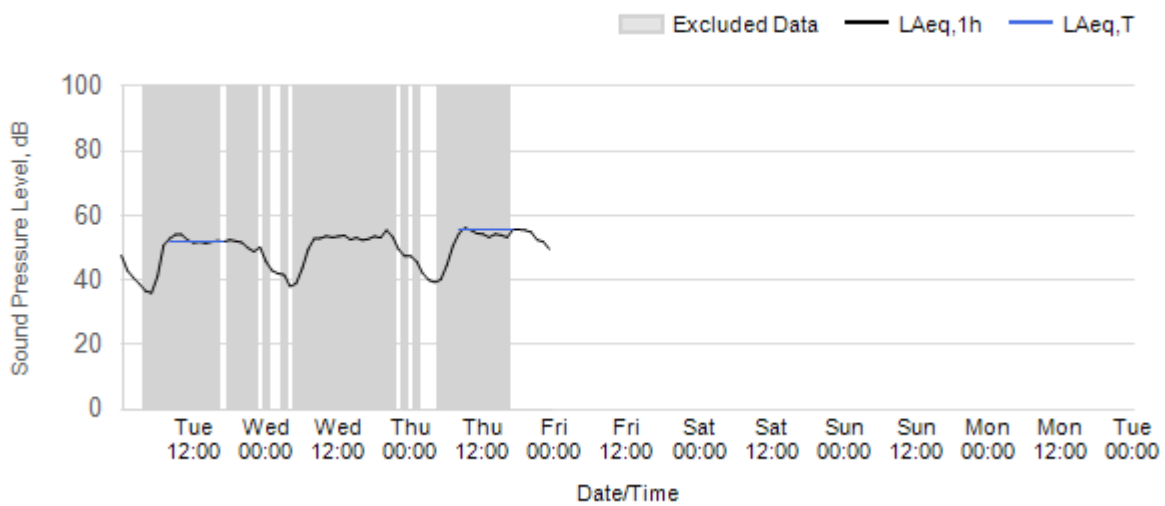


**Worksite: LM Monitoring Ref: LM-NMP1 22 April 2026 to 28 April 2026**



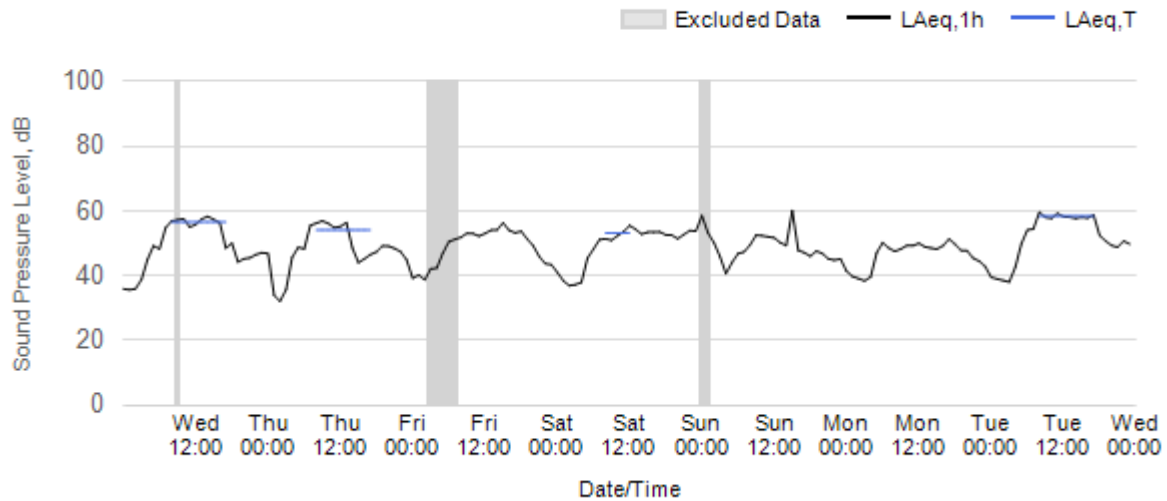
Note: Missing data was due to a communication error with the monitor

**Worksite: LM Monitoring Ref: LM-NMP1 29 April 2026 to 5 May 2026**

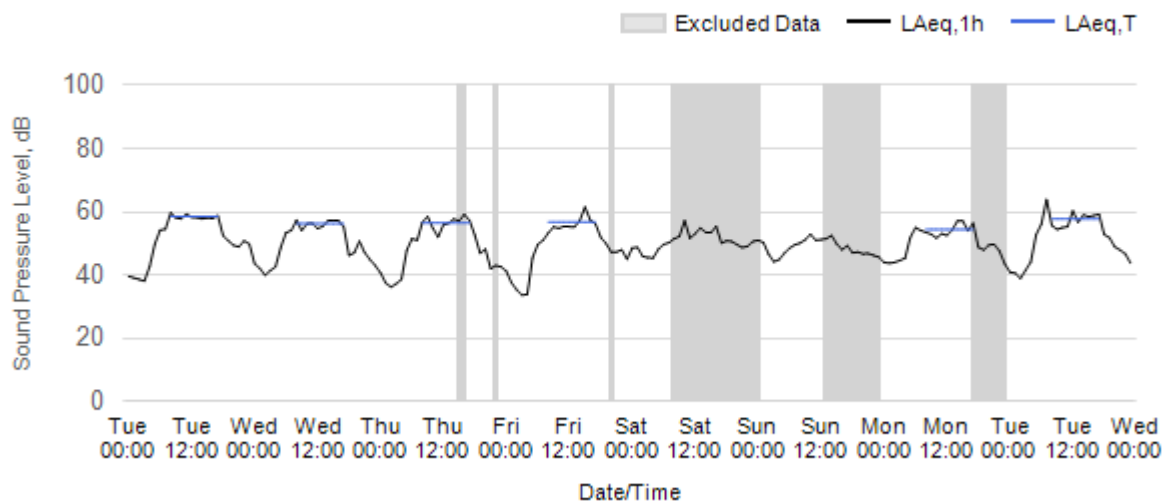


## Worksite: NLL - Monitoring Ref: NLL-NMP2

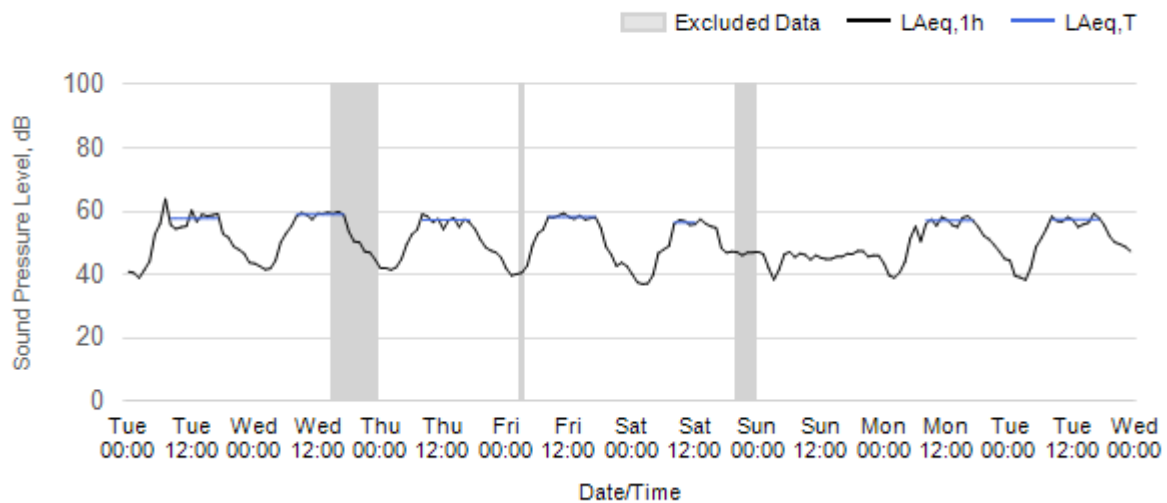
Worksite: NLL Monitoring Ref: NLL-NMP2 01 April 2026 to 07 April 2026



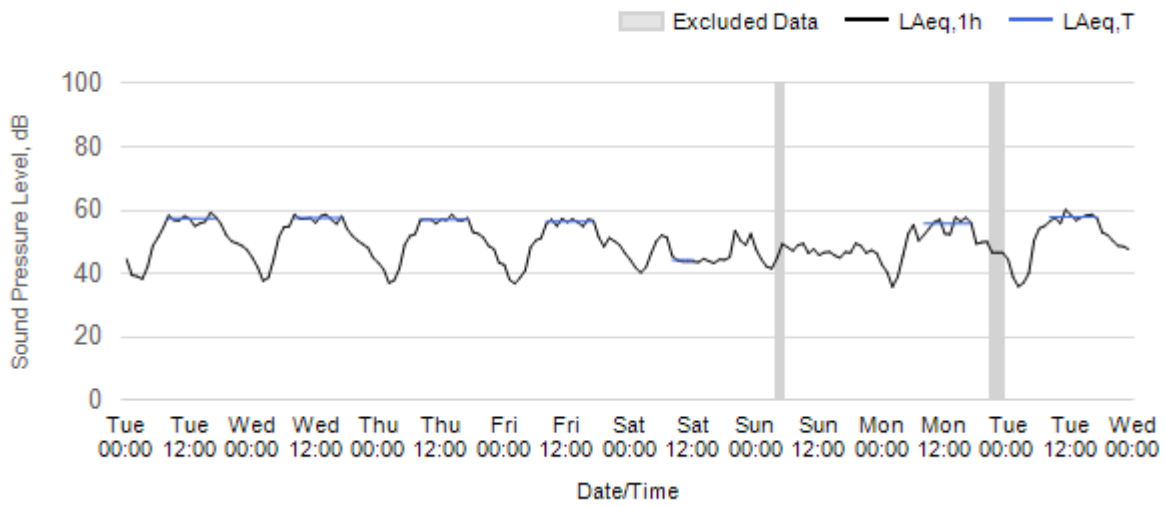
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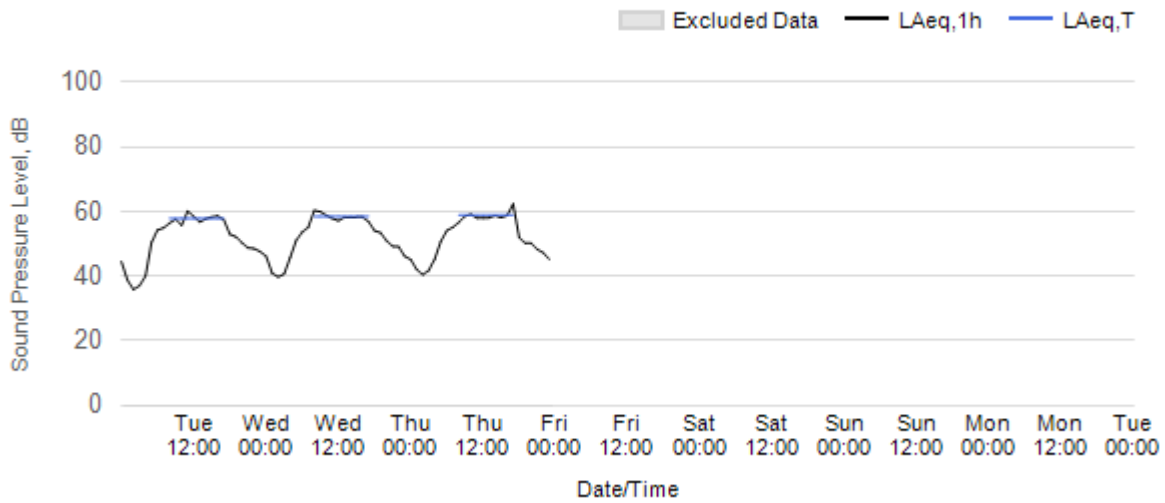
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**Worksite: NLL Monitoring Ref: NLL-NMP2 22 April 2026 to 28 April 2026**

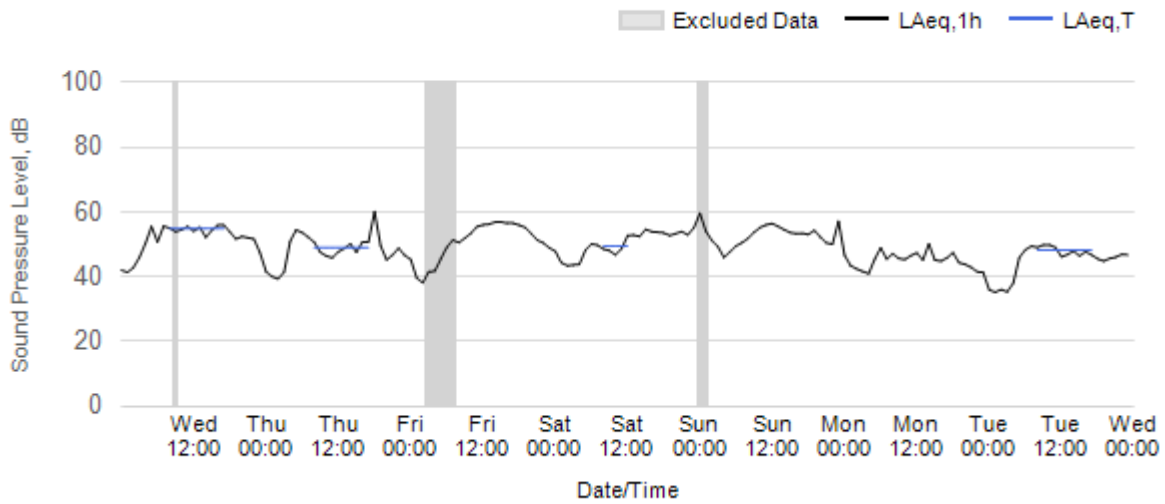


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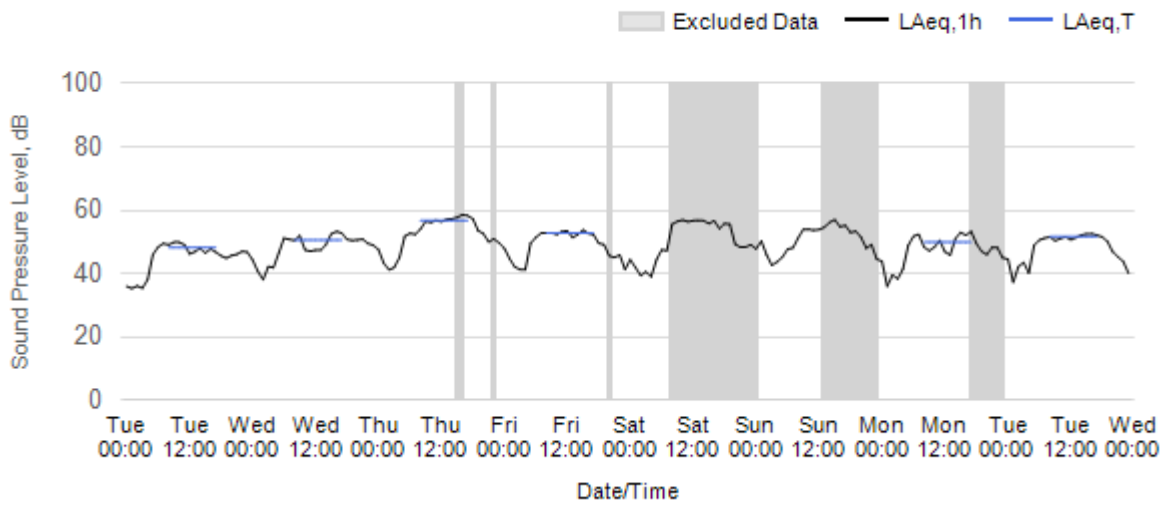


**Worksite: WGT - Monitoring Ref: WGT-NMP1**

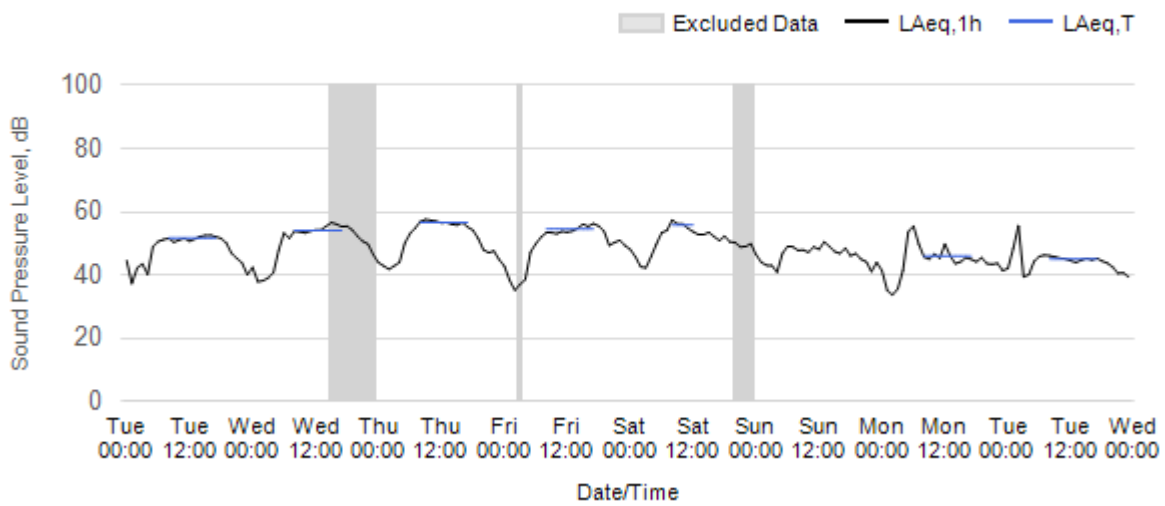
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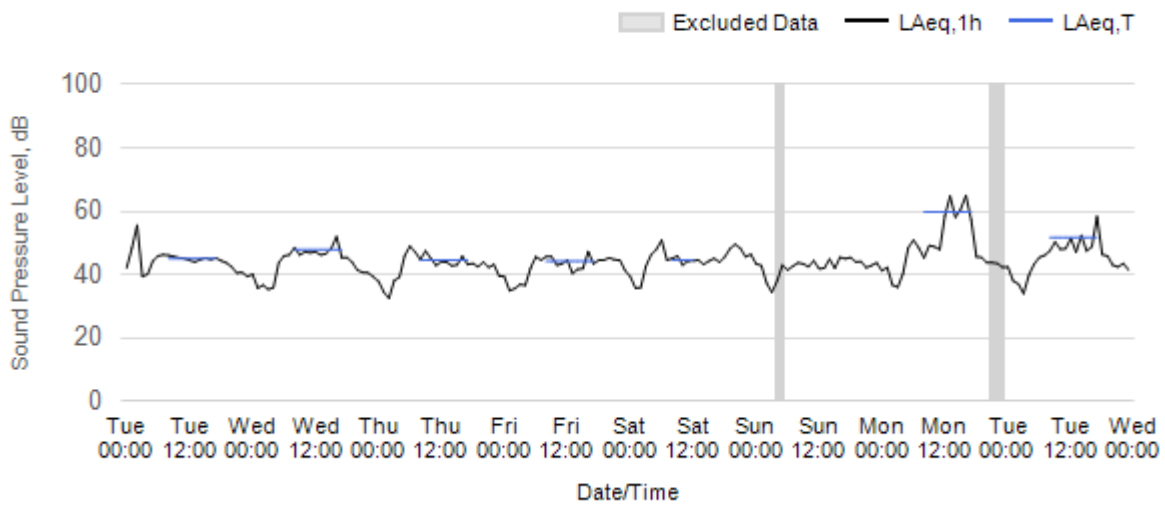
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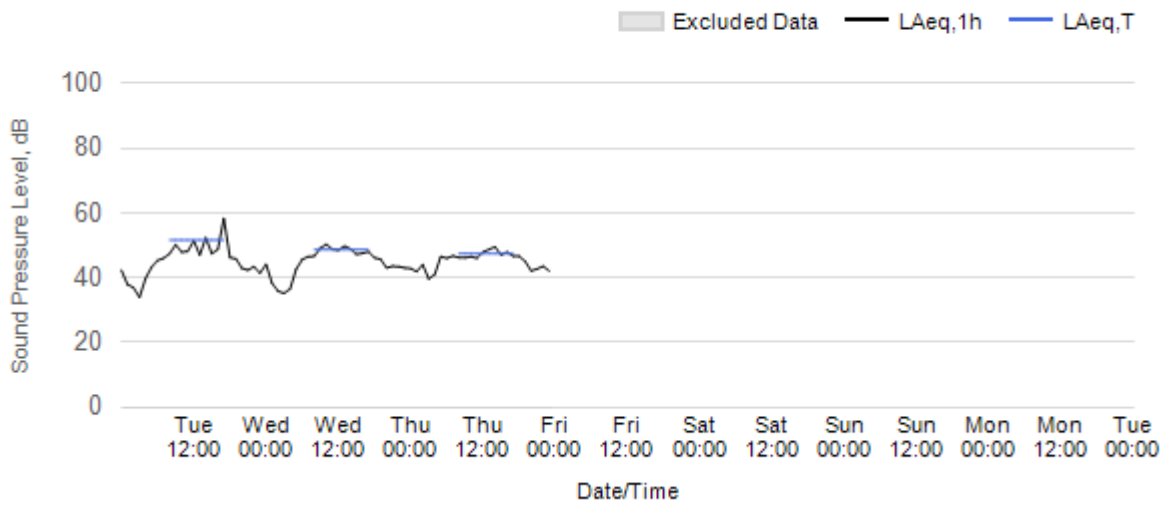
**Worksite: WGT Monitoring Ref: WGT-NMP1 15 April 2026 to 21 April 2026**



**Worksite: WGT Monitoring Ref: WGT-NMP1 22 April 2026 to 28 April 2026**

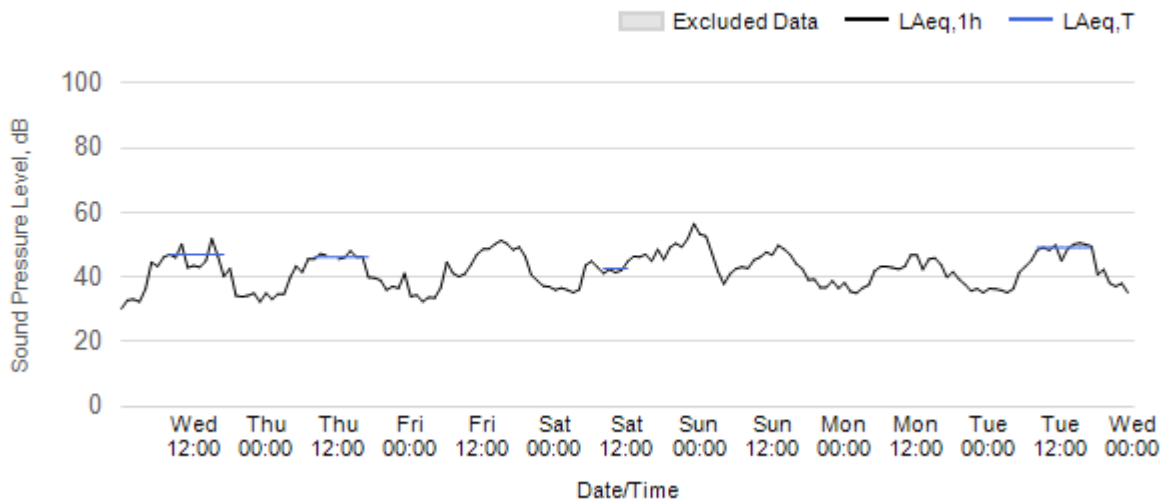


**Worksite: WGT Monitoring Ref: WGT-NMP1 29 April 2026 to 5 May 2026**

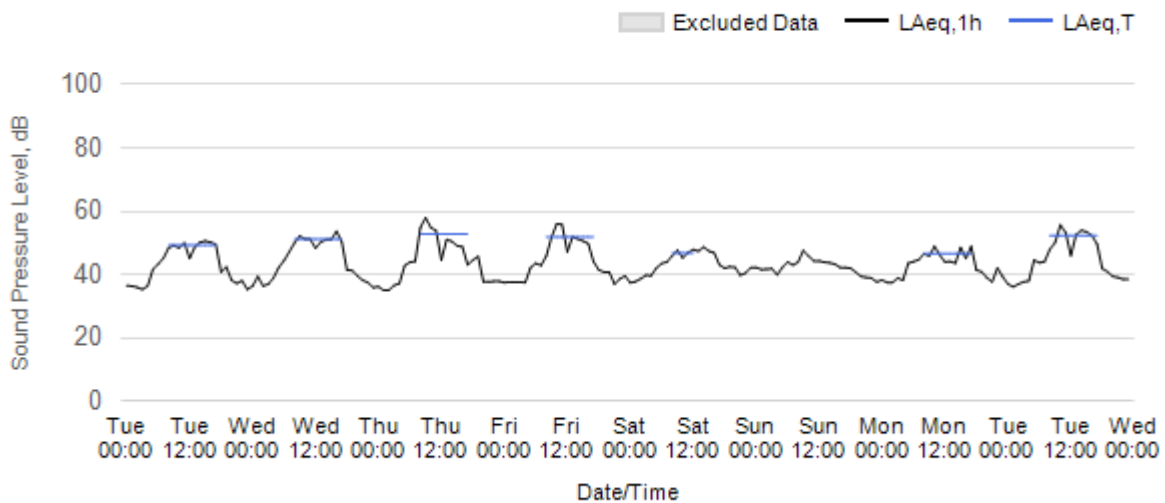


**Worksite: TW - Monitoring Ref: TW-NMP1**

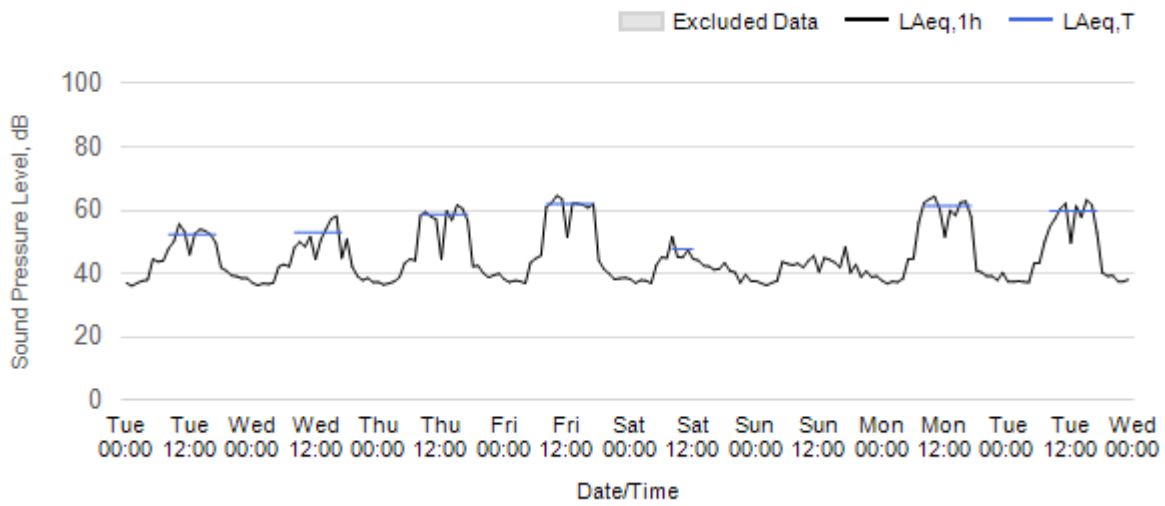
**Worksite: TW Monitoring Ref: TW-NMP1 01 April 2026 to 07 April 2026**



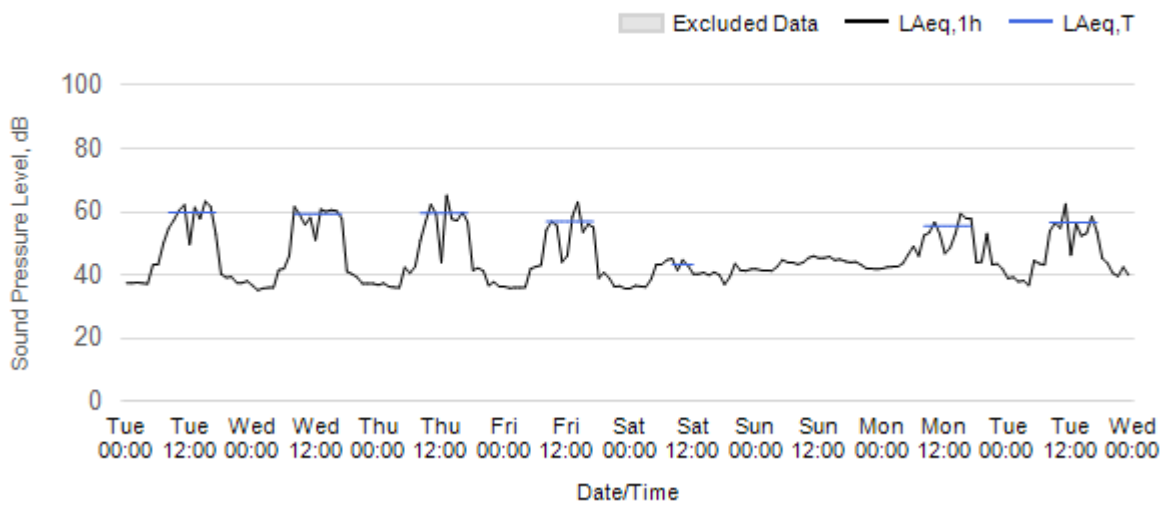
**Worksite: TW Monitoring Ref: TW-NMP1 08 April 2026 to 14 April 2026**



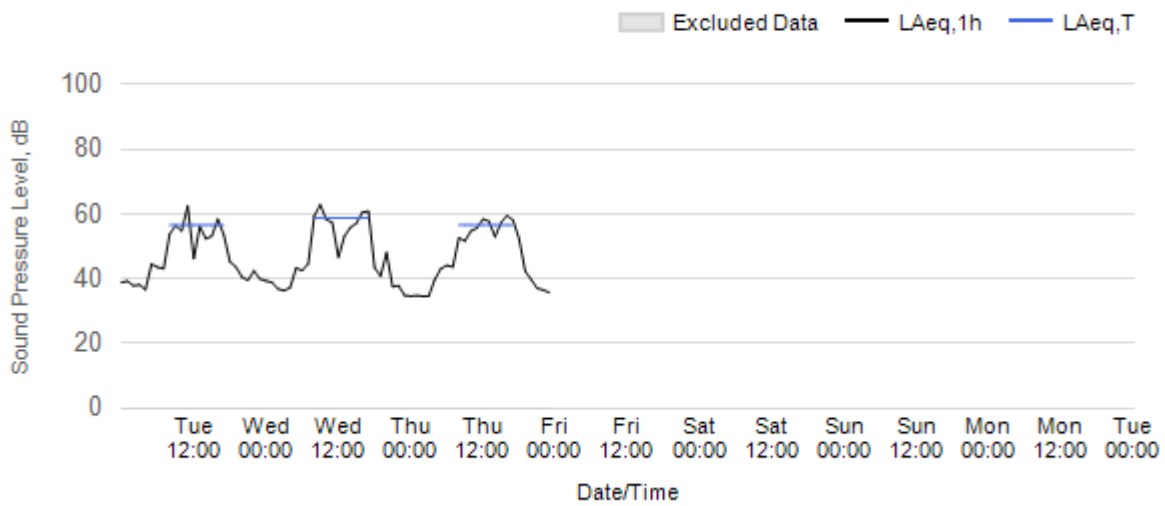
**Worksite: TW Monitoring Ref: TW-NMP1 15 April 2026 to 21 April 2026**



**Worksite: TW Monitoring Ref: TW-NMP1 22 April 2026 to 28 April 2026**

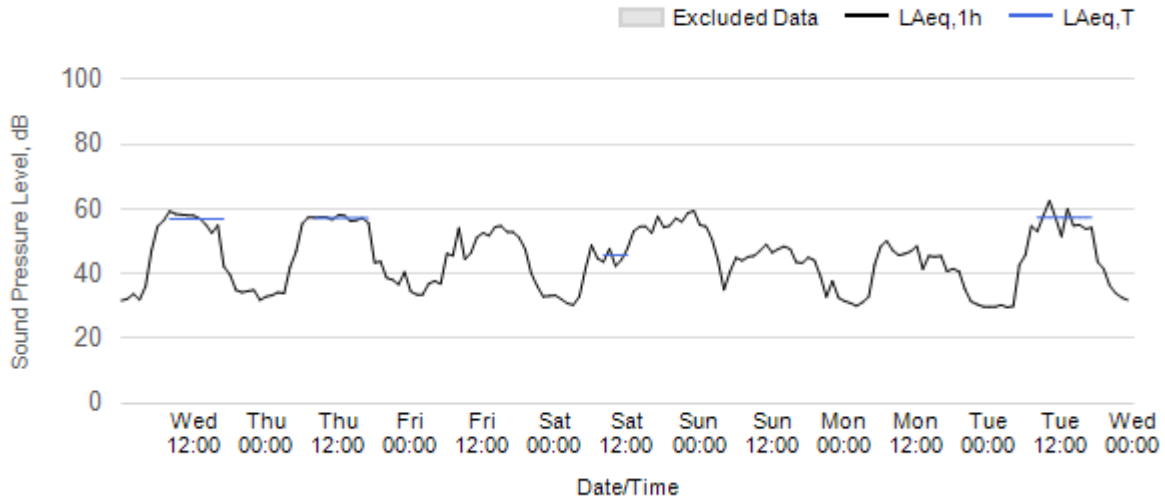


**Worksite: TW Monitoring Ref: TW-NMP1 29 April 2026 to 5 May 2026**

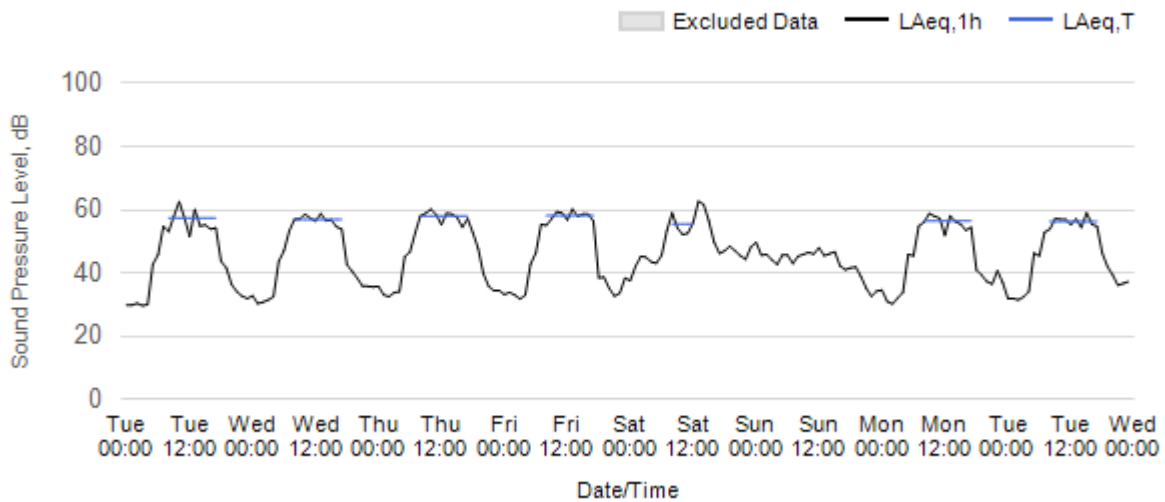


# Worksite: HC - Monitoring Ref: HC-NMP1

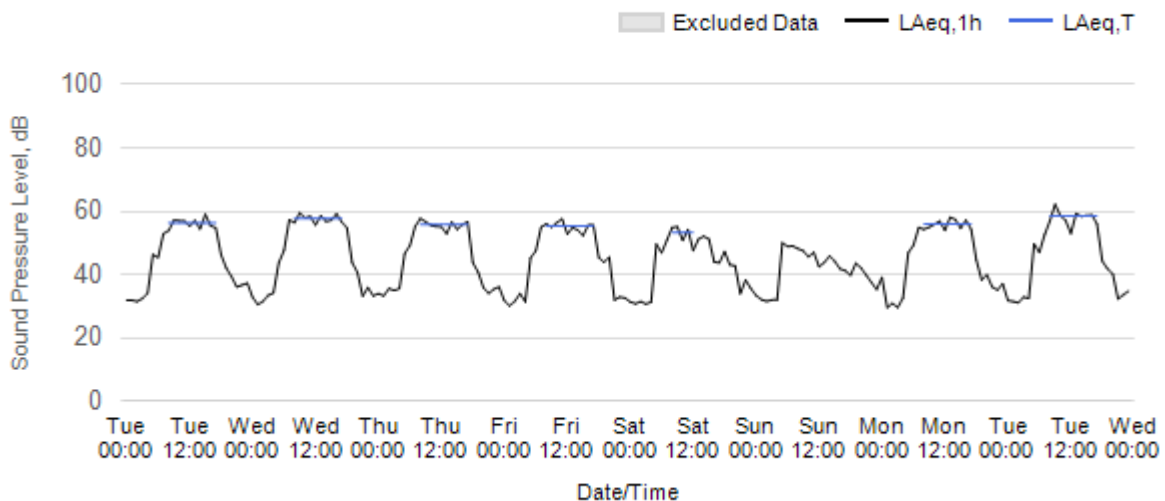
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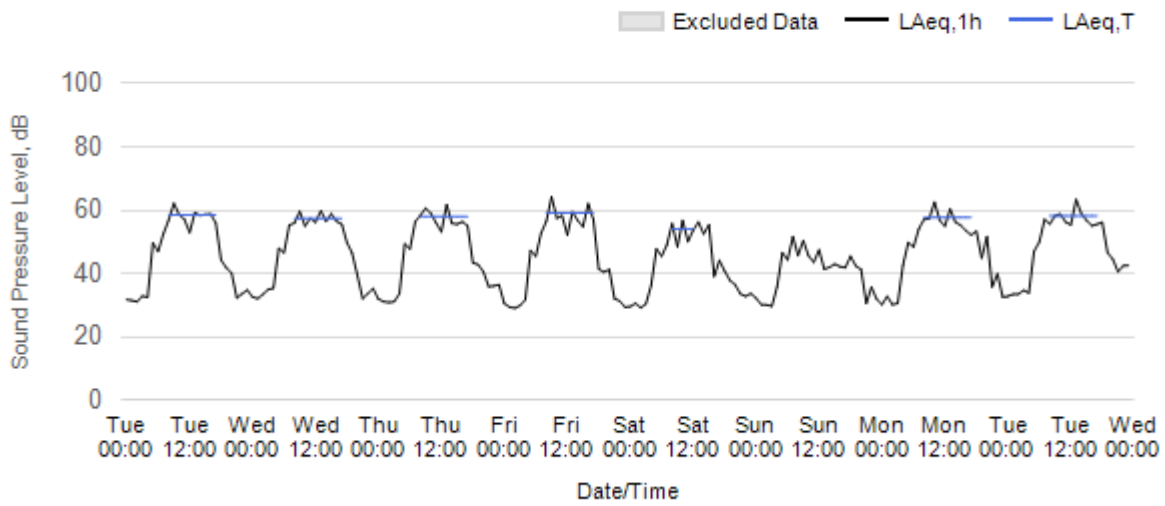
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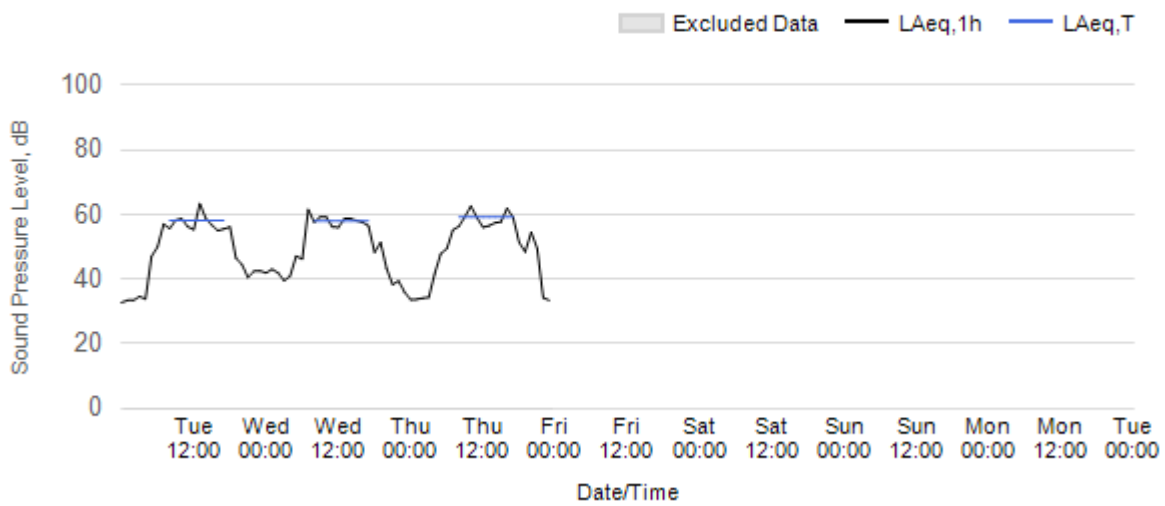
Worksite: HC Monitoring Ref: HC-NMP1 15 April 2026 to 21 April 2026



**Worksite: HC Monitoring Ref: HC-NMP1 22 April 2026 to 28 April 2026**

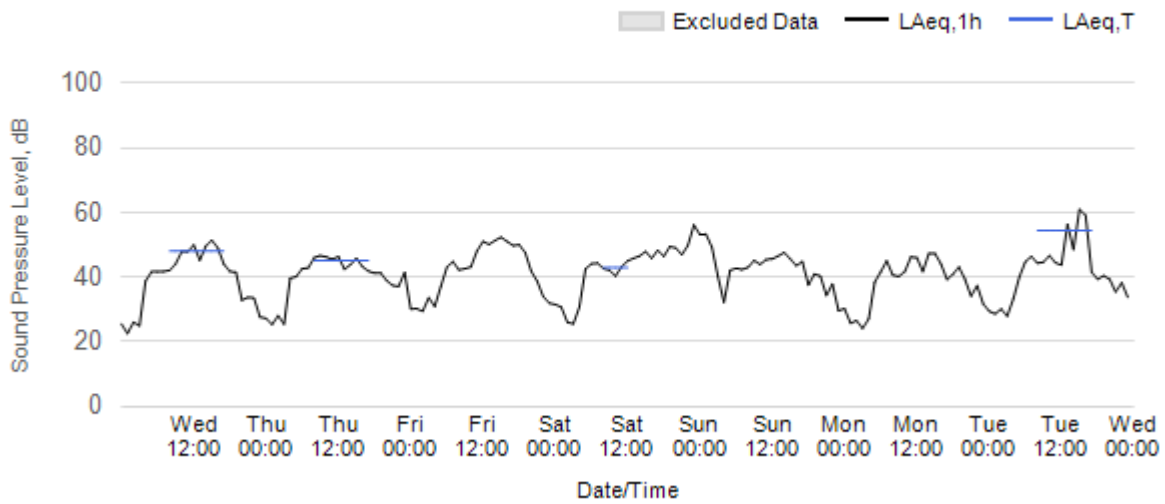


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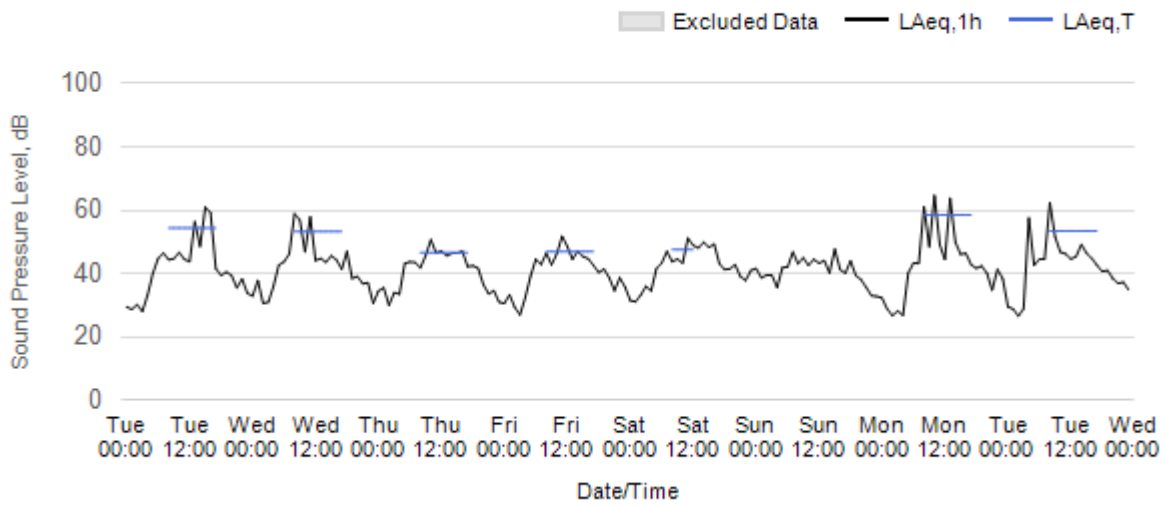


**Worksite: WSO - Monitoring Ref: WSO-NMP1**

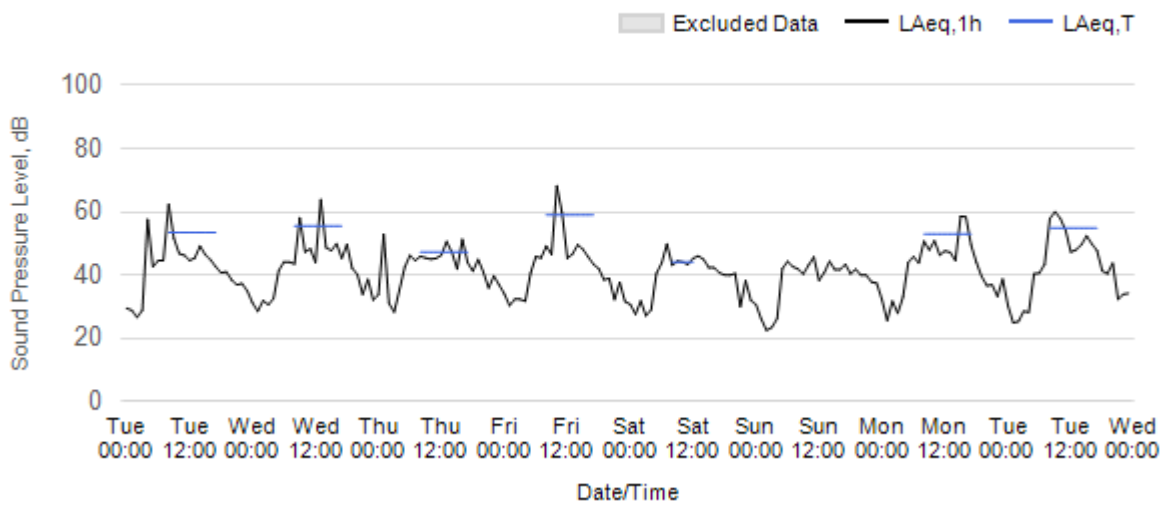
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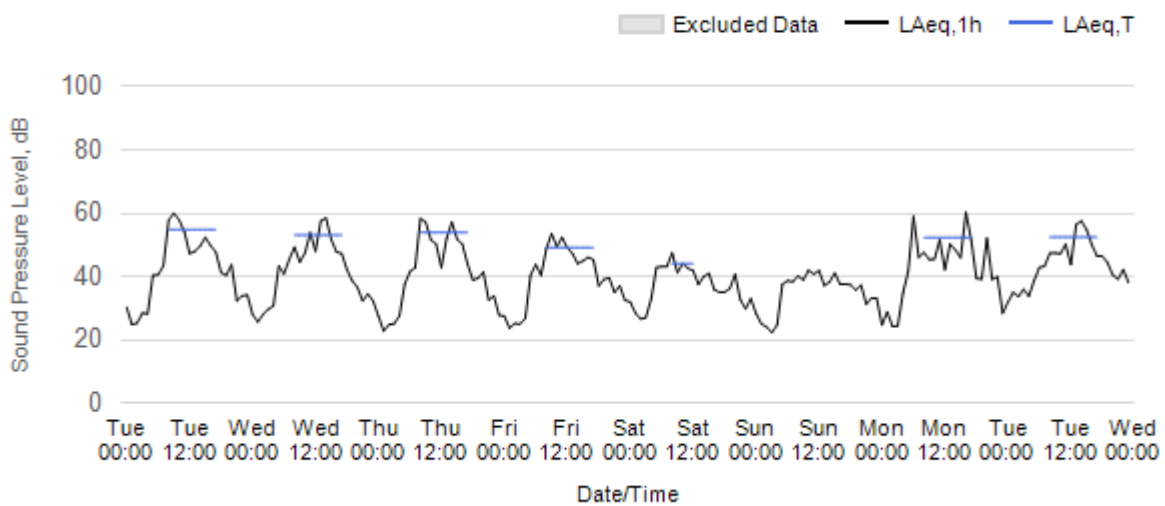
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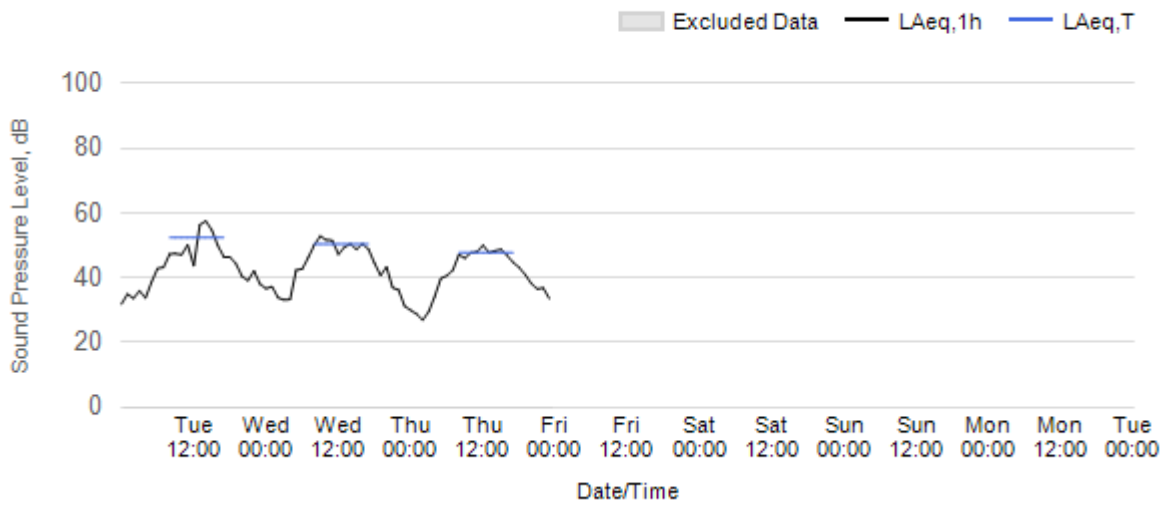
Worksite: WSO Monitoring Ref: WSO-NMP1 15 April 2026 to 21 April 2026



Worksite: WSO Monitoring Ref: WSO-NMP1 22 April 2026 to 28 April 2026

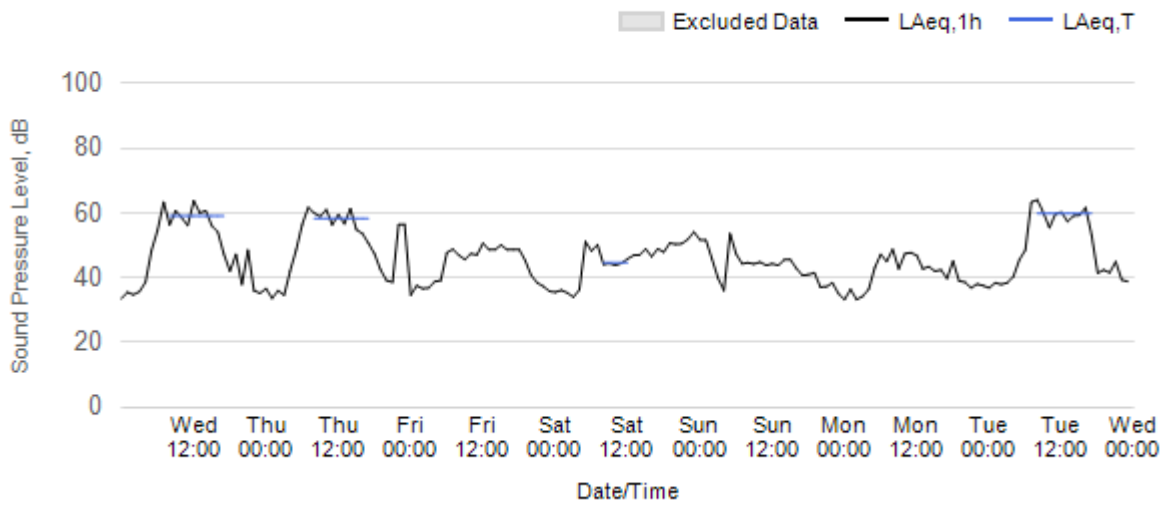


**Worksite: WSO Monitoring Ref: WSO-NMP1 29 April 2026 to 5 May 2026**

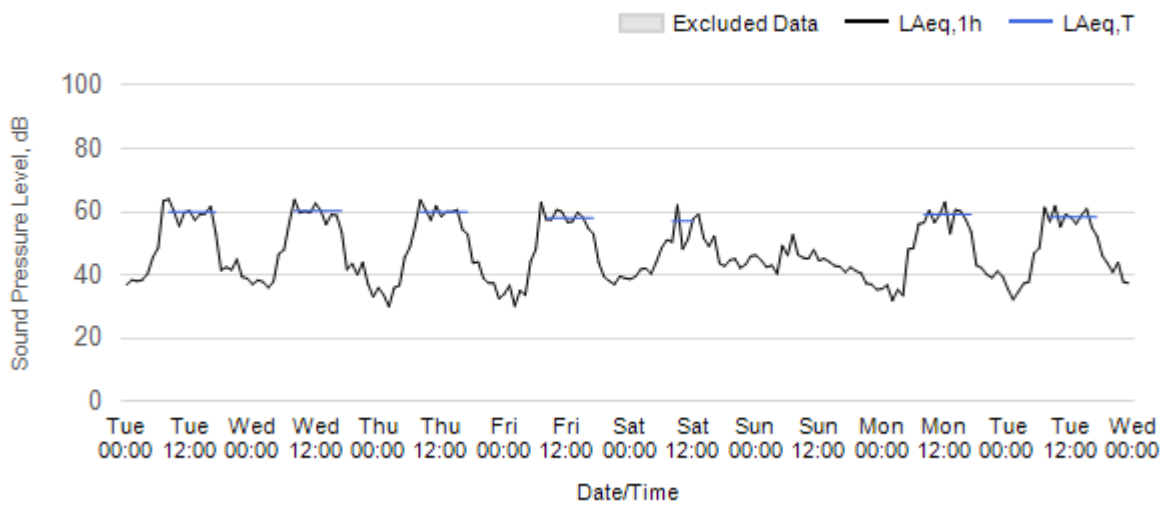


**Worksite: CAL - Monitoring Ref: FCC-NMP1**

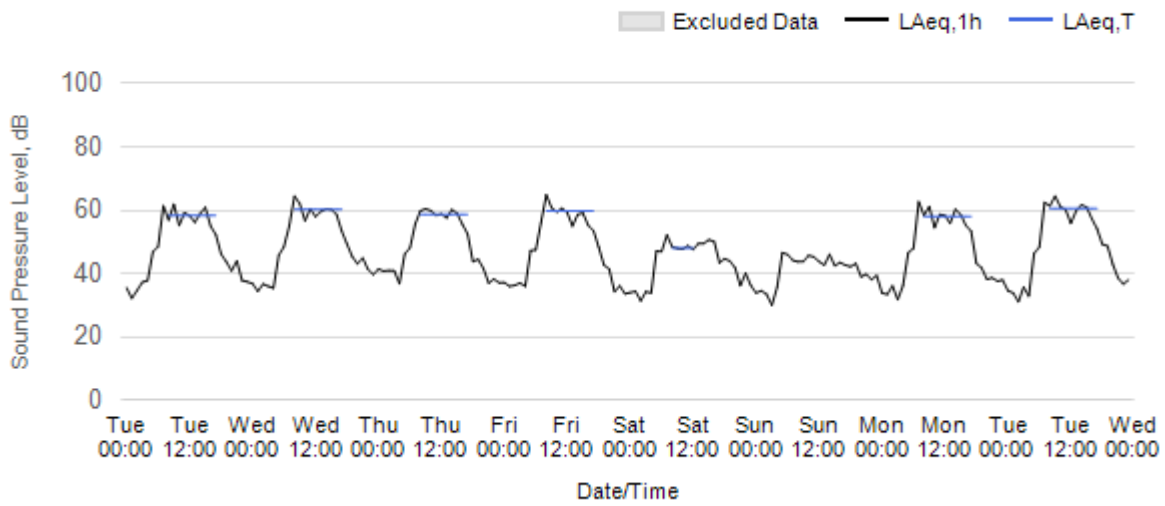
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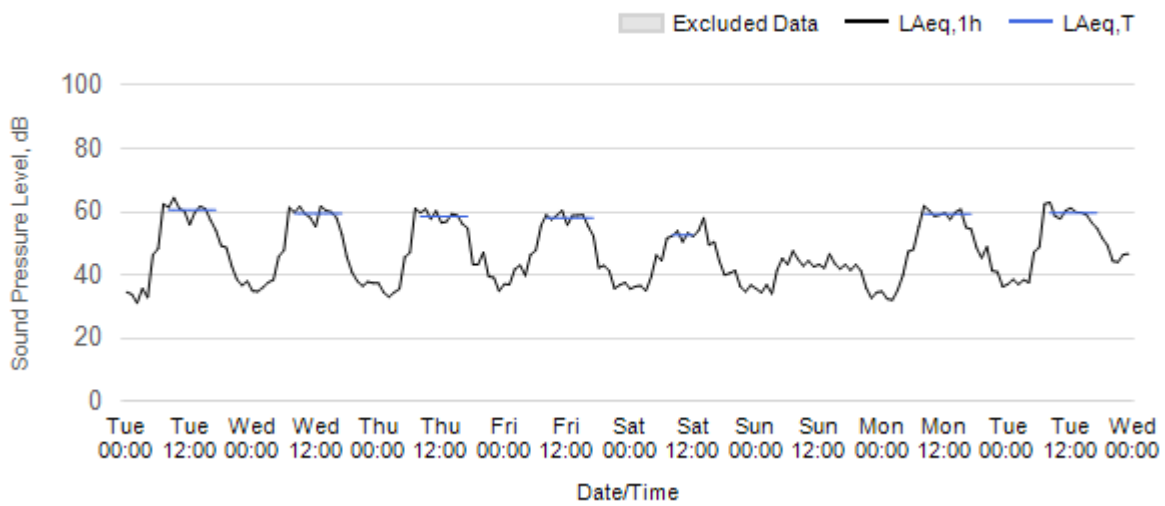
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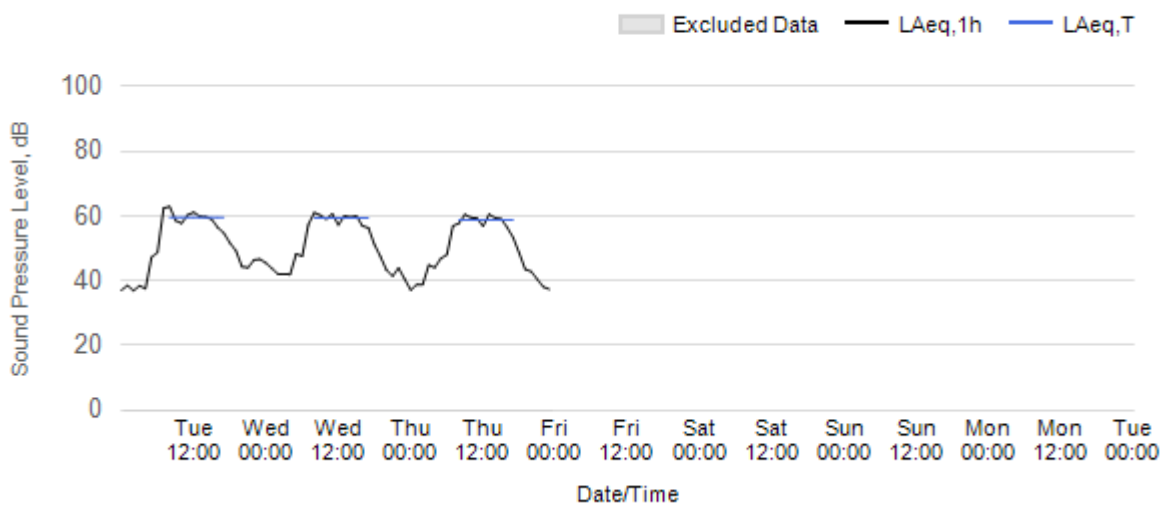
**Worksite: FCC Monitoring Ref: FCC-NMP1 15 April 2026 to 21 April 2026**



**Worksite: FCC Monitoring Ref: FCC-NMP1 22 April 2026 to 28 April 2026**

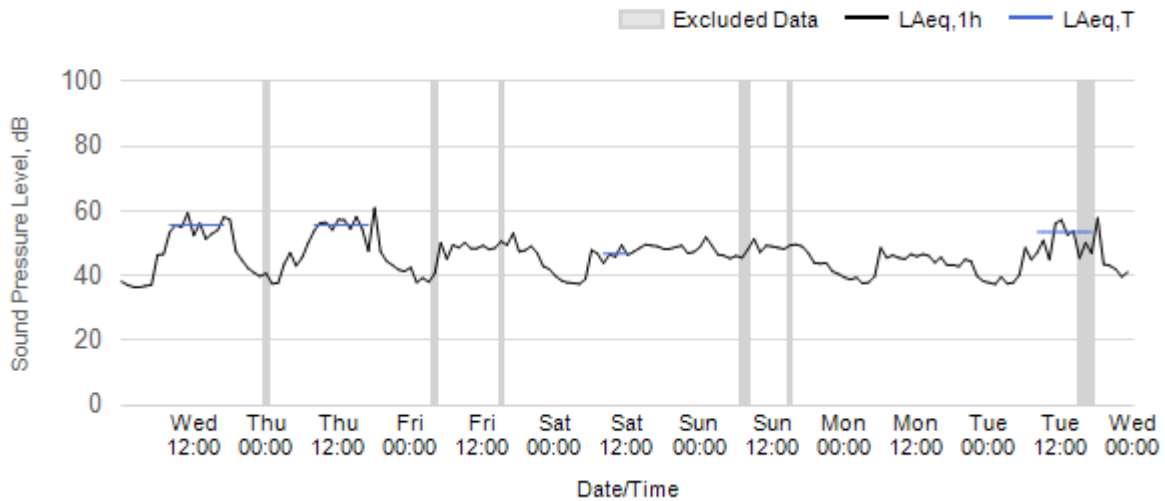


**Worksite: FCC Monitoring Ref: FCC-NMP1 29 April 2026 to 5 May 2026**

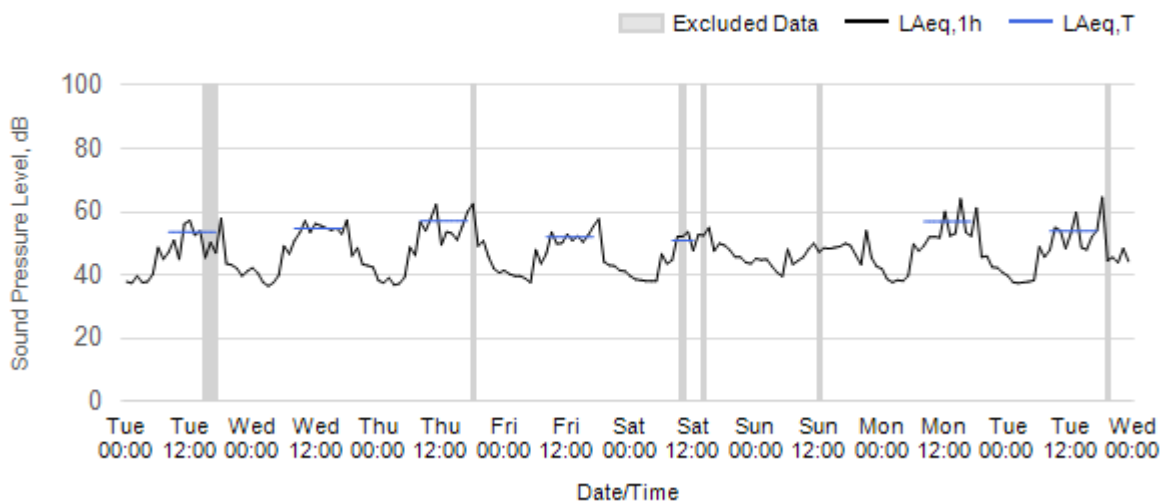


# Worksite: NP - Monitoring Ref: ORC-NMP1

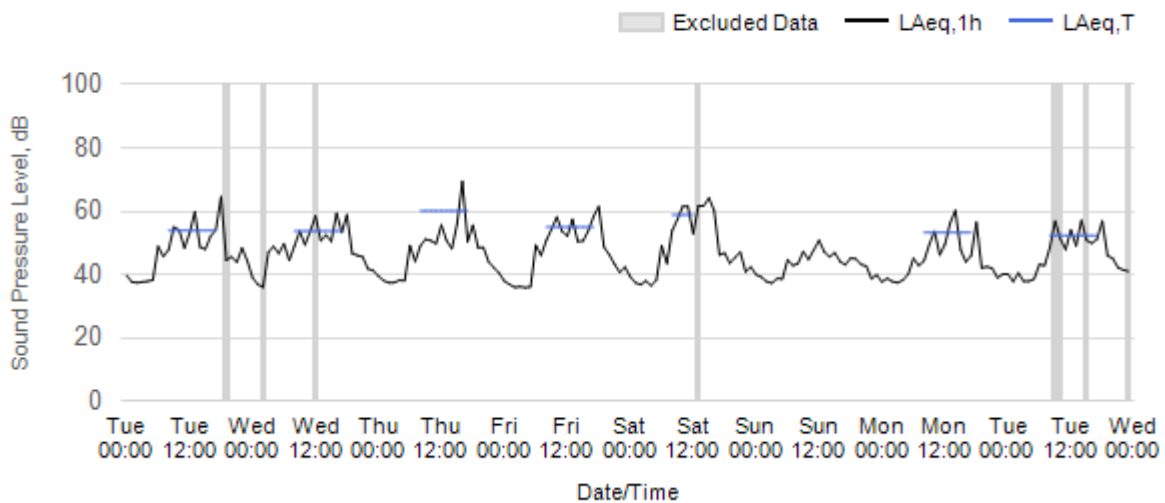
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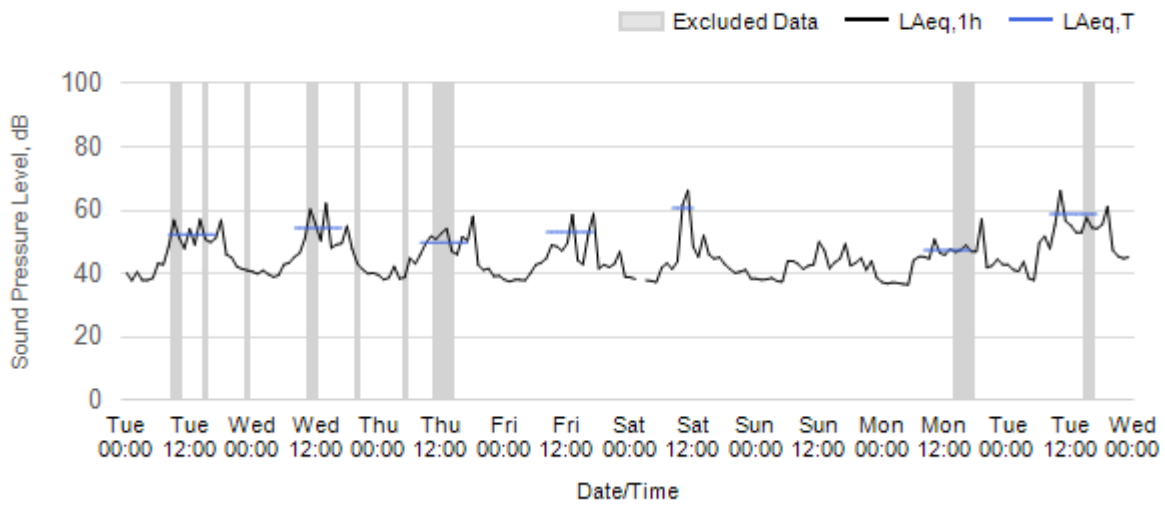
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Worksite: NP Monitoring Ref: ORC-NMP1 15 April 2026 to 21 April 2026

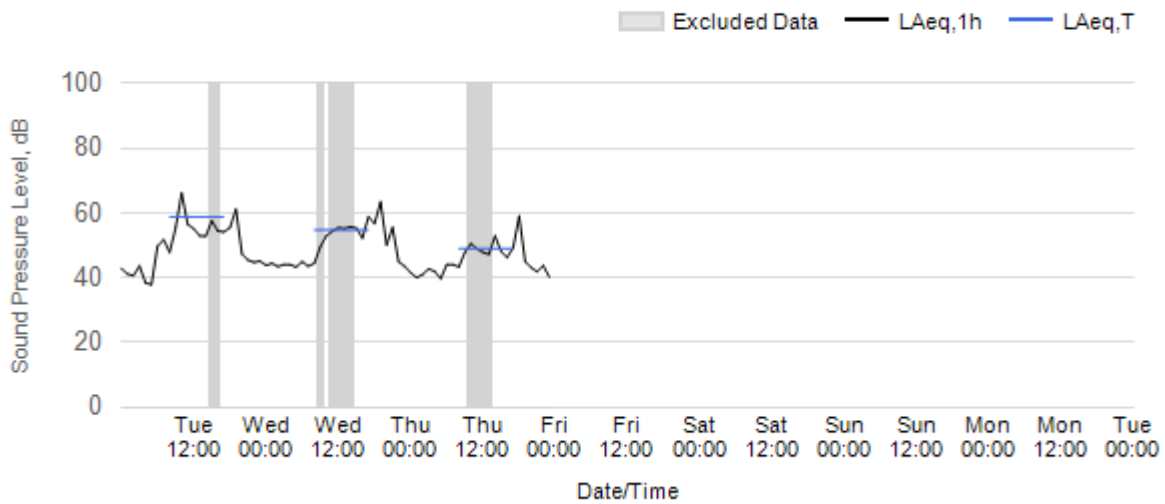


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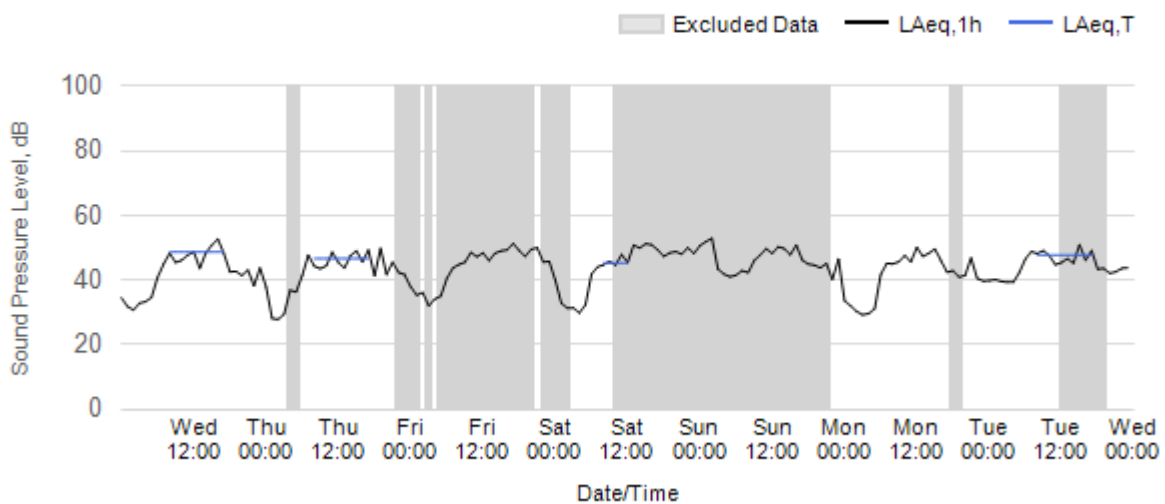
Note: Missing data was due to a communication error with the monitor

**Worksite: NP Monitoring Ref: ORC-NMP1 29 April 2026 to 5 May 2026**

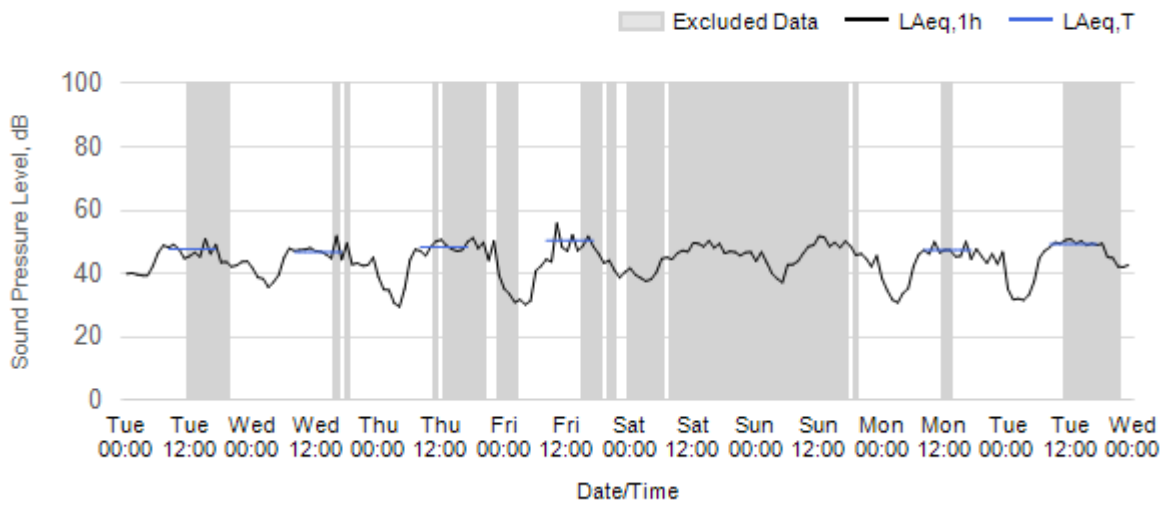


**Worksite: CSP - Monitoring Ref: CSP-NMP2**

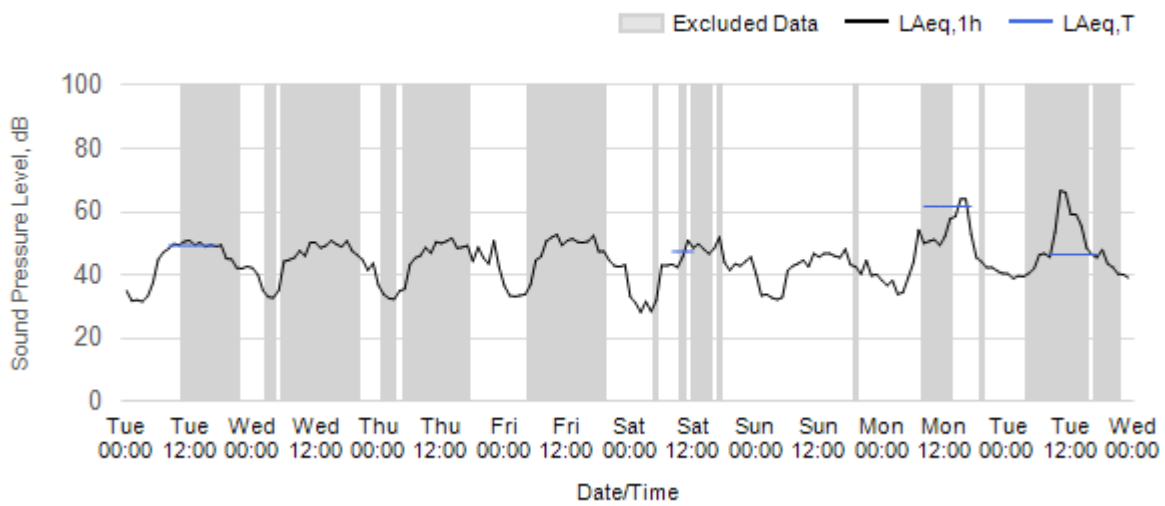
**Worksite: CSP Monitoring Ref: CSP-NMP2 01 April 2026 to 07 April 2026**



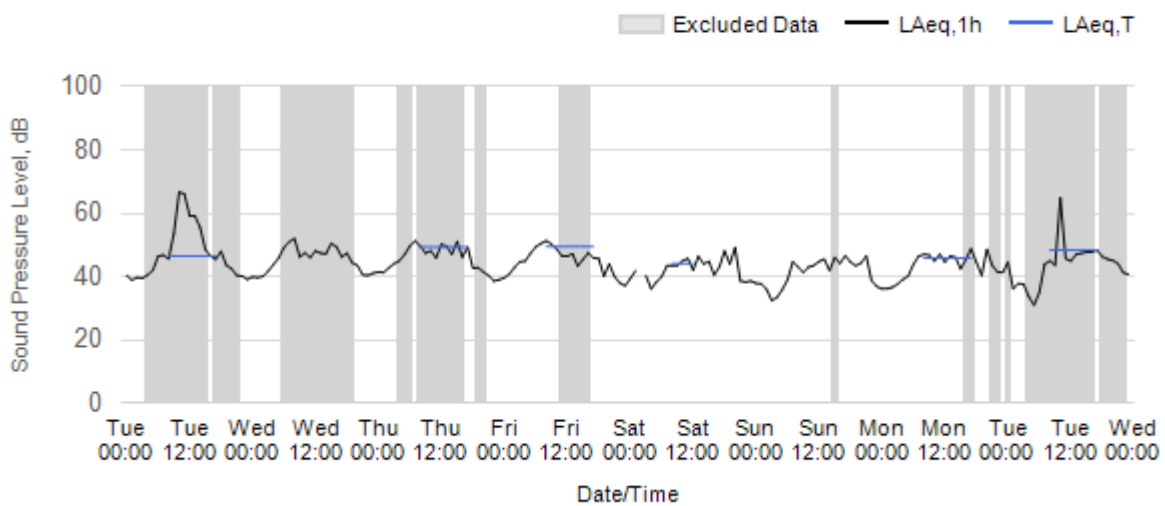
**Worksite: CSP Monitoring Ref: CSP-NMP2 08 April 2026 to 14 April 2026**



**Worksite: CSP Monitoring Ref: CSP-NMP2 15 April 2026 to 21 April 2026**

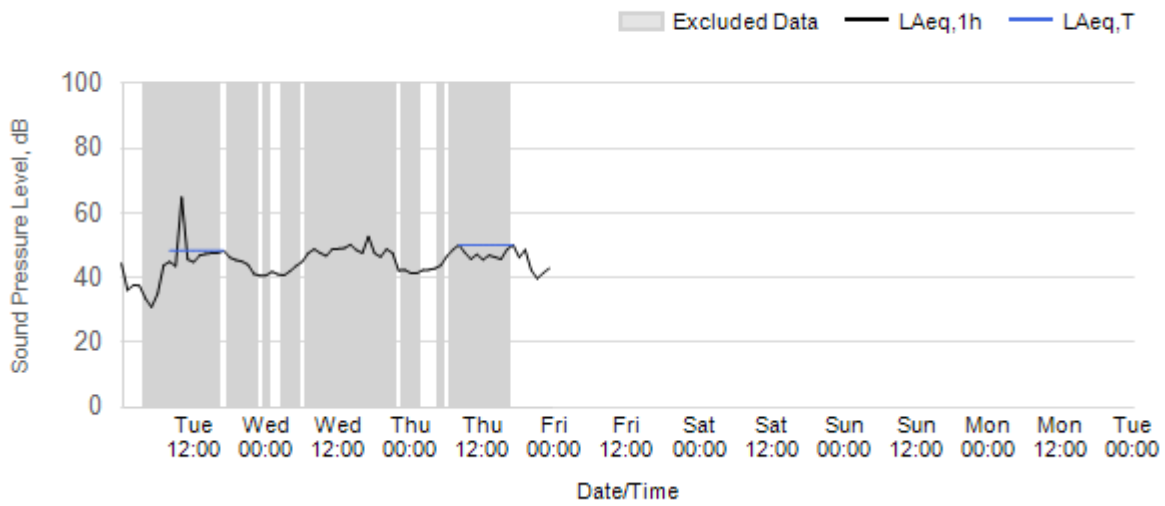


**Worksite: CSP Monitoring Ref: CSP-NMP2 22 April 2026 to 28 April 2026**



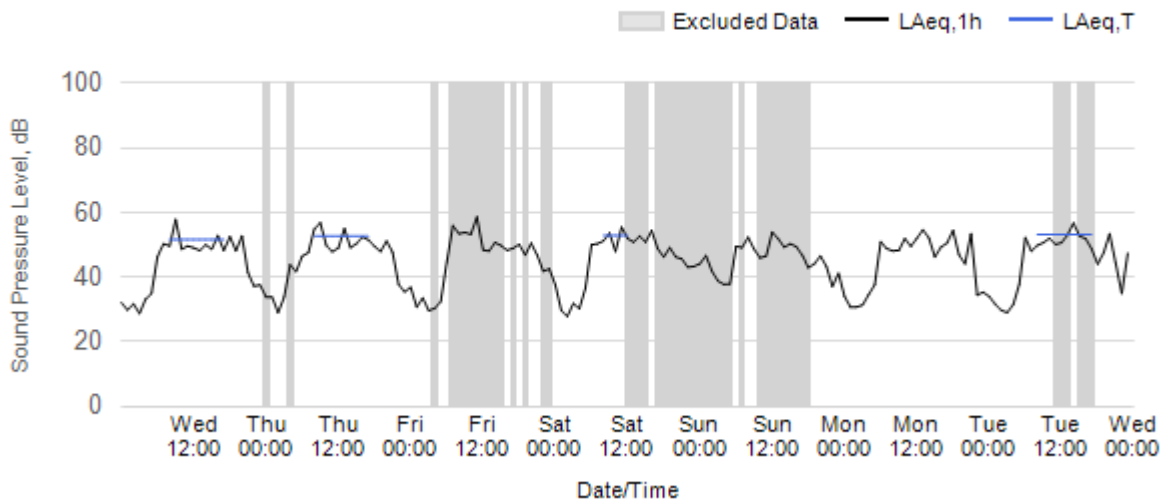
Note: Missing data was due to a communication error with the monitor

**Worksite: CSP Monitoring Ref: CSP-NMP2 29 April 2026 to 5 May 2026**

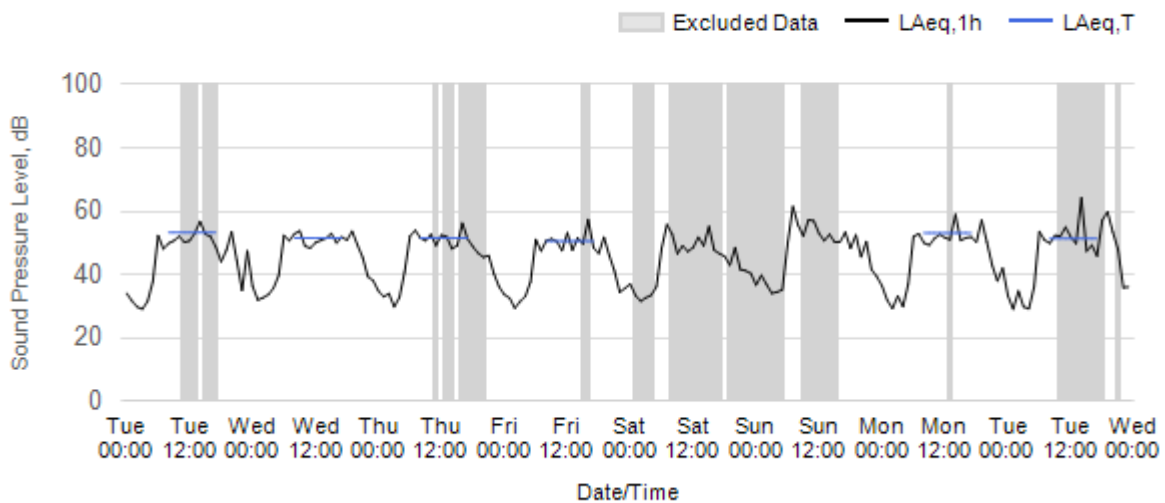


**Worksite: CSG - Monitoring Ref: CSG-NMP1**

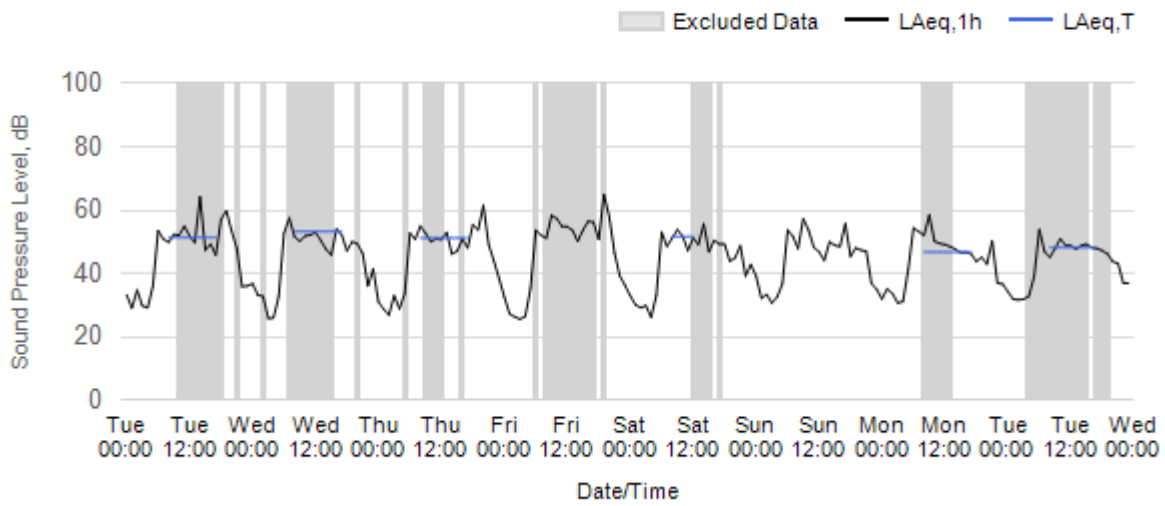
**Worksite: CSG Monitoring Ref: CSG-NMP1 01 April 2026 to 07 April 2026**



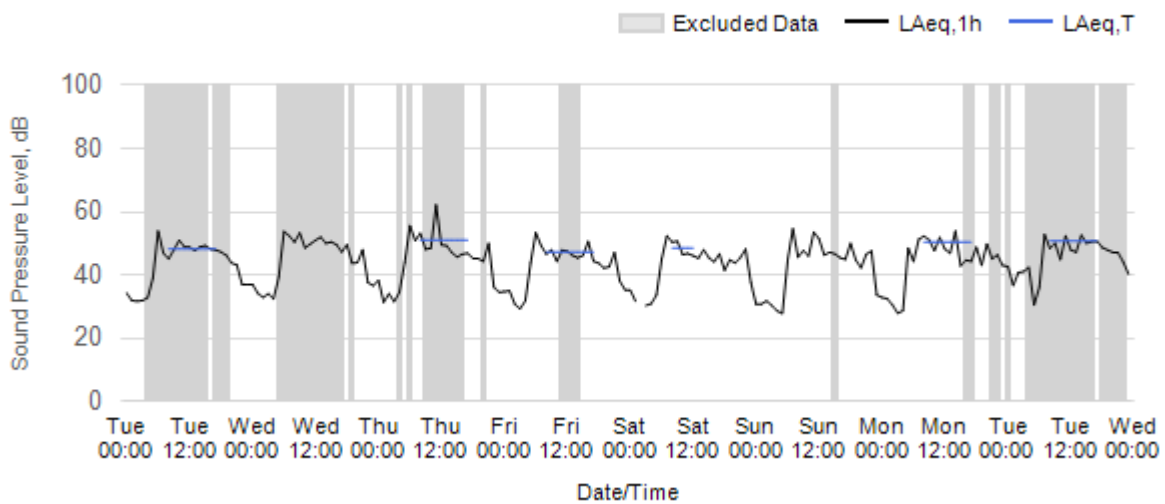
**Worksite: CSG Monitoring Ref: CSG-NMP1 08 April 2026 to 14 April 2026**



**Worksite: CSG Monitoring Ref: CSG-NMP1 15 April 2026 to 21 April 2026**

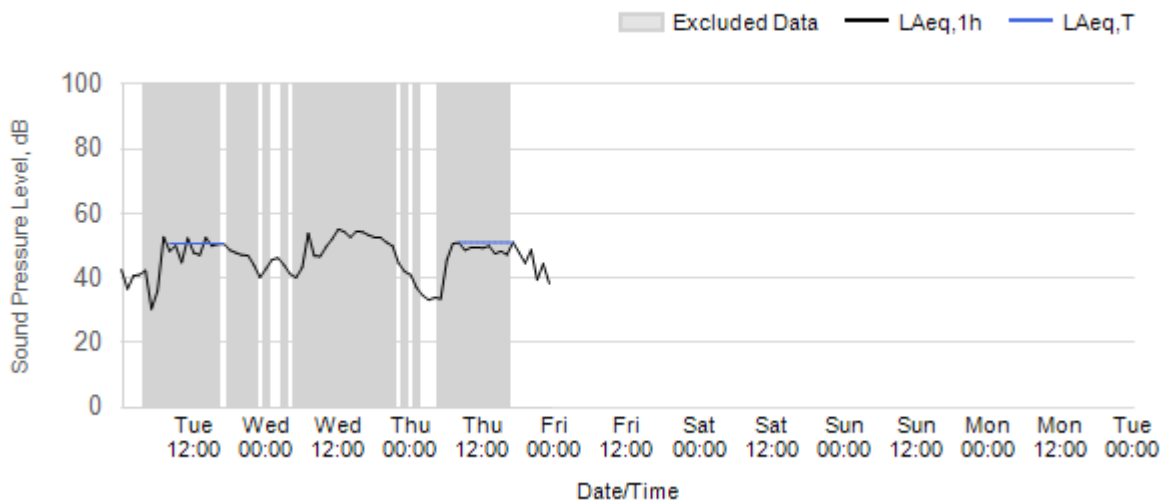


**Worksite: CSG Monitoring Ref: CSG-NMP1 22 April 2026 to 28 April 2026**



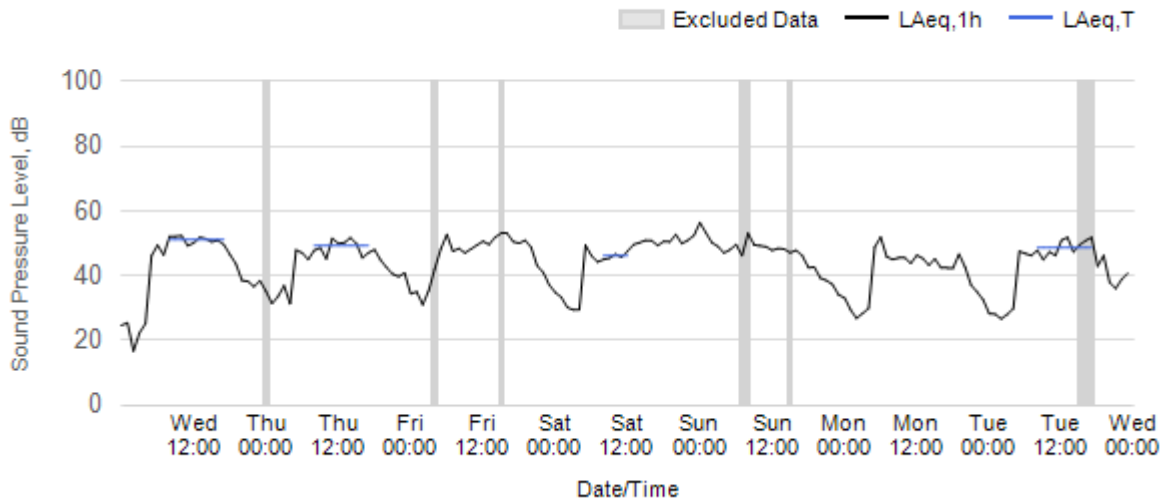
Note: Missing data was due to a communication error with the monitor

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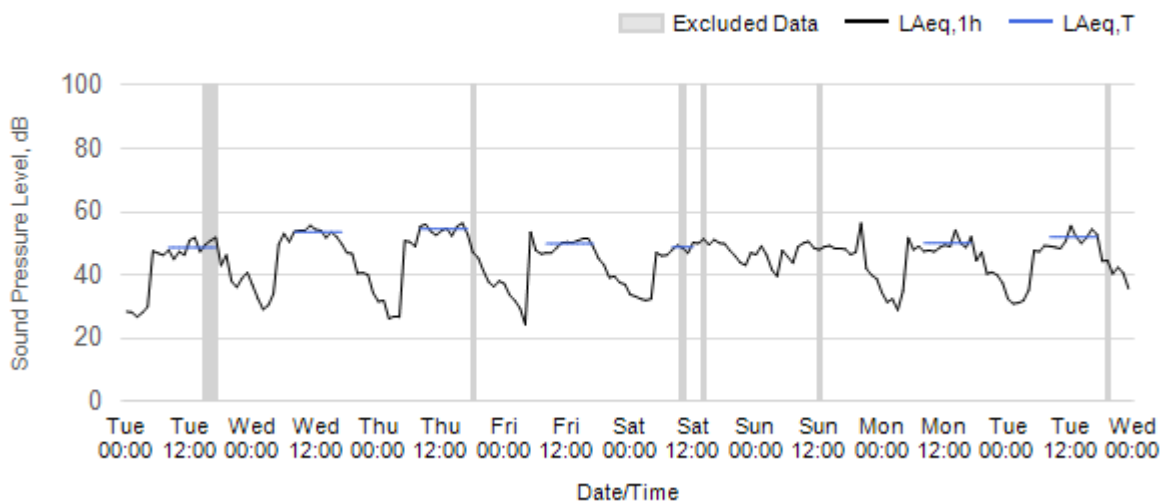


# Worksite: NP - Monitoring Ref: BFH-NMP1

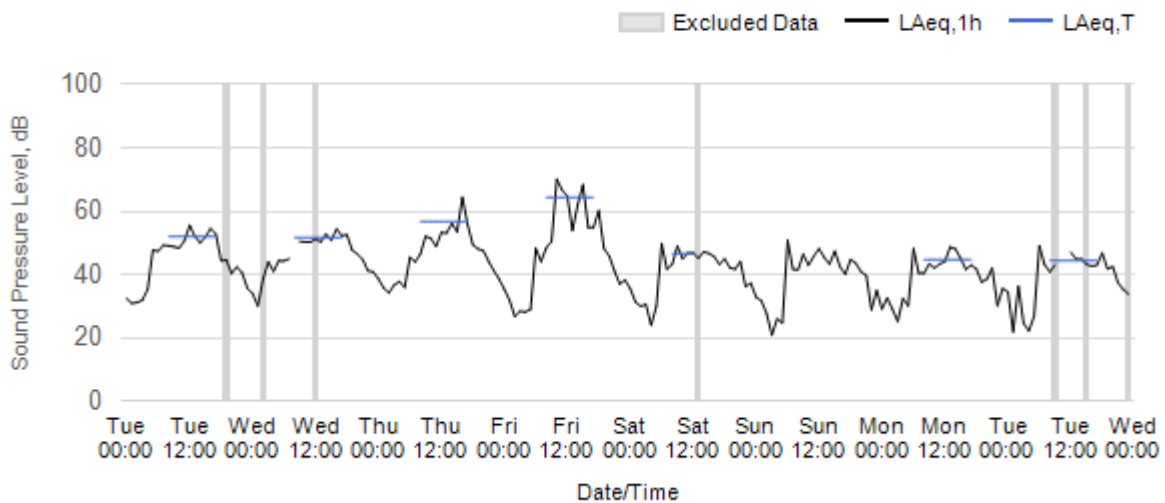
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Worksite: NP Monitoring Ref: BFH-NMP1 08 April 2026 to 14 April 2026

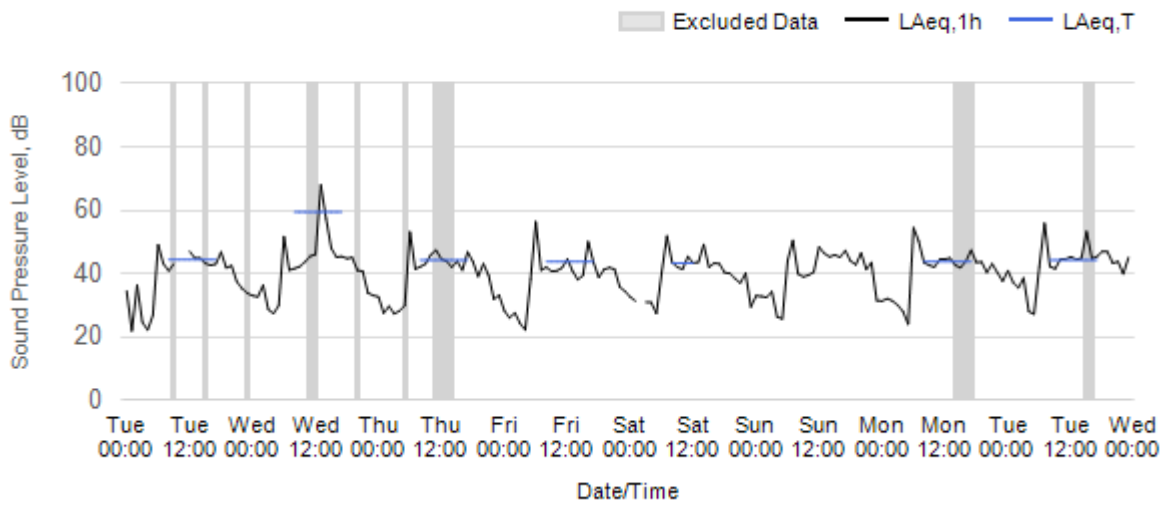


Worksite: NP Monitoring Ref: BFH-NMP1 15 April 2026 to 21 April 2026



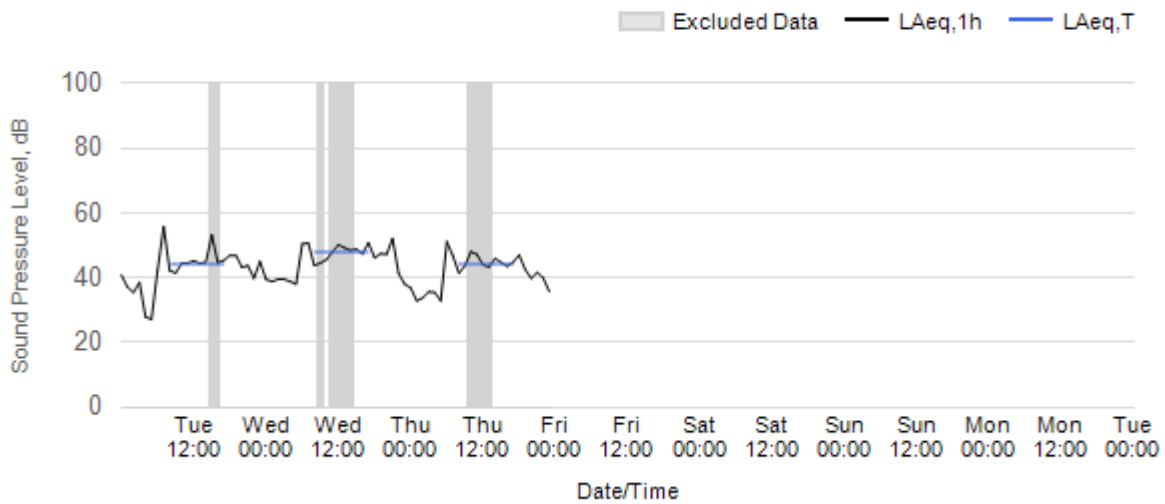
Note: Missing data was due to a communication error with the monitor

**Worksite: NP Monitoring Ref: BFH-NMP1 22 April 2026 to 28 April 2026**



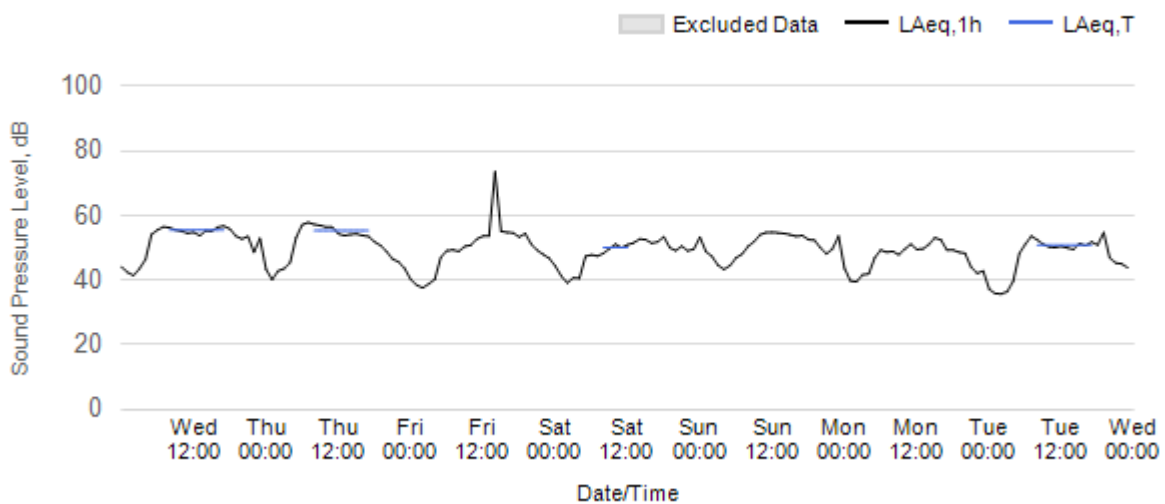
Note: Missing data was due to a communication error with the monitor

**Worksite: NP Monitoring Ref: BFH-NMP1 29 April 2026 to 5 May 2026**

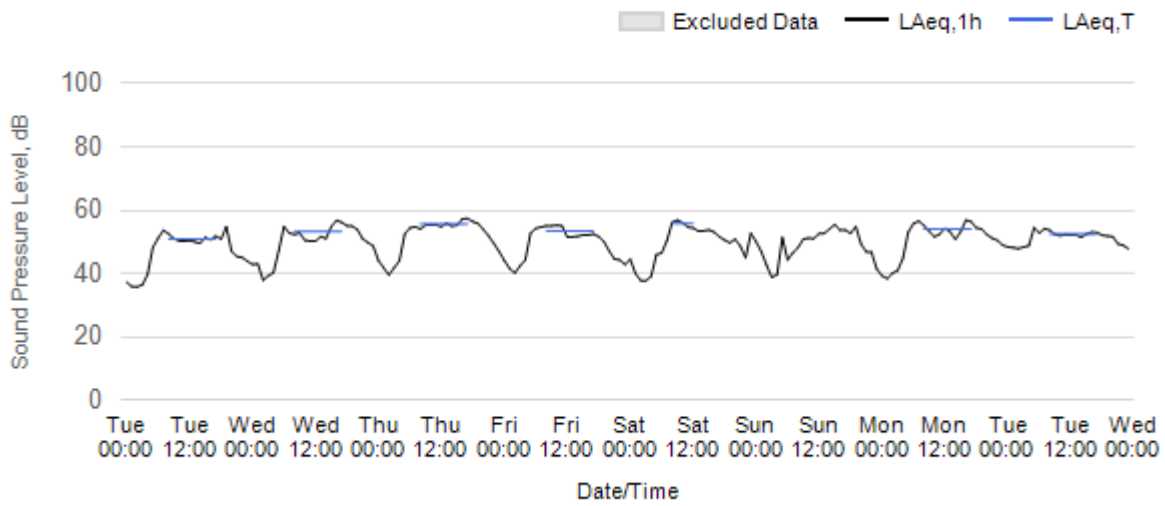


**Worksite: WGT - Monitoring Ref: ER-NMP1**

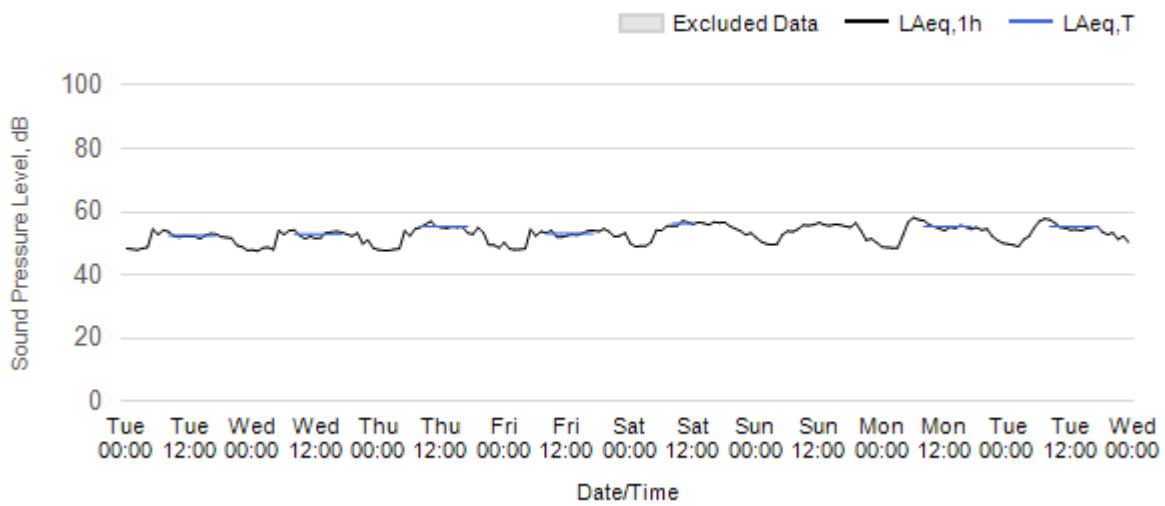
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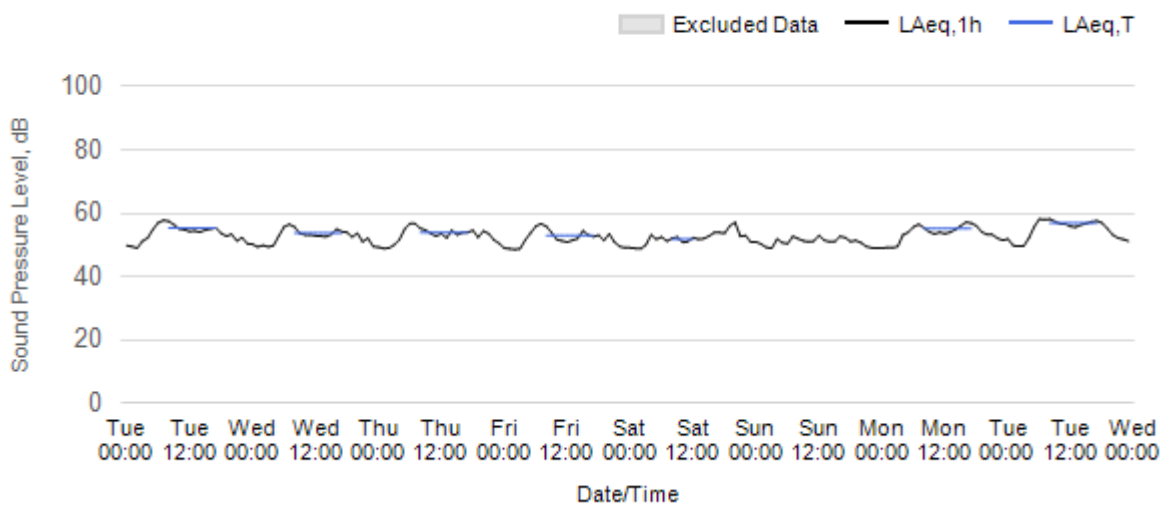
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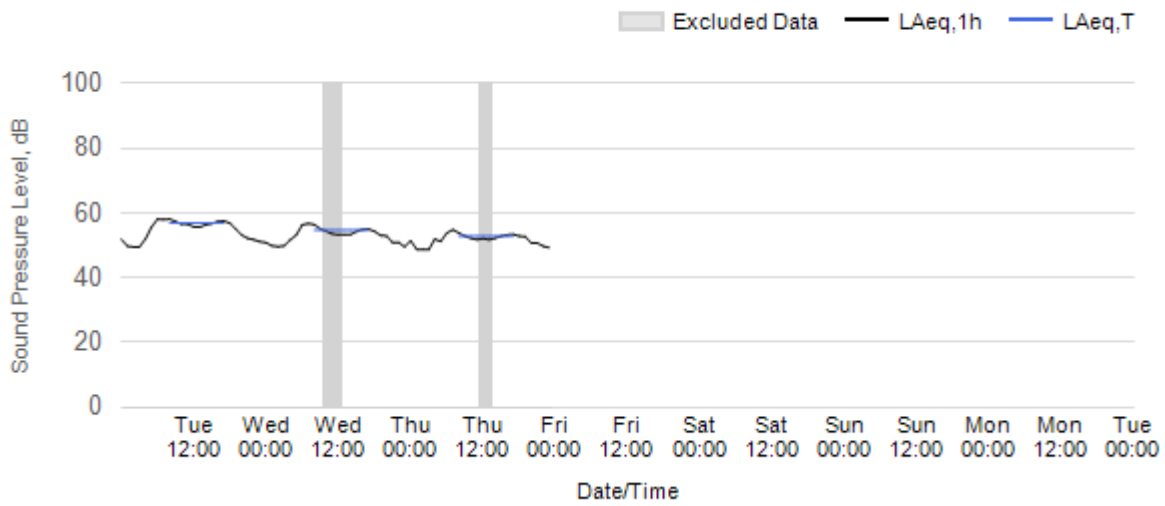
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Worksite: WGT Monitoring Ref: ER-NMP1 22 April 2026 to 28 April 2026

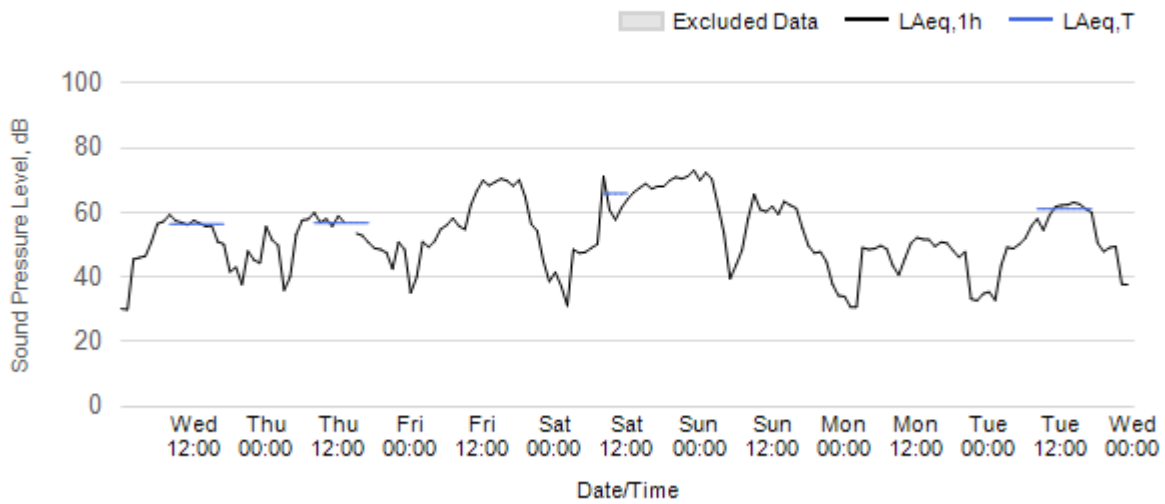


**Worksite: WGT Monitoring Ref: ER-NMP1 29 April 2026 to 5 May 2026**



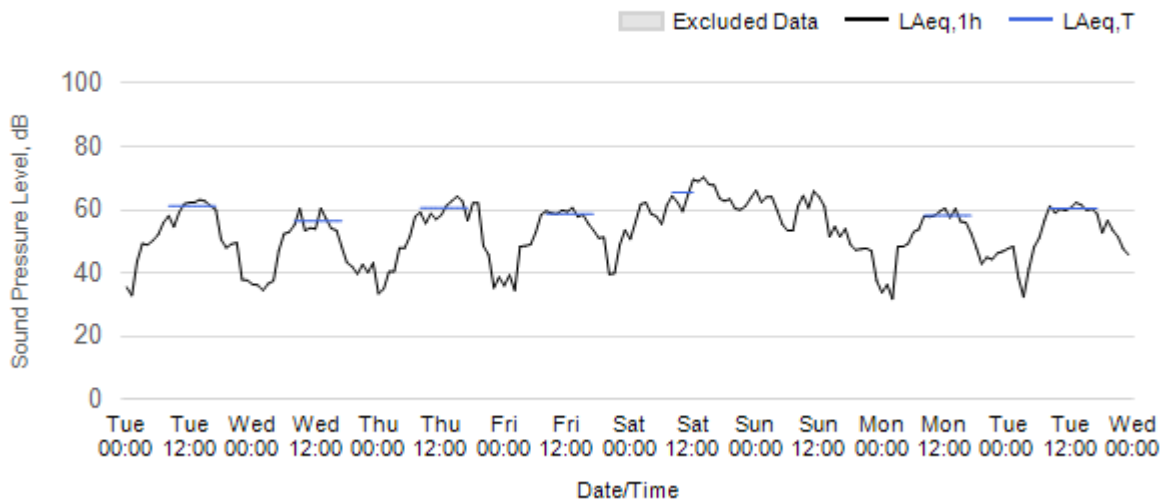
**Worksite: SHC - Monitoring Ref: SHC-NMP1**

**Worksite: SHC Monitoring Ref: SHC-NMP1 01 April 2026 to 07 April 2026**

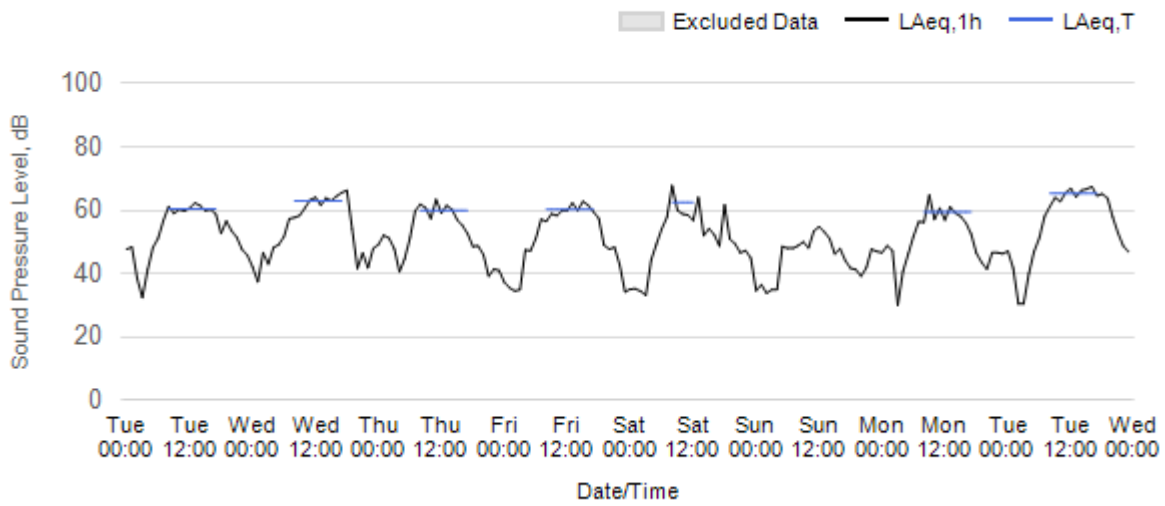


Note: Missing data due to a fault with monitoring equipment.

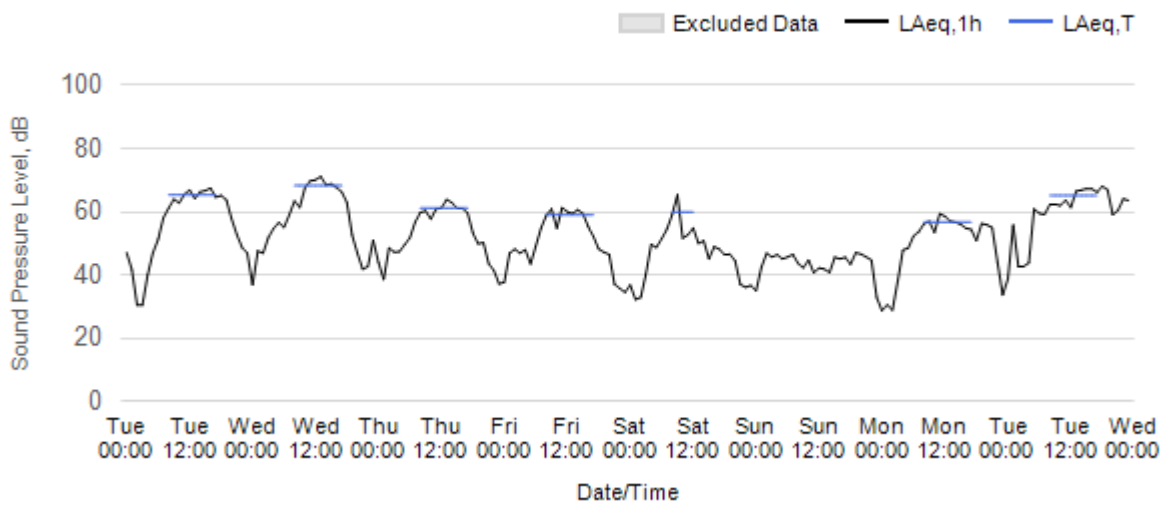
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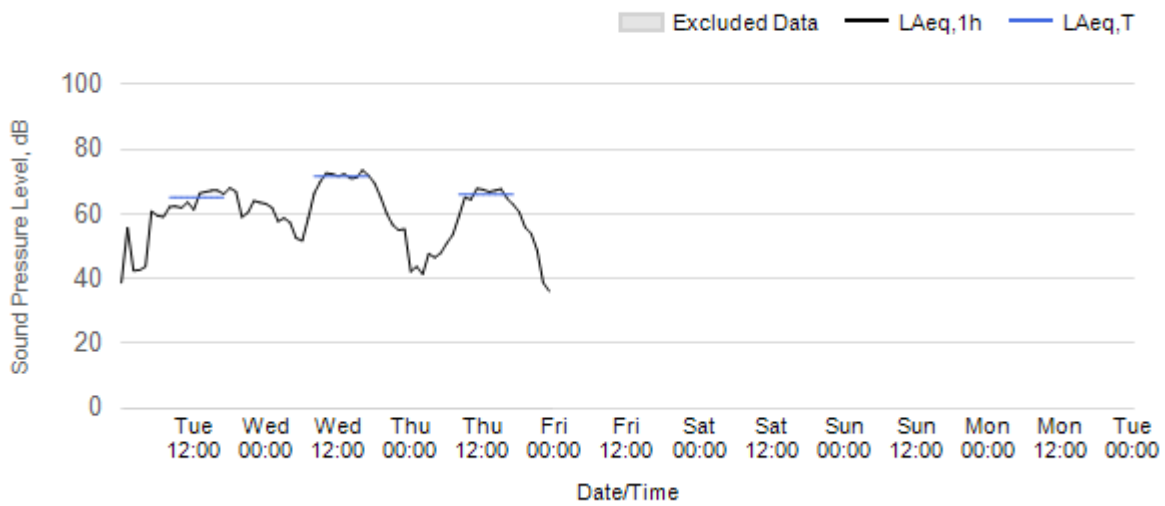
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Worksite: SHC Monitoring Ref: SHC-NMP1 22 April 2026 to 28 April 2026

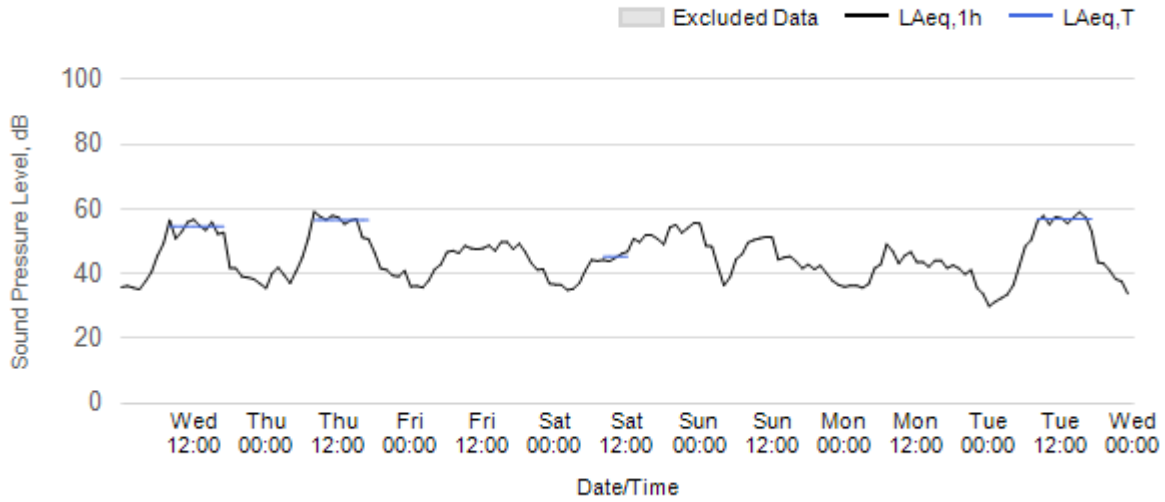


Worksite: SHC Monitoring Ref: SHC-NMP1 29 April 2026 to 5 May 2026

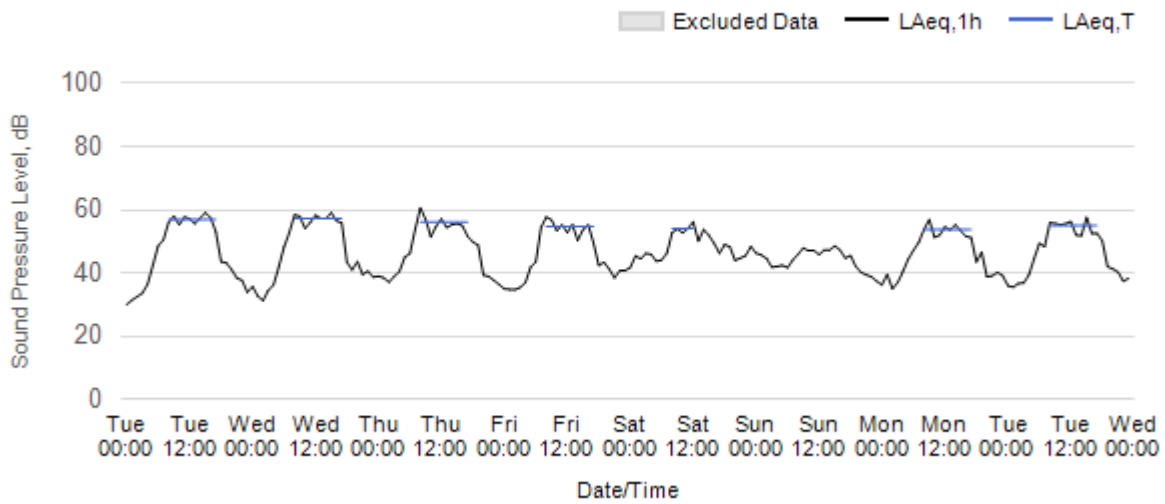


# Worksite: WAD - Monitoring Ref: WAD-NMP2

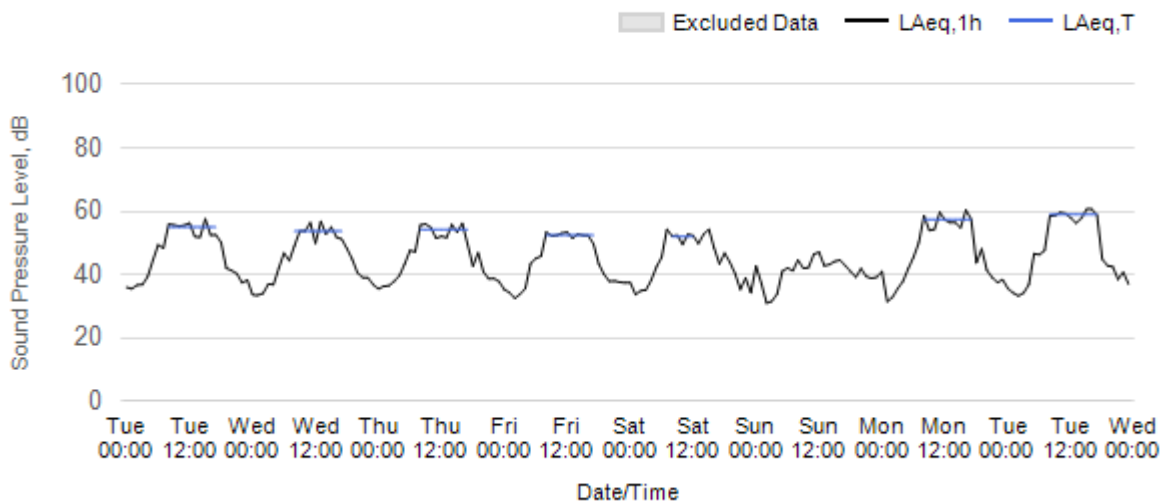
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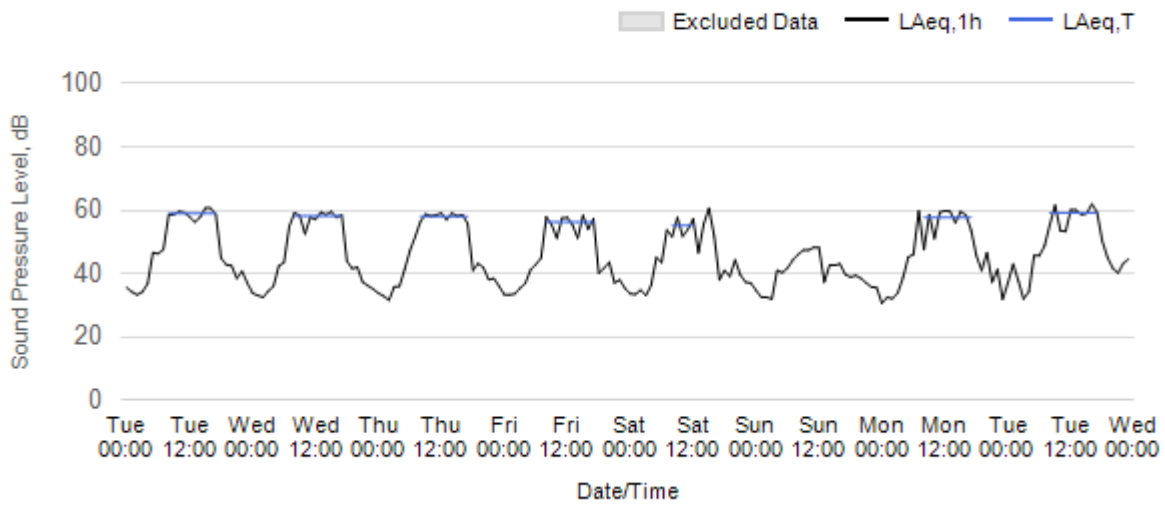
Worksite: WAD Monitoring Ref: WAD-NMP2 08 April 2026 to 14 April 2026



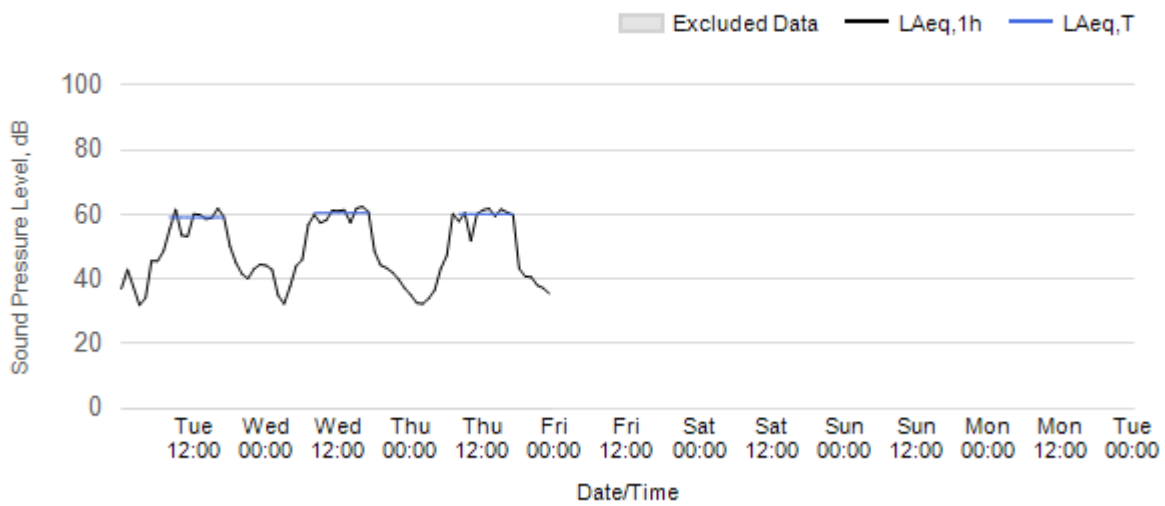
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**Worksite: WAD Monitoring Ref: WAD-NMP2 22 April 2026 to 28 April 2026**

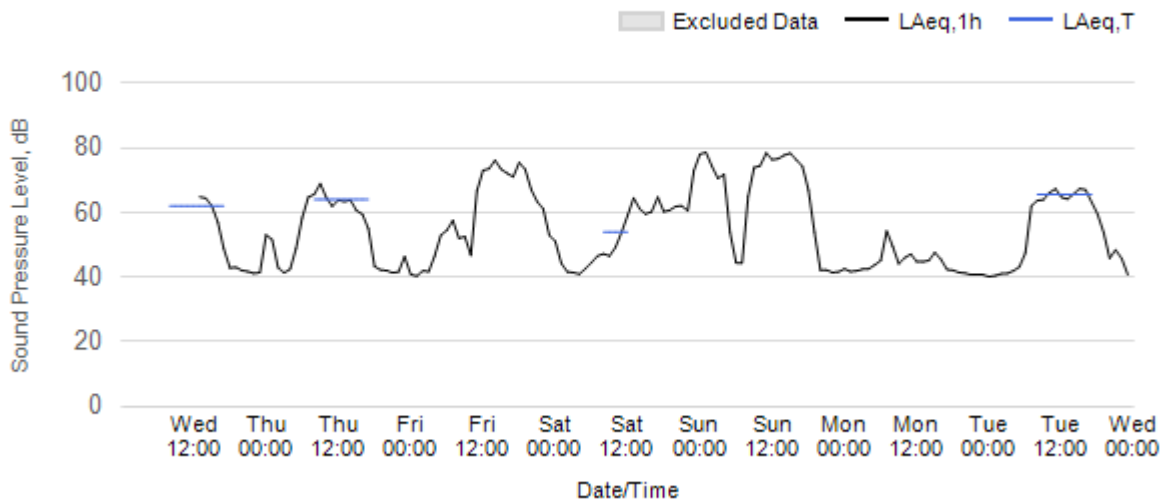


**Worksite: WAD Monitoring Ref: WAD-NMP2 29 April 2026 to 5 May 2026**



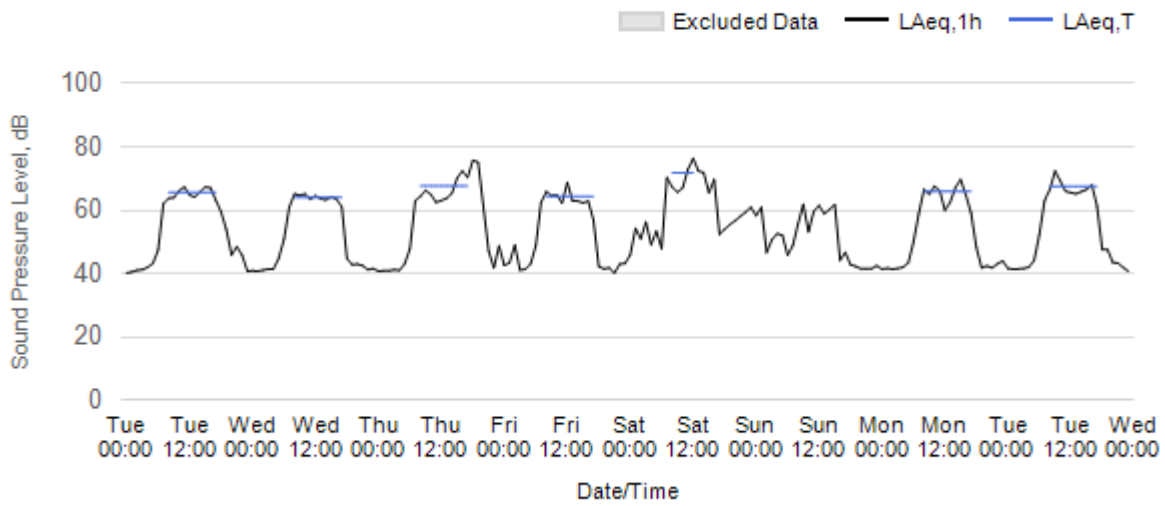
**Worksite: WDL - Monitoring Ref: WDL-NMP1**

**Worksite: WDL Monitoring Ref: WDL-NMP1 01 April 2026 to 07 April 2026**

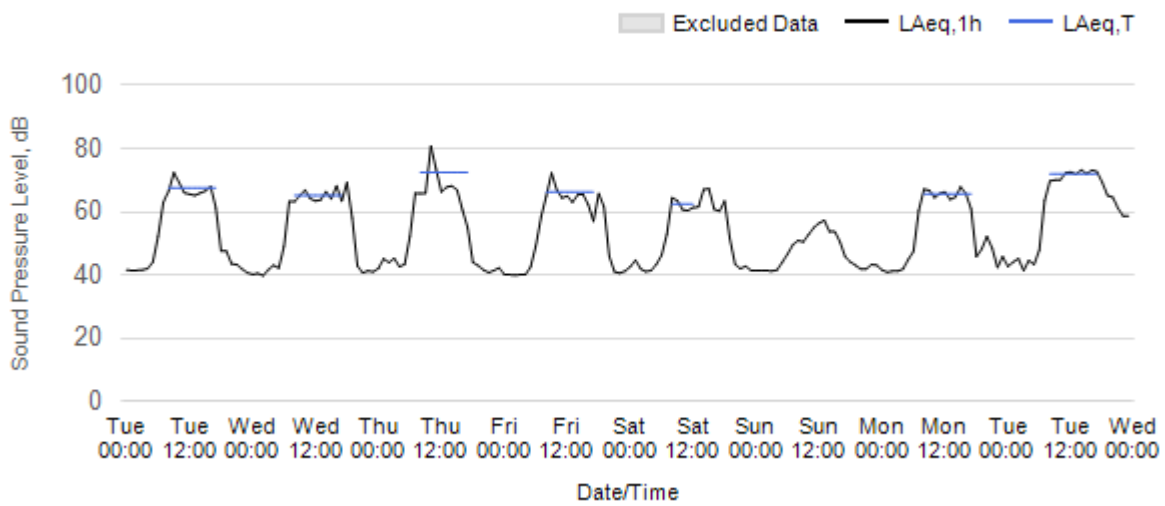


Note: Missing data due to a fault with monitoring equipment.

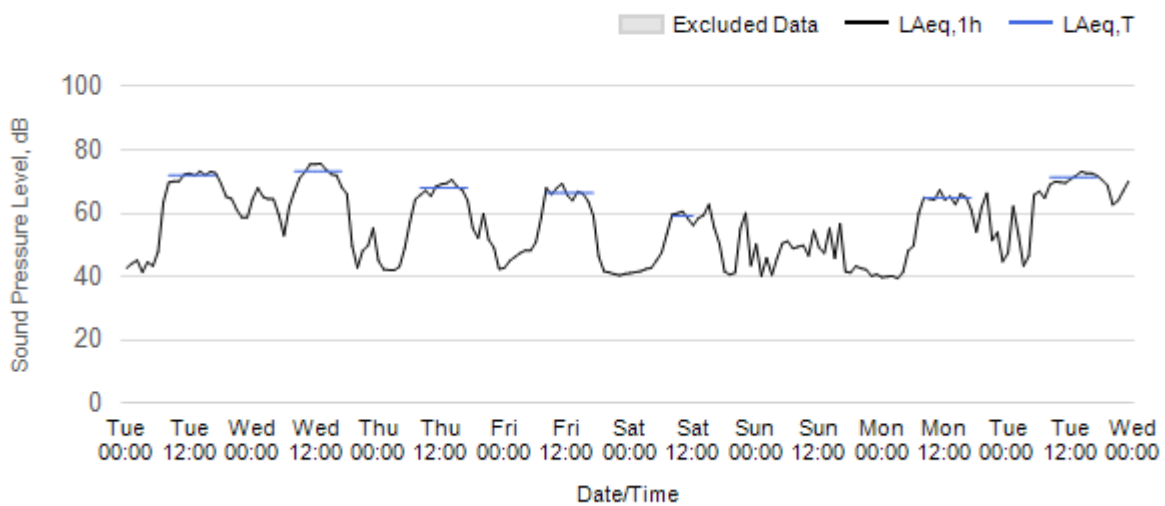
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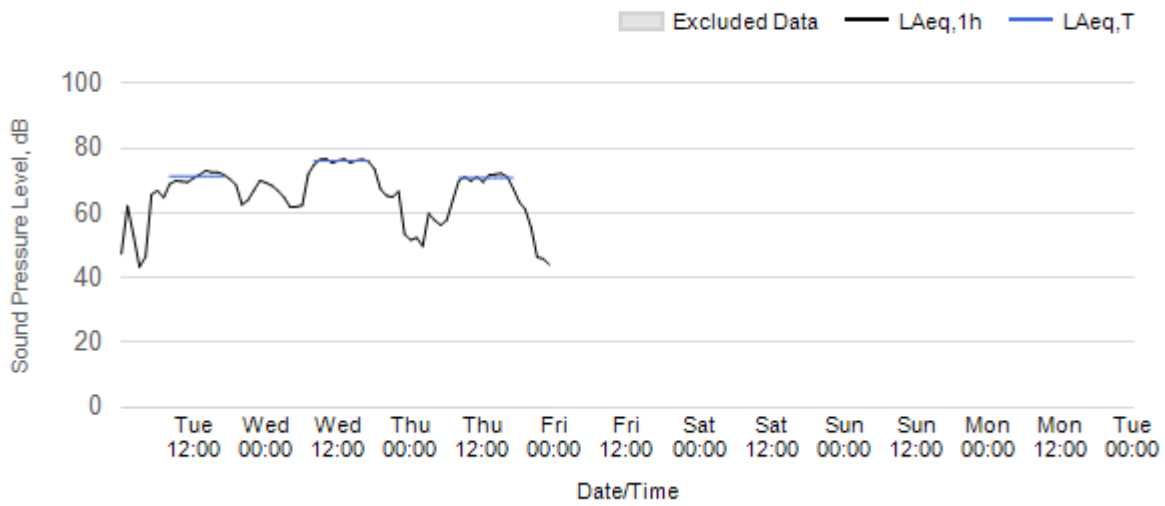
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Worksite: WDL Monitoring Ref: WDL-NMP1 22 April 2026 to 28 April 2026

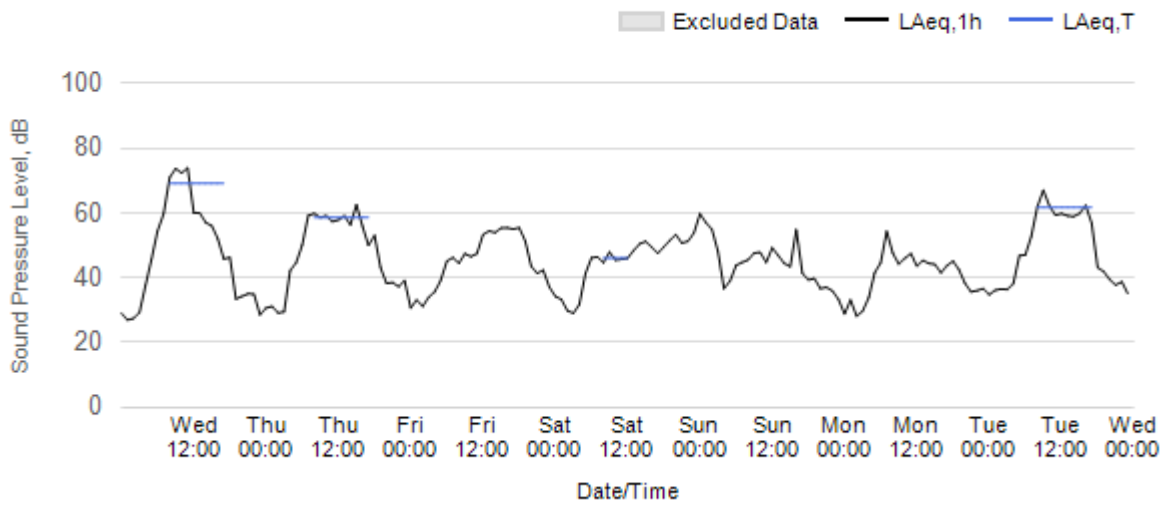


**Worksite: WDL Monitoring Ref: WDL-NMP1 29 April 2026 to 5 May 2026**

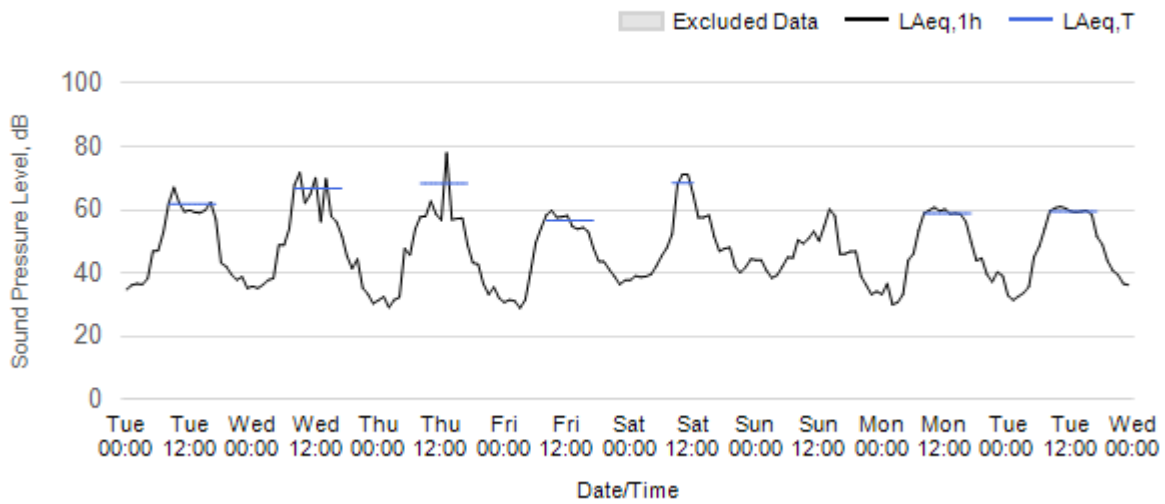


**Worksite: QAR - Monitoring Ref: LSF-NMP1**

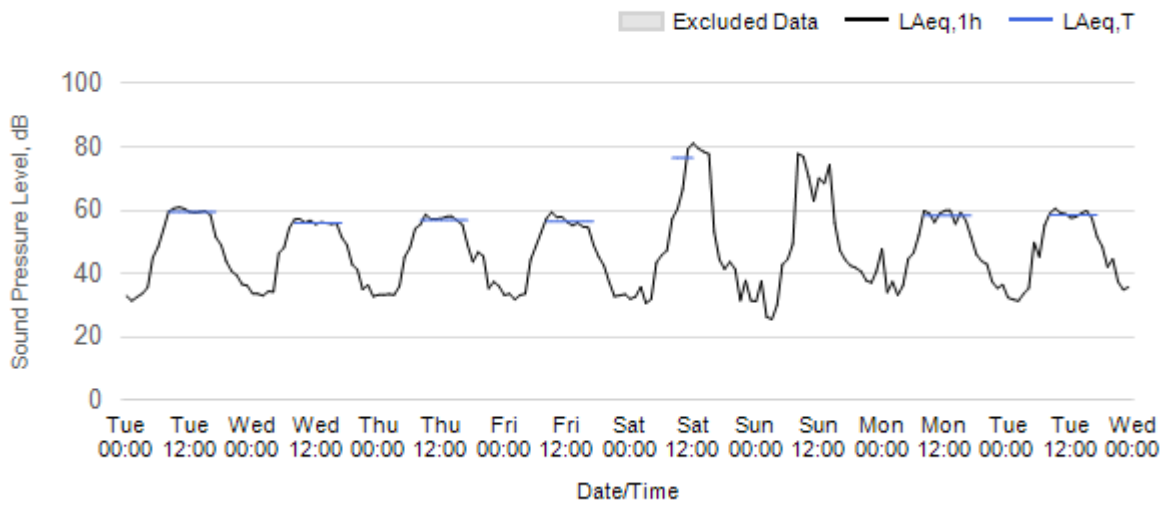
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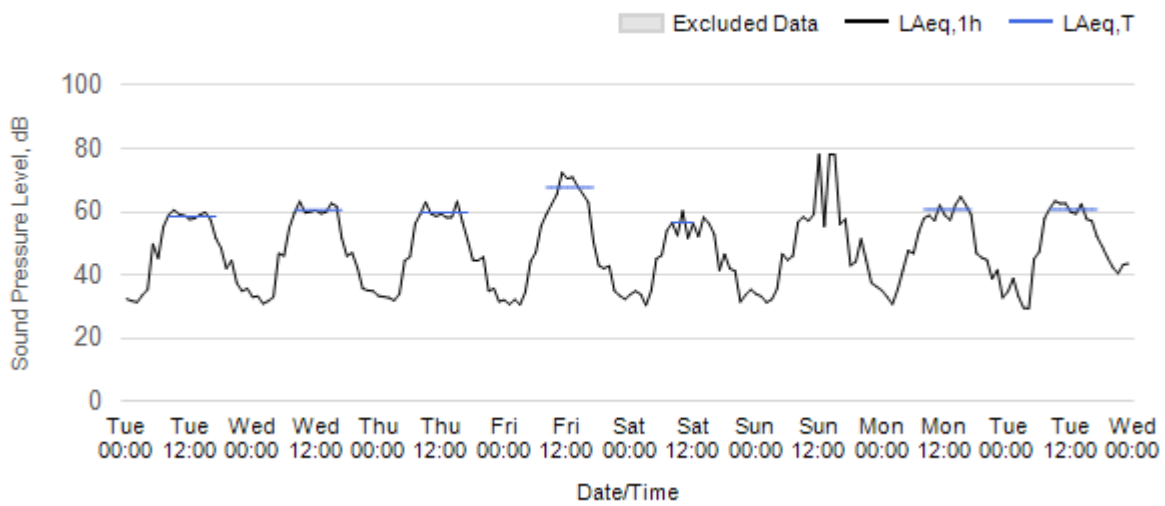
**Worksite: LSF Monitoring Ref: LSF-NMP1 08 April 2026 to 14 April 2026**



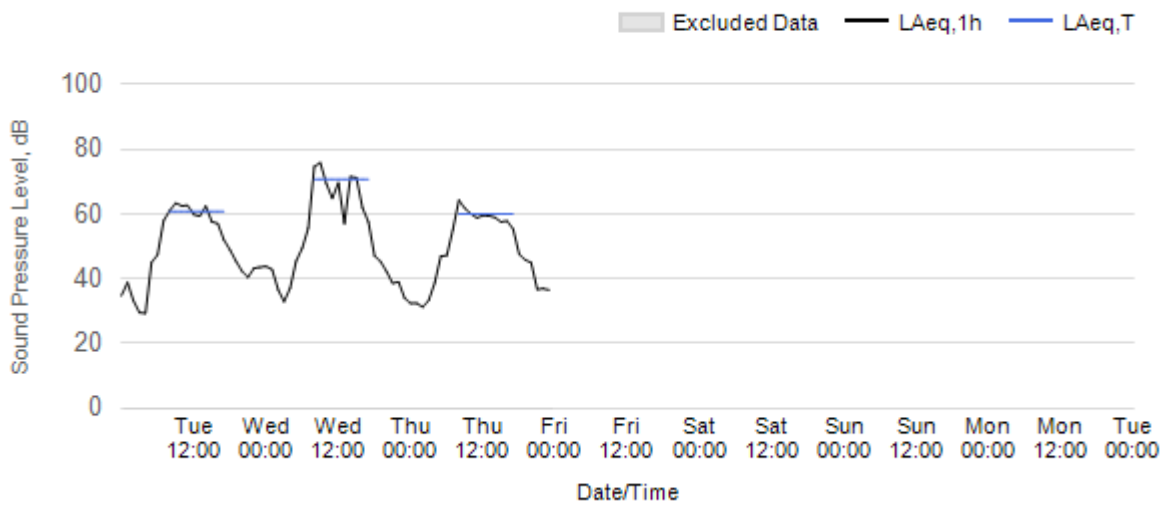
**Worksite: LSF Monitoring Ref: LSF-NMP1 15 April 2026 to 21 April 2026**



**Worksite: LSF Monitoring Ref: LSF-NMP1 22 April 2026 to 28 April 2026**

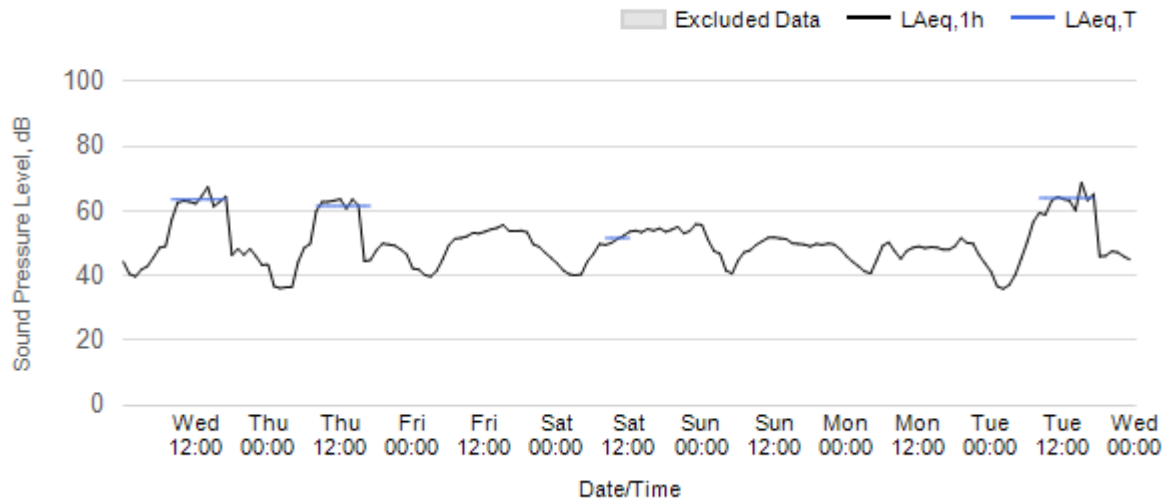


**Worksite: LSF Monitoring Ref: LSF-NMP1 29 April 2026 to 5 May 2026**

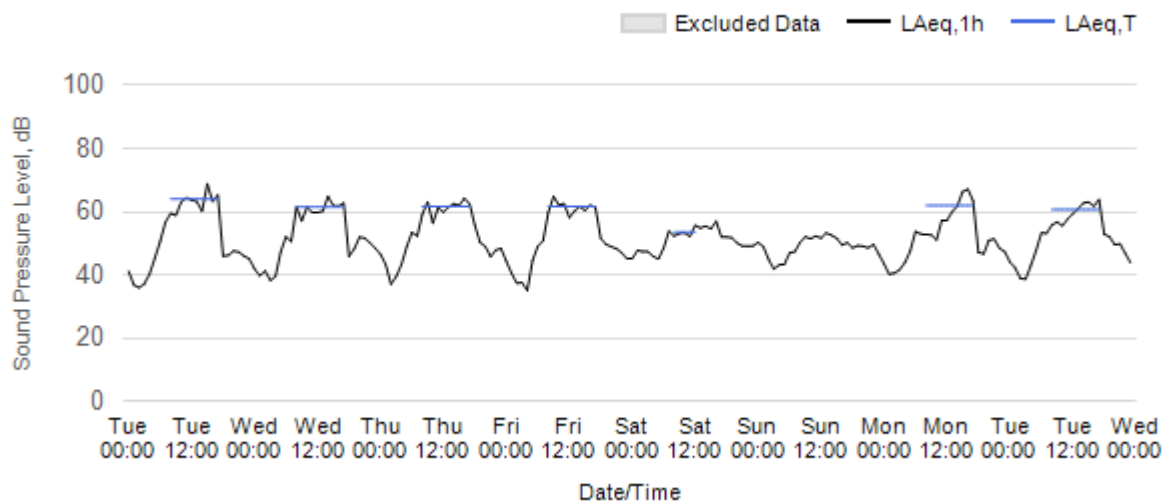


## Worksite: MF - Monitoring Ref: MF-NMP1

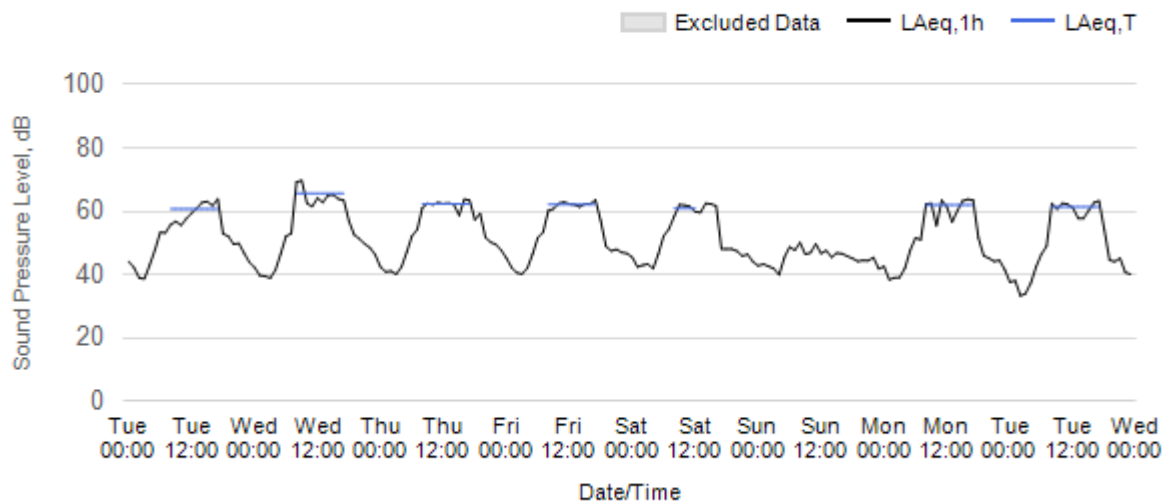
Worksite: MF Monitoring Ref: MF-NMP1 01 April 2026 to 07 April 2026



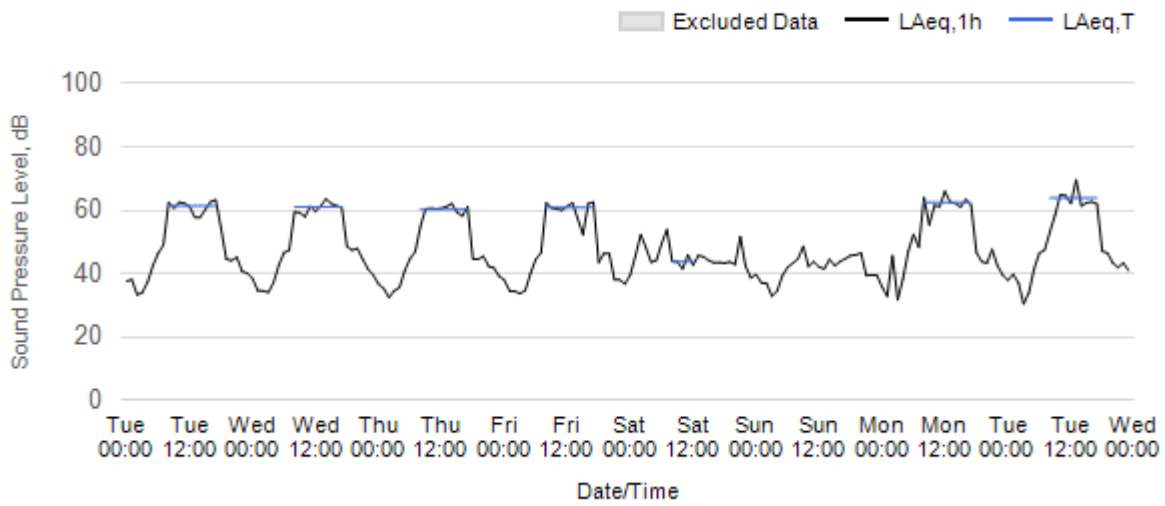
Worksite: MF Monitoring Ref: MF-NMP1 08 April 2026 to 14 April 2026



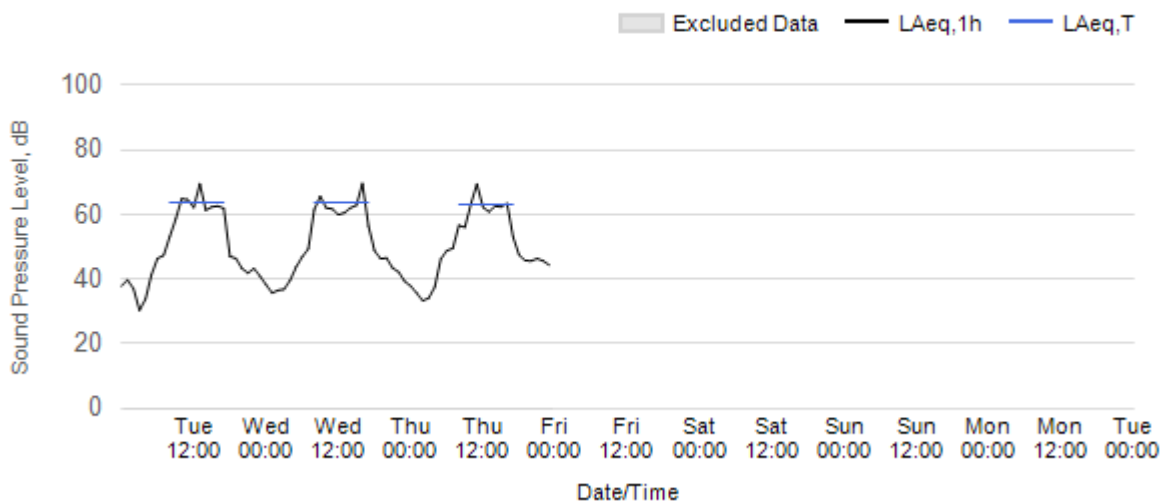
Worksite: MF Monitoring Ref: MF-NMP1 15 April 2026 to 21 April 2026



**Worksite: MF Monitoring Ref: MF-NMP1 22 April 2026 to 28 April 2026**

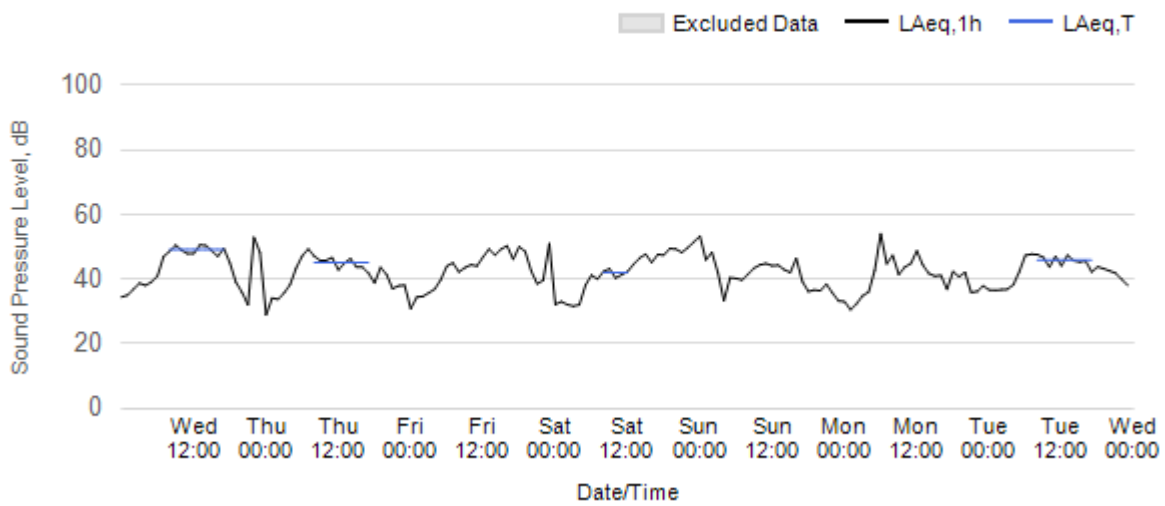


**Worksite: MF Monitoring Ref: MF-NMP1 29 April 2026 to 5 May 2026**

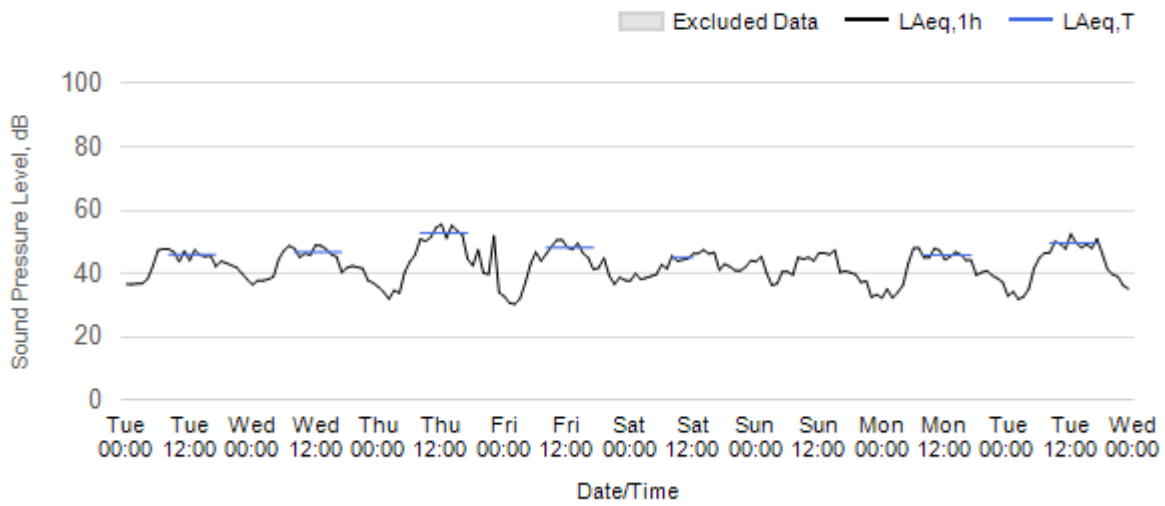


**Worksite: TVV - Monitoring Ref: TVV-NMP1**

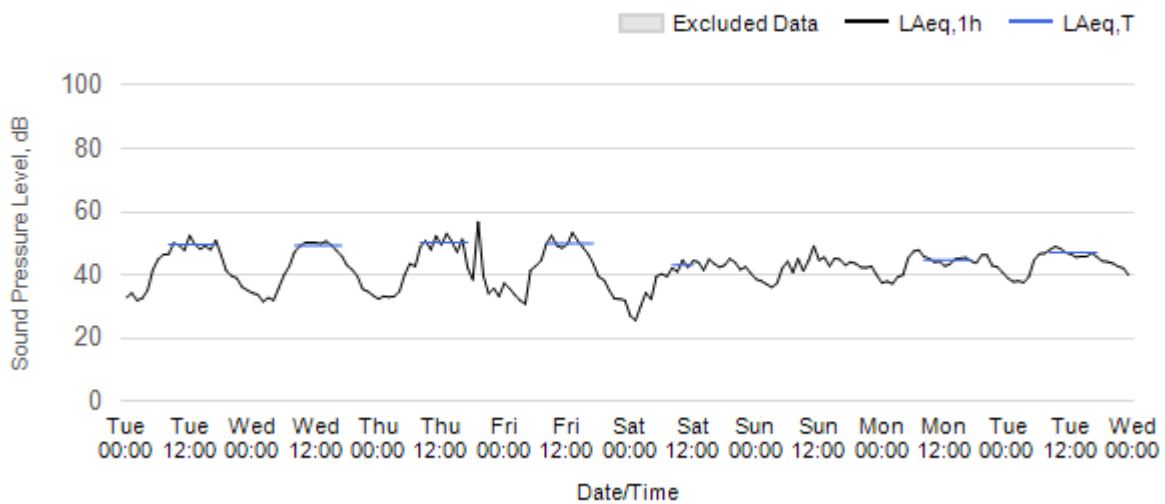
**Worksite: TVV Monitoring Ref: TVV-NMP1 01 April 2026 to 07 April 2026**



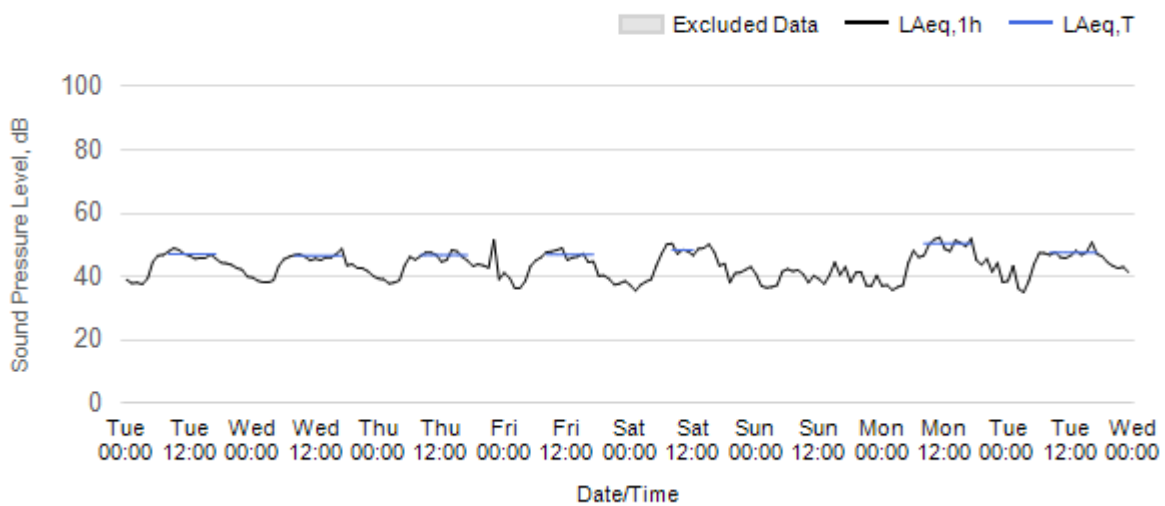
**Worksite: TVV Monitoring Ref: TVV-NMP1 08 April 2026 to 14 April 2026**



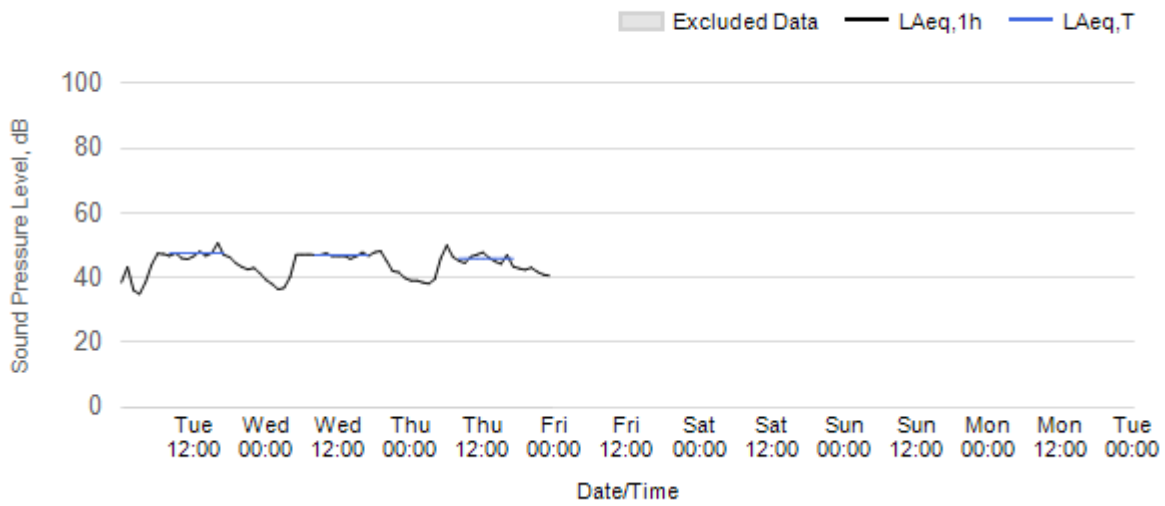
**Worksite: TVV Monitoring Ref: TVV-NMP1 15 April 2026 to 21 April 2026**



**Worksite: TVV Monitoring Ref: TVV-NMP1 22 April 2026 to 28 April 2026**

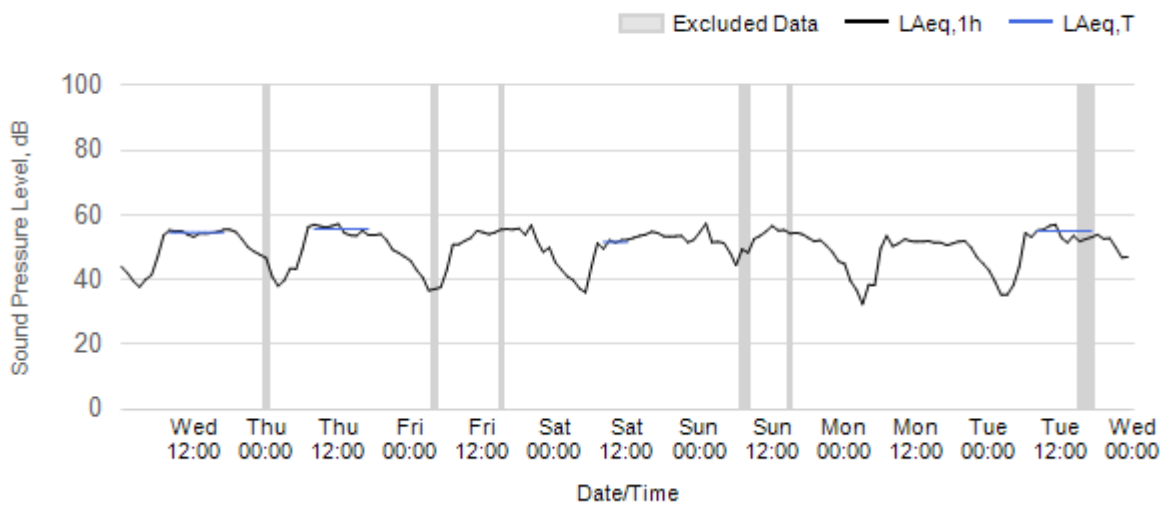


**Worksite: TVV Monitoring Ref: TVV-NMP1 29 April 2026 to 5 May 2026**

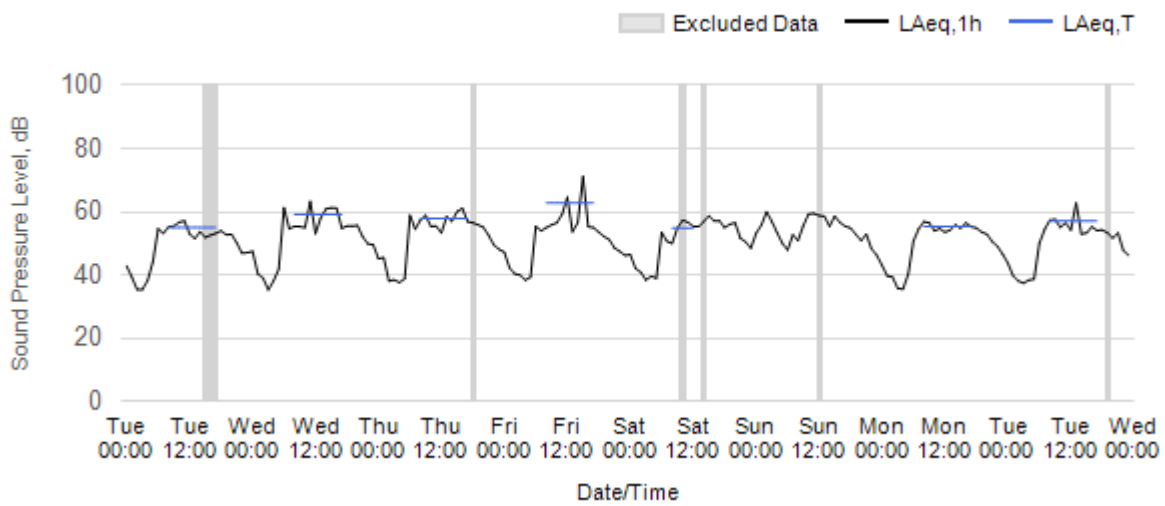


**Worksite: CHSM - Monitoring Ref: MDL-NMP1**

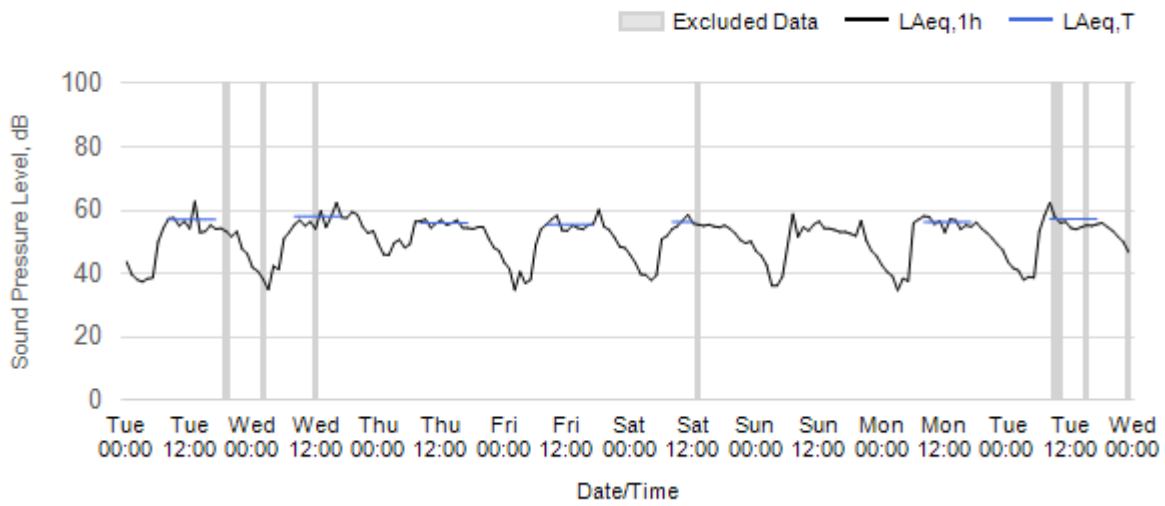
**Worksite: CHSM Monitoring Ref: MDL-NMP1 01 April 2026 to 07 April 2026**



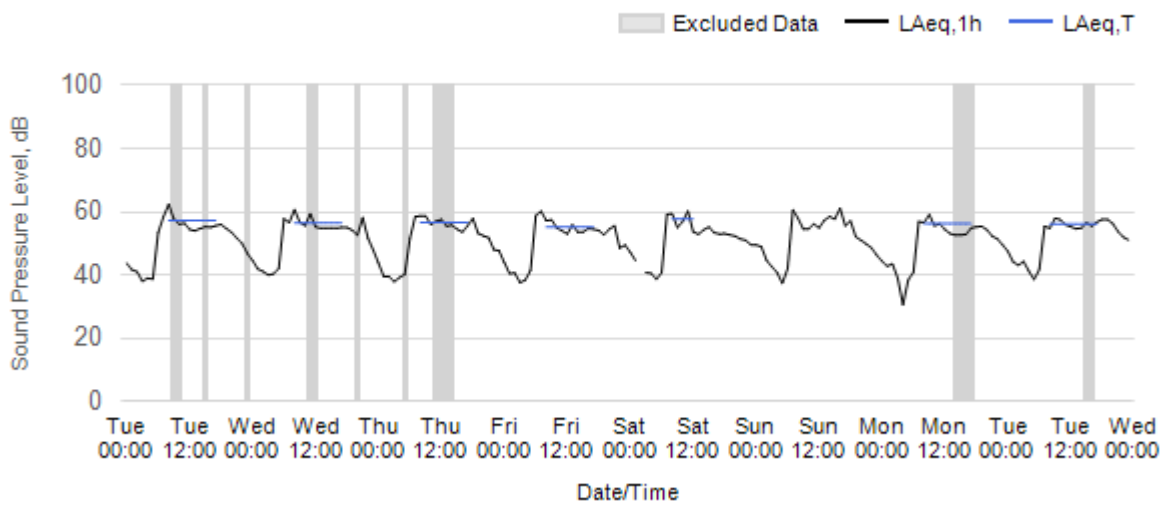
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**Worksite: CHSM Monitoring Ref: MDL-NMP1 15 April 2026 to 21 April 2026**

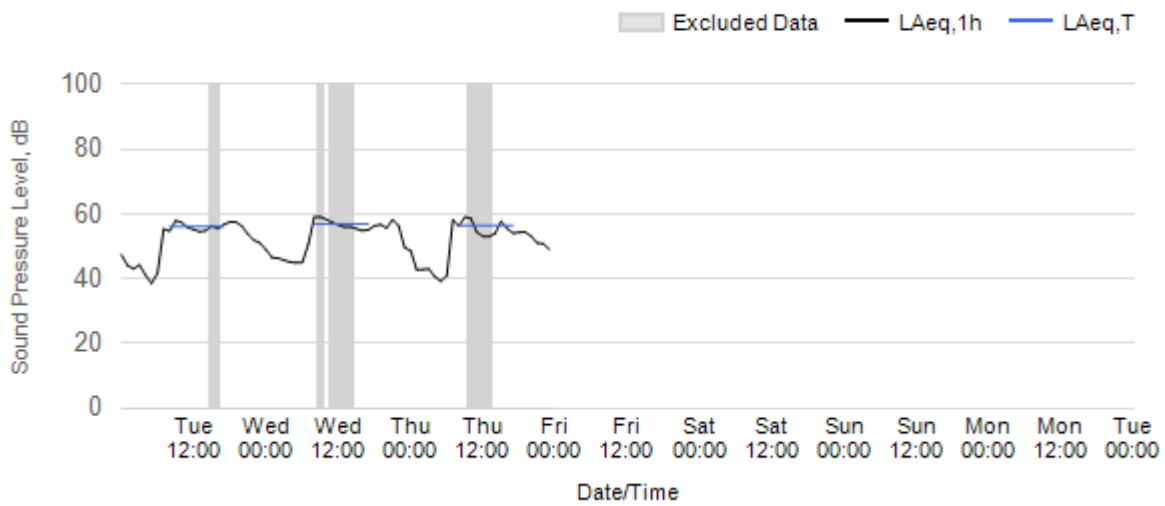


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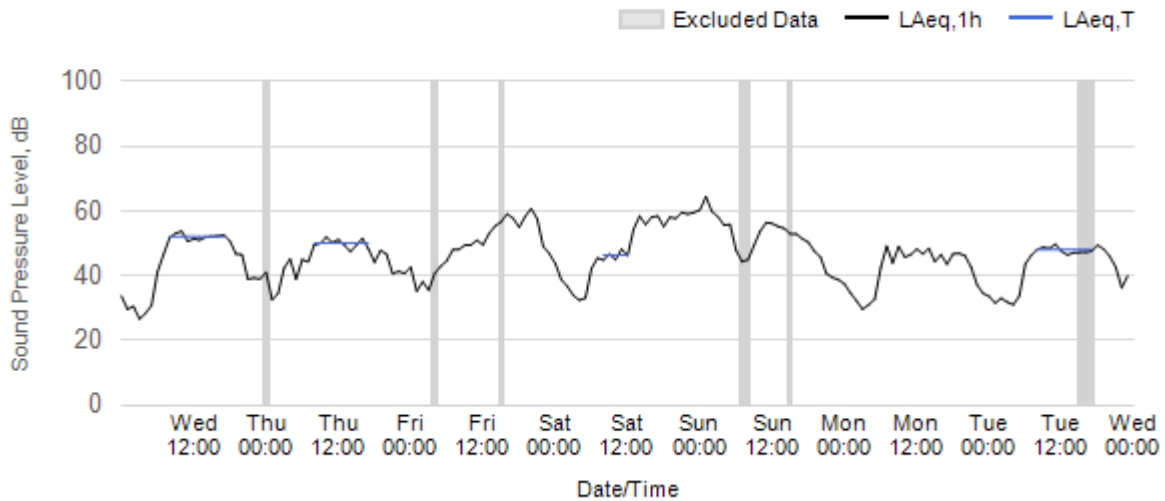
Note: Missing data was due to a communication error with the monitor

**Worksite: CHSM Monitoring Ref: MDL-NMP1 29 April 2026 to 5 May 2026**

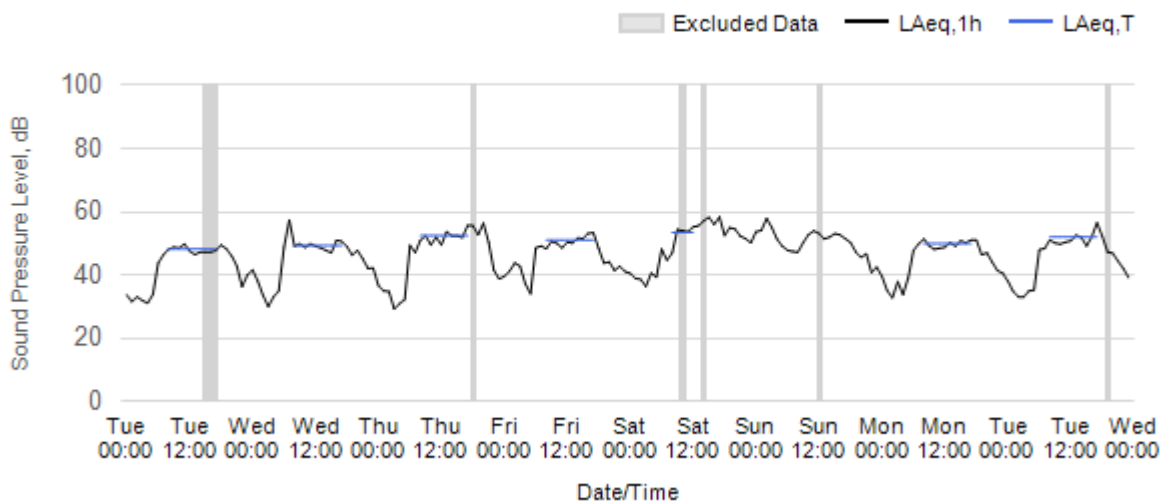


# Worksite: SH - Monitoring Ref: PKF-NMP1

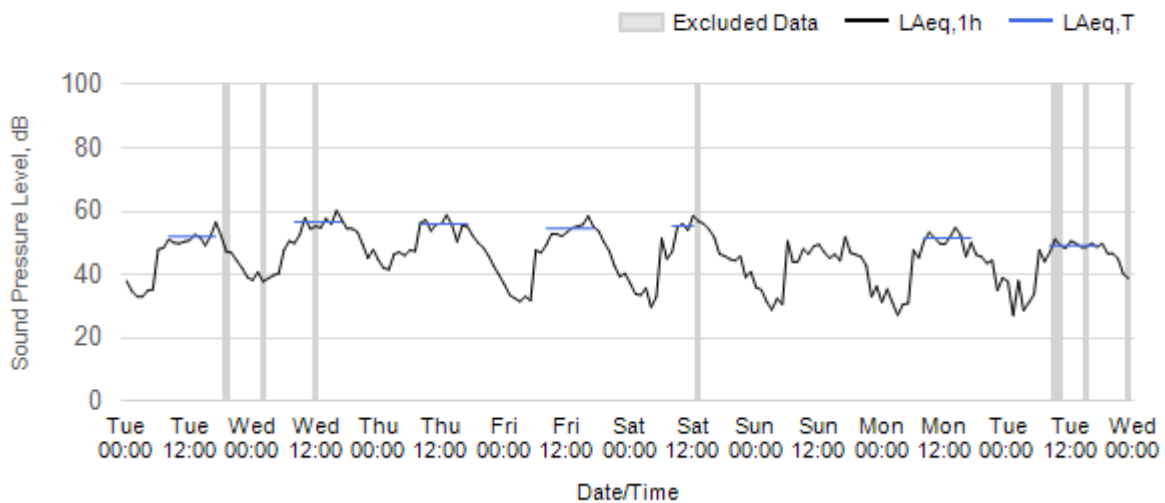
Worksite: SH Monitoring Ref: PKF-NMP1 01 April 2026 to 07 April 2026



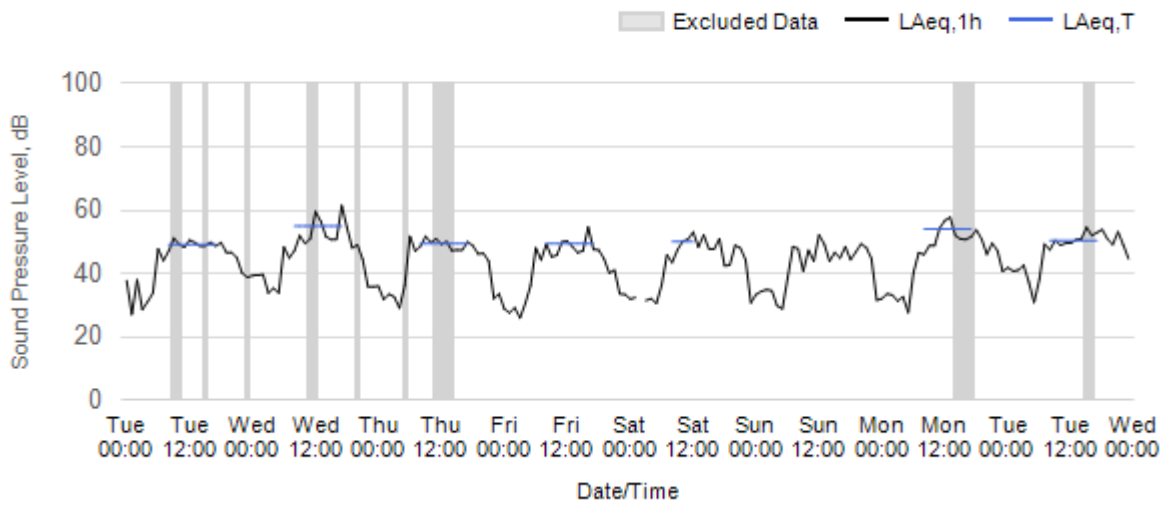
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Worksite: SH Monitoring Ref: PKF-NMP1 15 April 2026 to 21 April 2026

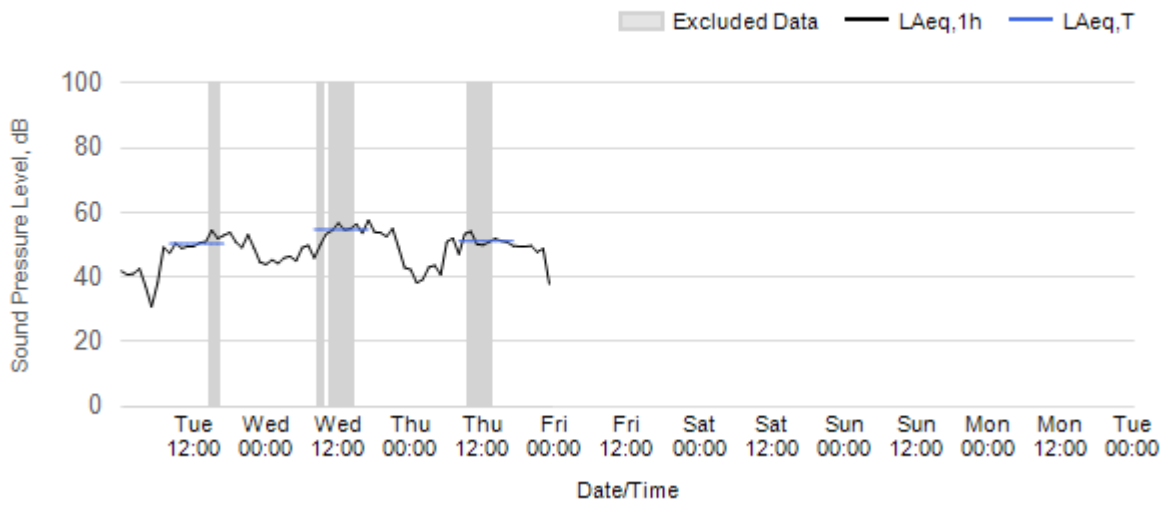


**Worksite: SH Monitoring Ref: PKF-NMP1 22 April 2026 to 28 April 2026**



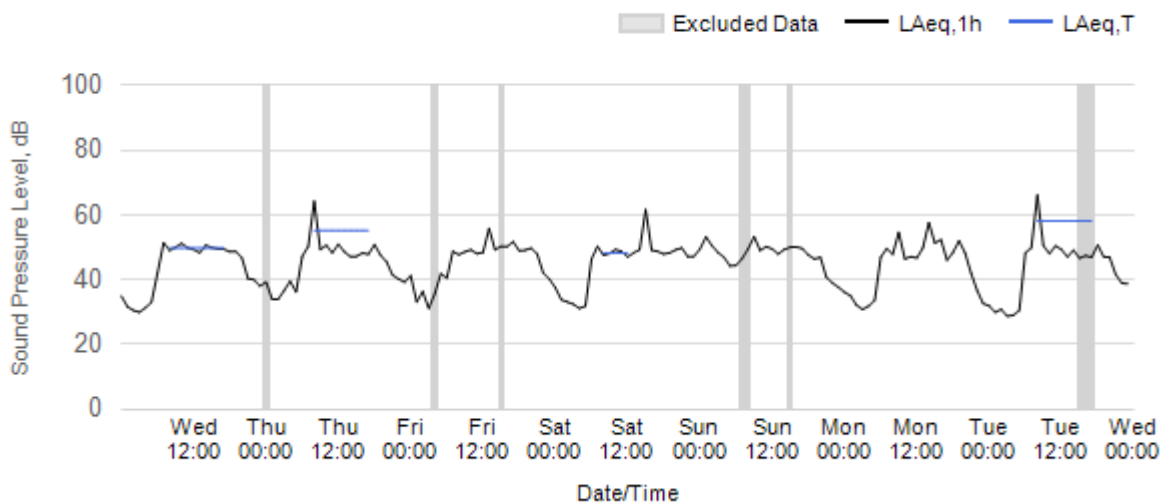
Note: Missing data was due to a communication error with the monitor

**Worksite: SH Monitoring Ref: PKF-NMP1 29 April 2026 to 5 May 2026**

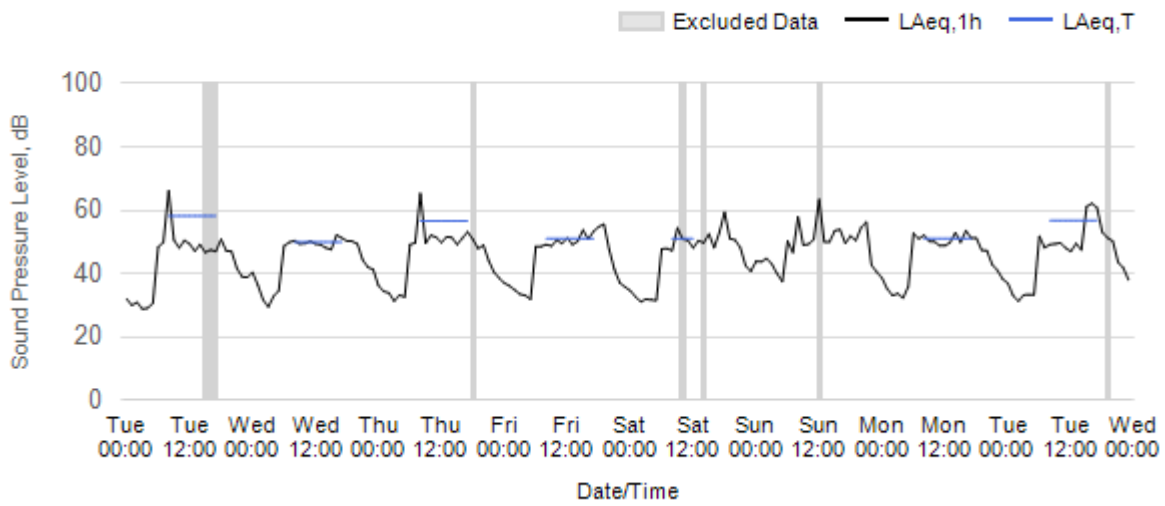


**Worksite: NP - Monitoring Ref: BLH-NMP1**

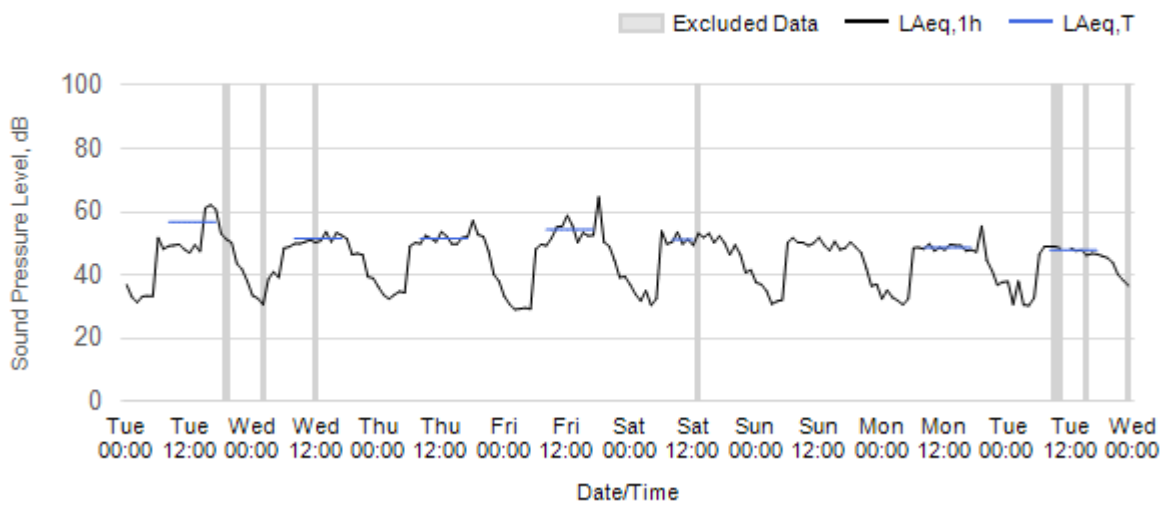
**Worksite: NP Monitoring Ref: BLH-NMP1 01 April 2026 to 07 April 2026**



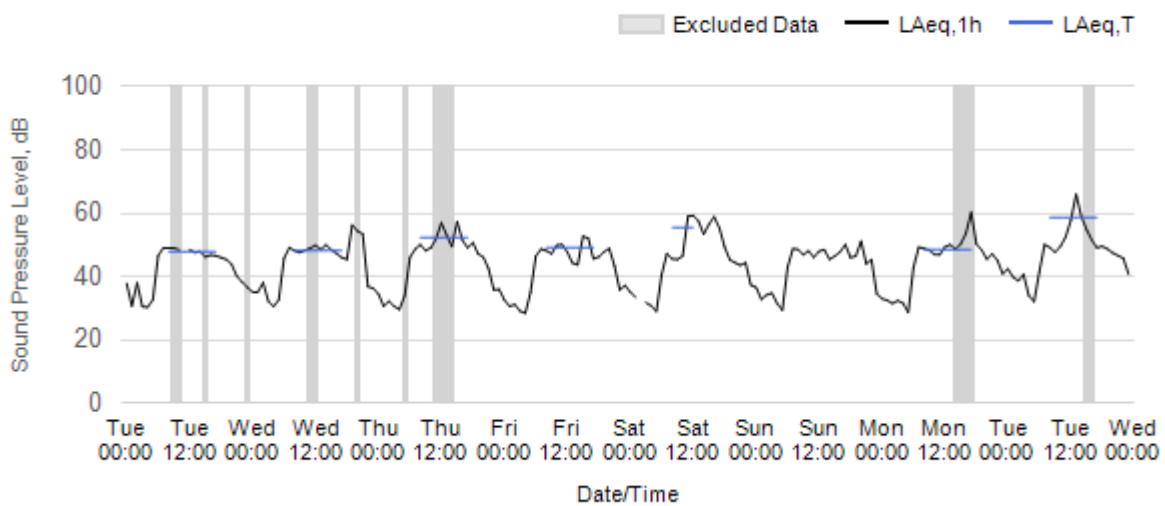
**Worksite: NP Monitoring Ref: BLH-NMP1 08 April 2026 to 14 April 2026**



**Worksite: NP Monitoring Ref: BLH-NMP1 15 April 2026 to 21 April 2026**

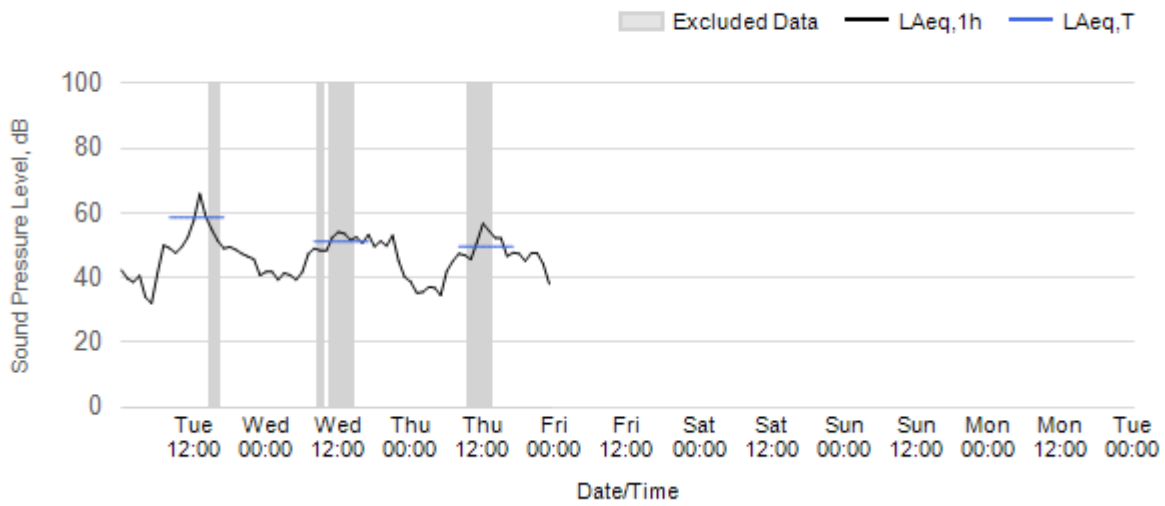


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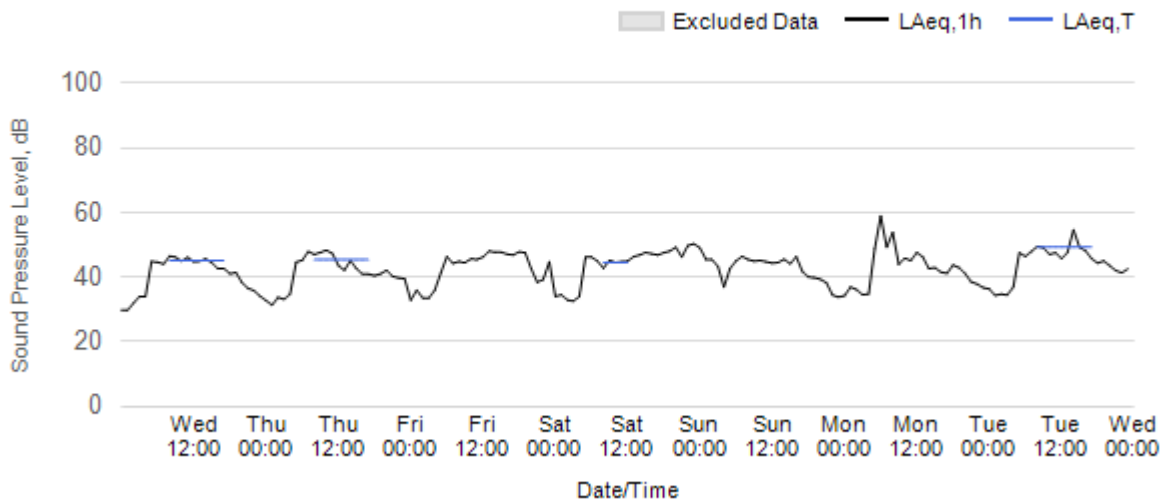
Note: Missing data was due to a communication error with the monitor

**Worksite: NP Monitoring Ref: BLH-NMP1 29 April 2026 to 5 May 2026**

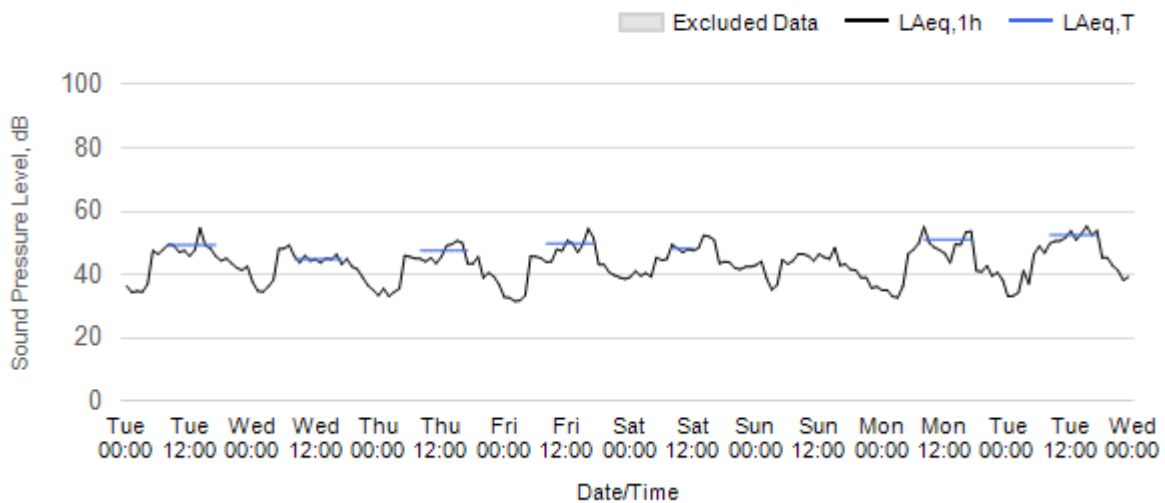


**Worksite: GC - Monitoring Ref: GC-NMP1**

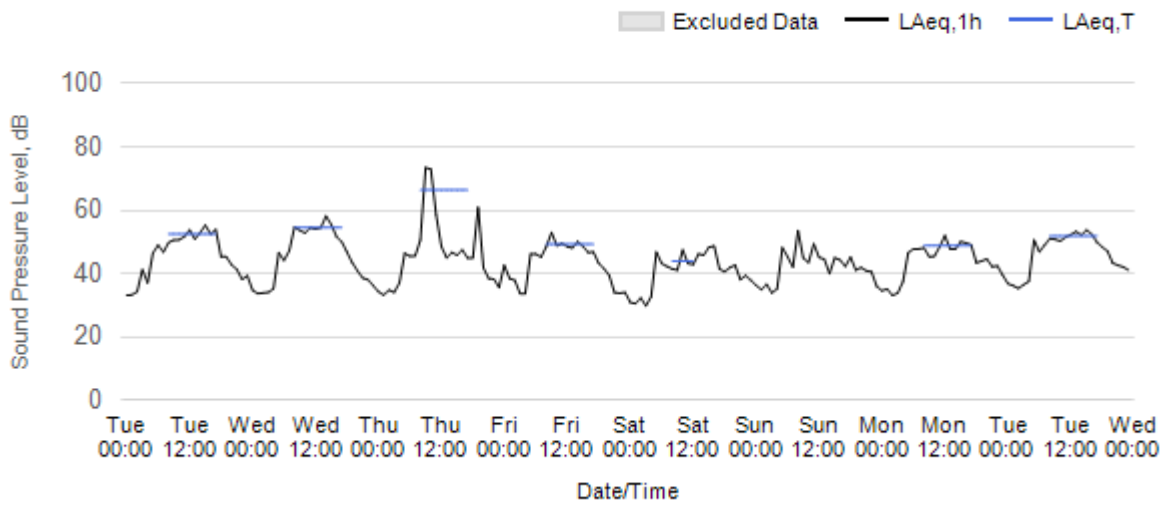
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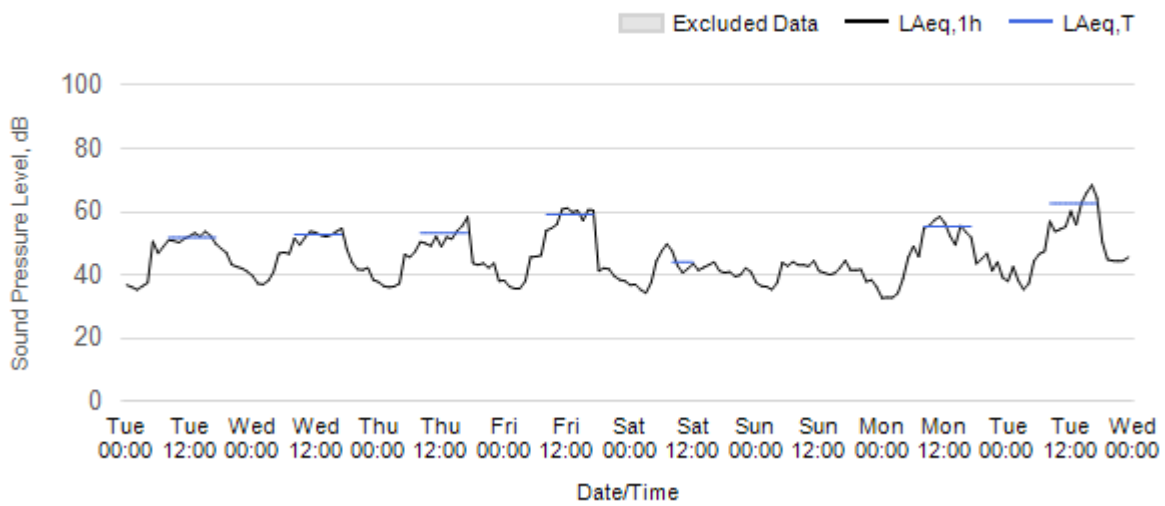
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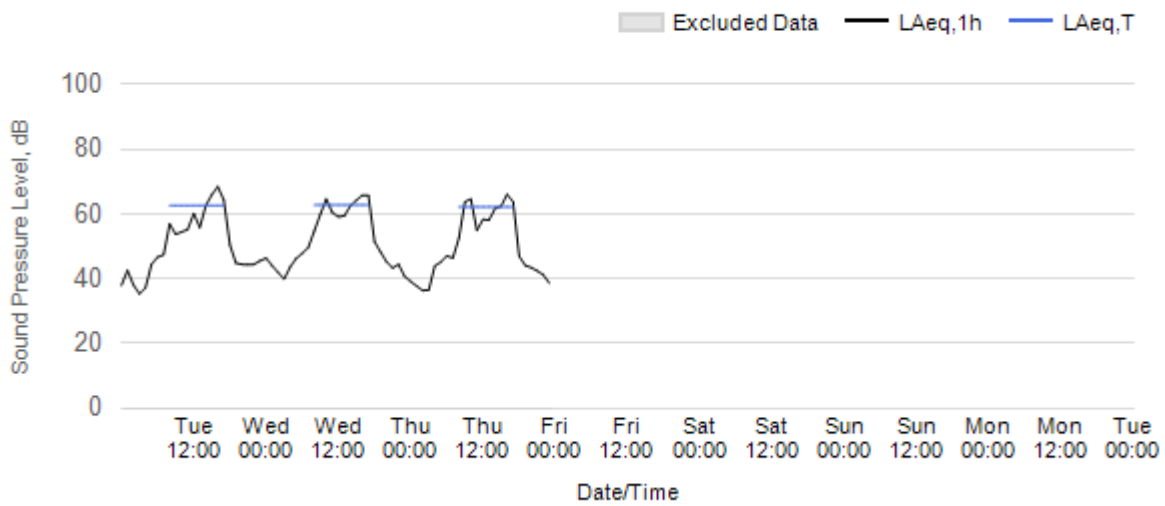
**Worksite: GC Monitoring Ref: GC-NMP1 15 April 2026 to 21 April 2026**



**Worksite: GC Monitoring Ref: GC-NMP1 22 April 2026 to 28 April 2026**

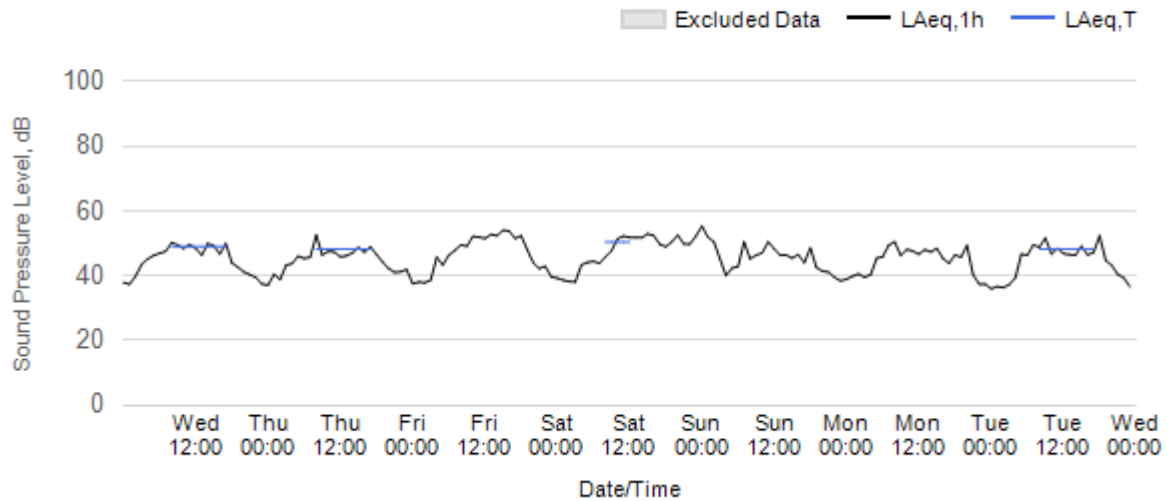


**Worksite: GC Monitoring Ref: GC-NMP1 29 April 2026 to 5 May 2026**

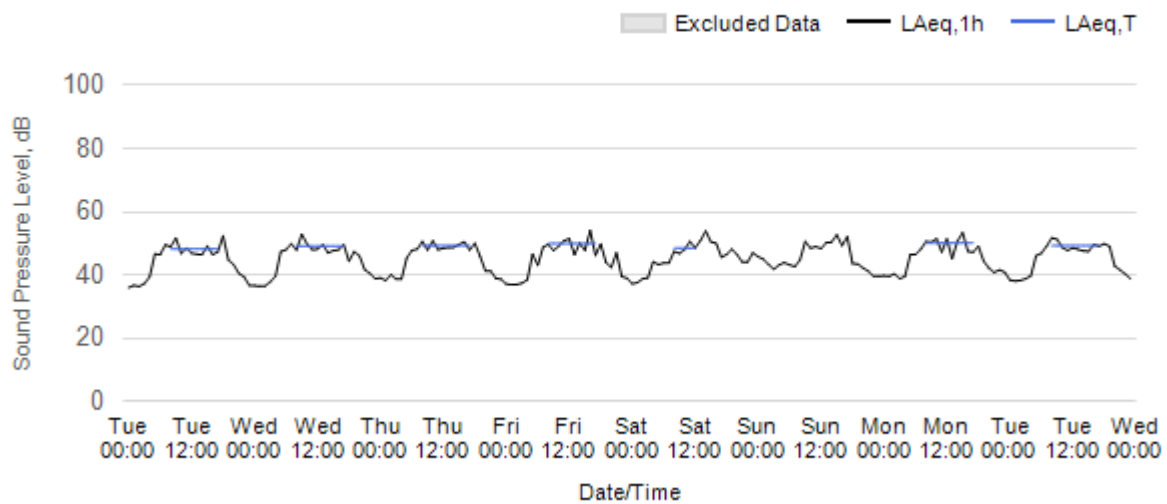


## Worksite: QAR - Monitoring Ref: QAR-NMP2

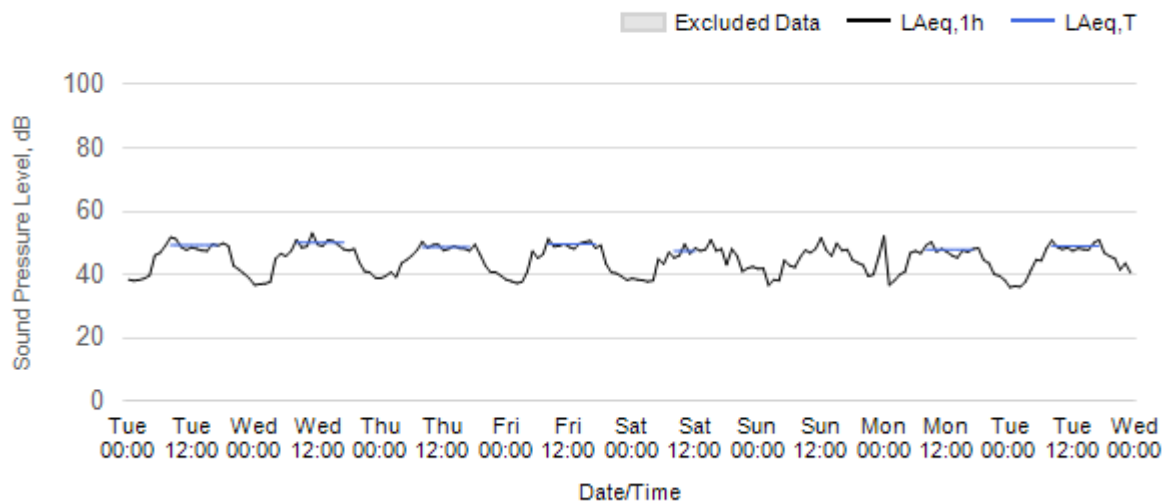
Worksite: QAR Monitoring Ref: QAR-NMP2 01 April 2026 to 07 April 2026



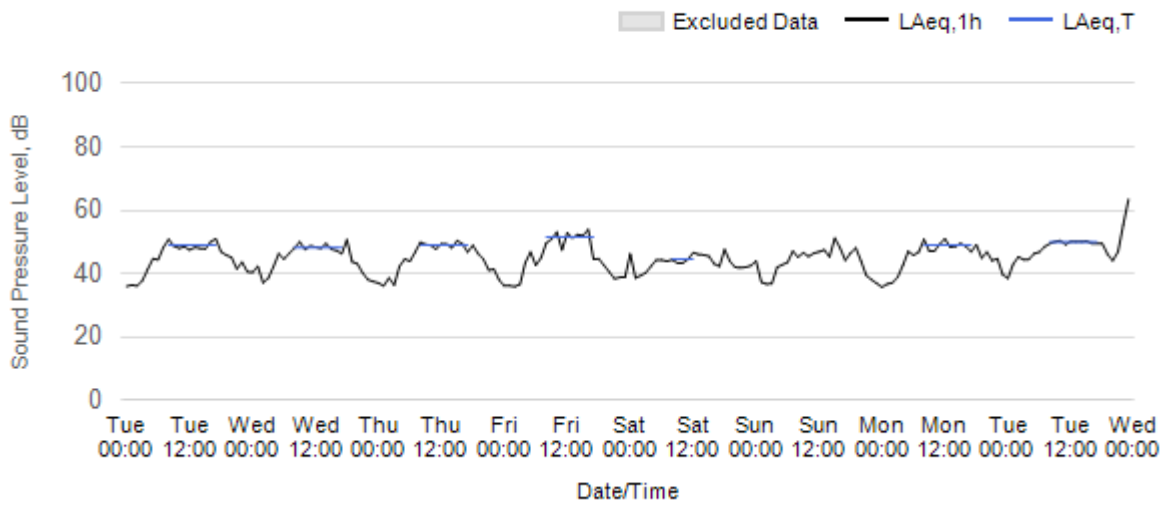
Worksite: QAR Monitoring Ref: QAR-NMP2 08 April 2026 to 14 April 2026



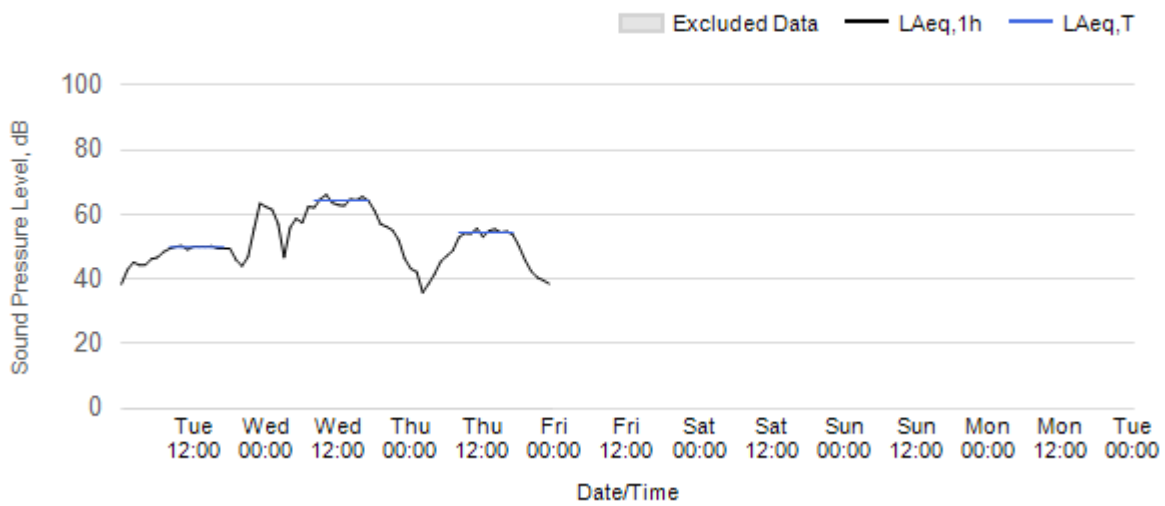
Worksite: QAR Monitoring Ref: QAR-NMP2 15 April 2026 to 21 April 2026



**Worksite: QAR Monitoring Ref: QAR-NMP2 22 April 2026 to 28 April 2026**

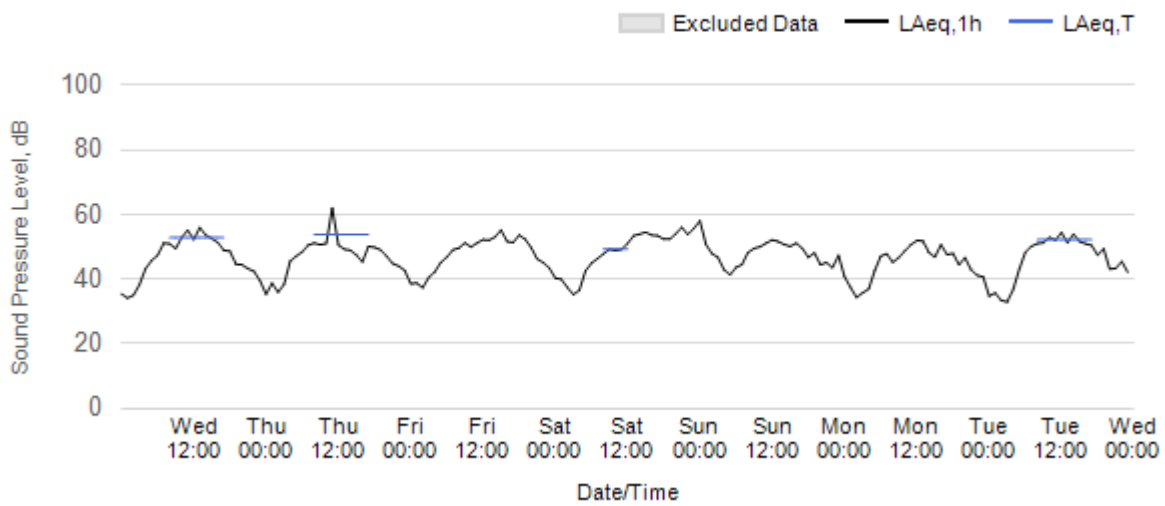


**Worksite: QAR Monitoring Ref: QAR-NMP2 29 April 2026 to 5 May 2026**

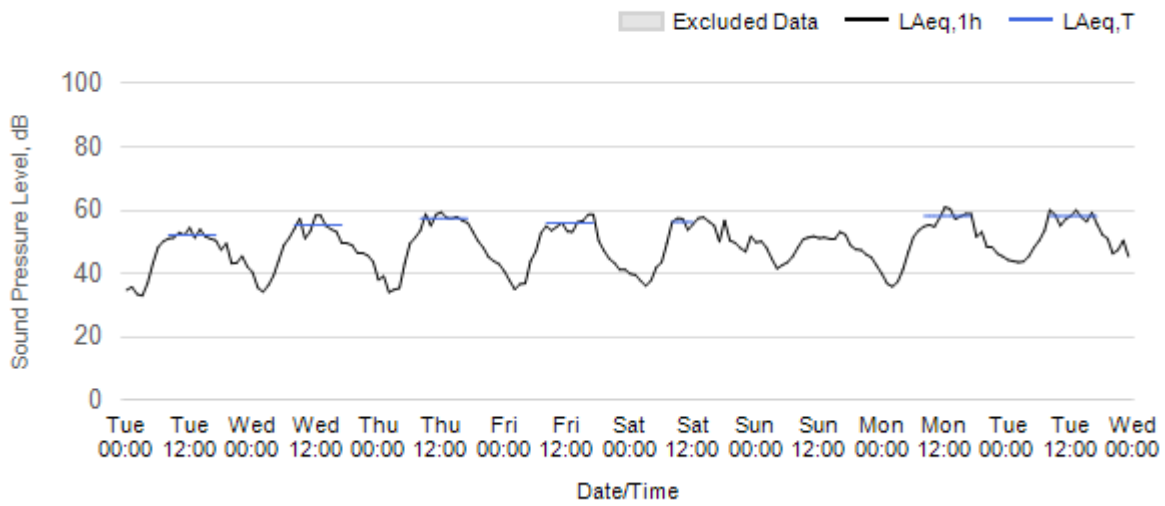


**Worksite: RLE - Monitoring Ref: NCAS6-NMP1**

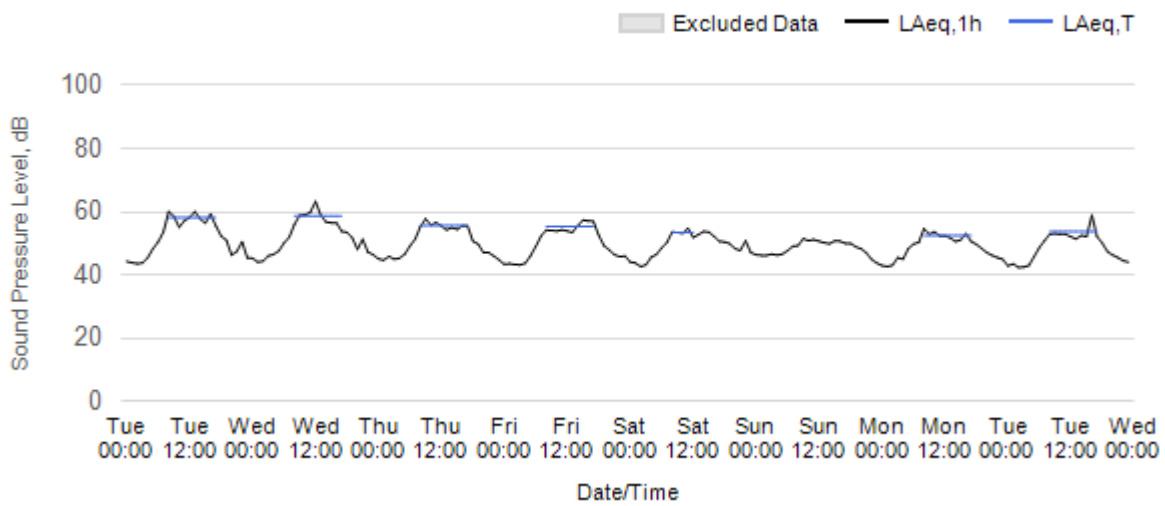
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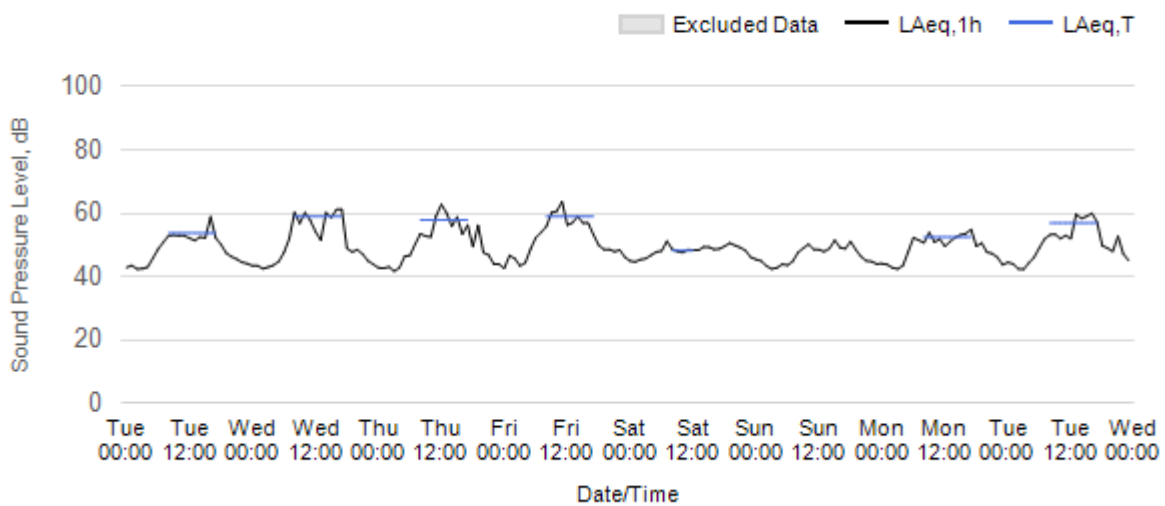
Worksite: RLE Monitoring Ref: NCAS6-NMP1 08 April 2026 to 14 April 2026



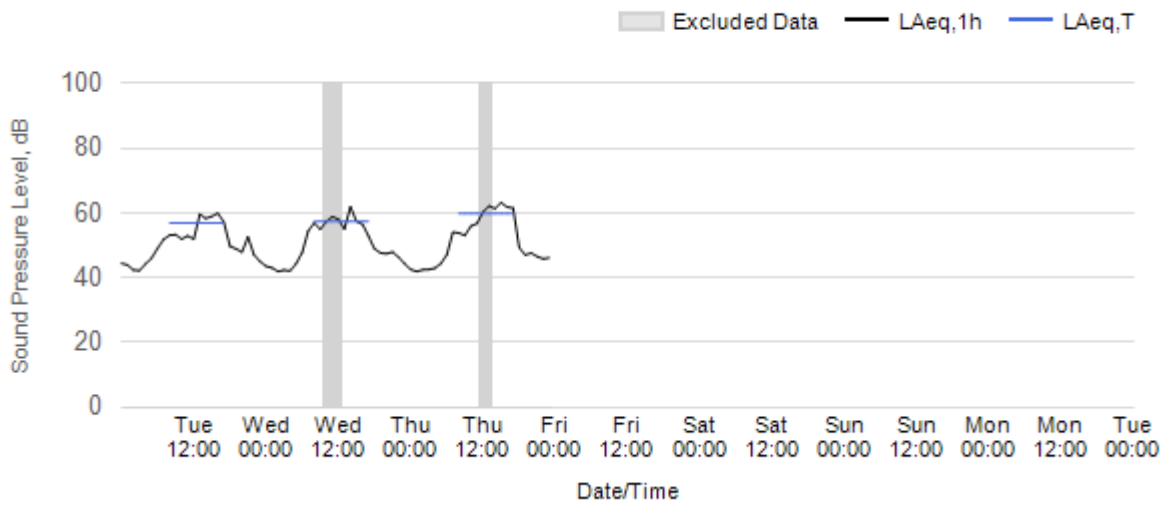
Worksite: RLE Monitoring Ref: NCAS6-NMP1 15 April 2026 to 21 April 2026



Worksite: RLE Monitoring Ref: NCAS6-NMP1 22 April 2026 to 28 April 2026

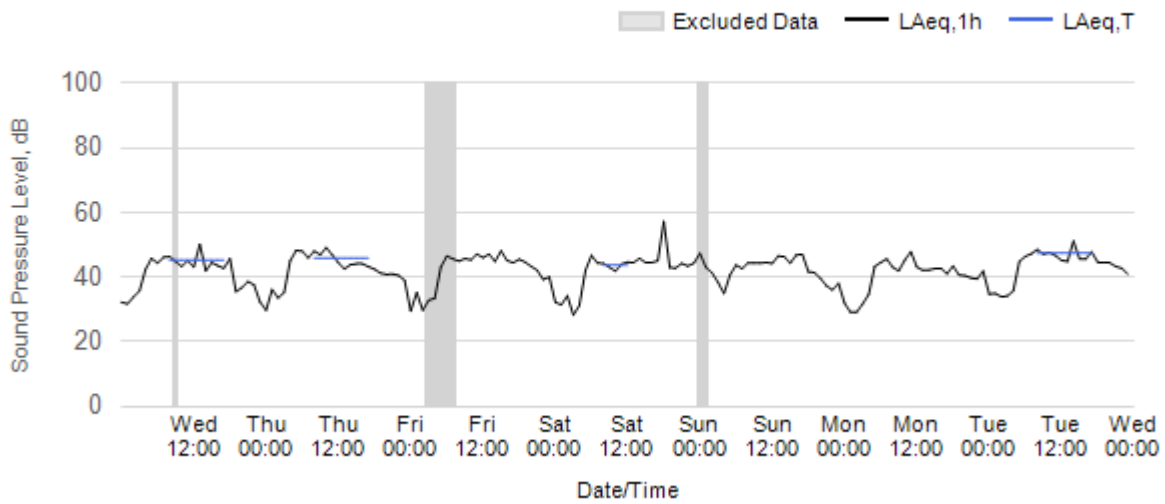


**Worksite: RLE Monitoring Ref: NCAS6-NMP1 29 April 2026 to 5 May 2026**

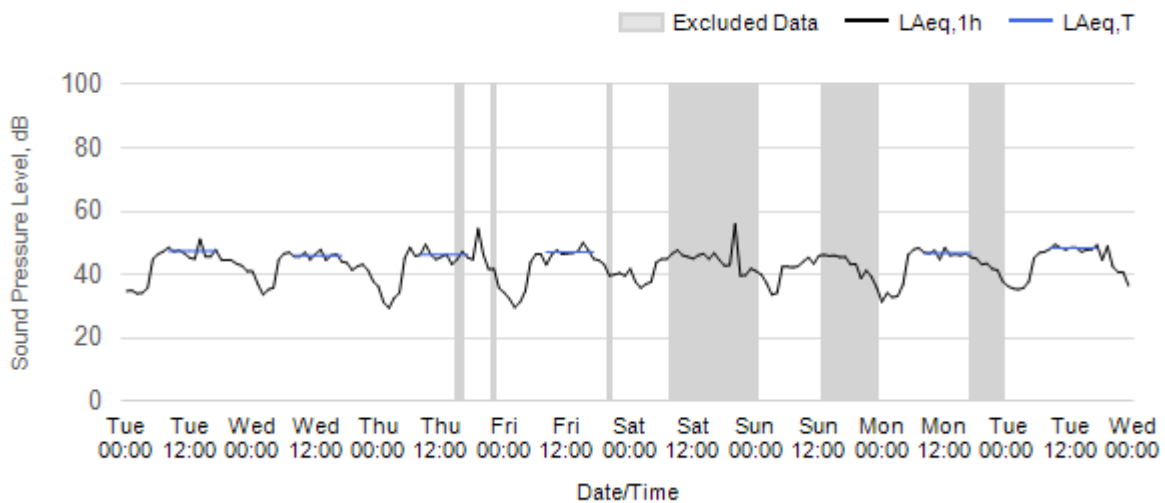


**Worksite: WGT - Monitoring Ref: BL-NMP1**

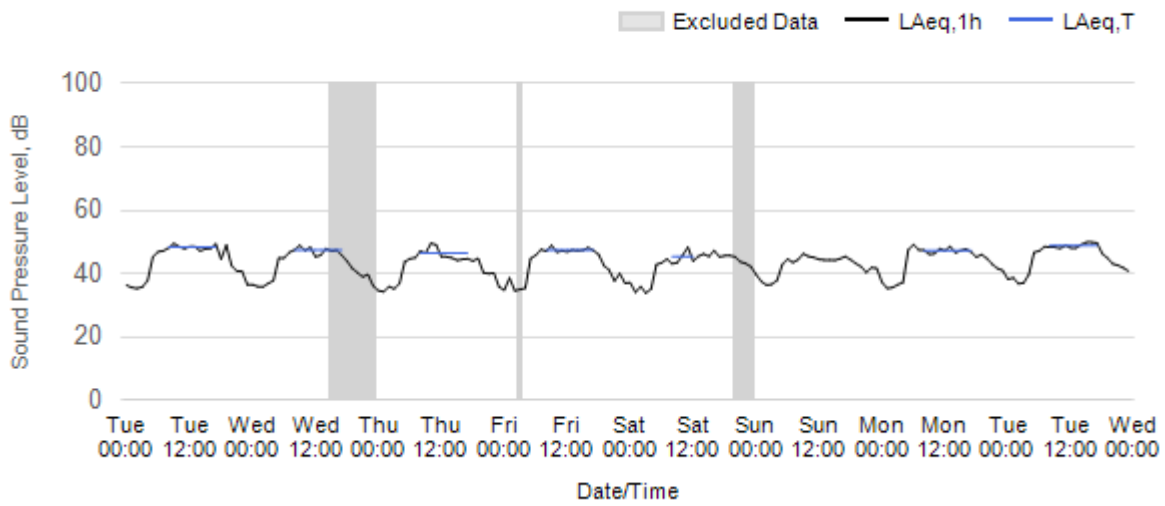
**Worksite: WGT Monitoring Ref: BL-NMP1 01 April 2026 to 07 April 2026**



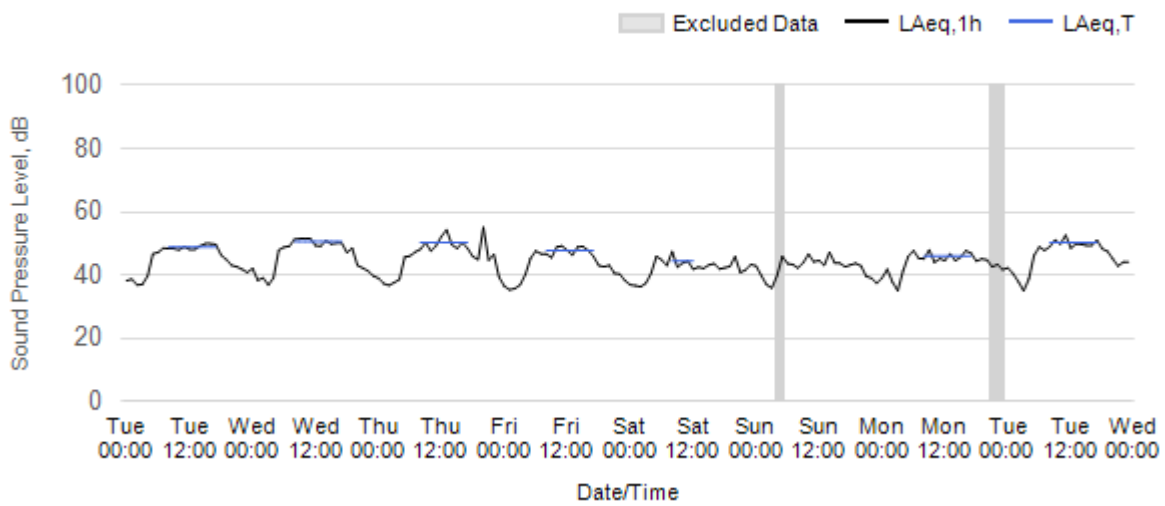
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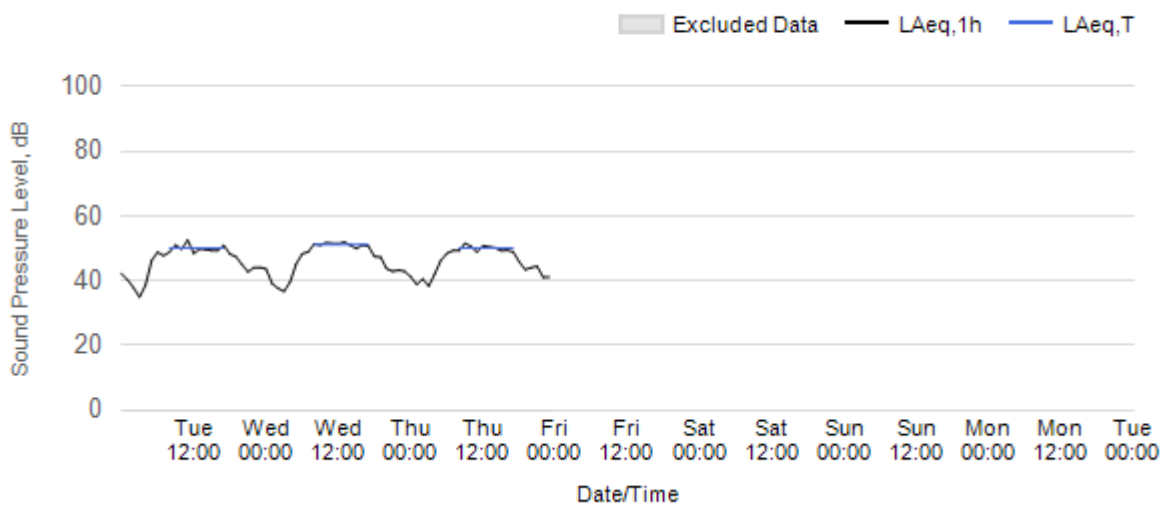
**Worksite: WGT Monitoring Ref: BL-NMP1 15 April 2026 to 21 April 2026**



**Worksite: WGT Monitoring Ref: BL-NMP1 22 April 2026 to 28 April 2026**

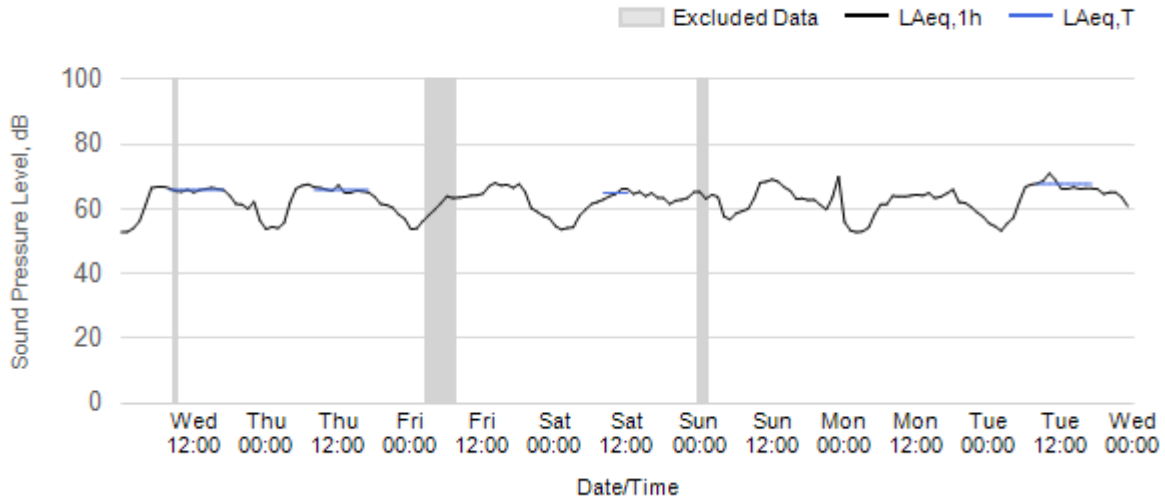


**Worksite: WGT Monitoring Ref: BL-NMP1 29 April 2026 to 5 May 2026**

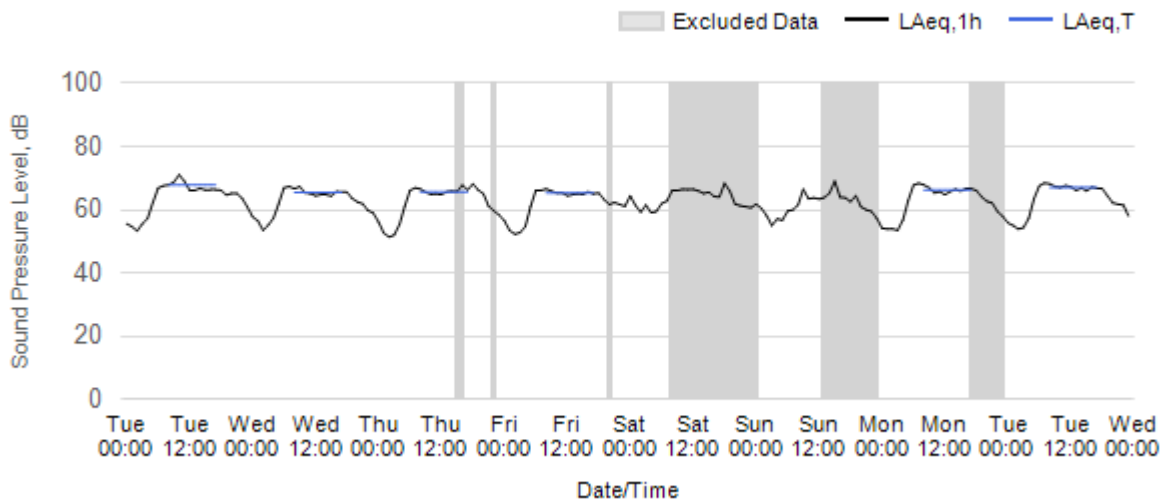


# Worksite: WC - Monitoring Ref: WC-NMP1

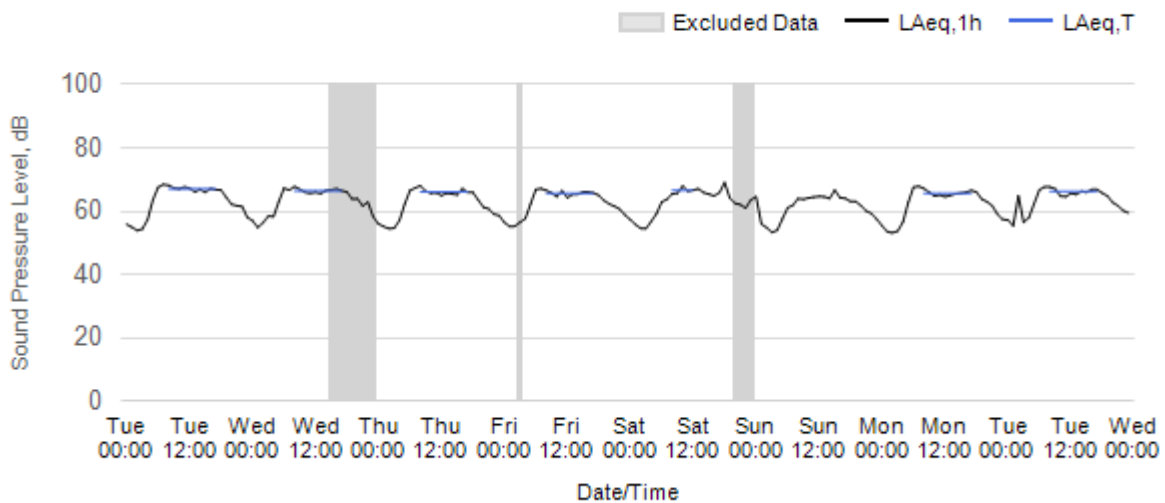
Worksite: WC Monitoring Ref: WC-NMP1 01 April 2026 to 07 April 2026



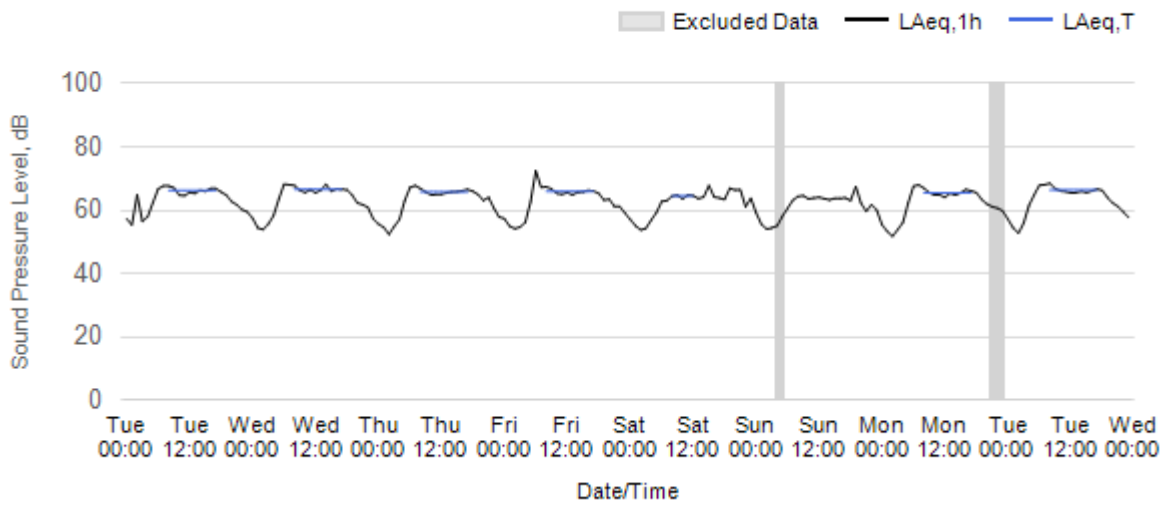
Worksite: WC Monitoring Ref: WC-NMP1 08 April 2026 to 14 April 2026



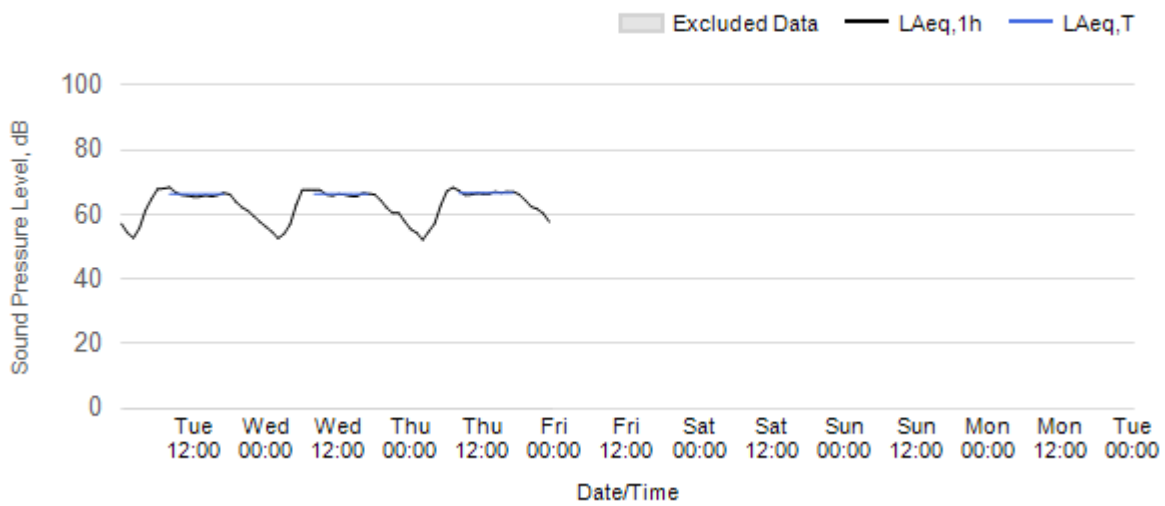
Worksite: WC Monitoring Ref: WC-NMP1 15 April 2026 to 21 April 2026



**Worksite: WC Monitoring Ref: WC-NMP1 22 April 2026 to 28 April 2026**

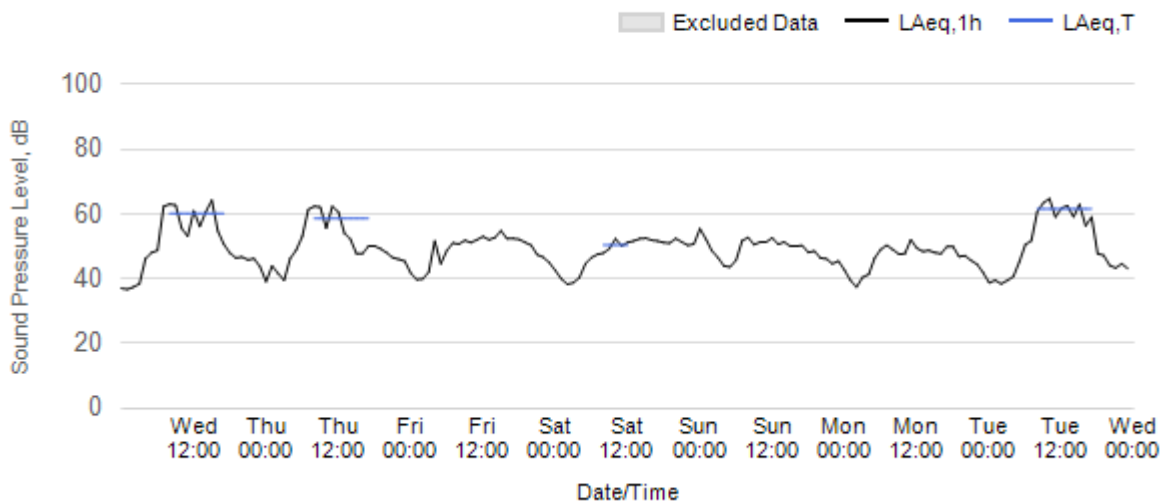


**Worksite: WC Monitoring Ref: WC-NMP1 29 April 2026 to 5 May 2026**

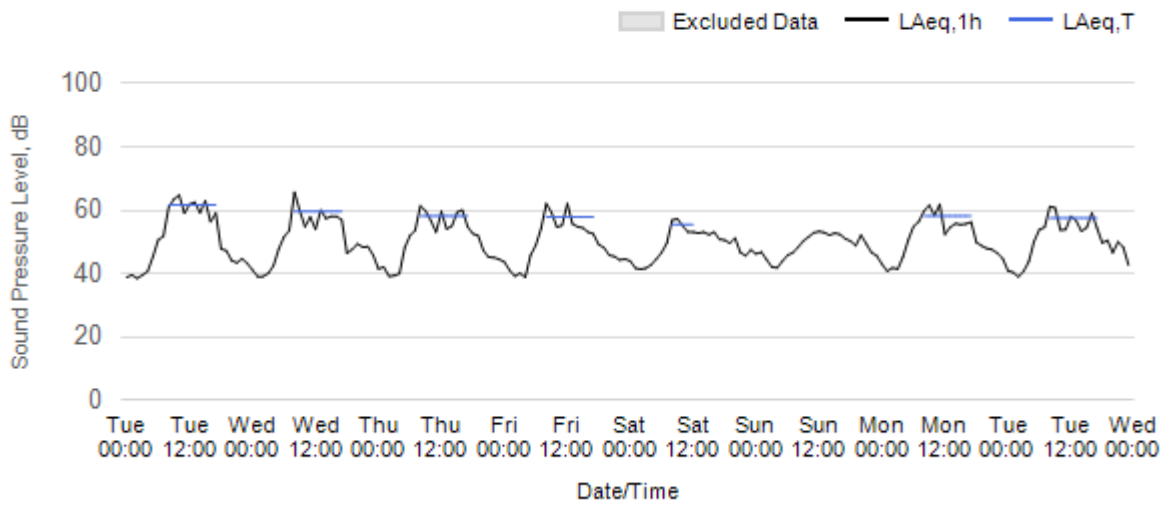


**Worksite: WDV - Monitoring Ref: WDV-NMP1**

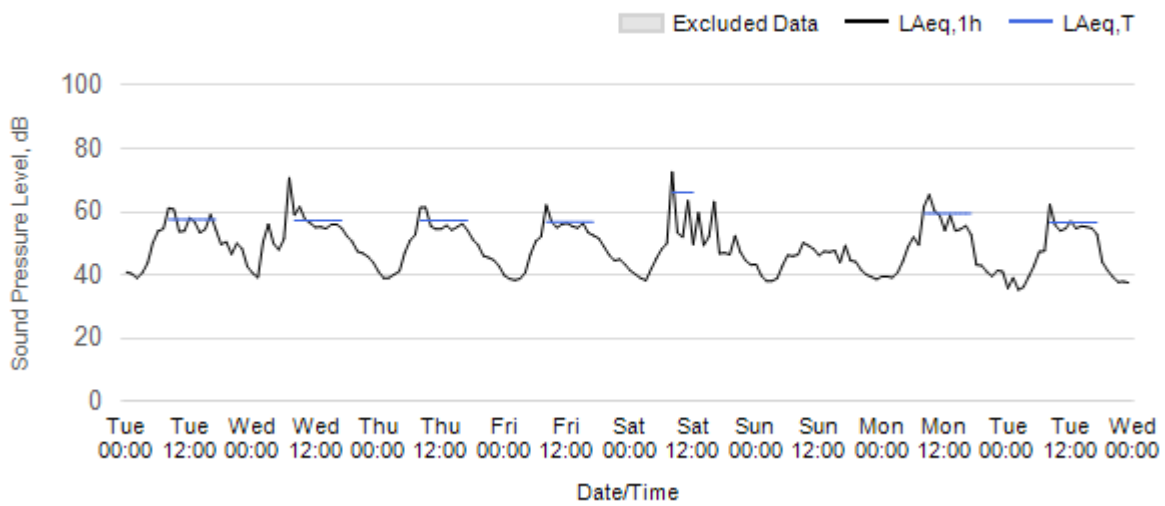
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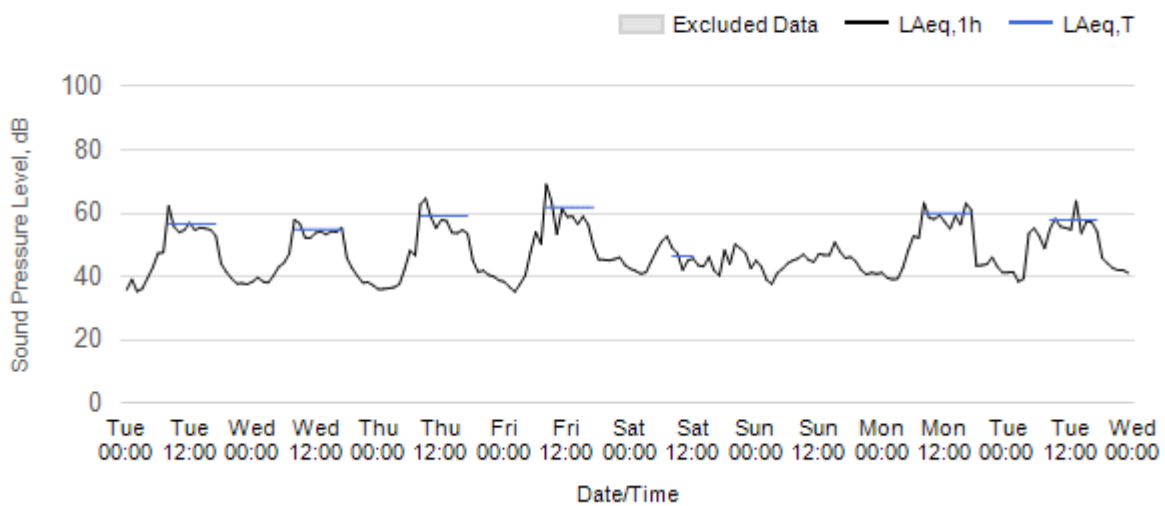
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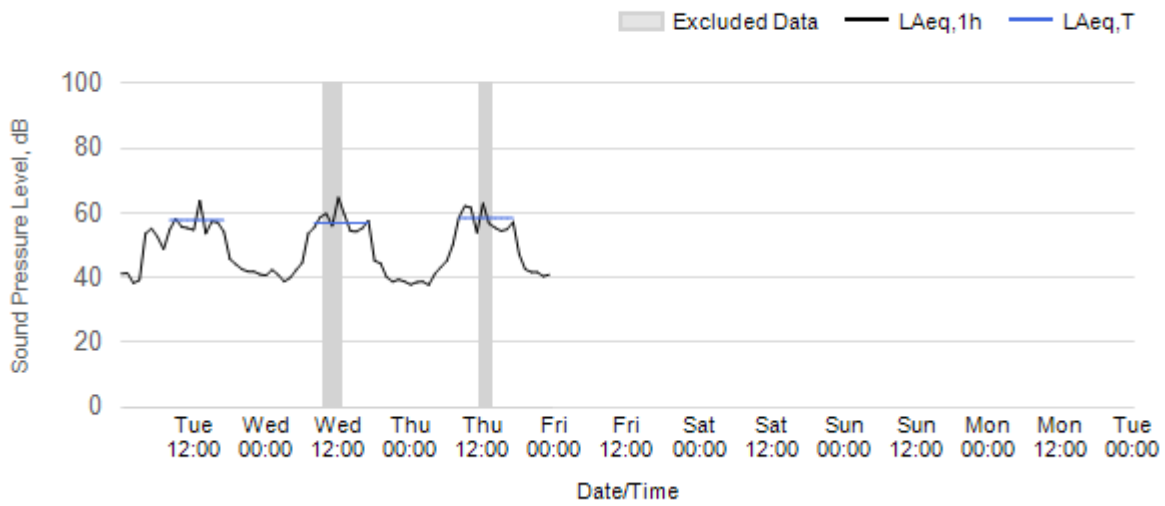
Worksite: WDV Monitoring Ref: WDV-NMP1 15 April 2026 to 21 April 2026



Worksite: WDV Monitoring Ref: WDV-NMP1 22 April 2026 to 28 April 2026

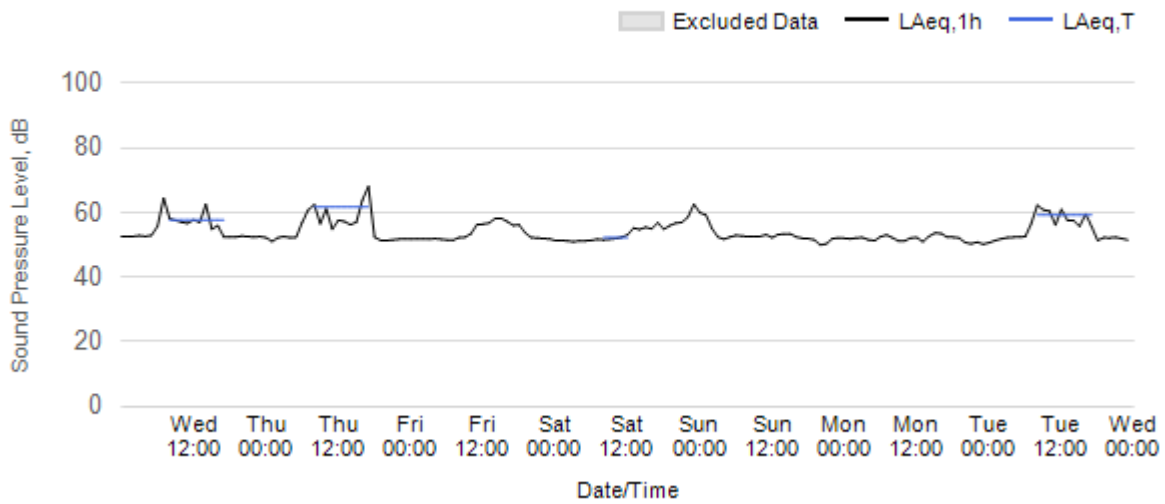


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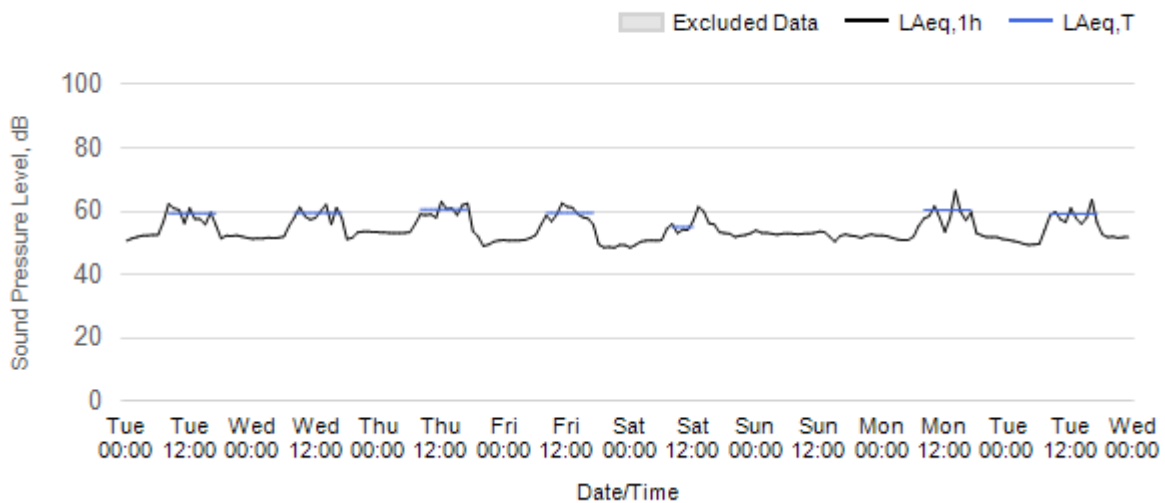


**Worksite: SE - Monitoring Ref: SE-NMP1**

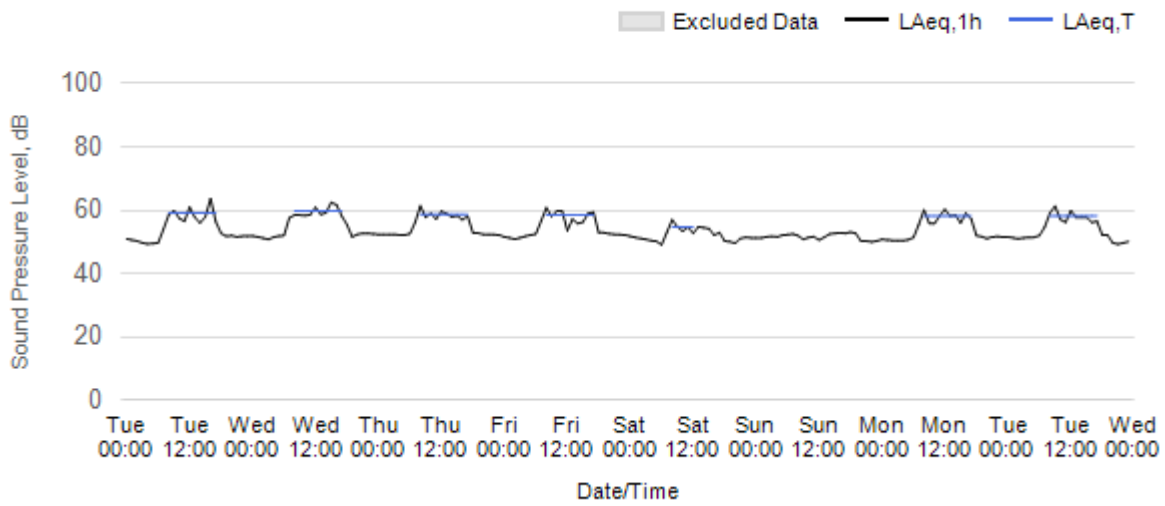
**Worksite: SE Monitoring Ref: SE-NMP1 01 April 2026 to 07 April 2026**



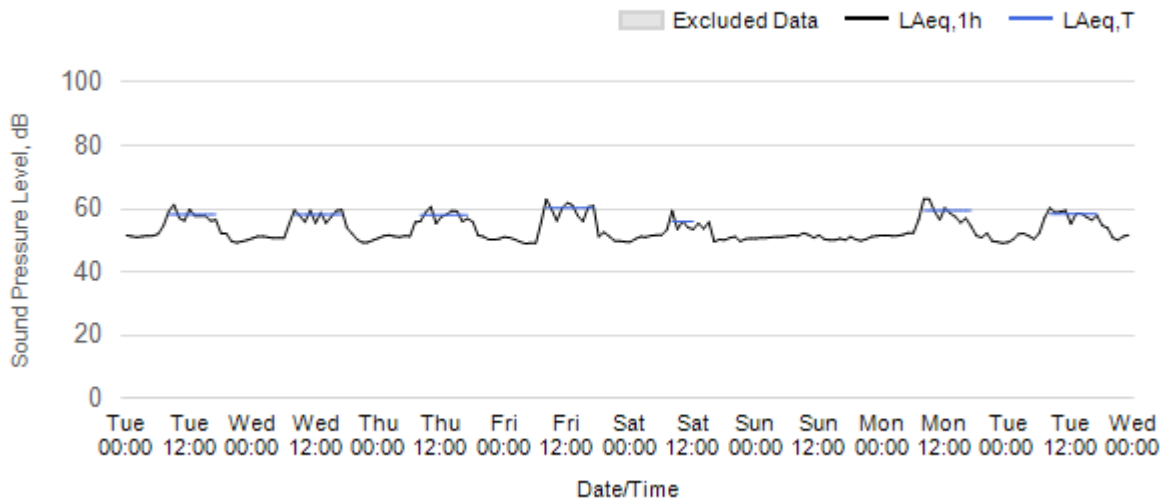
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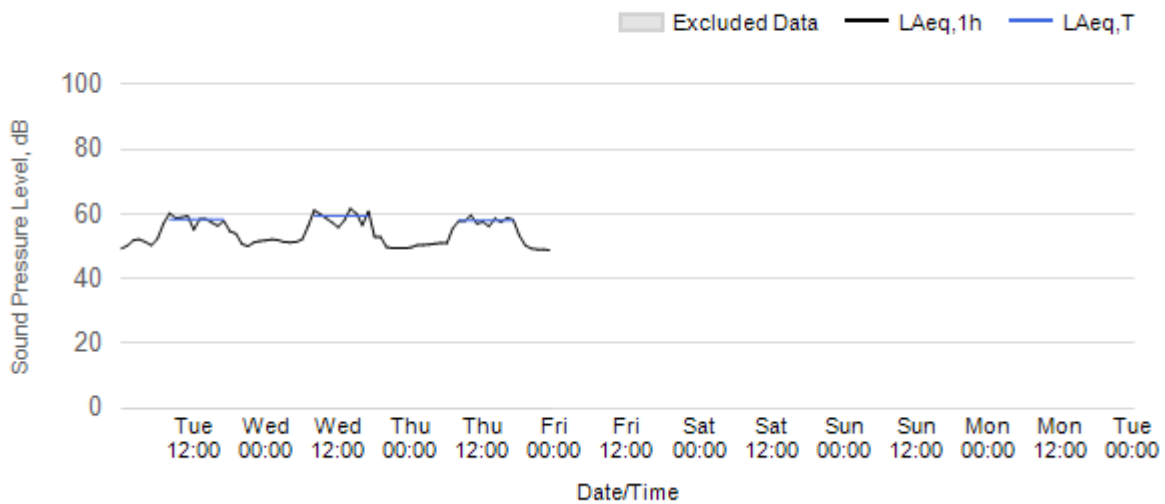
**Worksite: SE Monitoring Ref: SE-NMP1 15 April 2026 to 21 April 2026**



**Worksite: SE Monitoring Ref: SE-NMP1 22 April 2026 to 28 April 2026**

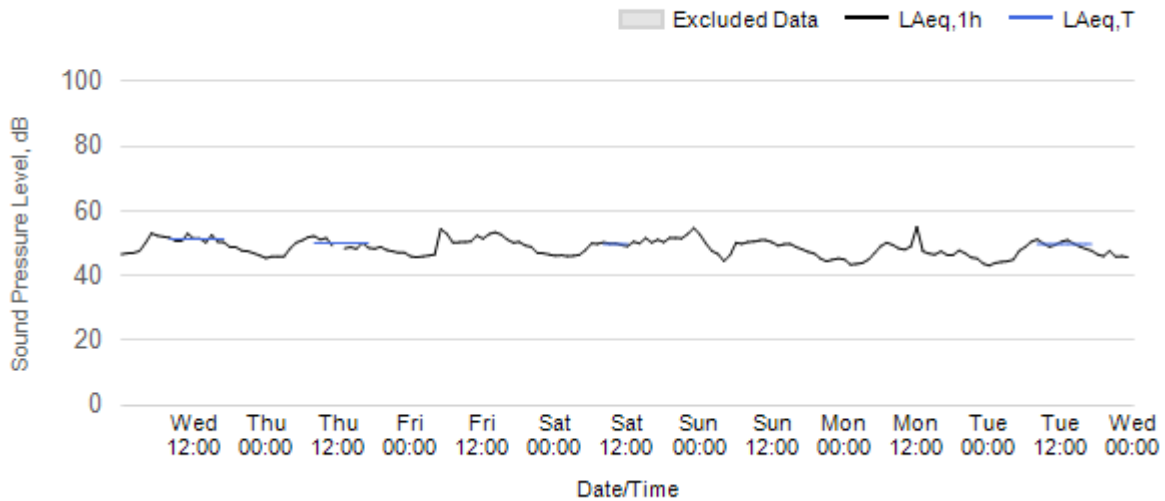


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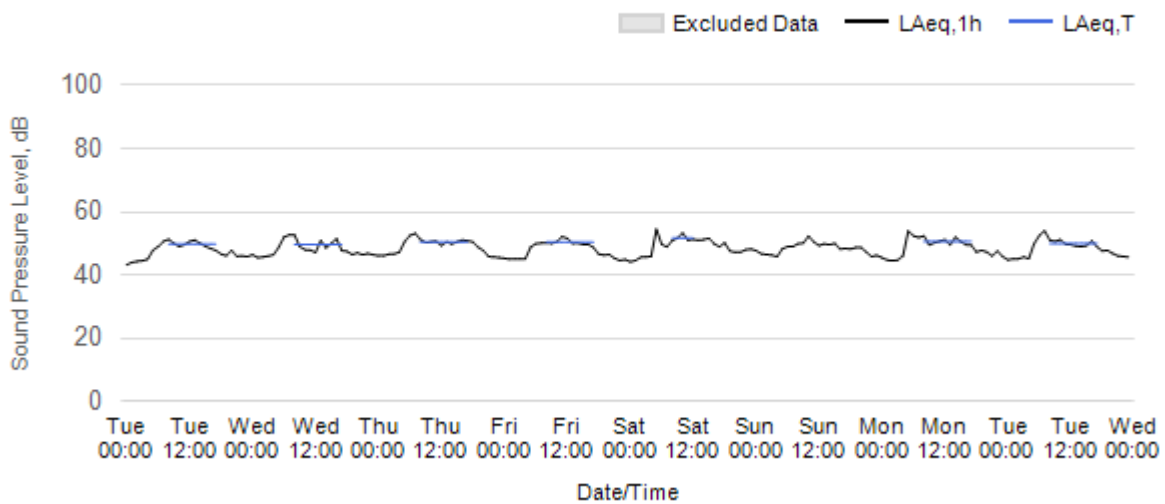


# Worksite: A422 TN - Monitoring Ref: TN-NMP1

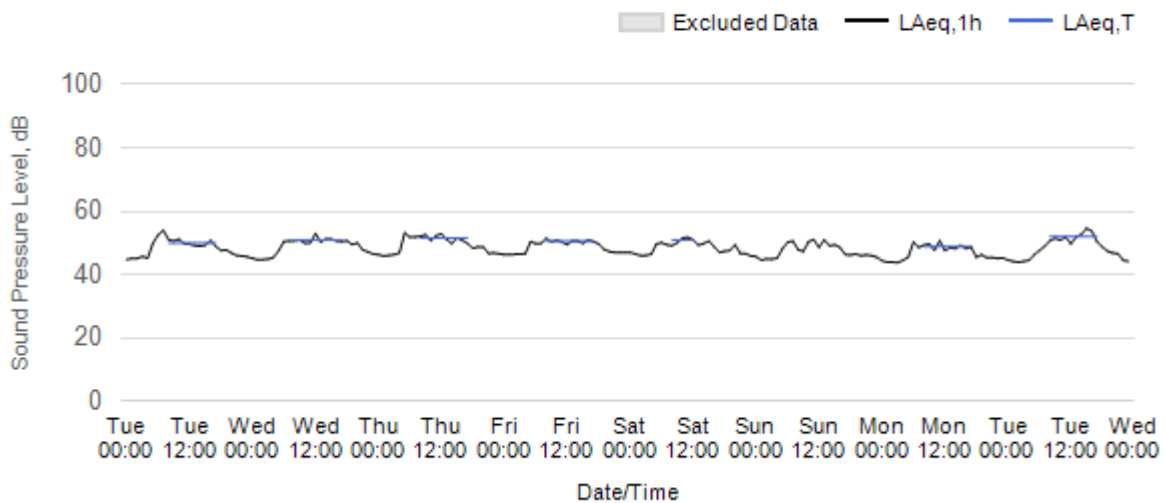
Worksite: A422 TN Monitoring Ref: TN-NMP1 01 April 2026 to 07 April 2026



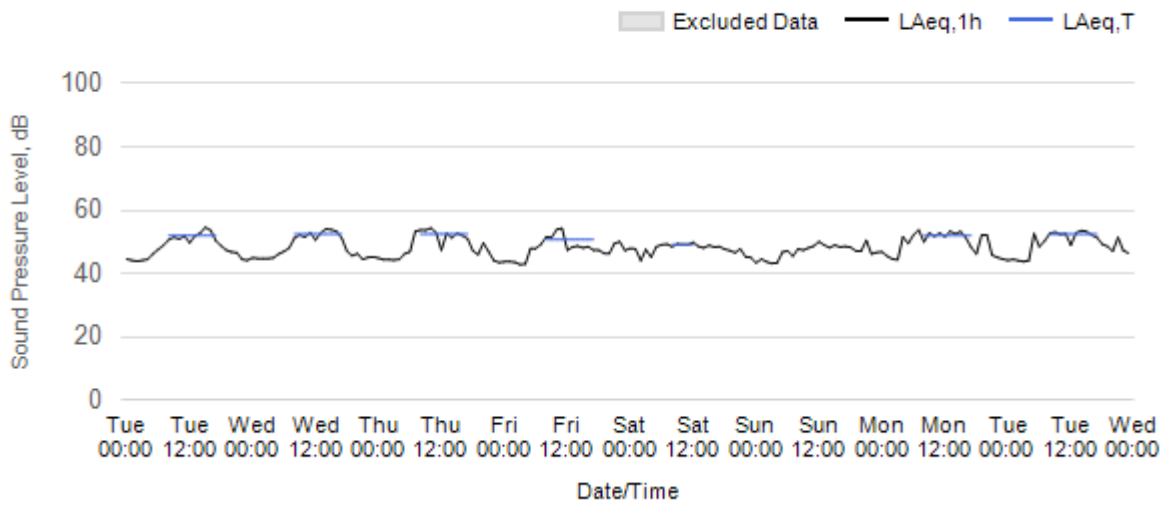
Worksite: A422 TN Monitoring Ref: TN-NMP1 08 April 2026 to 14 April 2026



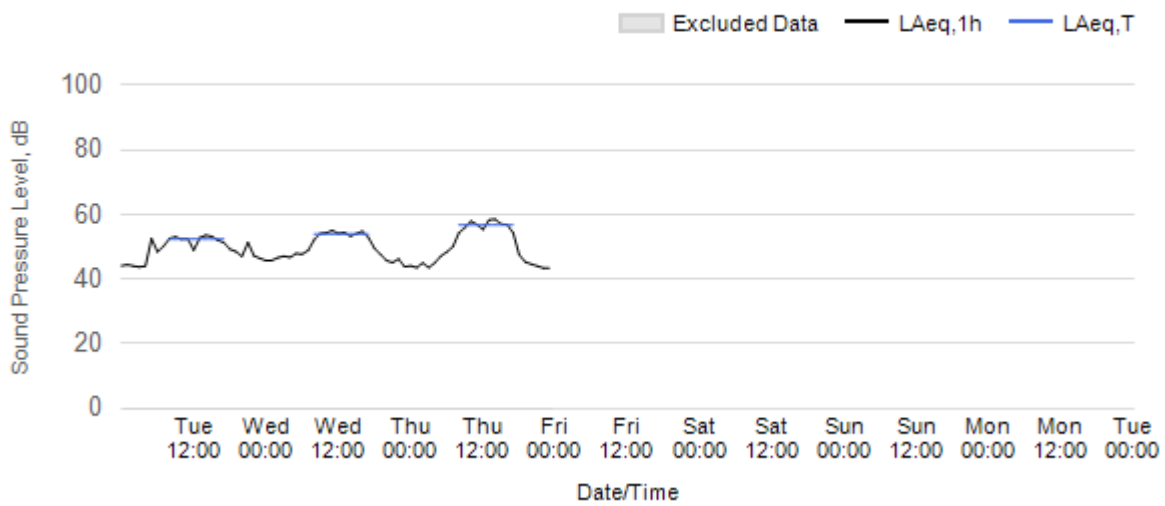
Worksite: A422 TN Monitoring Ref: TN-NMP1 15 April 2026 to 21 April 2026



**Worksite: A422 TN Monitoring Ref: TN-NMP1 22 April 2026 to 28 April 2026**

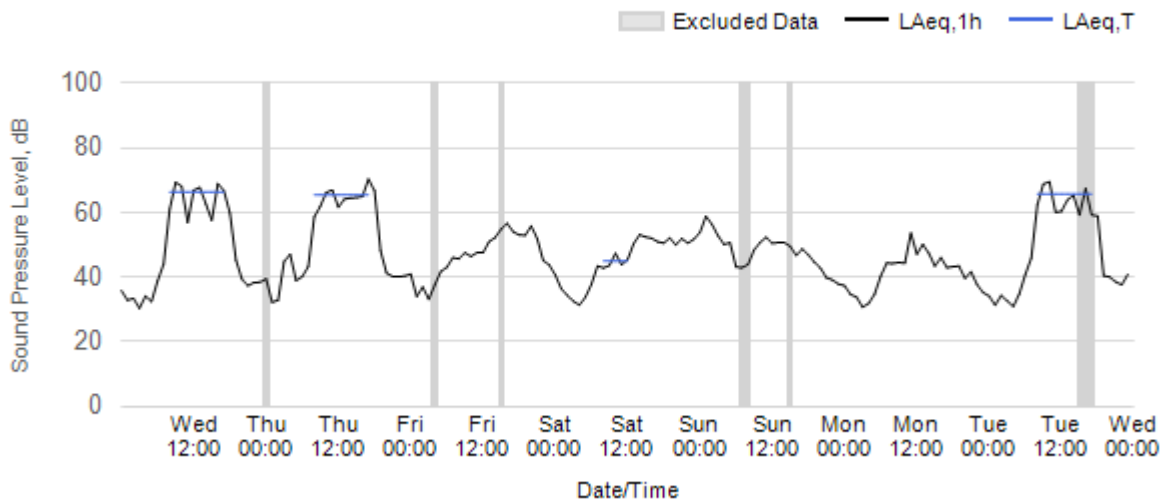


**Worksite: A422 TN Monitoring Ref: TN-NMP1 29 April 2026 to 5 May 2026**

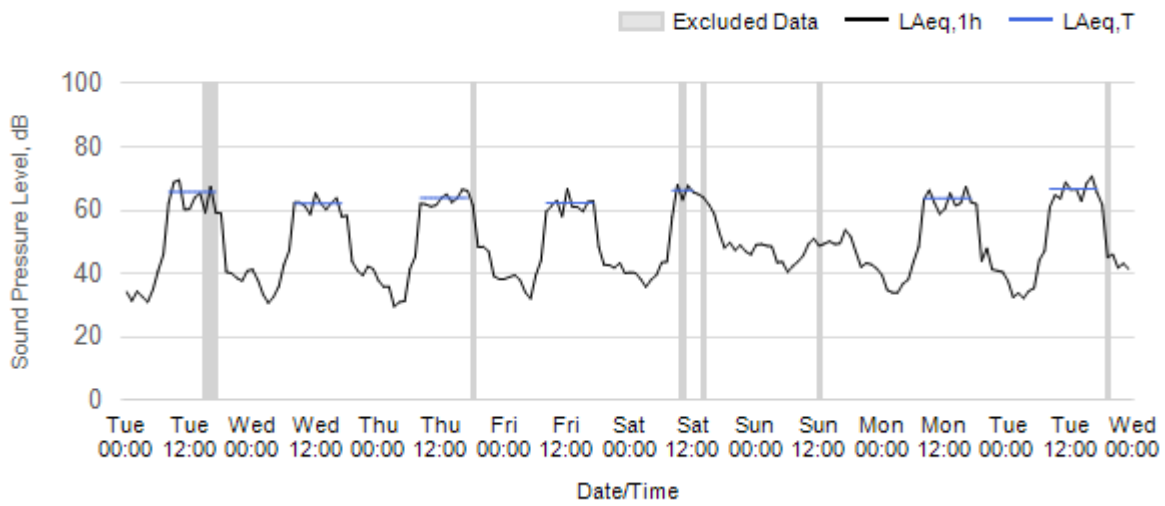


**Worksite: SH - Monitoring Ref: HHF-NMP1**

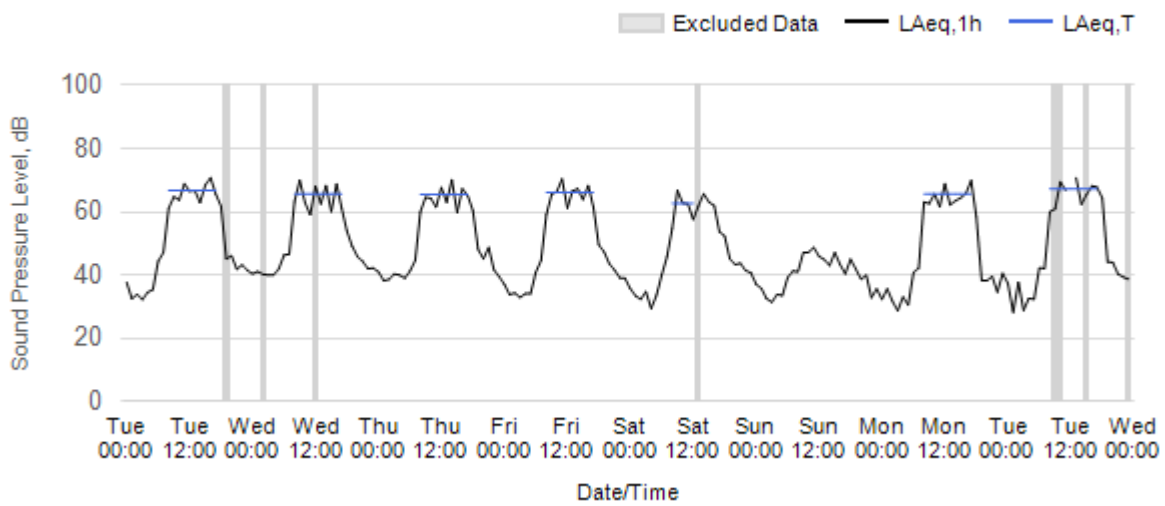
**Worksite: SH Monitoring Ref: HHF-NMP1 01 April 2026 to 07 April 2026**



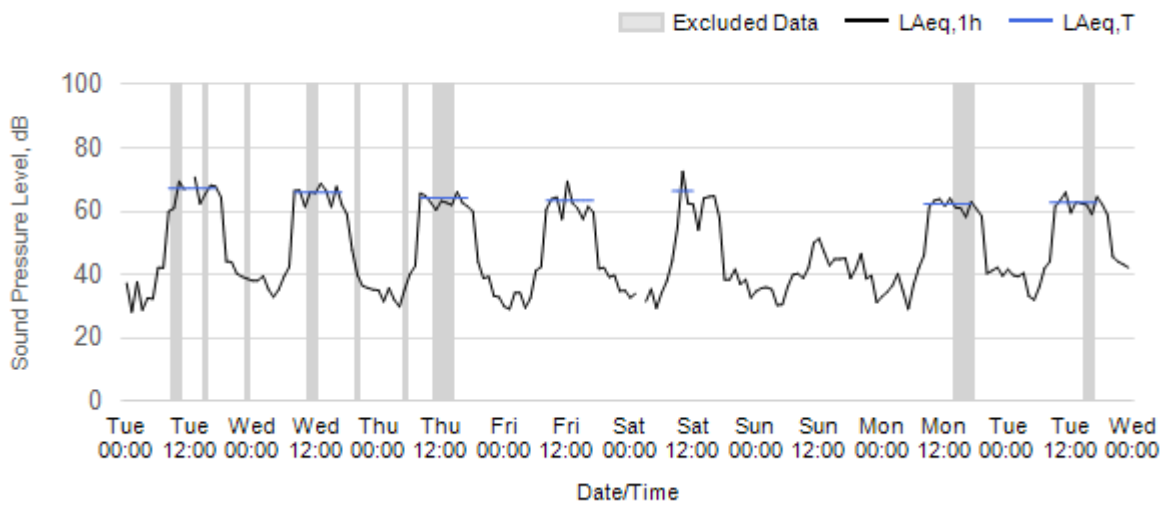
**Worksite: SH Monitoring Ref: HHF-NMP1 08 April 2026 to 14 April 2026**



**Worksite: SH Monitoring Ref: HHF-NMP1 15 April 2026 to 21 April 2026**

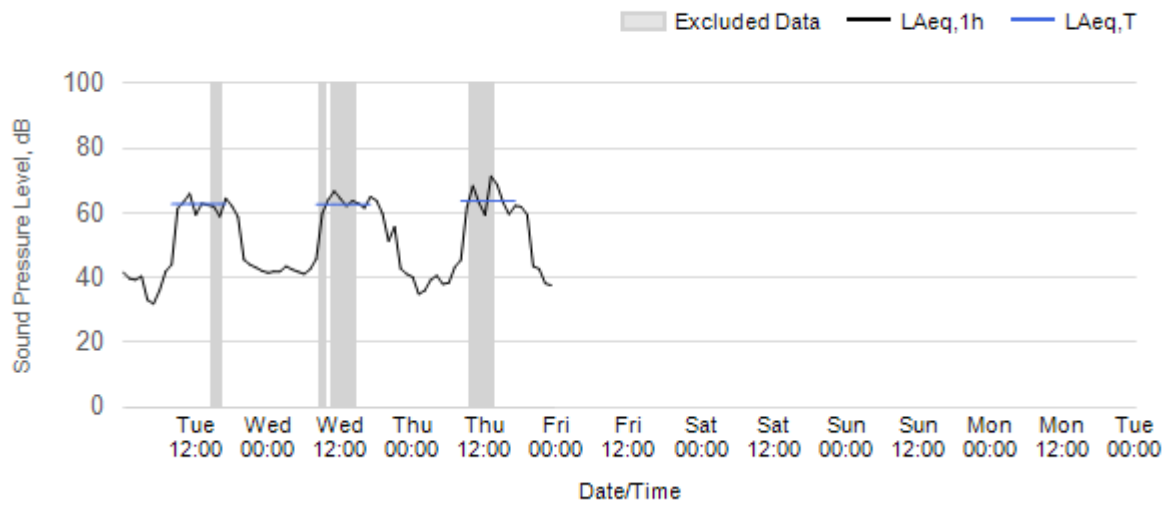


**Worksite: SH Monitoring Ref: HHF-NMP1 22 April 2026 to 28 April 2026**



Note: Missing data was due to a communication error with the monitor

Worksite: SH Monitoring Ref: HHF-NMP1 29 April 2026 to 5 May 2026

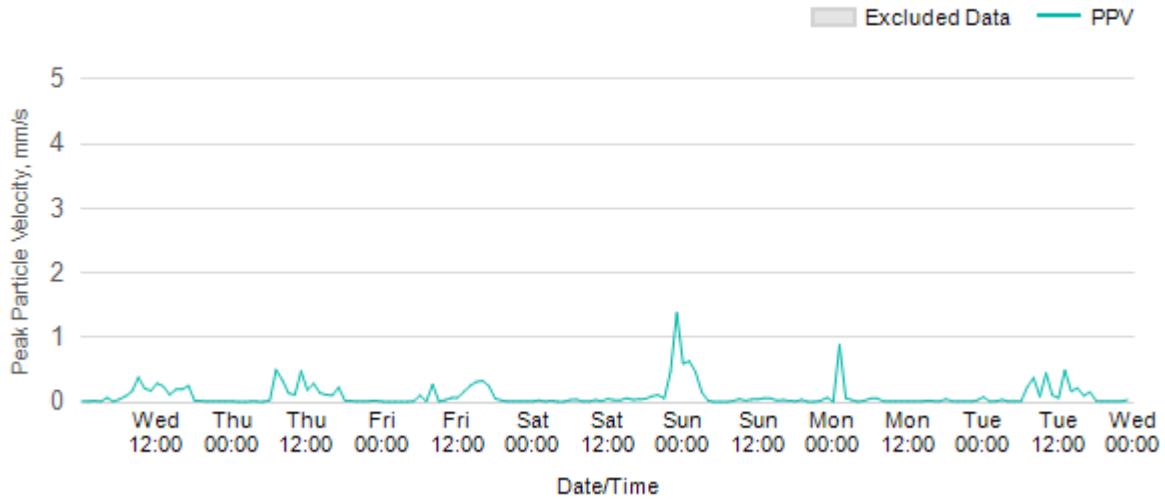


# Vibration

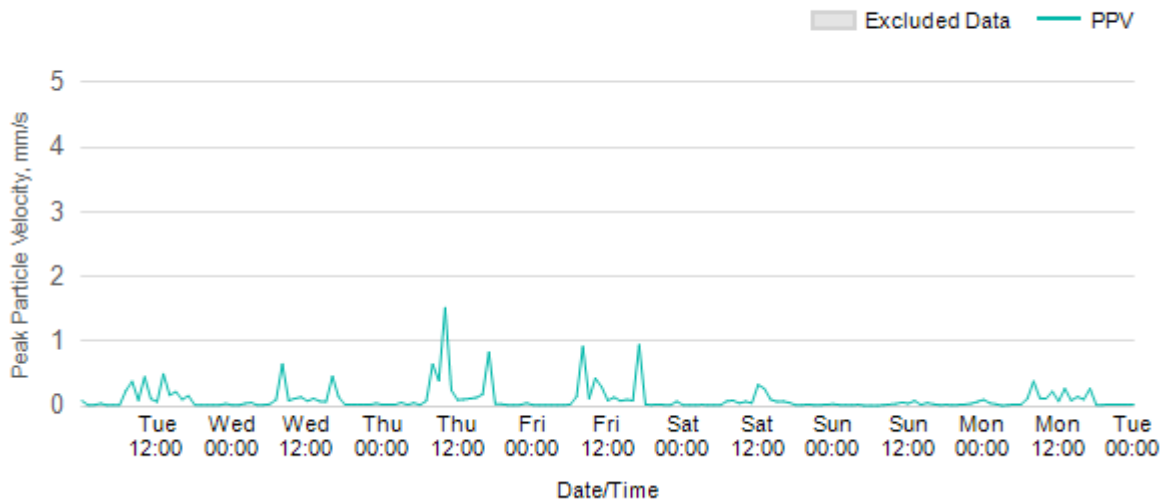
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which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

## Worksite: SE - Monitoring Ref: SE-Vib1

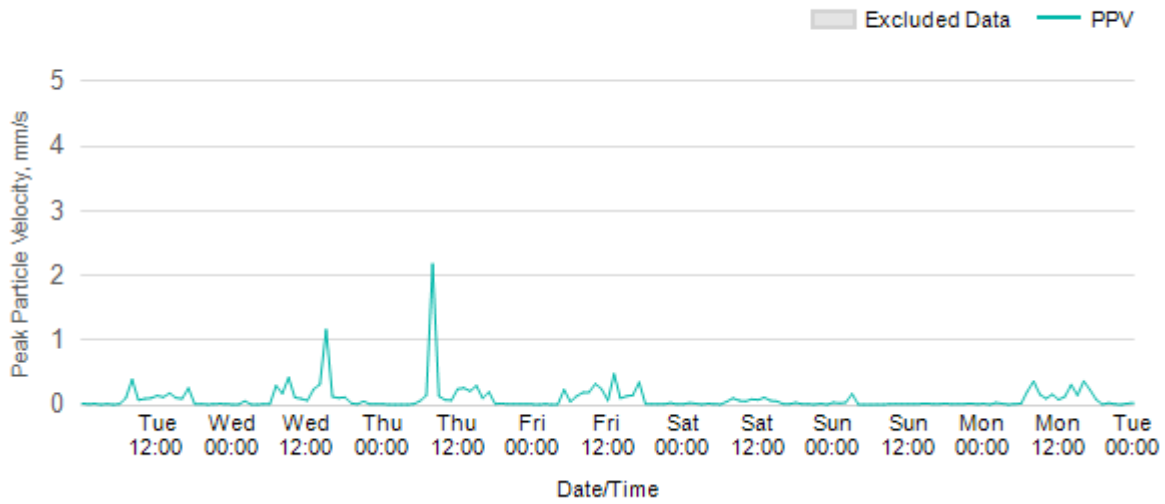
Worksite: SE Monitoring Ref: SE-Vib1 01 April 2026 to 07 April 2026



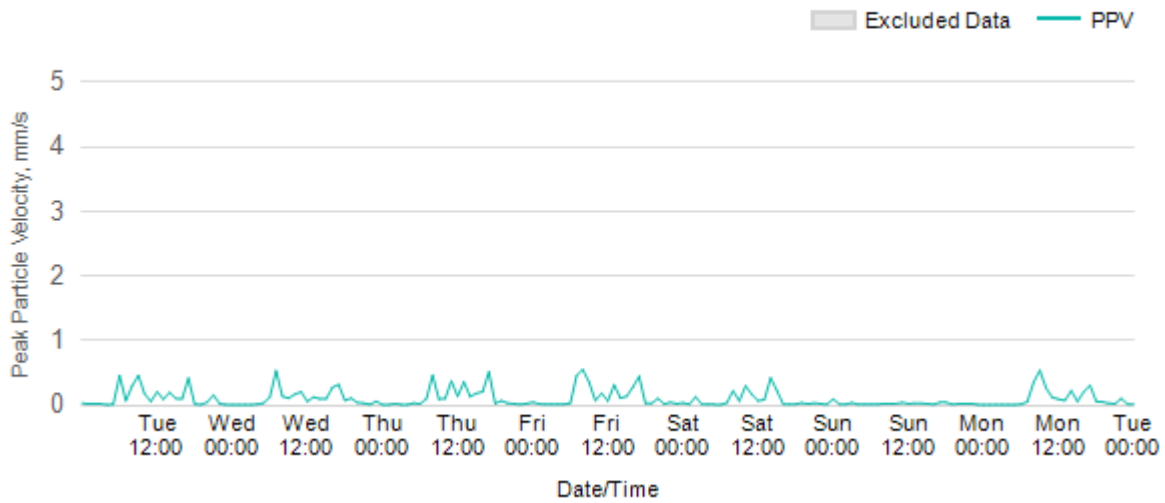
Worksite: SE Monitoring Ref: SE-Vib1 08 April 2026 to 14 April 2026



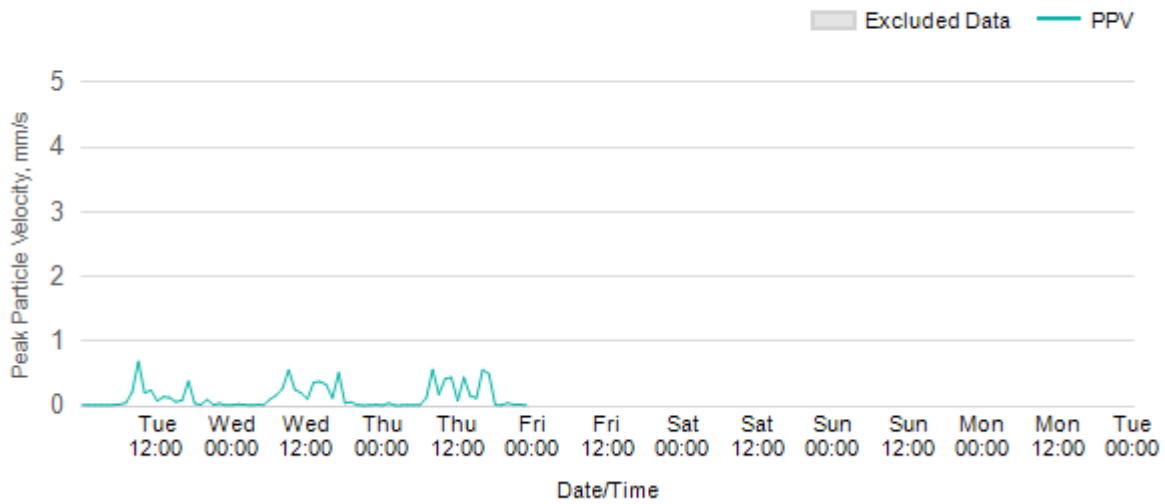
Worksite: SE Monitoring Ref: SE-Vib1 15 April 2026 to 21 April 2026



Worksite: SE Monitoring Ref: SE-Vib1 22 April 2026 to 28 April 2026

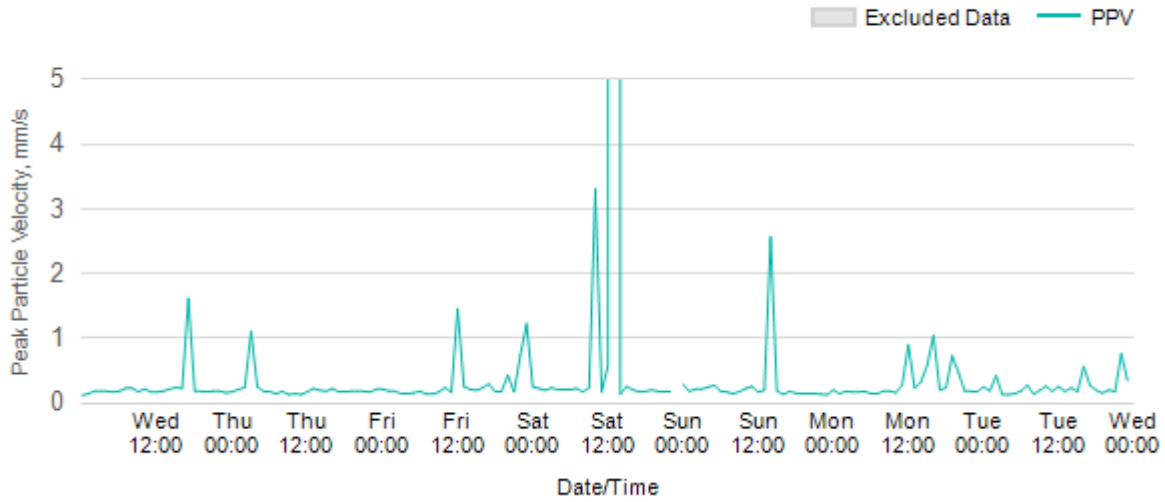


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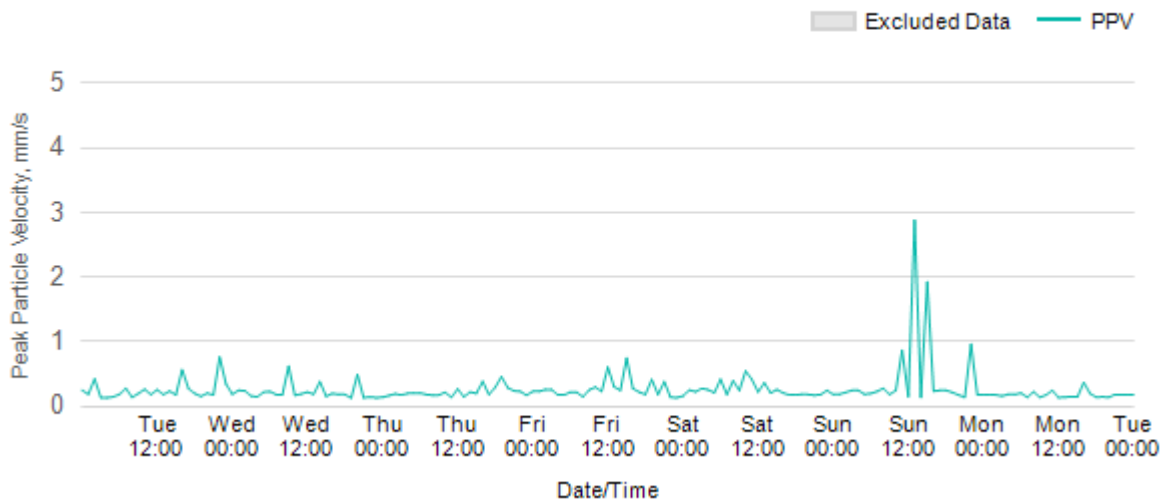


## Worksite: WGT - Monitoring Ref: ER-Vib1

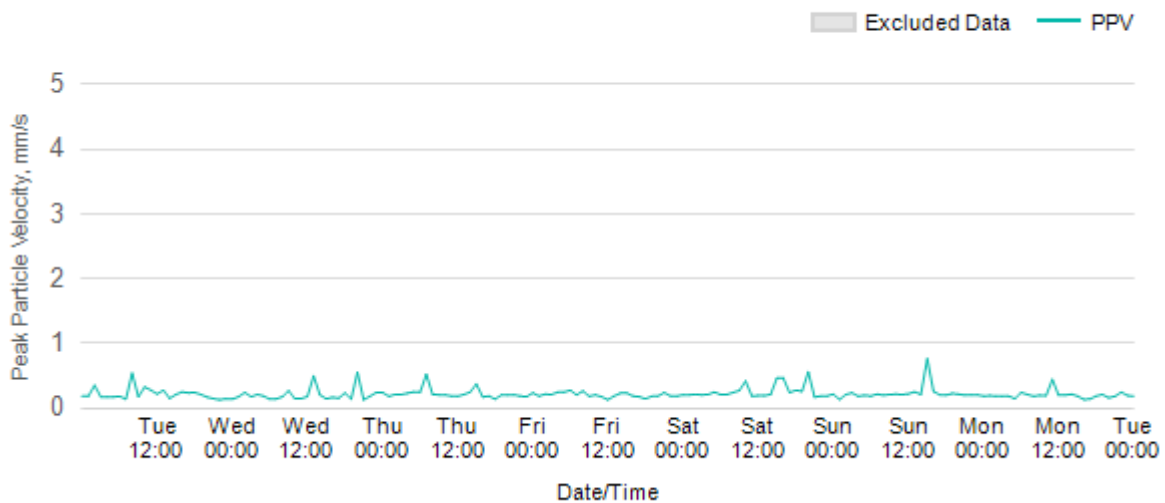
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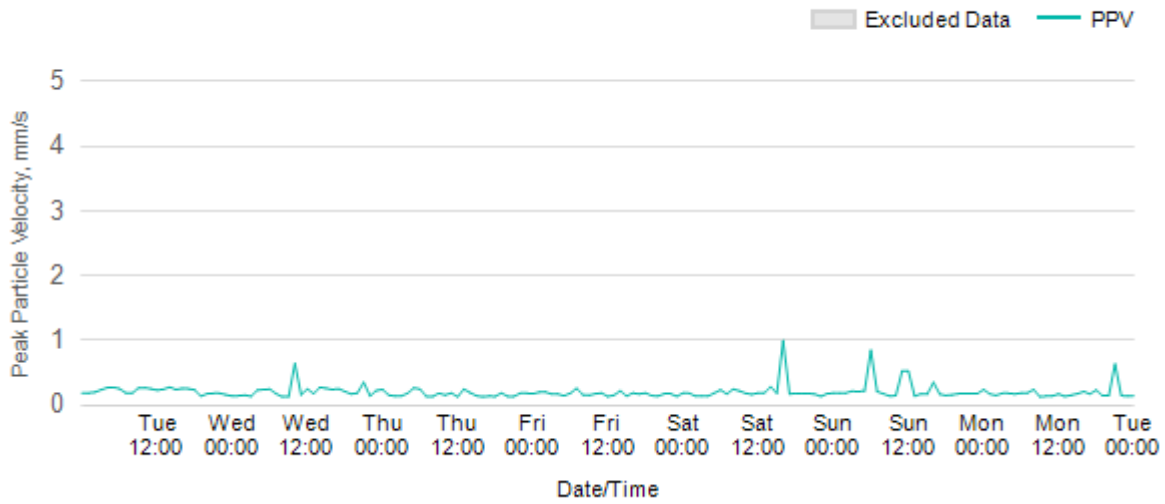
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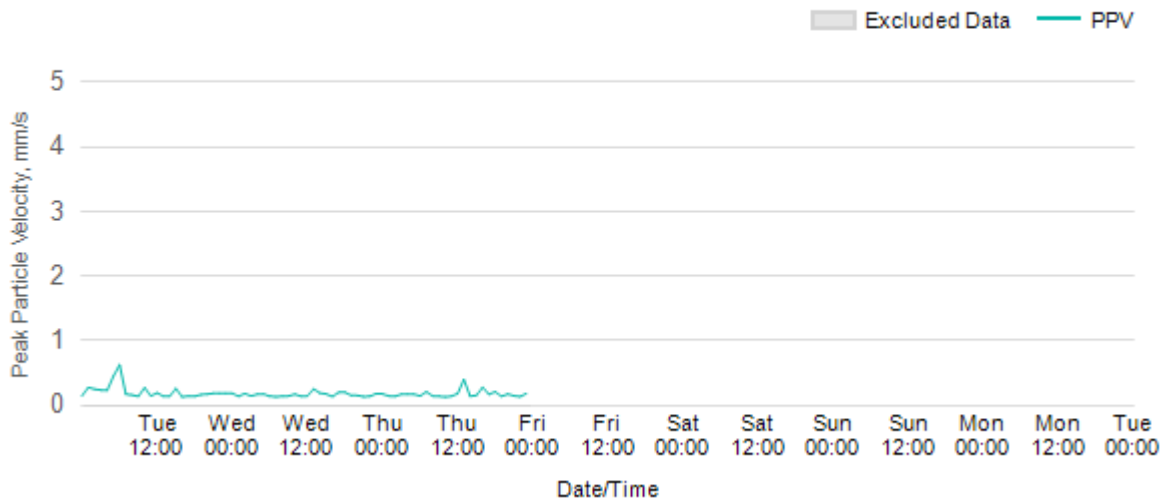
Worksite: ER Monitoring Ref: ER-Vib1 15 April 2026 to 21 April 2026



**Worksite: ER Monitoring Ref: ER-Vib1 22 April 2026 to 28 April 2026**

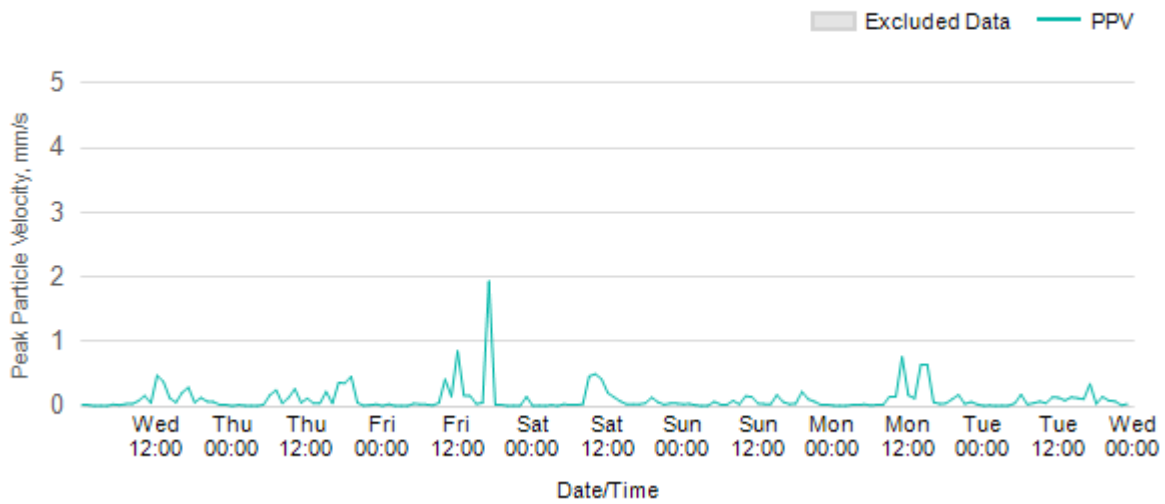


**Worksite: ER Monitoring Ref: ER-Vib1 29 April 2026 to 5 May 2026**

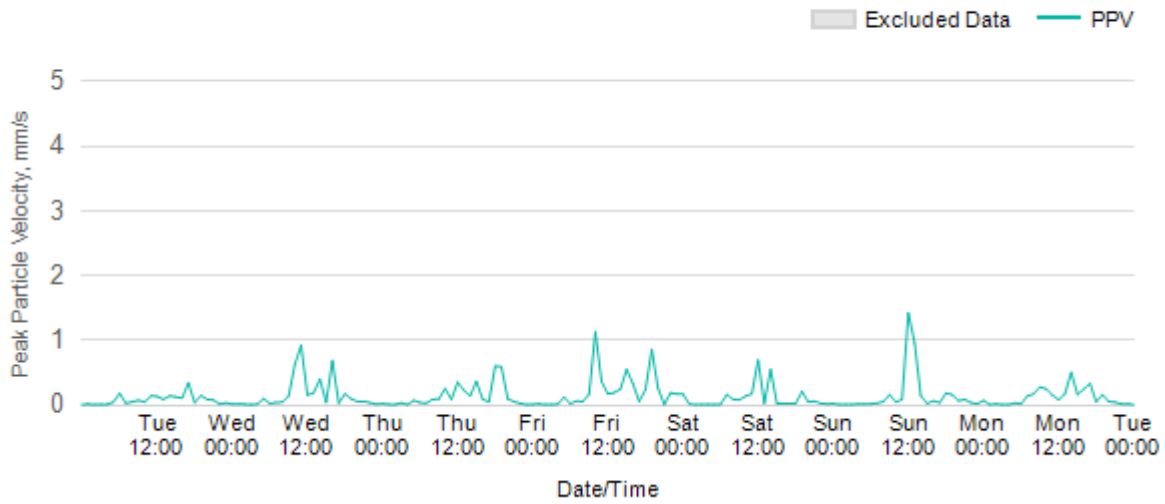


**Worksite: WSO - Monitoring Ref: PF-Vib1**

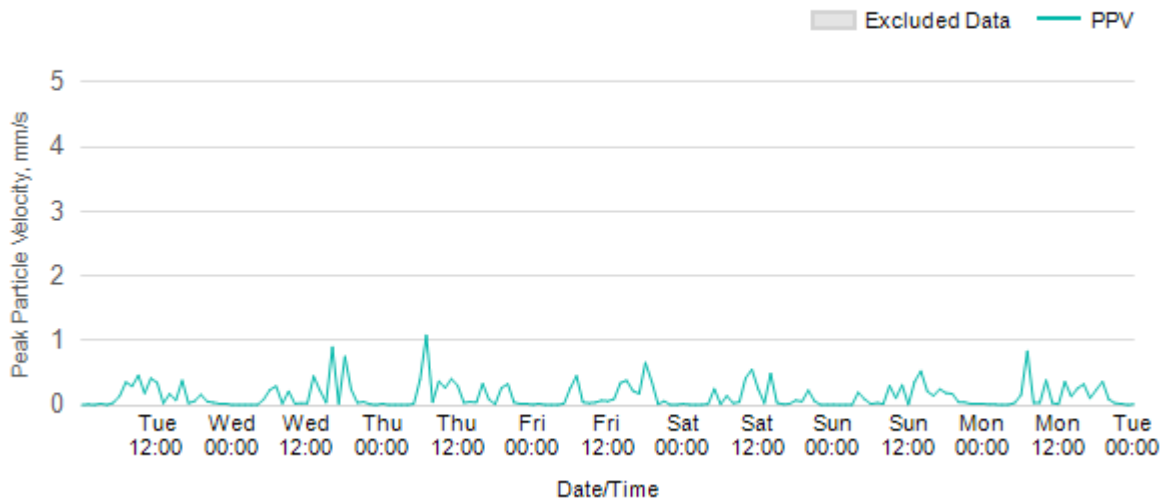
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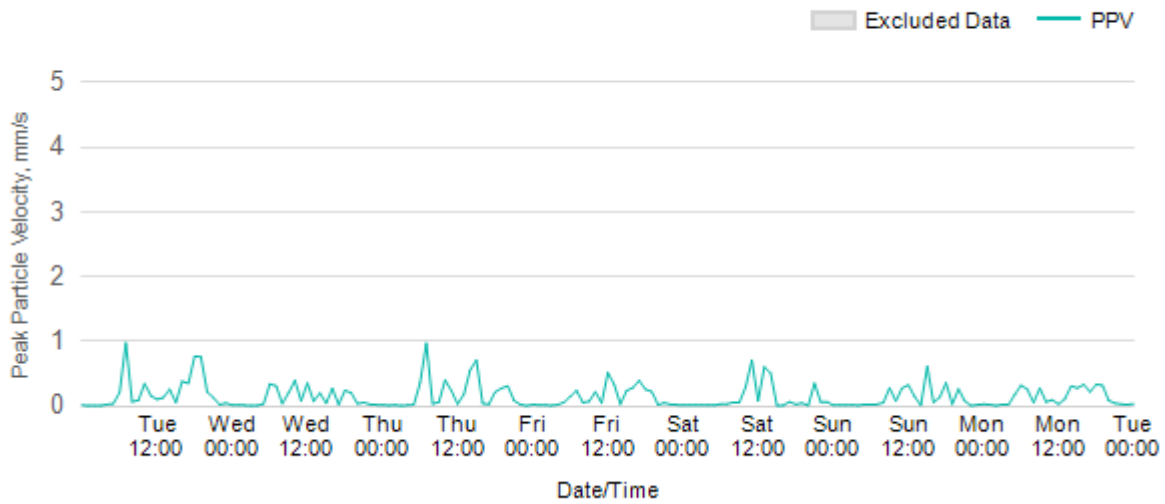
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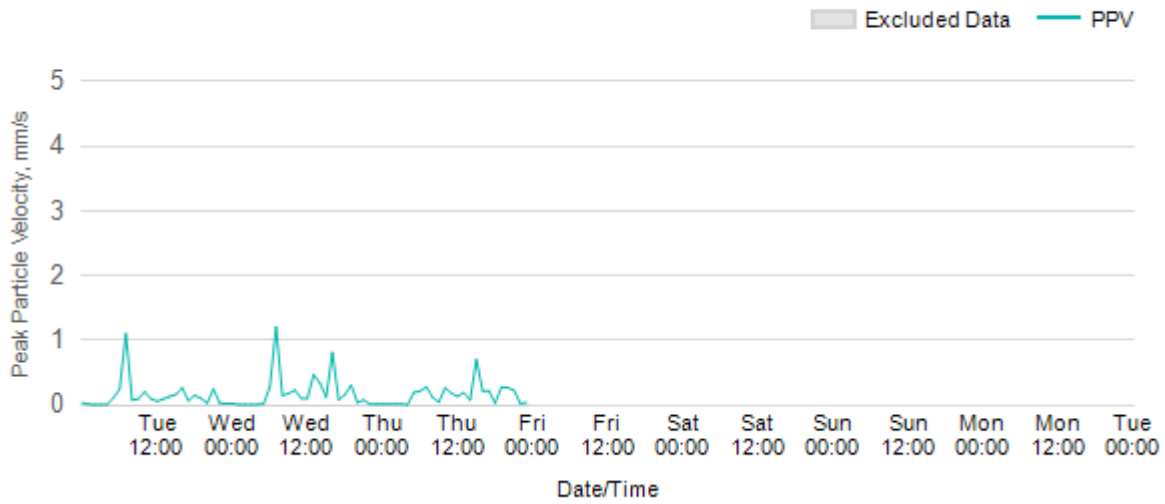
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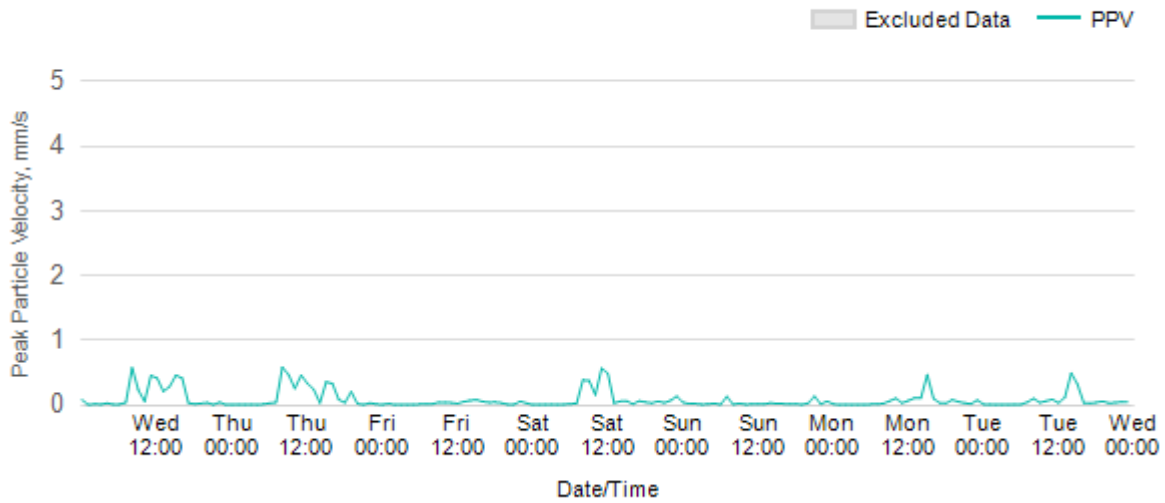


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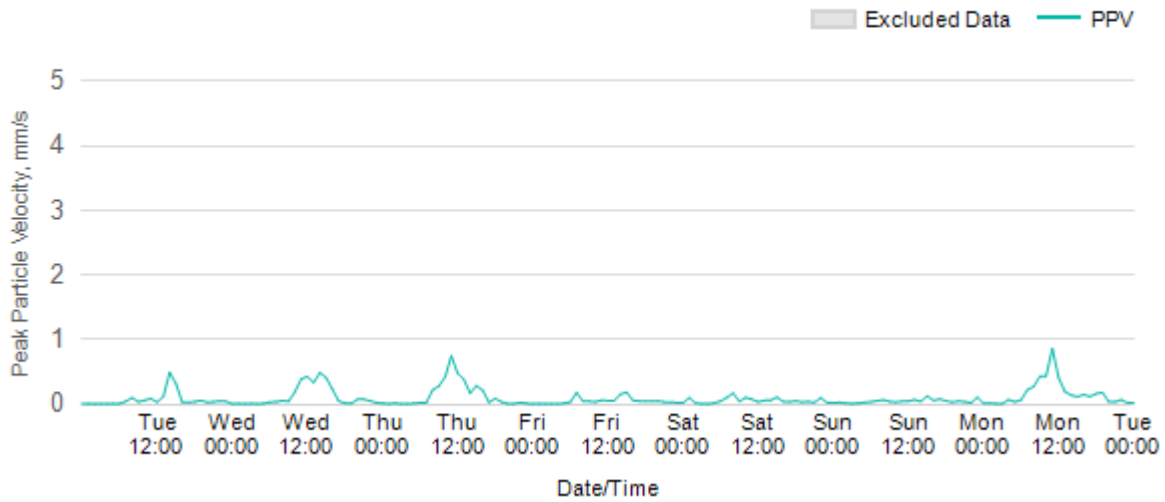


**Worksite: CAL - Monitoring Ref: BRA-Vib1**

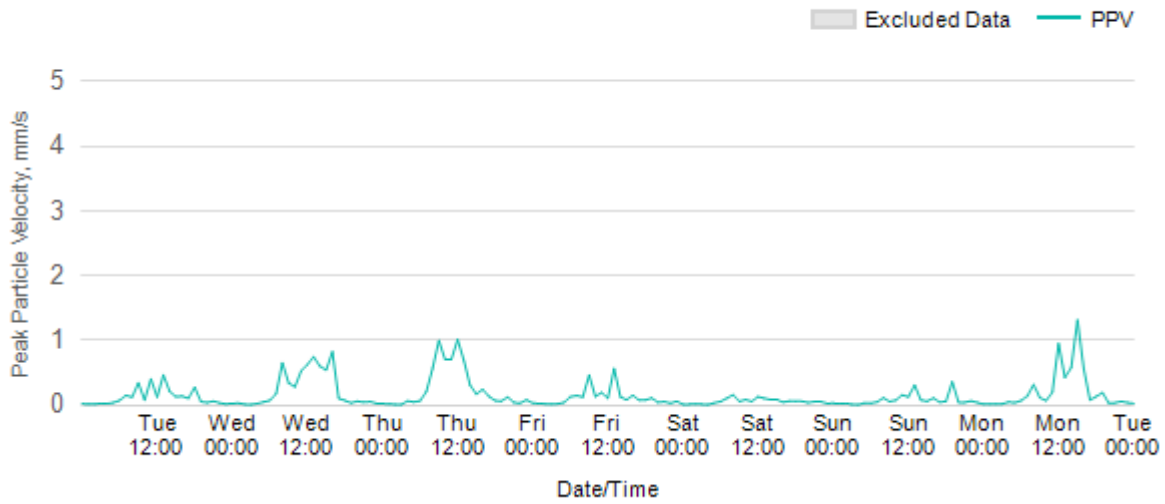
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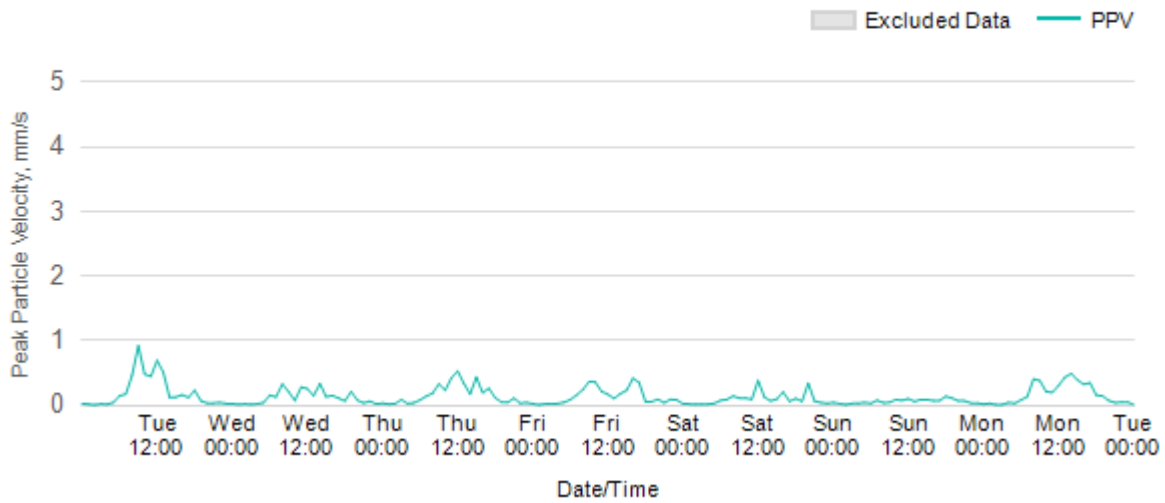
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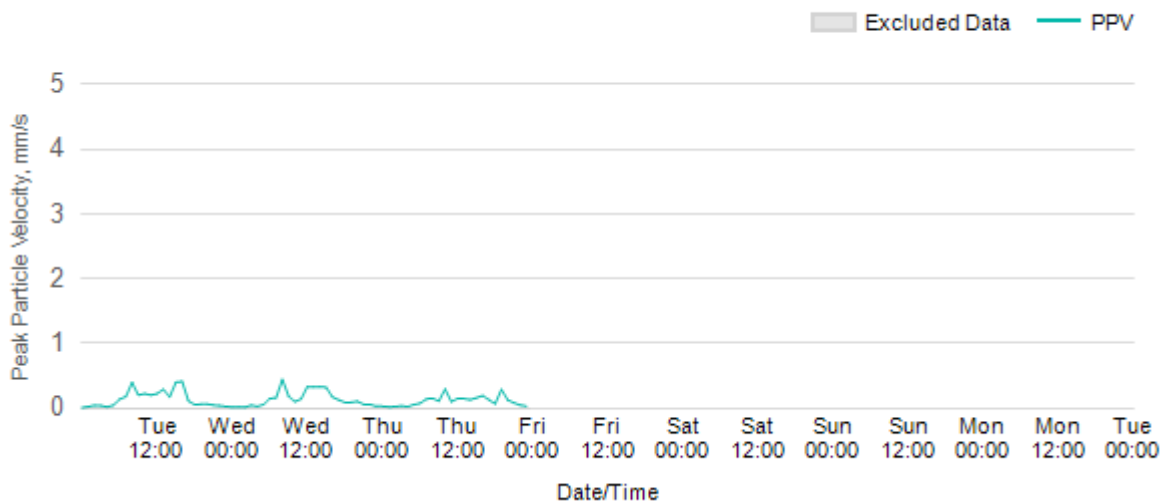
Worksite: BRA Monitoring Ref: BRA-Vib1 15 April 2026 to 21 April 2026



Worksite: BRA Monitoring Ref: BRA-Vib1 22 April 2026 to 28 April 2026

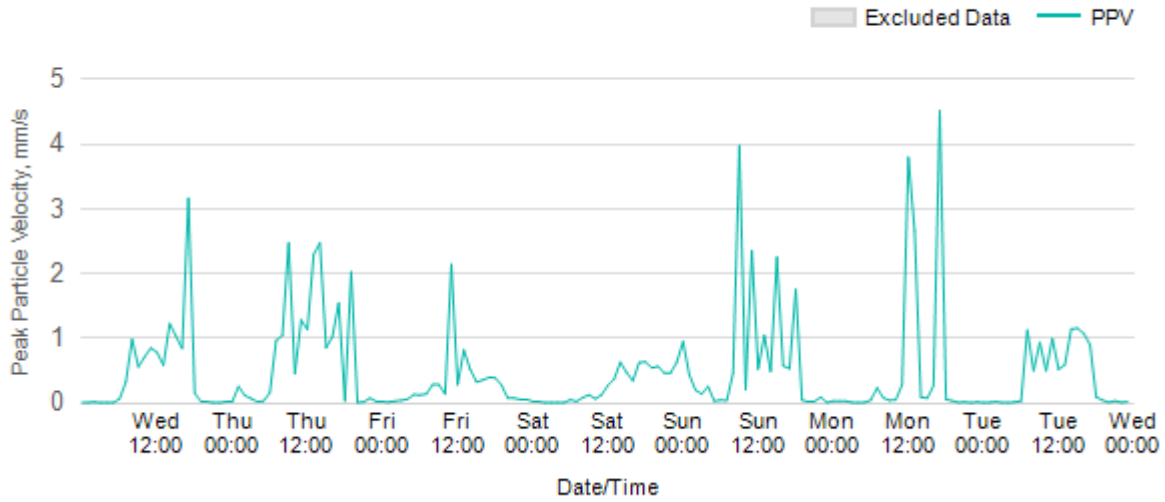


Worksite: BRA Monitoring Ref: BRA-Vib1 29 April 2026 to 5 May 2026

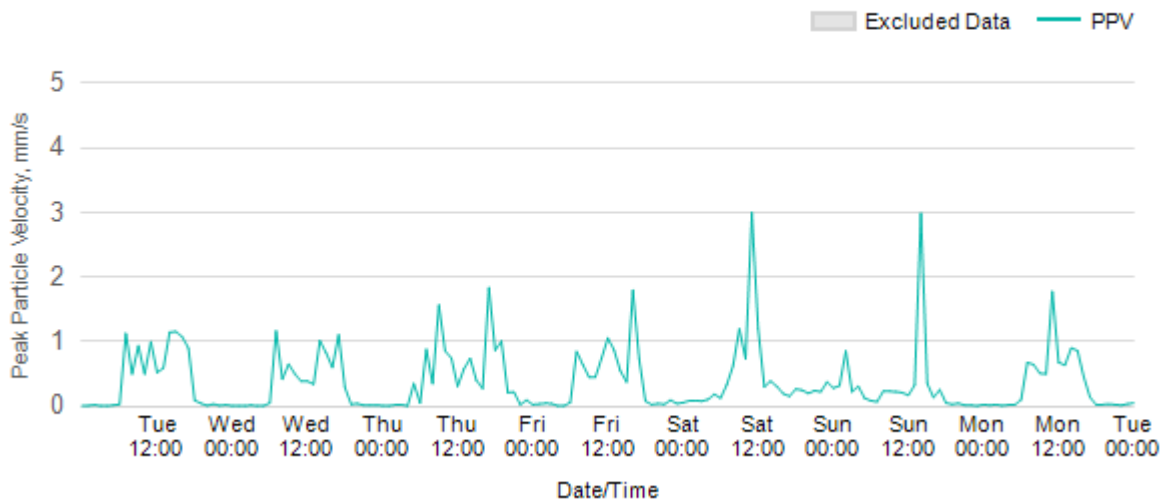


# Worksite: WDL - Monitoring Ref: WC-Vib1

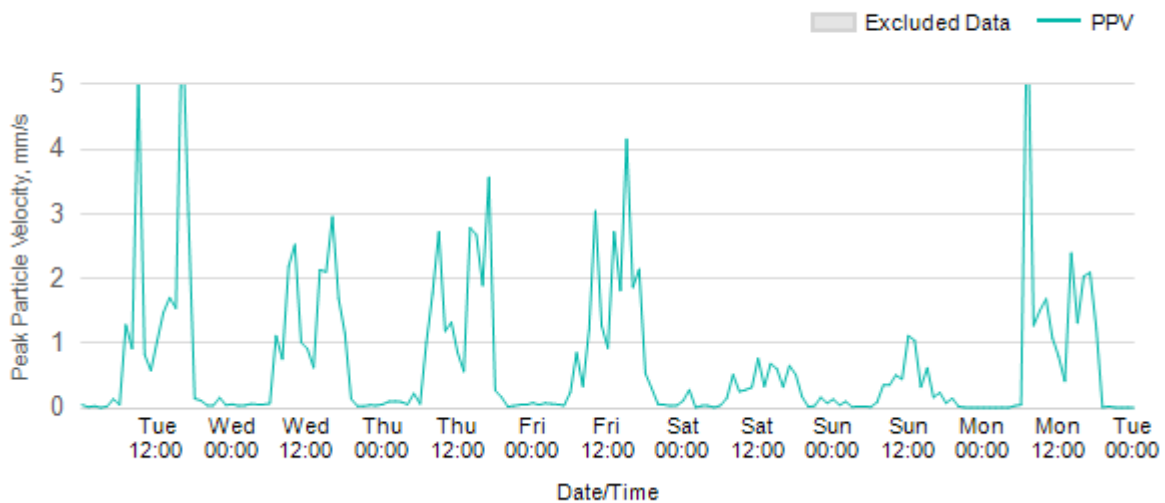
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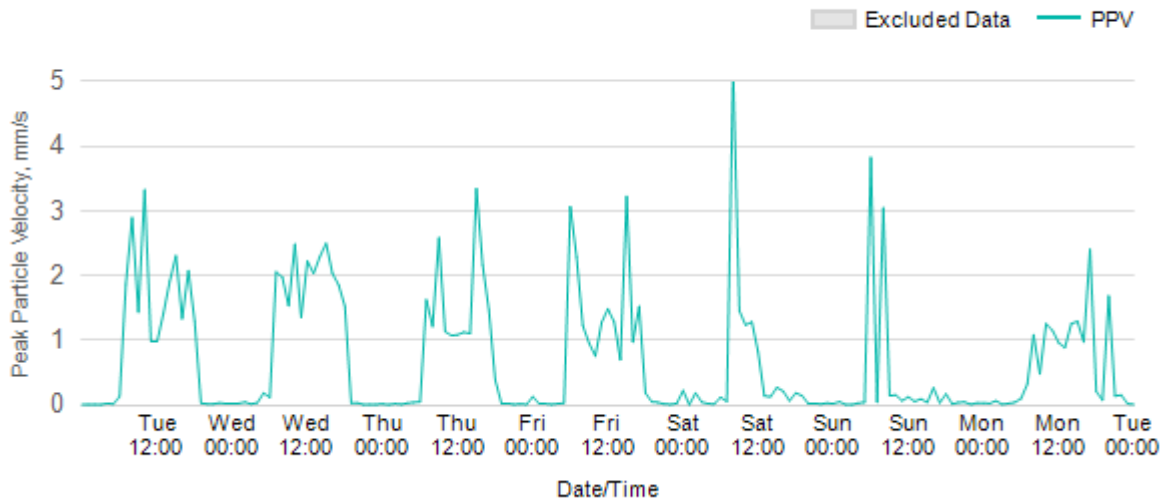
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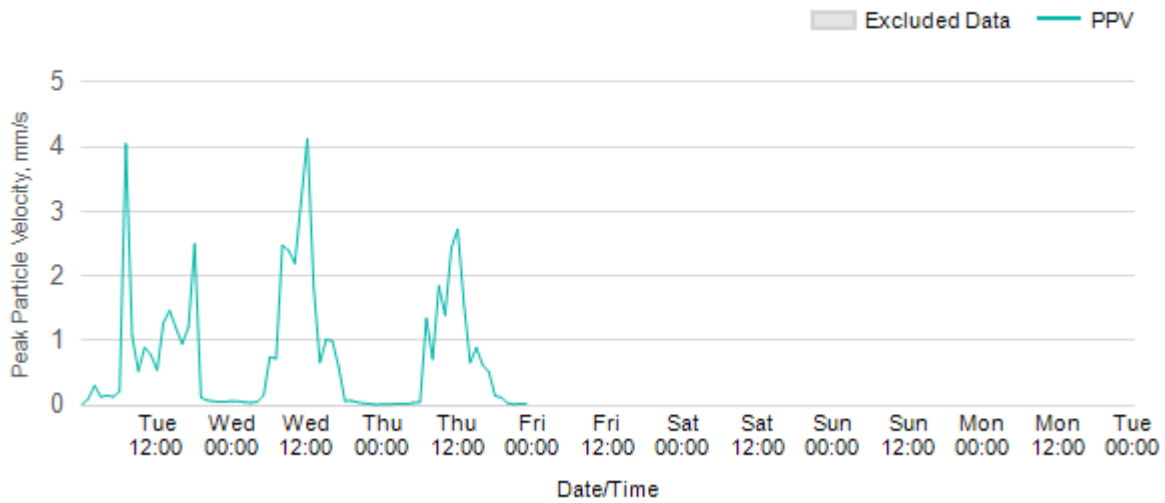
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**Worksite: WC Monitoring Ref: WC-Vib1 22 April 2026 to 28 April 2026**

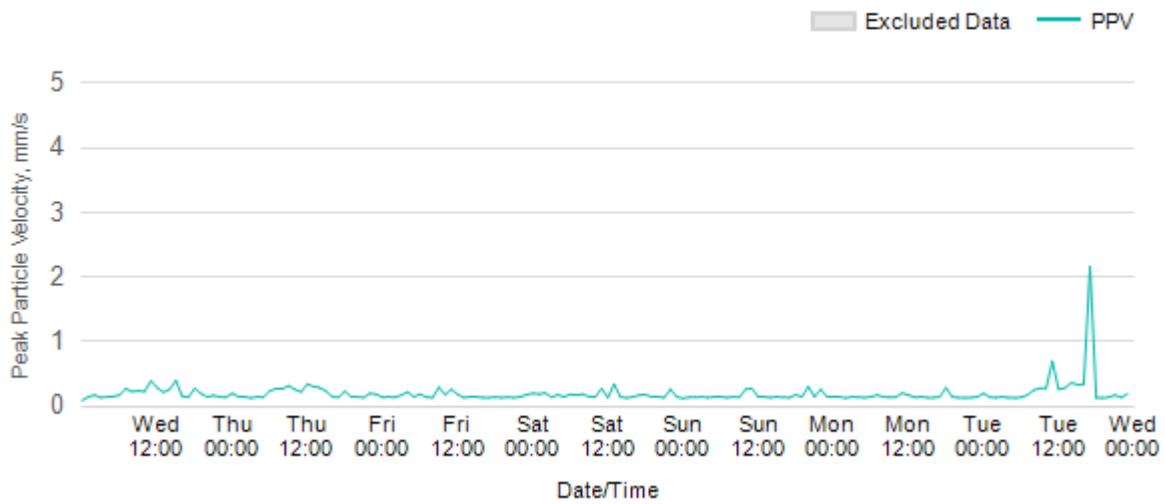


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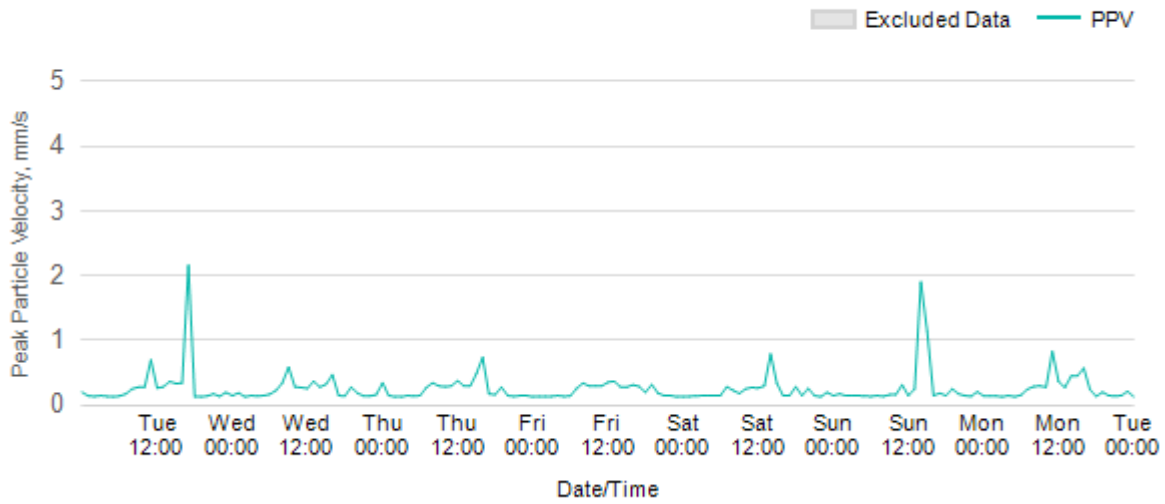


**Worksite: WDL - Monitoring Ref: WDL-Vib1**

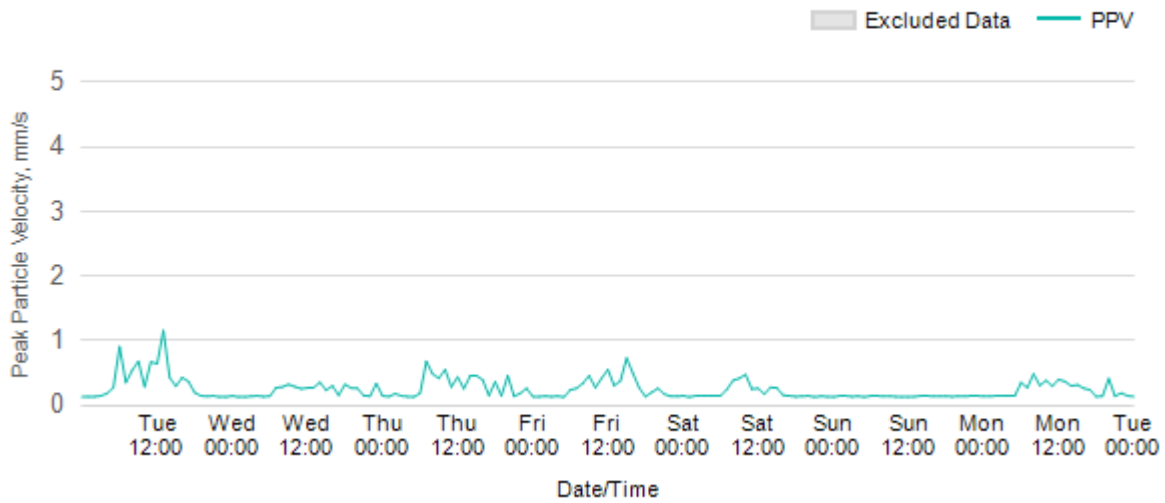
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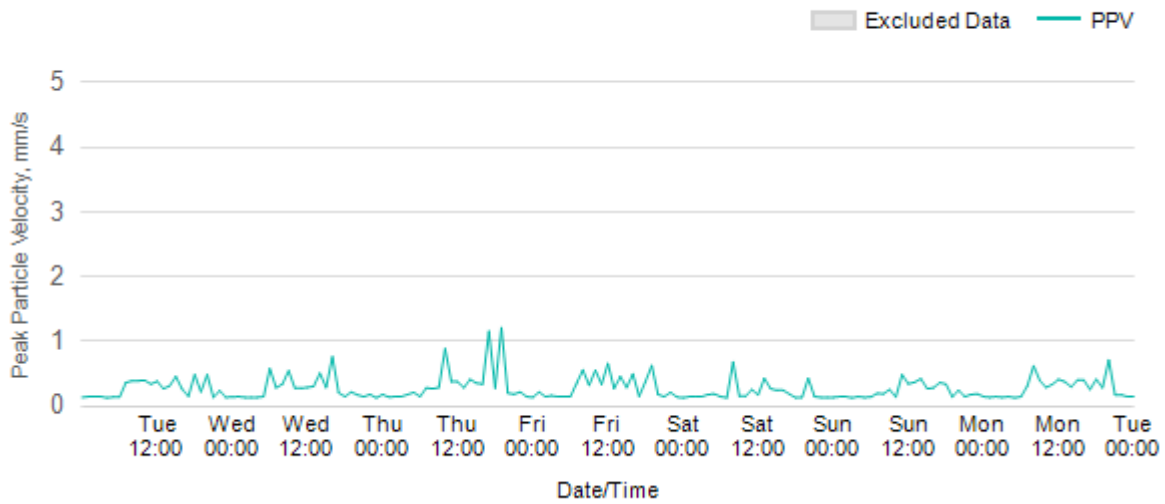
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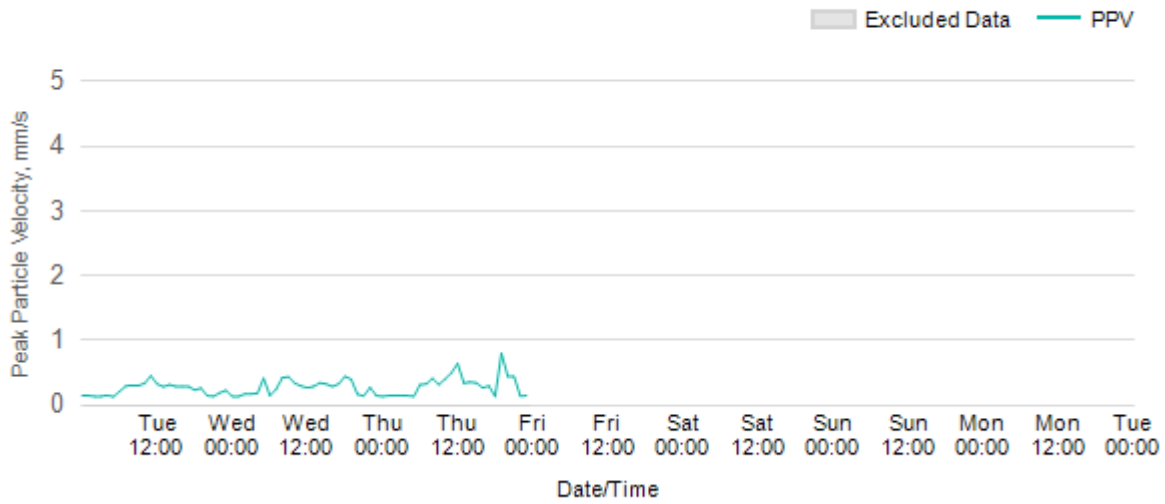
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Worksite: WDL Monitoring Ref: WDL-Vib1 22 April 2026 to 28 April 2026

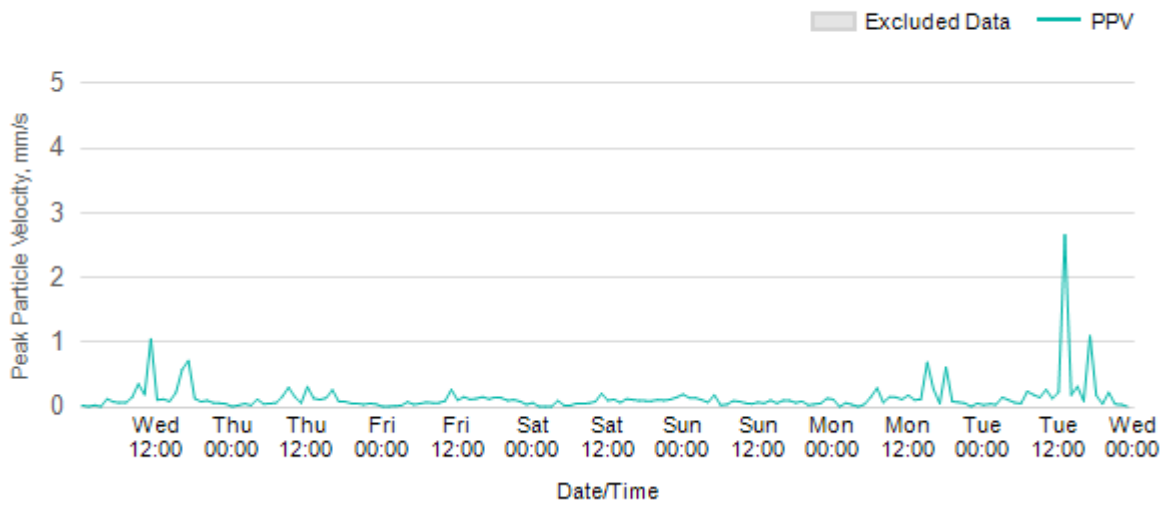


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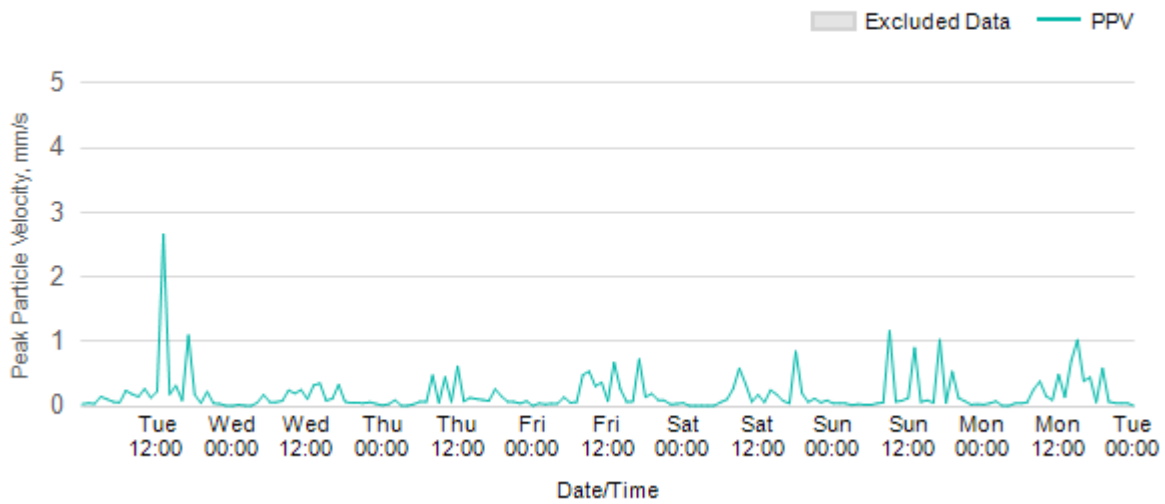


Worksite: QAR - Monitoring Ref: SR-Vib1

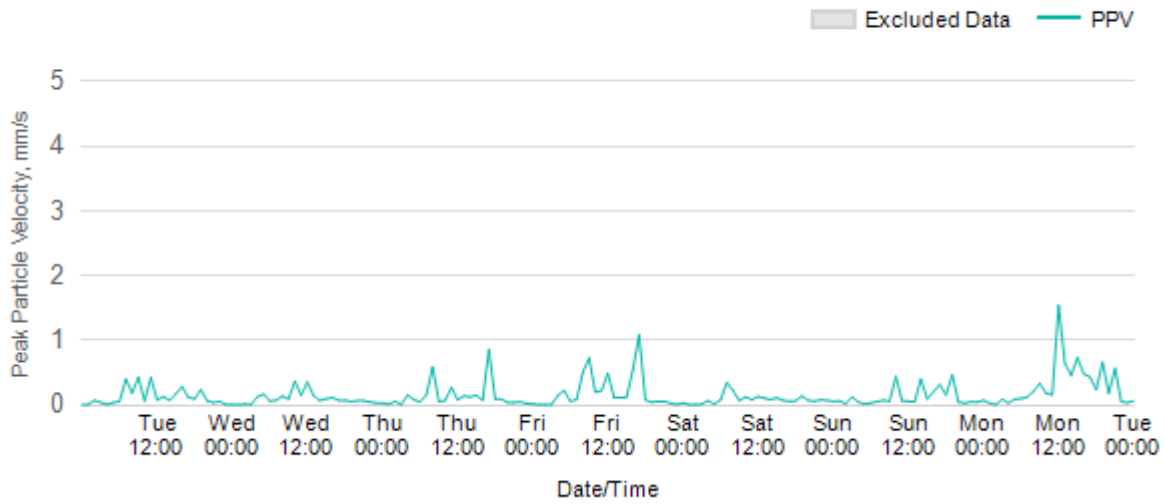
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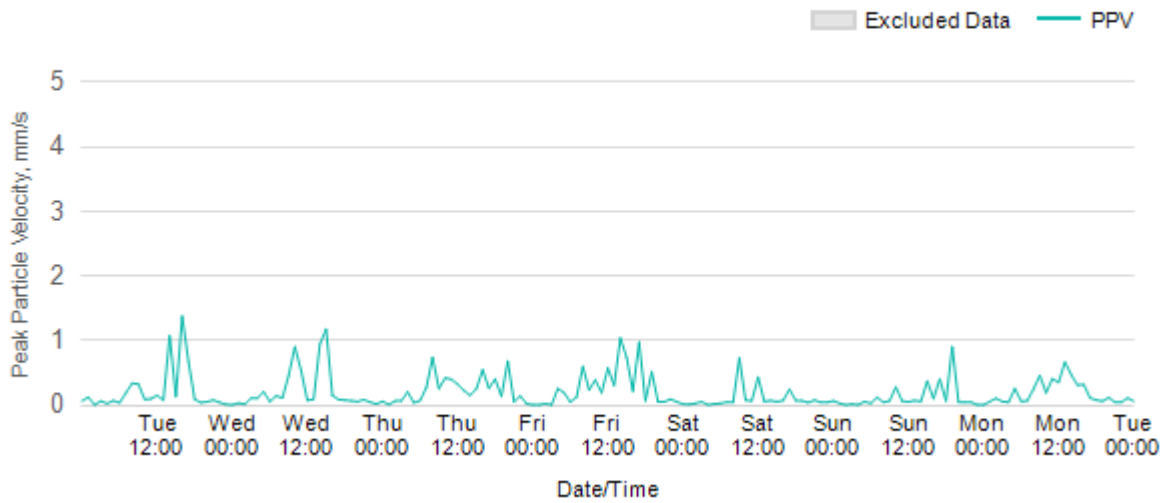
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Worksite: SR Monitoring Ref: SR-Vib1 15 April 2026 to 21 April 2026



Worksite: SR Monitoring Ref: SR-Vib1 22 April 2026 to 28 April 2026



Worksite: SR Monitoring Ref: SR-Vib1 29 April 2026 to 5 May 2026

