

HS2

January 2026

Construction Noise and Vibration Monthly Report – November 2025

London Borough of Camden

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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 the London Borough of Camden during the month of November 2025.

Within this period noise and vibration monitoring were undertaken at the following worksites:

- Adelaide Road Ventilation Shaft (ref.: ARVS) where no works were undertaken.
- Vehicle Holding Area worksite (ref.: VHA), where deliveries, site maintenance and surveys were underway.
- Mornington Street Bridge worksite (ref.: MSB), where no works were undertaken.
- Park Village East worksite (ref.: PVE), where deliveries, site maintenance and surveys were underway.
- Euston Scissor Box worksite (ref.: ESB) where deliveries, site maintenance and surveys were underway.
- Euston Throat Retained Cut worksite (ref.: ETRC) where deliveries, site maintenance, surveys, utility works, concrete coring and breakout, earthworks, wall removal, abnormal load traffic and scaffolding were underway.
- Granby Terrace Bridge worksite (ref.: GTB) where deliveries, site maintenance, surveys, utility works and concrete rectification were underway.
- Hampstead Road Bridge worksite (ref.: HRB) where deliveries, site maintenance, surveys and utility works were underway.
- Euston Cavern worksite (ref.: ECAV) where deliveries, site maintenance, surveys, formwork installation, steel fixing, concrete pouring and acoustic tent construction were underway.
- Former National Temperance Hospital - Euston North, Maria Fidelis worksite (ref.: NTH-EN, MF) where fitout works, drainage installation, soil stripping, tent construction and relocation, retaining wall removal, stockpile removal, haul road construction, concrete works, pile capping, shutter construction, reinforcement installation and backfilling were underway.
- Traction Substation worksite (ref.: TSS) where plant pre-commissioning, remedial works, snagging works, electrical installations, piling, excavation, material movements and lifting operations were underway.

- Former Two Tower Site and Western Taxi Rank (ref.: WTD & WRT) where deliveries and collections, hoarding installation and pile mat construction were underway.

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

- Drummond Street where utility diversions were underway.
- Melton Street where excavation and utility works were underway.
- Euston Road where trial hole excavations, and ground investigations were underway.
- Lancing Street where trial hole excavations were underway.
- Eversholt Street where trial hole excavations were underway.
- Stanhope Street where excavation and utility diversions were underway.
- Parkway where trial hole excavations were underway.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (<https://www.gov.uk/government/publications/hs2-information-papers-environment>), were exceeded due to HS2 works on two (2) occasions during November 2025.

There were two (2) exceedances of trigger levels as defined in section 61 consents during the reporting period.

One (1) complaint regarding noise and vibration was received by HS2 during the reporting 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
$L_{Aeq,T}$	See equivalent continuous sound pressure level
Ambient sound	A description of the all-encompassing sound at a given location and time which will include sound from many sources near and far. Ambient sound can be quantified in terms of the equivalent continuous sound pressure level, $L_{pAeq,T}$
Decibel(s), or dB	Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
Decibel(s) A-weighted, or dB(A)	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dB(A)'.
Equivalent continuous sound pressure level, or $L_{Aeq,T}$	An index used internationally for the assessment of environmental sound impacts. It is defined as the notional unchanging level that would, over a given period of time (T), deliver the same sound energy as the actual time-varying sound over the same period. Hence fluctuating sound levels can be described in terms of an equivalent single figure value, typically expressed as a decibel level.
Exclusion of data	Measurement of noise levels can be affected by weather conditions such as prolonged periods of rain, winds speeds higher than 5m/s and snow/ice ground cover. Noise levels measured during these periods are considered not representative of normal noise conditions at the site and, for the purposes of this report, are excluded from the assessment of exceedances and calculation of typical noise levels and are also greyed out in charts. Identifiable incongruous noise and vibration events not attributable to HS2 construction noise are also excluded.
Façade	A facade noise level is the noise level 1m in front of a large reflecting surface. The effect of reflection, is to produce a slightly higher (typically +3 dB) sound level than it would be if the reflecting surface was not there.
Free-field	A free-field noise level is the noise level measured at a location where no reflective surfaces, other than the ground, lies within 3.5 metres of the microphone position.
LOAEL	Lowest Observed Adverse Effect Level - the level above which adverse effects on health and quality of life can be detected.
Peak particle velocity, or PPV	Instantaneous maximum velocity reached by a vibrating element as it oscillates about its rest position. The PPV is a simple indicator of perceptibility and risk of damage to structures due to vibration. It is usually measured in mm/s.
SOAEL	Significant Observed Adverse Effect Level - the level above which significant adverse effects on health and quality of life occur.
Sound pressure level	The parameter by which sound levels are measured in air. It is measured in decibels. The threshold of hearing has been set at 0dB, while the threshold of pain is approximately 120dB. Normal speech is approximately 60dB at a distance of 1 metre and a change of 3dB in a time varying sound signal is commonly regarded as being just detectable. A change of 10dB is subjectively twice, or half, as loud.
Vibration dose value, or VDV	An index used to evaluate human exposure to vibration in buildings. While the PPV provides information regarding the magnitude of single vibration events, the VDV provides a measure of the total vibration experienced over a specified period of time (typically 16h daytime and 8h night-time). It takes into account the magnitude, the number and the duration of vibration events and can be used to quantify exposure to continuous, impulsive, occasional and intermittent vibration. The vibration dose value is measured in $m/s^{1.75}$.

1 Introduction

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

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

Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the London Borough of Camden (LBC) for the period 1st to 30th November 2025.

1.1.2 Active construction sites in the local authority area where monitoring was undertaken during this period include:

- The Adelaide Road ventilation shaft ref.: ARVS, (see plan 2 in Appendix A), where no works were undertaken.
- Vehicle Holding Area worksite ref.: VHA (see plan 1 in Appendix A), where work activities included:
 - Deliveries.
 - Site maintenance including haul roads and drainage.
 - Surveys.
- Mornington Street Bridge worksite ref.: MSB (see plan 2 in Appendix A), where no works were undertaken.
- Park Village East worksite ref.: PVE (see plan 2 in Appendix A), where work activities included:
 - Deliveries.
 - Site maintenance including haul roads and drainage.

- Surveys.
- Euston Scissor Box worksite ref.: ESB (see plan 2 in Appendix A), where work activities included:
 - Deliveries.
 - Site maintenance including haul roads and drainage.
 - Surveys.
- Euston Throat Retained Cut worksite ref.: ETRC (see plan 2 in Appendix A), where work activities included:
 - Deliveries.
 - Site maintenance including haul roads and drainage.
 - Surveys.
 - Utility works.
 - Concrete coring and breakout.
 - Earthworks including excavation.
 - Wall removal.
 - Abnormal load traffic.
 - Scaffolding.
- Granby Terrace Bridge worksite ref.: GTB (see plan 2 in Appendix A), where work activities included:
 - Deliveries.
 - Site maintenance including haul roads and drainage.
 - Surveys.
 - Utility works.
 - Concrete rectification.
- Hampstead Road Bridge worksite ref.: HRB (see plan 3 in Appendix A), where work activities included:
 - Deliveries.
 - Site maintenance including haul roads, drainage and hoarding.
 - Surveys.
 - Utility works.
- Euston Cavern worksite ref.: ECAV (see plan 3 in Appendix A), where work activities included:
 - Deliveries.

- Site maintenance including haul roads and drainage.
- Surveys.
- Formwork installation.
- Steel fixing.
- Concrete pouring.
- Acoustic tent construction.
- Former National Temperance Hospital – Euston North, Maria Fidelis worksite ref.: NTH-EN, MF (see plan 4 in Appendix A), where work activities included:
 - Fitout works.
 - Drainage installation.
 - Soil stripping.
 - Tent construction and relocation.
 - Retaining wall removal.
 - Stockpile removal.
 - Haul road construction.
 - Concrete works.
 - Pile capping.
 - Shutter construction.
 - Reinforcement installation.
 - Backfilling.
- Traction Substation worksite ref.: TSS (see plan 4 in Appendix A), where work activities included:
 - Plant pre-commissioning.
 - Remedial works.
 - Snagging works.
 - Electrical installations.
 - Material movements.
 - Piling.
 - Excavation.
 - Lifting operations.
- Former Two Tower Site and Western Taxi Rank worksite ref.: WTD & WTR (see plan 4 in Appendix A), where work activities included:

- Deliveries and collections.
- Hoarding installation.
- Pile mat construction.

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

- Drummond Street where utility diversions were underway.
- Melton Street where excavation and utility works were underway.
- Euston Road where trial hole excavations and ground investigations were underway.
- Lancing Street where trial hole excavations were underway.
- Eversholt Street where trial hole excavations were underway.
- Stanhope Street where excavation and utility diversions were underway.
- Parkway where trial hole excavations were underway.

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

1.2 Measurement Locations

1.2.1 Thirty (32) noise and nine (9) vibration monitoring installations were active in November in the LBC area. Table 2 summarises the location of noise and vibration monitoring installations within the LBC area in November 2025.

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

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
ARVS	N051	Outside 70 Adelaide Road
	N052	Adelaide Road-Beaumont Walk
MSB & ECAV, PVE	N024	Lamppost outside Park Village Studios, Park Village East
	N047	Lamppost #3 on corner of Park Village East and Mornington Street Bridge
	PVS-N001	Park Village Studios
	PVS-V001	Park Village Studios

Worksite Reference	Measurement Reference	Address
	N022	Lamppost #34 on Mornington Terrace, between Mornington Street Bridge and Edinboro Castle pub
	N046	Lamppost on Mornington Terrace, between Mornington Street Bridge and Delancey Street, near Edinboro Castle pub
ESB & GTB, PVE	N001	Park Village East Lamppost #1 Outside Cubitt Court
	N001b	Park Village East Adjacent to Cubitt Court
	N002	Park Village East Lamppost #2 Outside Richmond House
	N003	Park Village East Lamppost #15 Outside Silsoe House
	SH-V001	Basement of Silsoe House
	N004	Mornington Terrace Lamppost #7 Junction of Mornington Terrace, Mornington Place & Clarkson Row
	N005	Euston Approaches – Xavier House site office external staircase
ETRC & HRB	N023	Lamppost #21 on Hampstead Road - opposite Xavier House site office
	N023B	Euston Throat Retained Cut site hoarding south of Hampstead Road Bridge
	N020	Lamppost on corner of Mackworth Street and Harrington Street
	N021	Lamppost on Stanhope Street, west of Stephenson House site office
	N044	Euston Approaches site hoarding – between Stephenson House site office and Langdale, Regent's Park Estate
	N045	Euston Approaches site hoarding – east of Coniston, Regent's Park Estate
	V039	Euston Approaches site – east of Coniston, Regent's Park Estate
	V043	Euston Approaches site – Cartmel House, Regents Park Estate
HRB & ETRC, NTH-EN	N018	Outside replacement housing, Hampstead Road
	N019	Euston Approaches site hoarding – north facing façade of Cartmel House
	N026a	Euston Approaches site hoarding – east facing façade of Cartmel House
TSS	N006	Royal College of General Practitioners roof level
	N008	Stephenson's Way lamppost (external to RCGP)
	N010	Wesley Hotel
	N011	Euston Street, lamppost #4 (external to 82 Euston Street)
	V002	Royal College of General Practitioners basement boiler room by Stephenson Way
	V037	Magic Circle, basement
	V038	Wesley Hotel boiler room, Regnart Buildings side, Euston St
	N007	Royal College of General Practitioners, Melton Street
	V003	Royal College of General Practitioners basement vaults under Melton St

Worksite Reference	Measurement Reference	Address
VHA	N025	Lamppost #3 on Prince Albert Road opposite the Vehicle Holding Area (VHA) site
NTH-EN, TSS	N012	Drummond Street, lamppost #14 (opposite to 92-94 Drummond Street)
NTH-EN, MF	N014	Starcross Street lamppost (external to Exmouth Arms)
	N016	Margaret Centre roof
	V021	42-44 Cobourg Street
	N017	Hampstead Road, lamppost #48

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 $L_{Aeq,T}$ is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period $L_{Aeq,T}$ that was found to occur within the month.

Table 3: Summary of Measured dB L_{Aeq} Data over the Monitoring Period

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average L _{Aeq,T} (Highest Day L _{Aeq,T})					Saturday Average L _{Aeq,T} (Highest Day L _{Aeq,T})					Sunday / Public Holiday Average L _{Aeq,T} (Highest Day L _{Aeq,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
ARVS	N051	Outside 70 Adelaide Road	Free-field	67.4 (69.5)	69.6 (72.6)	68.5 (71.7)	68.0 (79.1)	65.1 (74.9)	66.9 (71.5)	68.3 (71.2)	68.6 (74.0)	66.4 (68.8)	64.1 (75.3)	65.8 (71.7)	65.0 (70.3)
	N052	Adelaide Road-Beaumont Walk	Free-field	67.0 (70.1)	68.4 (71.4)	67.3 (69.1)	67.1 (76.3)	64.7 (71.4)	64.8 (66.8)	66.9 (68.9)	67.3 (72.2)	66.9 (71.0)	64.0 (68.5)	65.8 (71.0)	64.4 (68.3)
MSB & ECAV, PVE	N024 *	Lamppost outside Park Village Studios, Park Village East	Free-field	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	N047	Lamppost #3 on corner of Park Village East and Mornington Street Bridge	Free-field	59.9 (62.3)	61.6 (66.8)	61.0 (66.5)	59.7 (65.2)	54.8 (65.1)	55.0 (55.8)	59.0 (60.9)	60.3 (61.3)	60.7 (67.6)	54.5 (58.3)	58.5 (62.6)	55.5 (63.3)
	PVS-N001	Park Village Studios	Façade	64.0 (69.3)	66.6 (68.8)	64.1 (68.1)	63.8 (67.1)	59.0 (69.6)	62.9 (65.2)	64.4 (64.8)	63.9 (64.8)	63.9 (72.2)	55.3 (63.5)	62.8 (65.6)	58.4 (63.7)
	N022 *	Lamppost #34 on Mornington Terrace	Free-field	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	N046	Lamppost on Mornington Terrace	Free-field	61.8 (63.5)	63.7 (66.7)	61.7 (65.2)	61.3 (65.7)	57.1 (65.6)	60.7 (62.7)	62.2 (63.7)	62.4 (62.6)	61.4 (66.7)	56.6 (64.4)	60.3 (65.3)	57.0 (61.7)

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Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average L _{Aeq,T} (Highest Day L _{Aeq,T})					Saturday Average L _{Aeq,T} (Highest Day L _{Aeq,T})					Sunday / Public Holiday Average L _{Aeq,T} (Highest Day L _{Aeq,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
ESB & GTB, PVE	N001 *	Park Village East Lamppost #1 Outside Cubitt Court	Free-field	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	N001b	Park Village East Adjacent to Cubitt Court	Free-field	58.5 (61.3)	63.8 (70.1)	57.8 (63.8)	57.7 (65.4)	52.4 (64.3)	53.9 (54.6)	57.7 (60.5)	56.8 (57.7)	57.6 (66.8)	51.2 (55.3)	56.3 (61.6)	57.1 (79.5)
	N002 *	Park Village East Lamppost #2	Free-field	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	N003	Park Village East Lamppost #15 Outside Silsoe House	Façade	60.9 (64.7)	62.8 (67.2)	62.3 (69.6)	60.7 (65.9)	55.8 (64.6)	55.4 (57.0)	59.9 (62.2)	62.3 (64.0)	61.6 (66.4)	55.7 (61.0)	60.0 (67.7)	56.9 (64.0)
	N004 *	Mornington Terrace Lamppost #7	Free-field	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	N005	Euston Approaches – Xavier House site office external staircase	Free-field	62.2 (65.0)	63.7 (68.1)	63.7 (68.2)	62.7 (66.9)	59.4 (64.9)	60.9 (61.5)	63.4 (65.3)	63.7 (68.4)	63.0 (67.0)	59.5 (63.4)	62.4 (69.2)	60.7 (68.6)
ETRC & HRB	N023 *	Lamppost #21 on Hampstead Road	Free-field	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
	N023B	Euston Throat Retained Cut site hoarding south of Hampstead Road Bridge	Free-field	64.3 (66.8)	68.8 (76.3)	64.5 (72.6)	64.6 (70.5)	63.5 (73.0)	63.2 (63.7)	63.8 (65.2)	63.7 (65.7)	65.5 (70.4)	64.0 (70.0)	63.6 (66.9)	63.7 (68.8)
	N020	Lamppost on corner of Mackworth Street and Harrington Street	Free-field	55.7 (58.3)	59.8 (64.5)	56.5 (69.6)	56.1 (76.2)	52.8 (67.0)	55.0 (61.8)	59.3 (64.8)	57.3 (61.8)	57.8 (68.0)	50.8 (56.9)	55.0 (62.3)	54.0 (62.8)
	N021	Lamppost on Stanhope Street, west of Stephenson House site office	Free-field	57.0 (59.9)	60.6 (70.3)	58.7 (67.2)	58.3 (72.8)	52.4 (64.3)	51.8 (52.9)	57.1 (58.7)	56.3 (57.6)	57.7 (61.4)	52.5 (57.7)	56.2 (60.1)	57.7 (80.7)
	N044	Regents Park Estate west, near Langdale	Free-field	57.3 (60.4)	62.7 (68.7)	55.1 (69.0)	55.3 (73.7)	51.4 (67.4)	52.7 (53.4)	55.6 (61.0)	53.7 (54.2)	54.8 (63.3)	50.4 (54.7)	54.2 (61.9)	54.5 (72.9)
	N045	Euston Approaches site hoarding – east of Coniston	Free-field	58.0 (59.8)	66.0 (73.7)	55.4 (68.9)	56.2 (69.7)	53.9 (71.6)	53.1 (55.0)	55.7 (59.2)	54.5 (56.4)	57.2 (67.6)	53.3 (59.4)	54.6 (63.3)	55.2 (64.5)
HRB & ETRC, NTH-EN	N018	Outside replacement housing, Hampstead Road	Free-field	65.0 (68.8)	68.4 (74.1)	65.4 (70.4)	66.2 (74.4)	64.5 (73.5)	62.5 (64.1)	65.0 (66.5)	66.1 (69.1)	66.1 (70.8)	64.9 (70.3)	65.0 (73.3)	64.2 (67.9)
	N019	Euston Approaches site hoarding – north facing façade of Cartmel House	Façade	55.4 (58.9)	61.3 (72.6)	55.0 (68.4)	56.1 (69.9)	54.0 (71.4)	53.1 (56.2)	55.2 (58.0)	54.5 (55.8)	57.3 (67.0)	53.8 (59.0)	54.5 (63.9)	54.3 (60.1)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
	N026a	Euston Approaches site hoarding – east facing façade of Cartmel House	Façade	57.5 (59.6)	62.9 (73.1)	58.0 (68.1)	58.9 (69.1)	56.8 (71.2)	55.5 (56.9)	57.6 (60.8)	59.0 (63.6)	59.2 (67.1)	56.5 (62.4)	56.9 (65.6)	56.7 (61.7)
TSS	N006	Royal College of General Practitioners roof level	Free-field	54.5 (58.1)	63.9 (68.8)	52.9 (60.1)	53.0 (63.5)	50.5 (58.1)	52.4 (54.3)	58.6 (63.0)	57.3 (61.0)	55.8 (65.4)	50.8 (56.6)	54.0 (63.2)	50.7 (54.3)
	N008	Stephenson's Way lamppost (outside RCGP)	Façade	64.2 (71.4)	64.4 (67.0)	58.8 (65.9)	58.1 (71.6)	57.0 (73.4)	55.6 (55.9)	58.2 (60.6)	56.8 (57.9)	57.7 (69.9)	55.1 (64.7)	57.4 (64.1)	54.8 (57.8)
	N010	Wesley Hotel	Façade	71.2 (71.5)	71.5 (71.9)	71.2 (71.4)	68.6 (71.6)	61.8 (71.3)	71.2 (71.3)	71.3 (71.4)	71.2 (71.5)	59.2 (71.2)	57.5 (71.3)	68.2 (71.5)	56.2 (71.2)
	N011	Outside 82 Euston Street	Free-field	57.5 (64.3)	58.4 (62.0)	54.1 (58.3)	53.5 (62.0)	51.5 (64.6)	51.4 (52.5)	55.1 (56.6)	53.3 (53.8)	52.9 (57.5)	49.4 (51.9)	53.7 (61.2)	51.6 (62.8)
	N007	Royal College of General Practitioners, Melton Street	Free-field	64.0 (70.9)	70.6 (76.6)	62.8 (64.5)	62.6 (66.8)	61.4 (66.4)	62.9 (64.4)	63.9 (65.7)	63.2 (64.2)	63.3 (66.5)	61.3 (64.4)	63.2 (69.6)	60.8 (64.7)
VHA	N025	Lamppost #3 on Prince Albert Road	Free-field	66.8 (69.6)	67.8 (71.3)	66.5 (76.7)	66.5 (71.0)	64.5 (69.4)	65.9 (69.2)	66.4 (67.7)	65.5 (67.1)	66.7 (70.8)	65.3 (69.8)	65.5 (68.7)	64.5 (73.4)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
NTH-EN, TSS	N012	Opposite 92-94 Drummond Street	Free-field	55.7 (57.1)	63.8 (69.7)	57.6 (64.0)	56.8 (58.9)	54.4 (60.8)	54.4 (55.3)	65.3 (75.7)	70.1 (76.5)	59.4 (70.6)	54.9 (57.6)	59.8 (74.6)	54.8 (56.5)
NTH-EN, MF	N014	Starcross Street lamppost (external to Exmouth Arms)	Free-field	53.8 (62.3)	58.2 (64.4)	56.9 (65.6)	56.1 (65.5)	49.1 (63.2)	51.4 (57.4)	52.9 (54.1)	50.0 (51.4)	52.7 (61.1)	47.0 (53.5)	50.8 (55.1)	46.8 (50.0)
	N016	Margaret Centre roof	Free-field	56.1 (65.5)	61.6 (67.5)	55.8 (65.0)	56.7 (69.5)	55.0 (66.5)	53.4 (53.6)	57.1 (64.3)	58.6 (62.9)	56.9 (62.7)	53.8 (63.3)	61.2 (72.2)	56.3 (63.5)
	N017	Hampstead Road, lamppost #48	Free-field	68.2 (69.9)	71.3 (72.8)	68.8 (72.4)	69.5 (75.6)	68.0 (75.6)	66.3 (68.6)	68.8 (71.8)	69.2 (73.9)	69.6 (73.8)	69.0 (74.1)	68.1 (75.6)	68.8 (73.2)

*Note: No data measured during this period due to loss of power to the lighting column which powers the monitoring station.

2.1.2 Table 4 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
MSB & ECAV, PVE	PVS-V001	Park Village Studios	0.68 (Z-axis)
ESB & GTB, PVE	SH-V001	Basement of Silsoe House	1.35 (Z-axis)
ETRC & HRB	V039	Euston Approaches site – east of Coniston, Regent's Park Estate	0.49 (Y-axis)
	V043	Euston Approaches site – Cartmel House, Regents Park Estate	0.45 (Z-axis)
TSS	V003	RCGP basement vaults, 305 Euston Road	0.74 (Z-axis)
	V002	RCGP basement boiler room, 305 Euston Road	1.45 (X-axis)
	V037	Magic Circle, basement	0.48 (Z-axis)
	V038	Wesley Hotel boiler room, Regnart Buildings side, Euston St	1.56 (Z-axis)
NTH-EN, MF	V021	42-44 Cobourg Street (floor)	0.58 (Z-axis)

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

2.2 Exceedances of the SOAEL

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

- 2.2.2 HS2 Phase One Information Paper E23: Control of Construction Noise and Vibration sets out the SOAELs for construction noise.
- 2.2.3 Where reported construction noise levels exceed the SOAEL at nearby receptors, relevant periods will be identified. Summary statistics to evaluate ongoing qualification for noise insulation and temporary rehousing are also presented where relevant.
- 2.2.4 Table 5 presents a summary of recorded exceedances of the SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
ARVS	N051	Outside 70 Adelaide Road	All days	All periods	No exceedance
	N052	Adelaide Road, Beaumont Walk	All days	All periods	No exceedance
MSB & ECAV, PVE	N024	Lamppost outside Park Village Studios, Park Village East	All days	All periods	No exceedance
	N047	Lamppost #3 on corner of Park Village East and Mornington Street Bridge	All days	All periods	No exceedance
	PVS-N001	Park Village Studios	All days	All periods	No exceedance
	N022	Lamppost #34 on Mornington Terrace	All days	All periods	No exceedance
	N046	Lamppost on Mornington Terrace	All days	All periods	Not applicable*

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
ESB & GTB, PVE	N001	Park Village East Lamppost #1 Outside Cubitt Court	All days	All periods	No exceedance
	N001b	Park Village East Adjacent to Cubitt Court	All days	All periods	No exceedance
	N002	Park Village East Lamppost #2	All days	All periods	No exceedance
	N003	Park Village East Lamppost #15 Outside Silsoe House	All days	All periods	No exceedance
	N004 **	Mornington Terrace Lamppost #7	All days	All periods	No exceedance
	N005	Euston Approaches – Xavier House site office external staircase	All days	All periods	No exceedance
ETRC & HRB	N023 **	Lamppost #21 on Hampstead Road	All days	All periods	No exceedance
	N023B **	Euston Throat Retained Cut site hoarding south of Hampstead Road Bridge	All days	All periods	No exceedance
	N020	Lamppost on corner of Mackworth Street and Harrington Street	All days	All periods	No exceedance
	N021	Stanhope Street, lamppost #2	All days	All periods	No exceedance
	N044	Regents Park Estate west, near Langdale	All days	All periods	Not applicable*
	N045 **	Euston Approaches site hoarding – east of Coniston, Regent's Park Estate	All days	All periods	No exceedance
HRB & ETRC, NTH-EN	N018	Outside replacement housing, Hampstead Road	All days	All periods	No exceedance
	N019	Euston Approaches site hoarding – north facing façade of Cartmel House	All days	All periods	No exceedance
	N026a	Euston Approaches site hoarding – east facing façade of Cartmel House	All days	All periods	No exceedance
TSS	N006	RCGP Roof level	All days	All periods	Not applicable*
	N008	Stephenson's Way lamppost (external to RCGP)	All days	All periods	Not applicable*

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
	N010	Wesley Hotel	All days	All periods	Not applicable*
	N011	Outside 82 Euston Street	All days	All periods	No exceedance
	N007	RCGP, Melton Street	All days	All periods	No exceedance
VHA	N025 **	Lamppost #3 on Prince Albert Road	All days	All periods	No exceedance
NTH-EN, TSS	N012	Opposite 92-94 Drummond Street	Saturday Saturday Saturday Sunday	0800-1300 1300-1400 1400-2200 0700-2200	1 1 1 6
NTH-EN, MF	N014	Starcross Street lamppost (external to Exmouth Arms)	All days	All periods	No exceedance
	N016	Margarete Centre roof	All days	All periods	No exceedance
	N017	Hampstead Road, lamppost #48	All days	All periods	No exceedance

* The defined SOAEL criteria are not applicable to non-residential properties.

**A distance correction has been applied when calculating exceedances of the LOAEL and SOAEL

2.2.5 There were exceedances of the SOAEL due to HS2 construction works at one (1) monitoring location during Saturday daytime and evening, and Sunday periods.

2.2.6 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
NTH-EN, TSS	N012	Opposite 92-94 Drummond Street	2

2.2.7 There were two (2) 24-hour periods where the SOAEL was exceeded due to HS2 construction works during November 2025.

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
-	Utilities	01/11/2025 0800 - 1500	Utilities - breaking and excavation	Weekend works on Drummond Street recorded 68 dB at monitor N012 exceeding the Section 61 level by over 3 dB likely due to plant being closer than modelled. Measured levels show no breach occurred at the nearest residential receptor.	Noise levels were checked against S61 levels. Incident logged as a "near miss". Utilities team and sustainability team were informed. Review of personnel on noise trigger list to ensure earlier intervention during weekend works.
-	Utilities	02/11/2025 0900 - 1500	Utilities - breaking and excavation	Due to weekend working on Drummond St. Section 61 level is 68 dB. Measured level is less than 3 dB of S61 level and, therefore, within tolerance.	Noise levels were checked against S61 levels. Incident logged as a "near miss". Utilities team and sustainability team were informed. Review of personnel on noise trigger list to ensure earlier intervention during weekend works.

2.4 Complaints

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

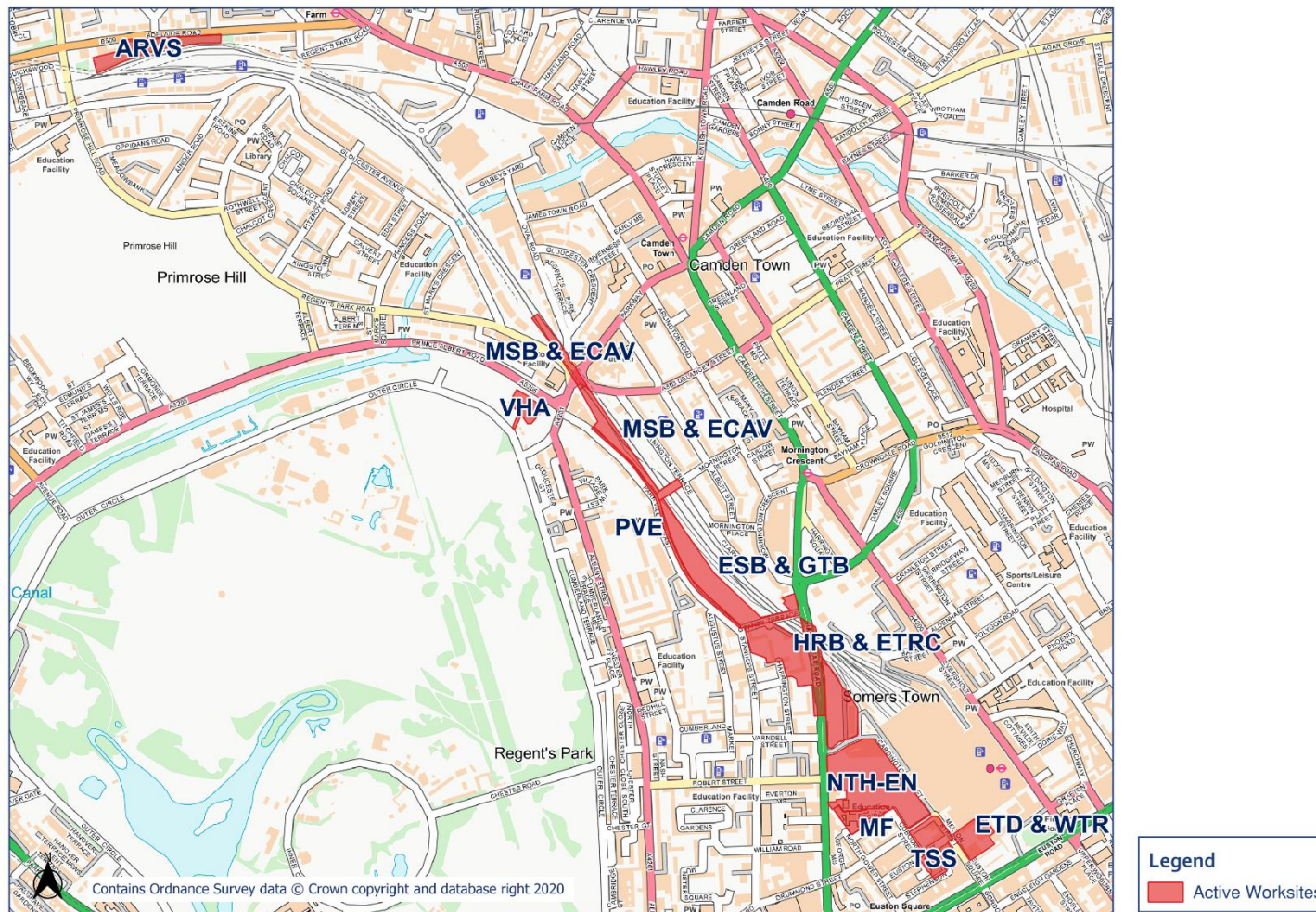
Table 8: Summary of Complaints

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-46841-C	TSS	Noisy works on a Sunday.	Noise due to extended working hours, the extended working hours were necessary due to project delays. These works were carried out with the consent of the local authority, no exceedance of noise levels were recorded.	Information has been provided to the resident.

Appendix A Site Locations

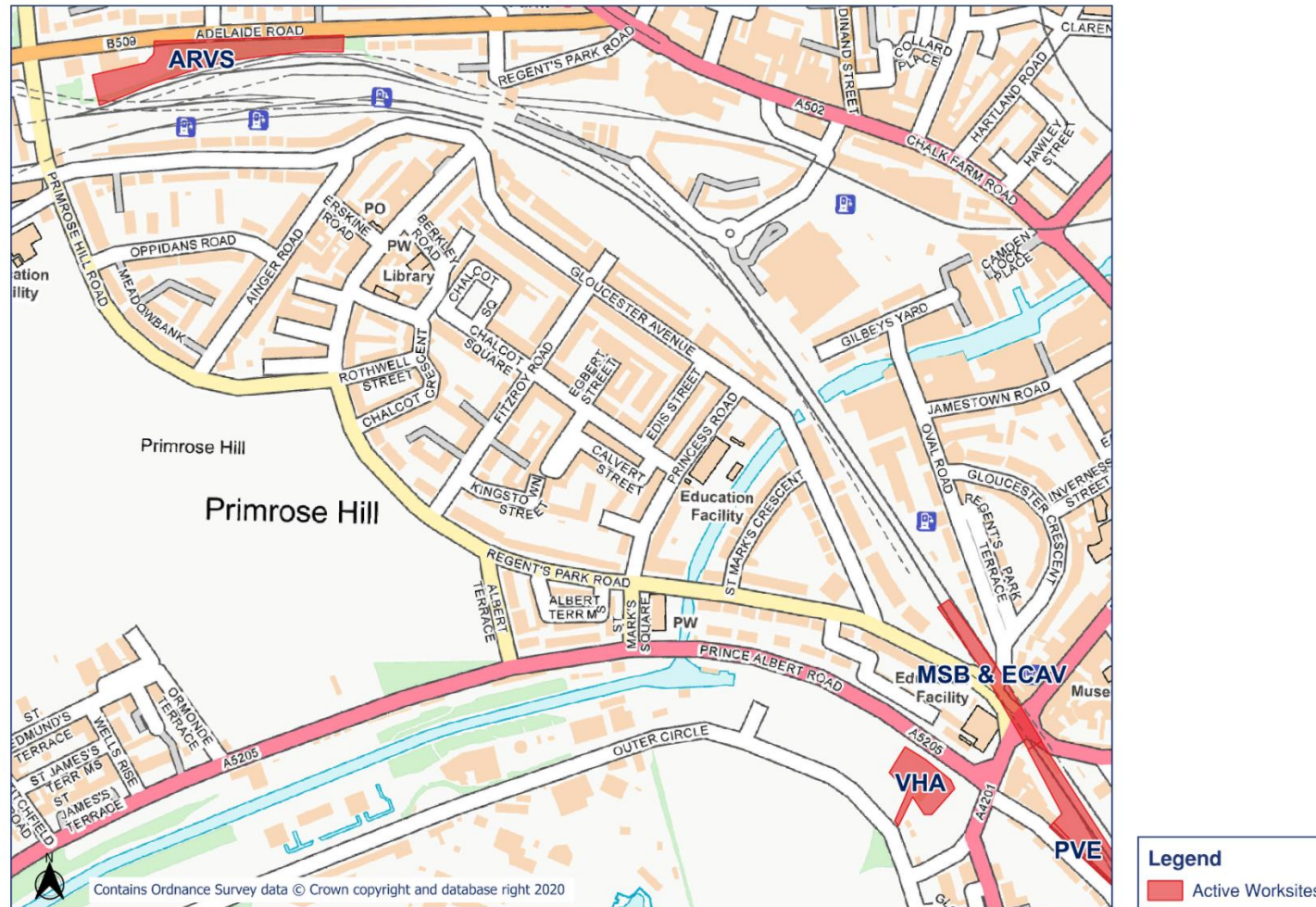
HS2

Worksite Identification Plan - Overview



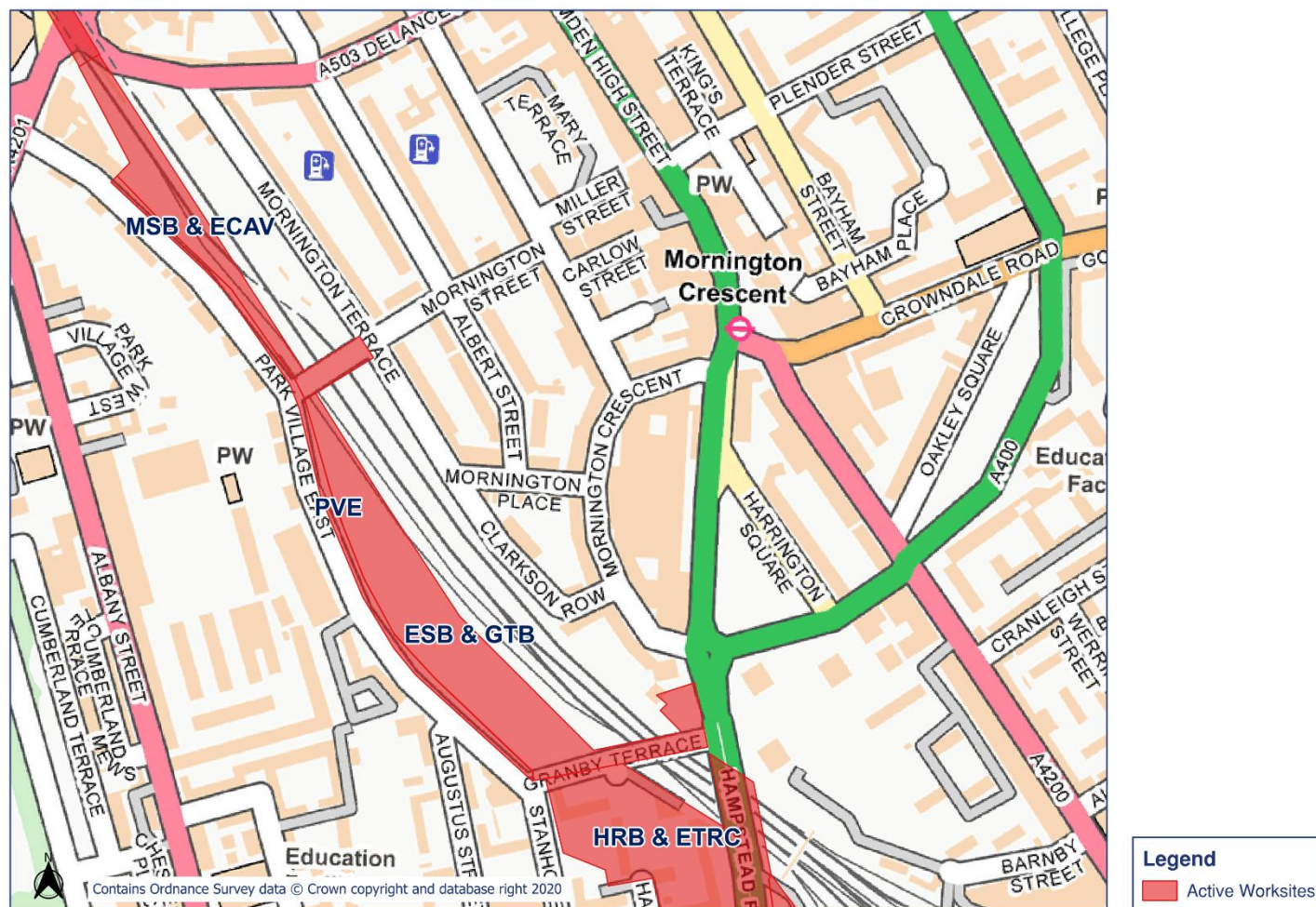
HS2

Worksite Identification Plan - 1



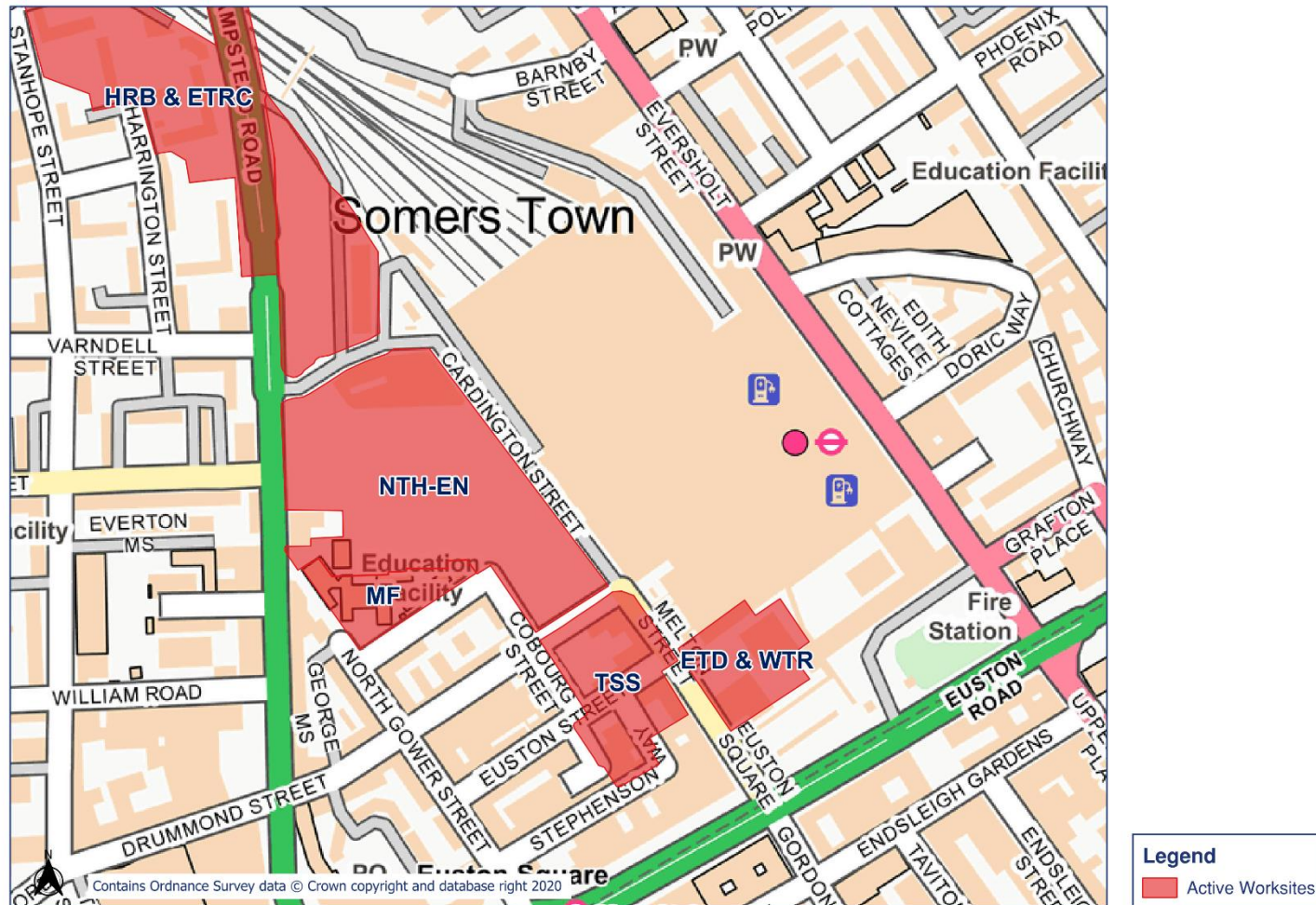
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Worksite Identification Plan - 2



HS2

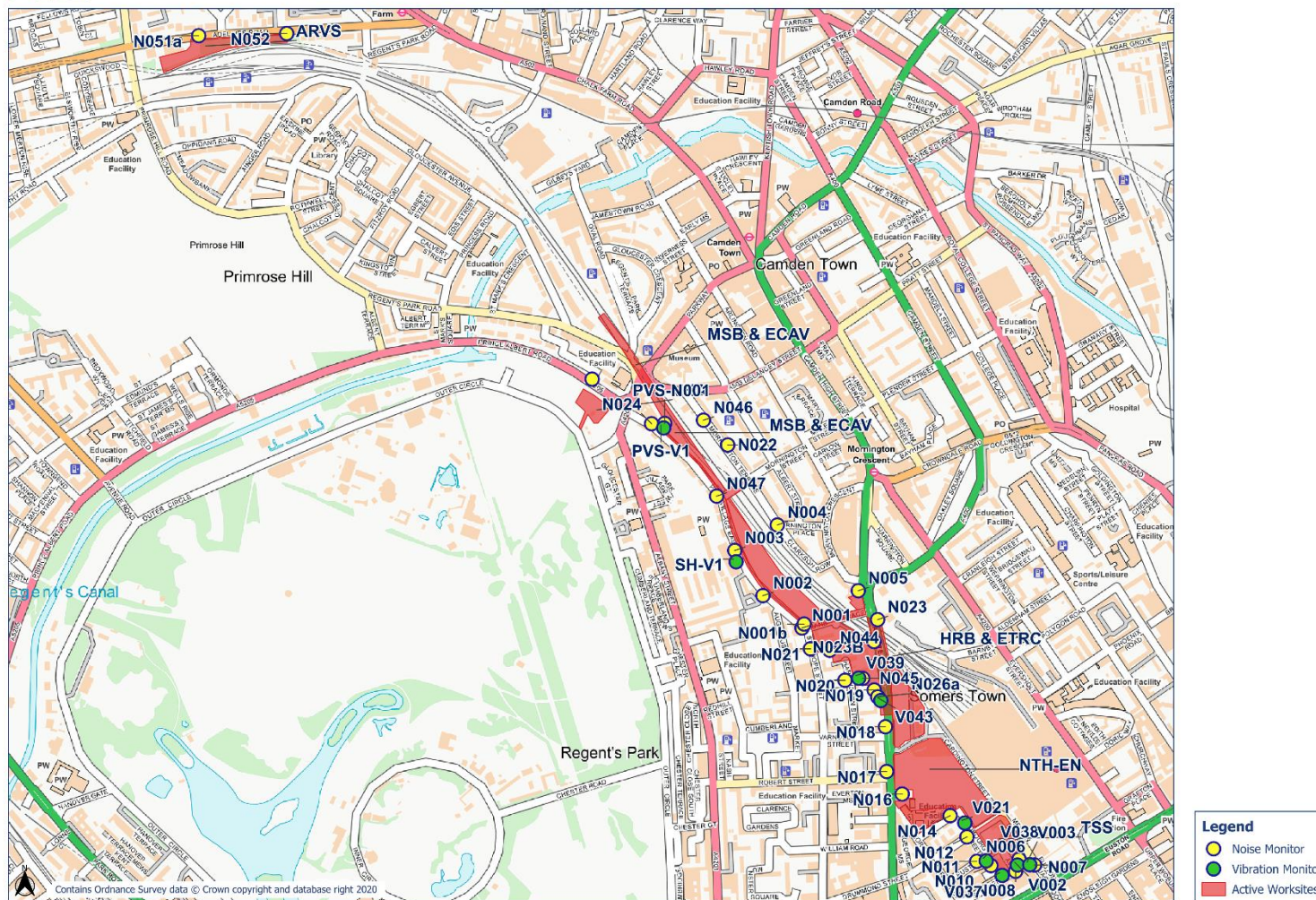
Worksite Identification Plan - 3



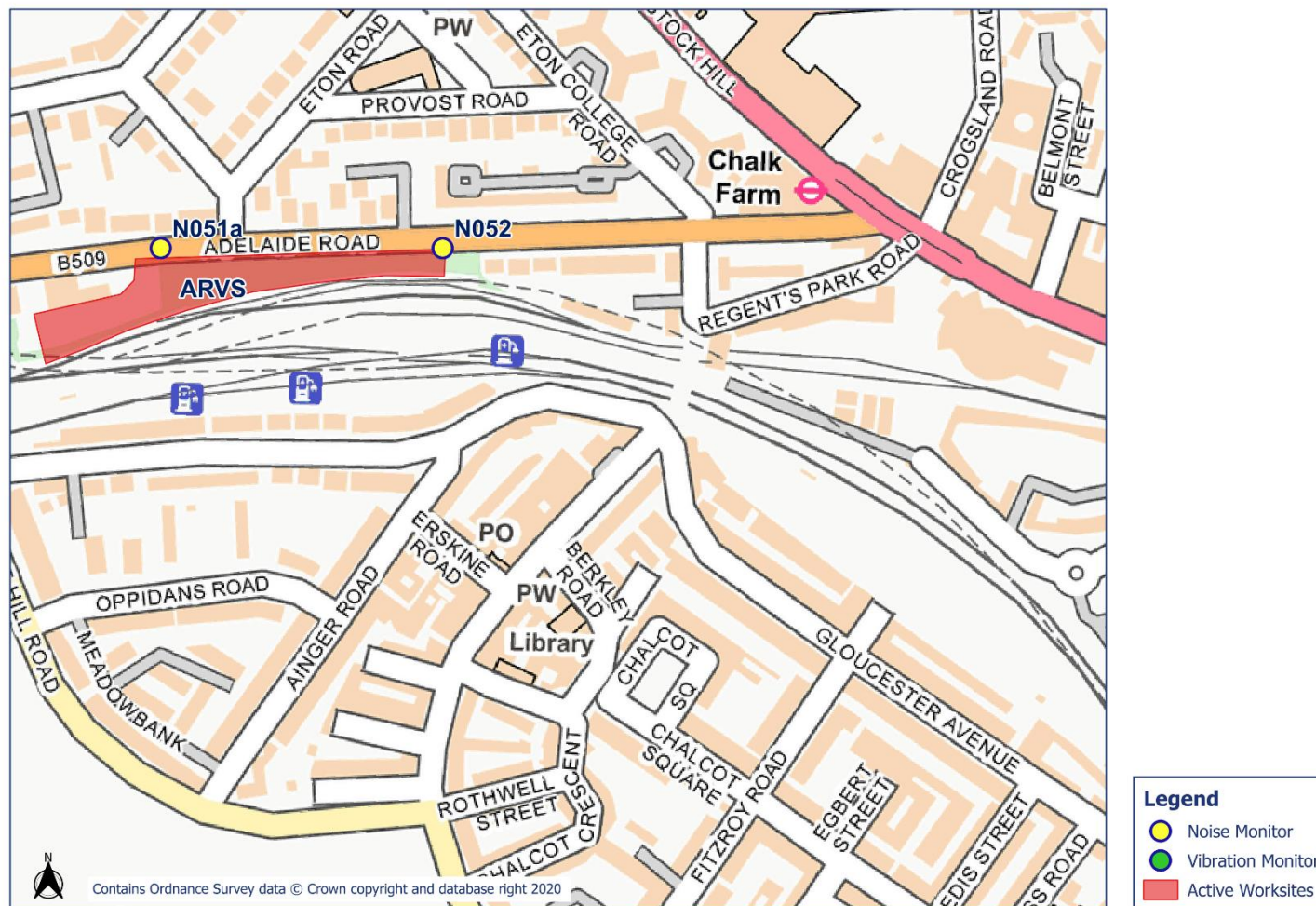
Appendix B Monitoring Locations

HS2

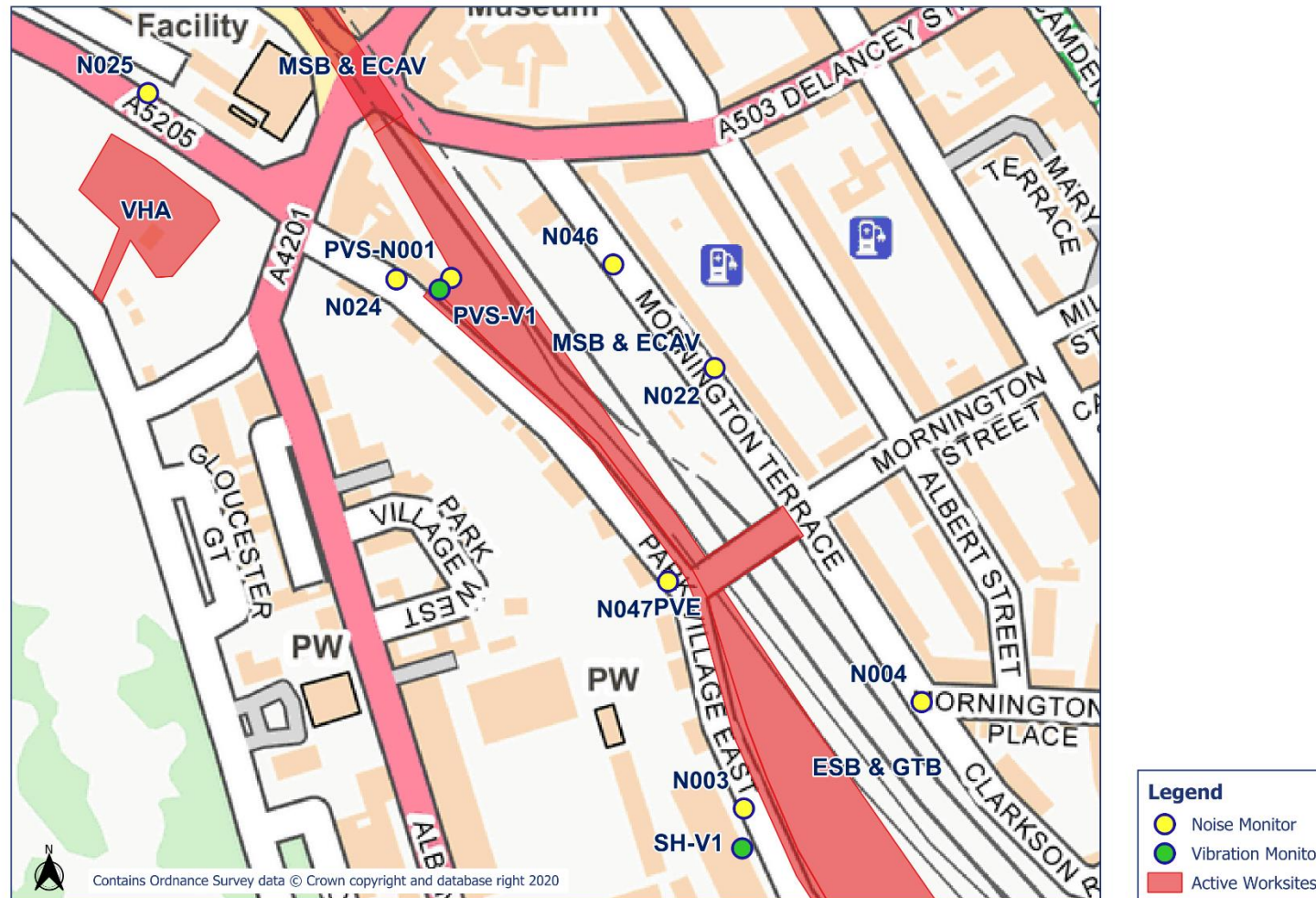
Noise and Vibration Monitoring Plan - Overview

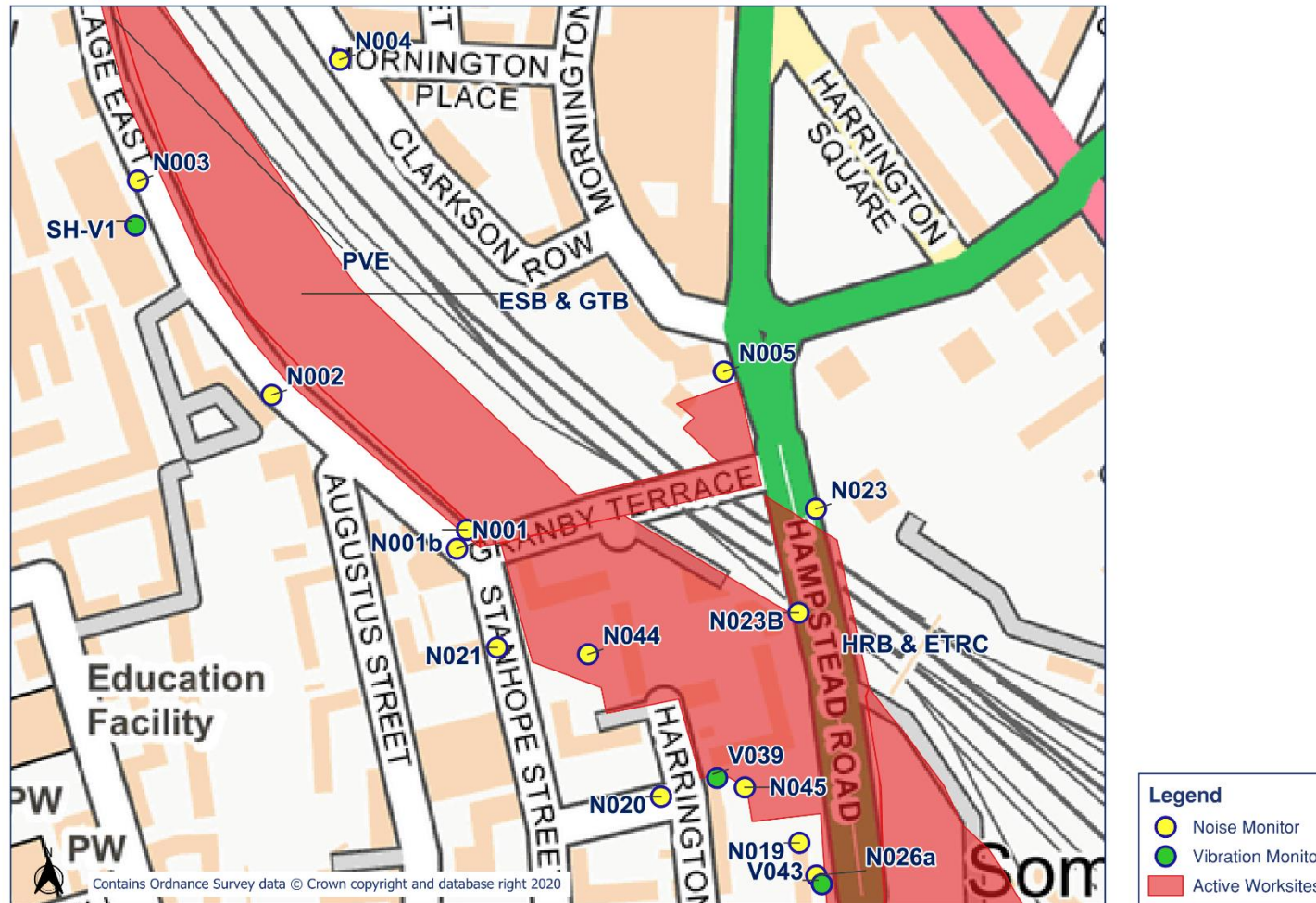


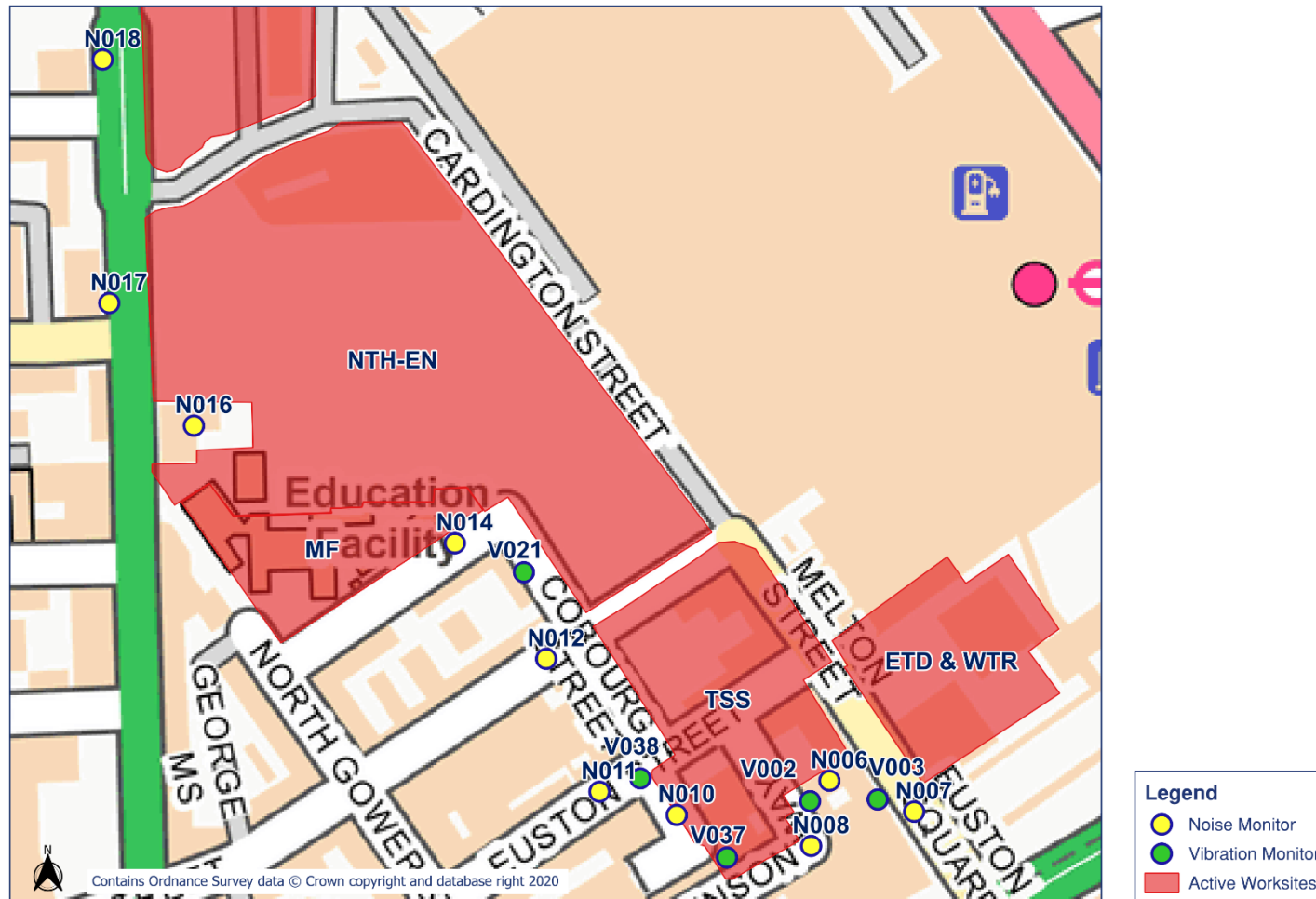
HS2 Noise and Vibration Monitoring Plan - 1



HS2 Noise and Vibration Monitoring Plan - 2





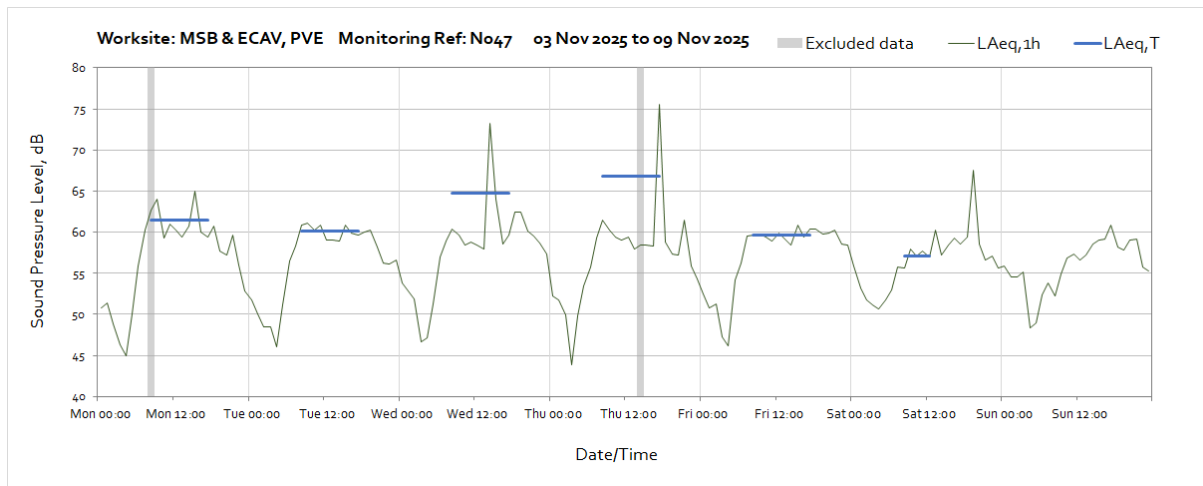
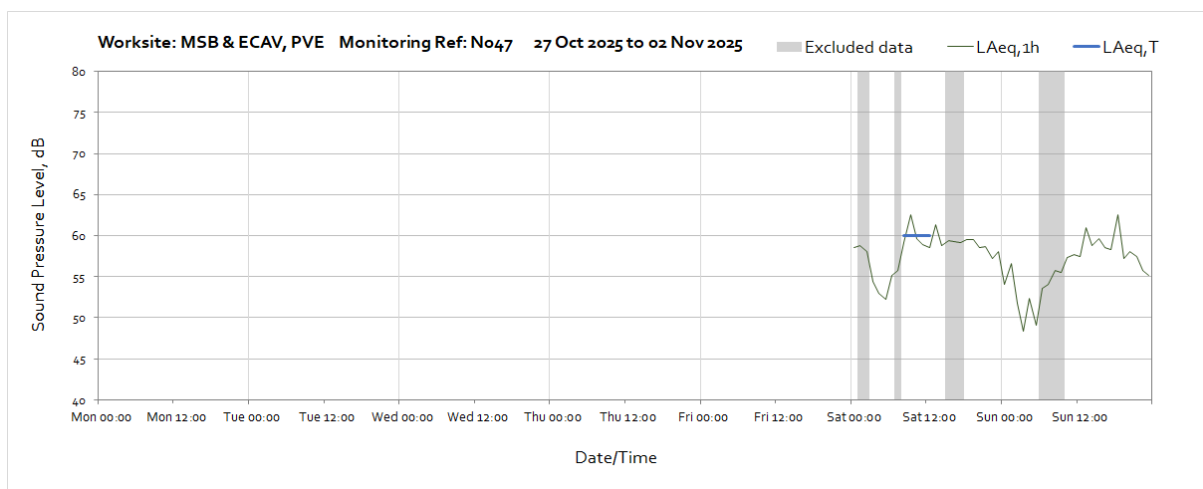


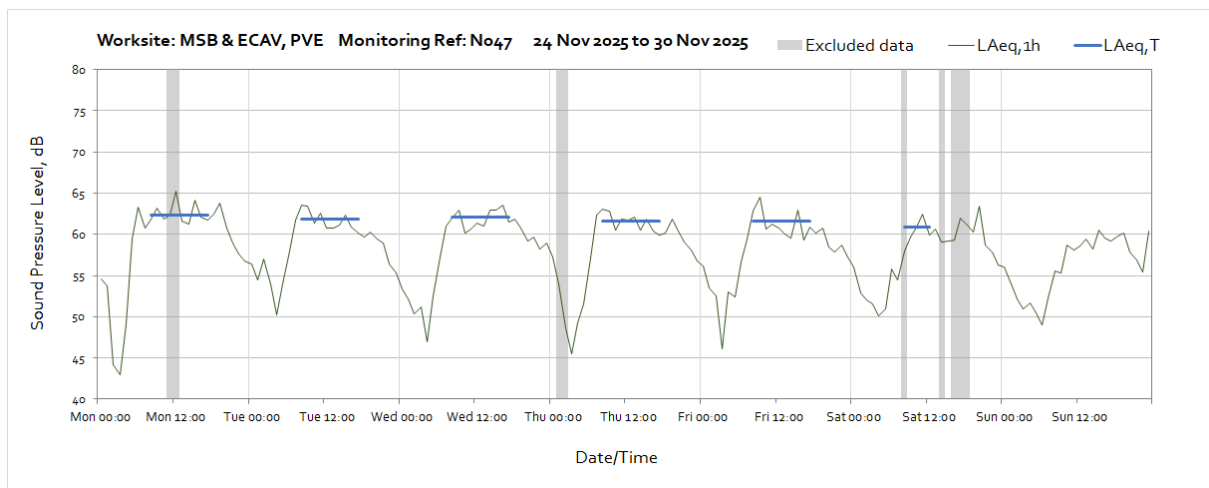
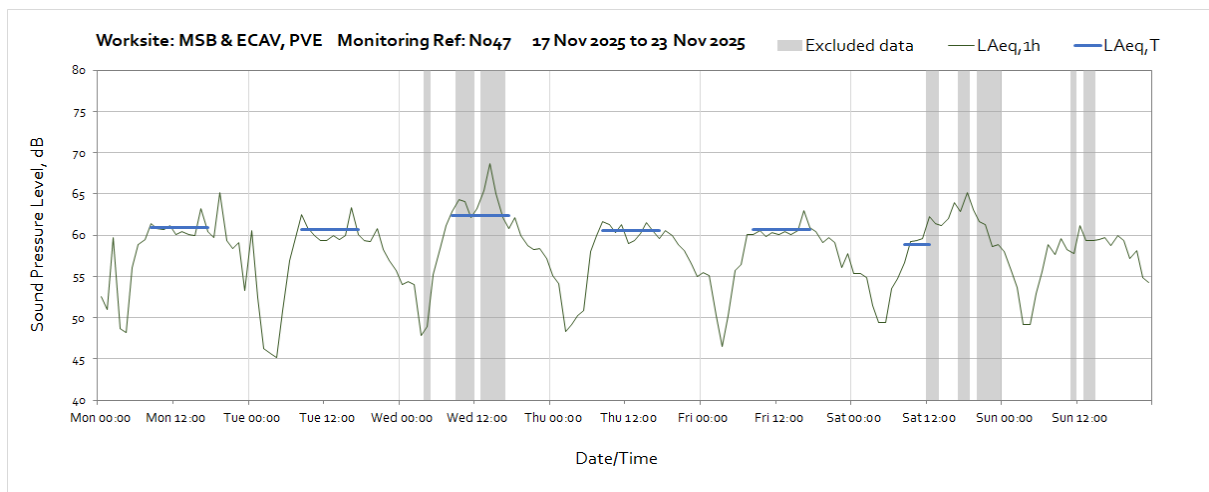
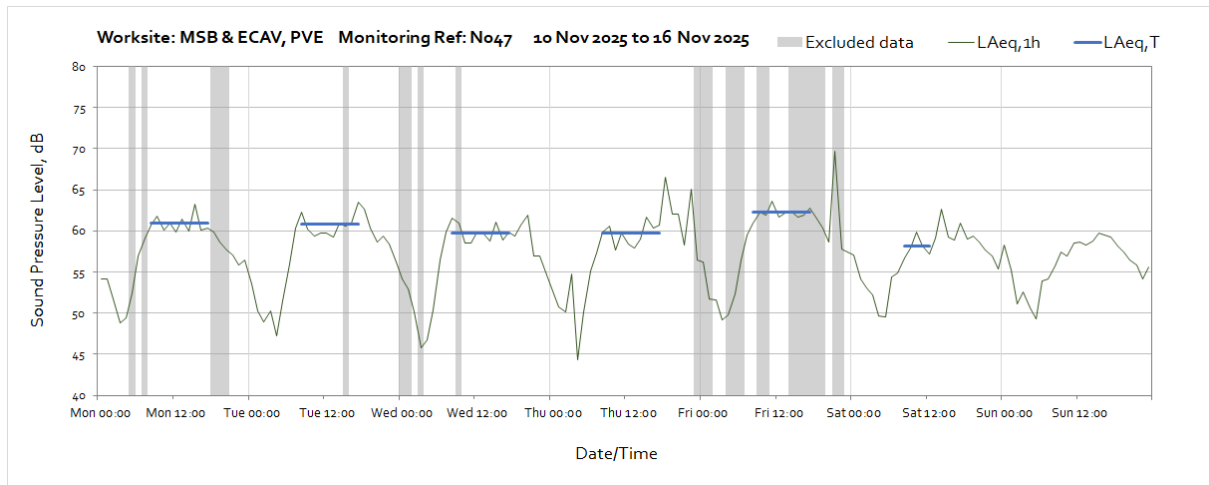
Appendix C Data

Noise

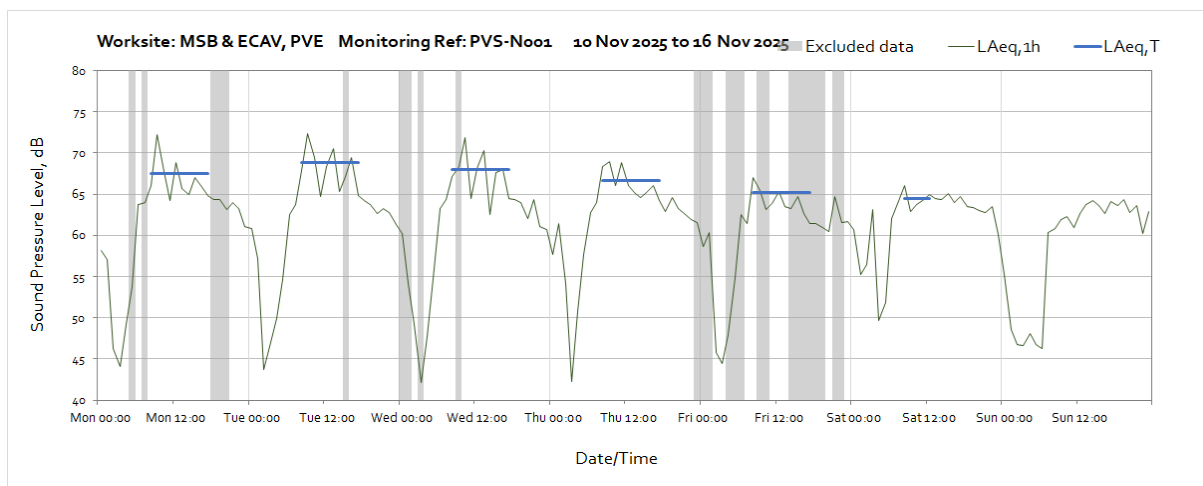
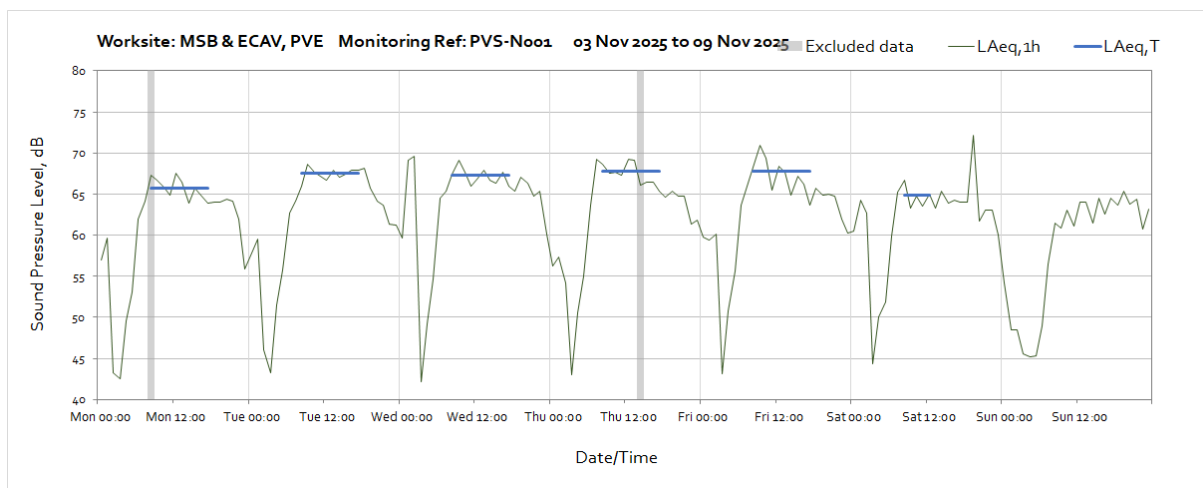
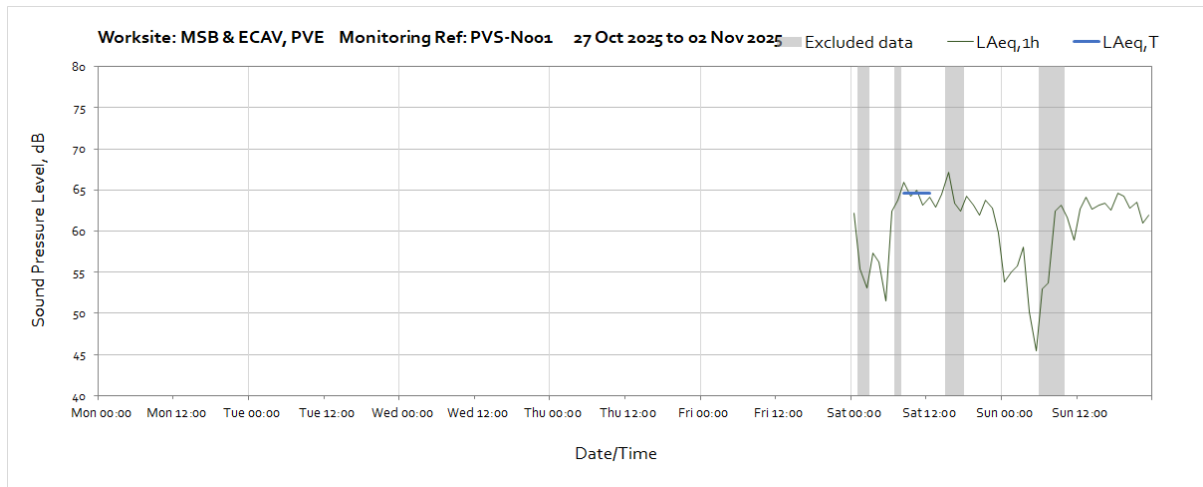
The following graphs show the hourly measured ambient noise level $L_{Aeq,1h}$ and, where relevant, the averaged noise level $L_{Aeq,T}$ values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured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

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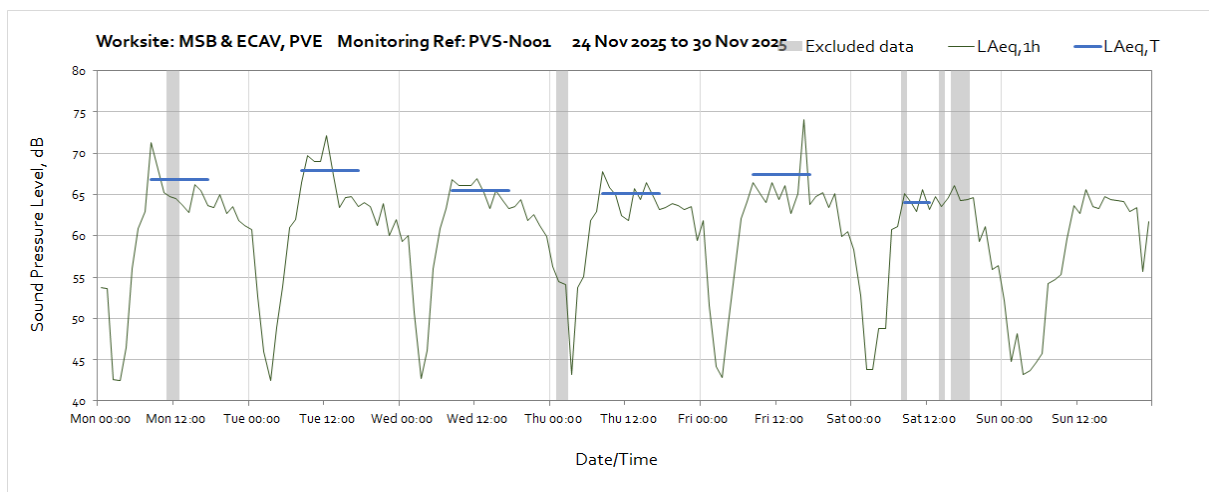
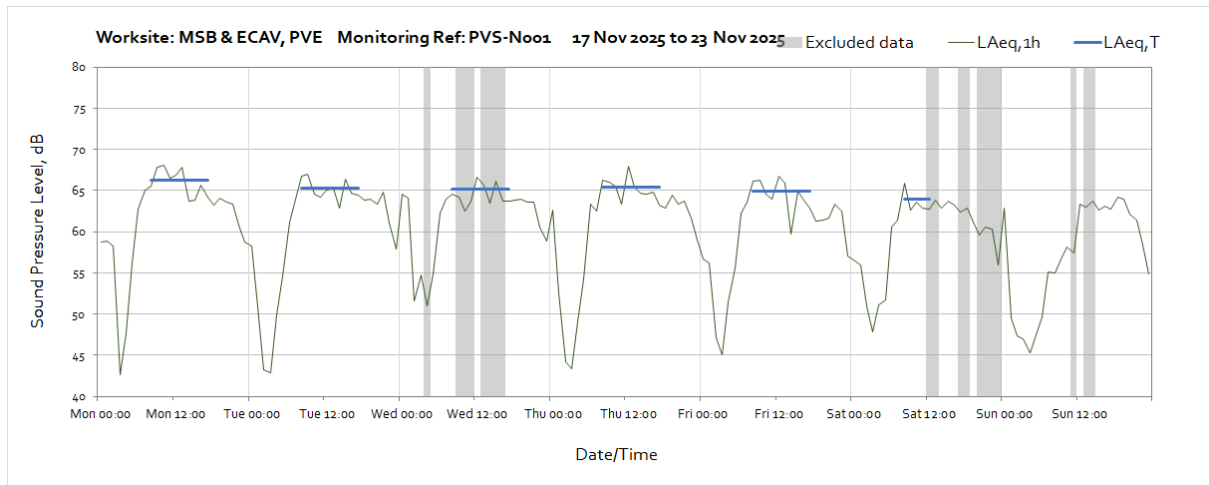




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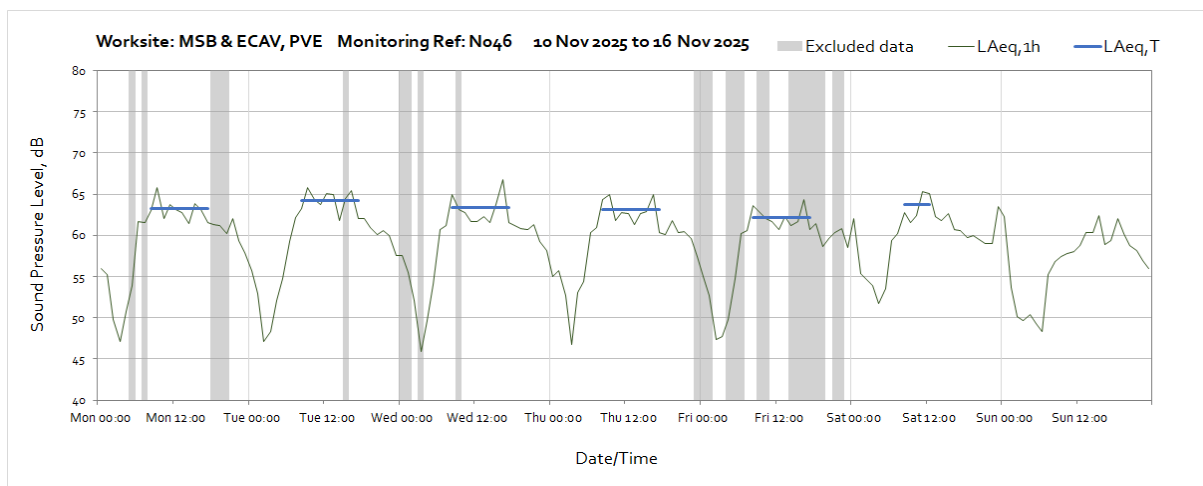
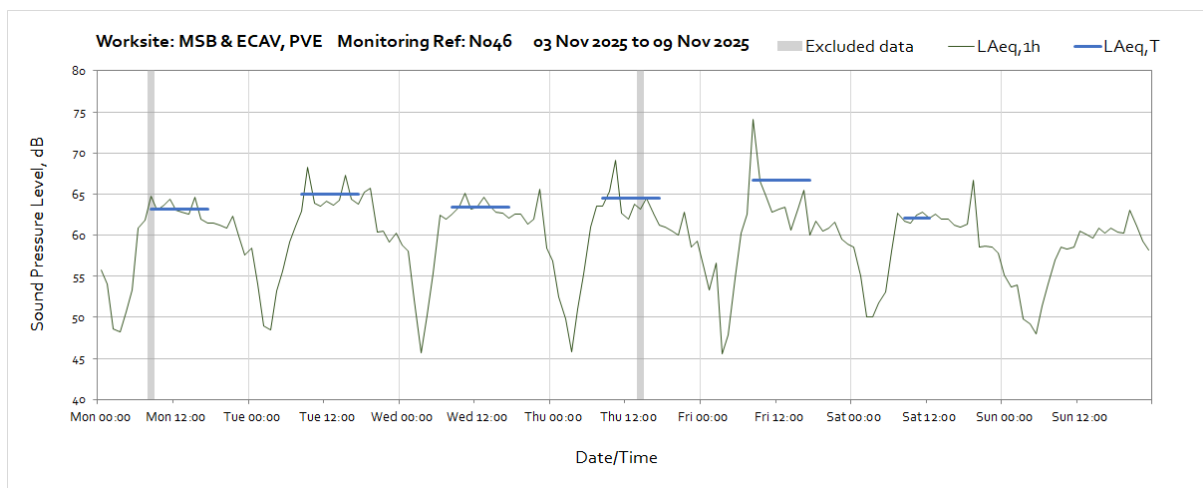
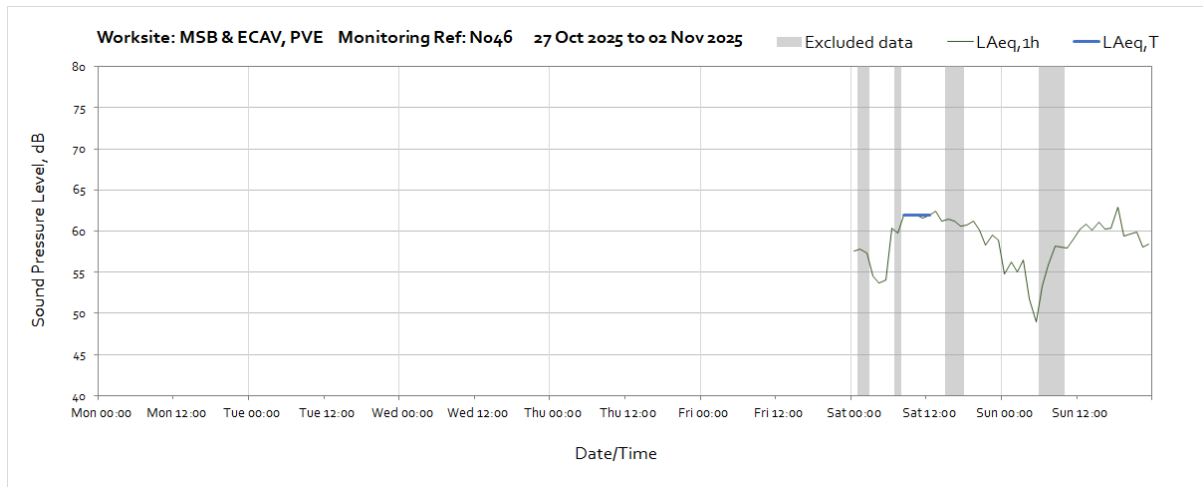
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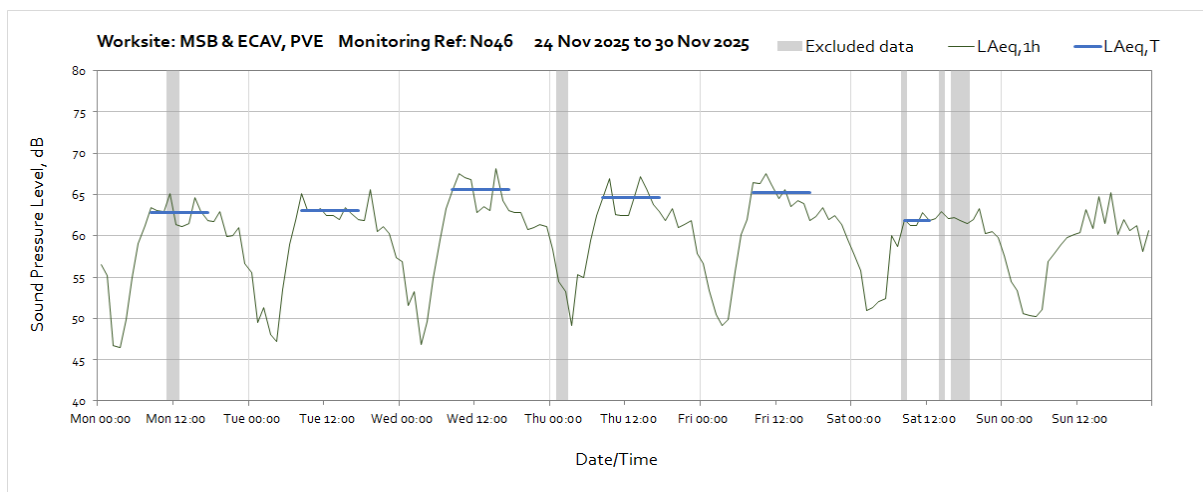
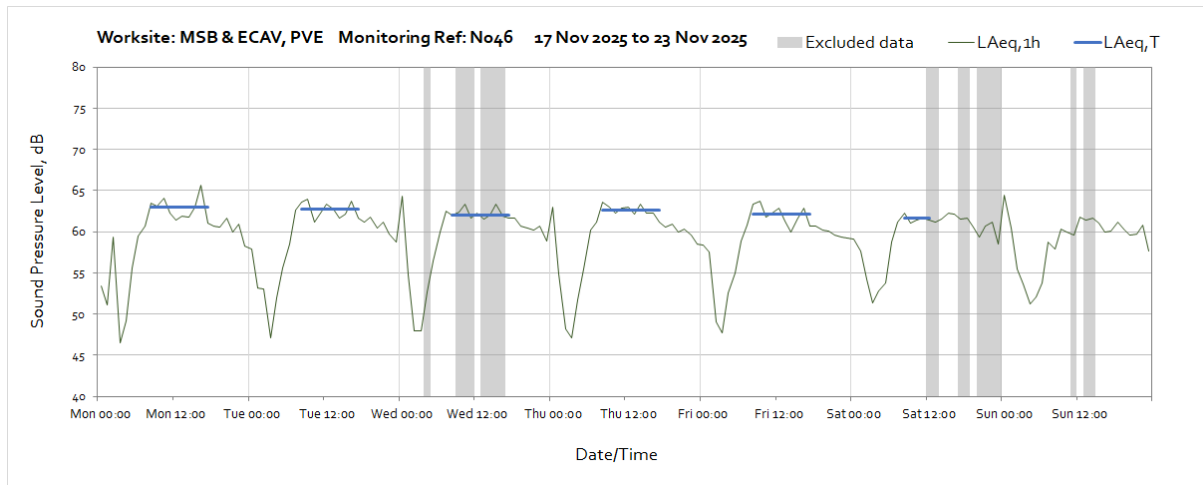
Worksite: MSB & ECAV, PVE – Monitoring Ref: N022

Note: No data measured throughout the month due to loss of power to the lighting column which supplies power to the monitoring station.

Worksite: MSB & ECAV, PVE – Monitoring Ref: N046



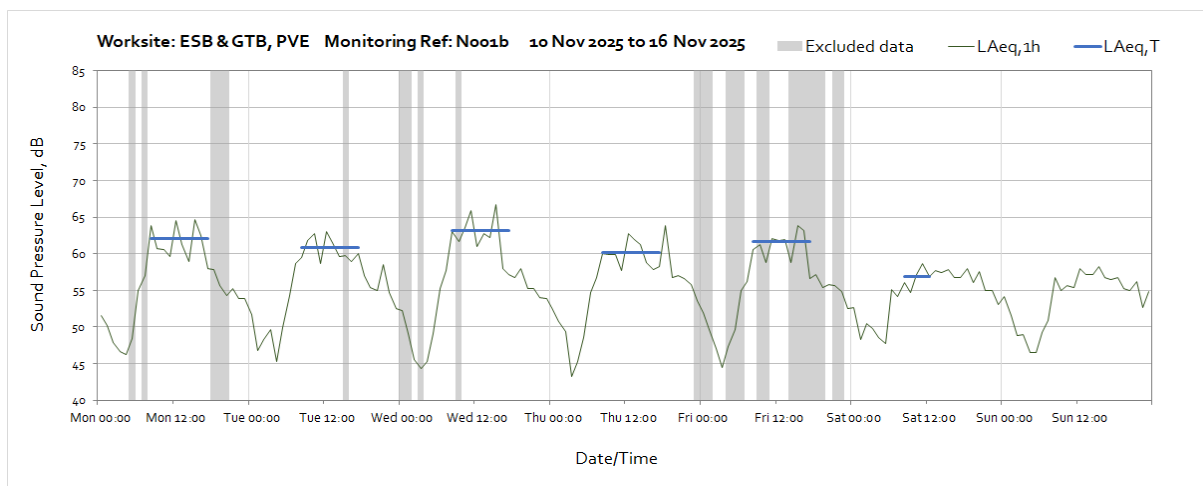
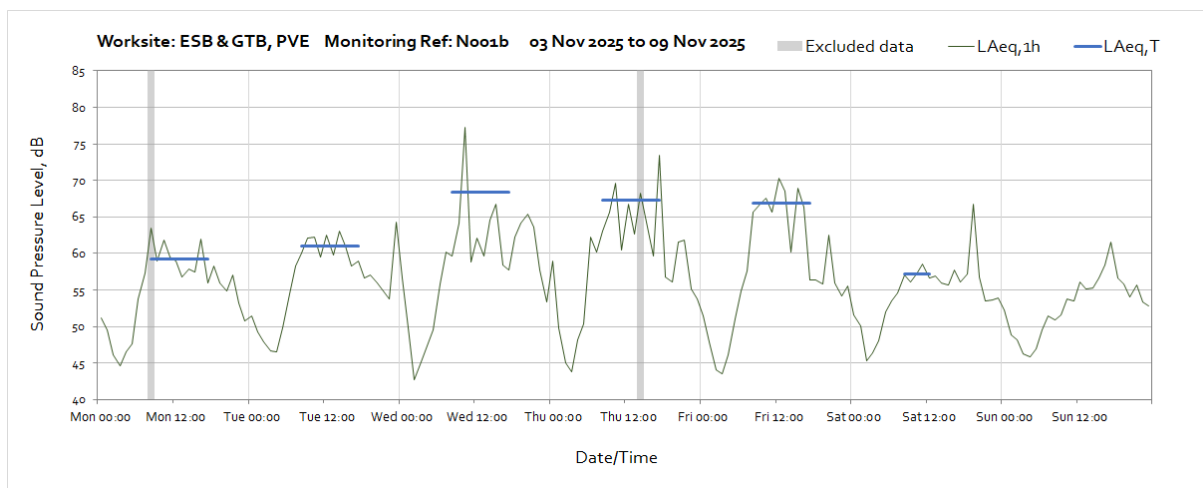
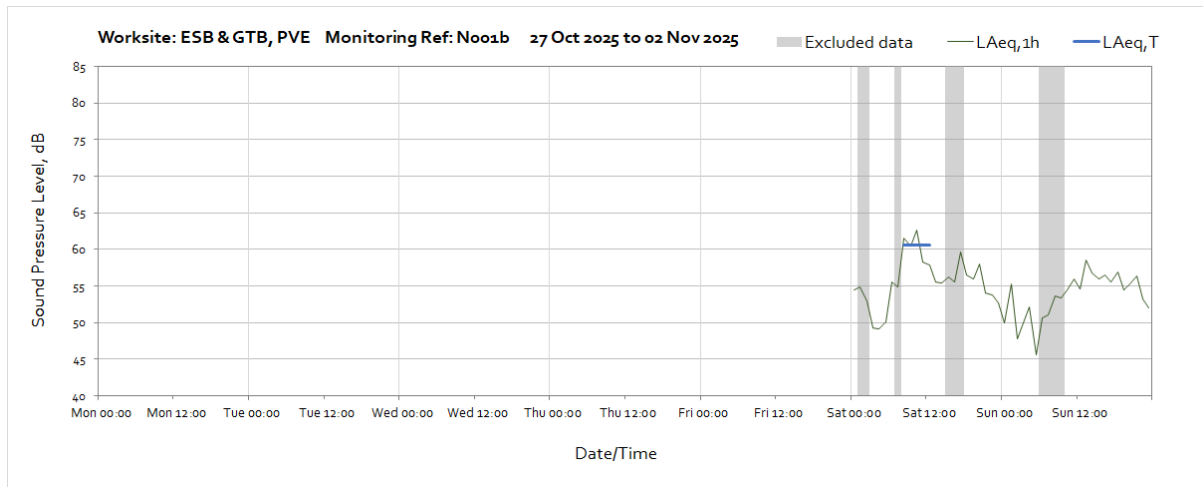
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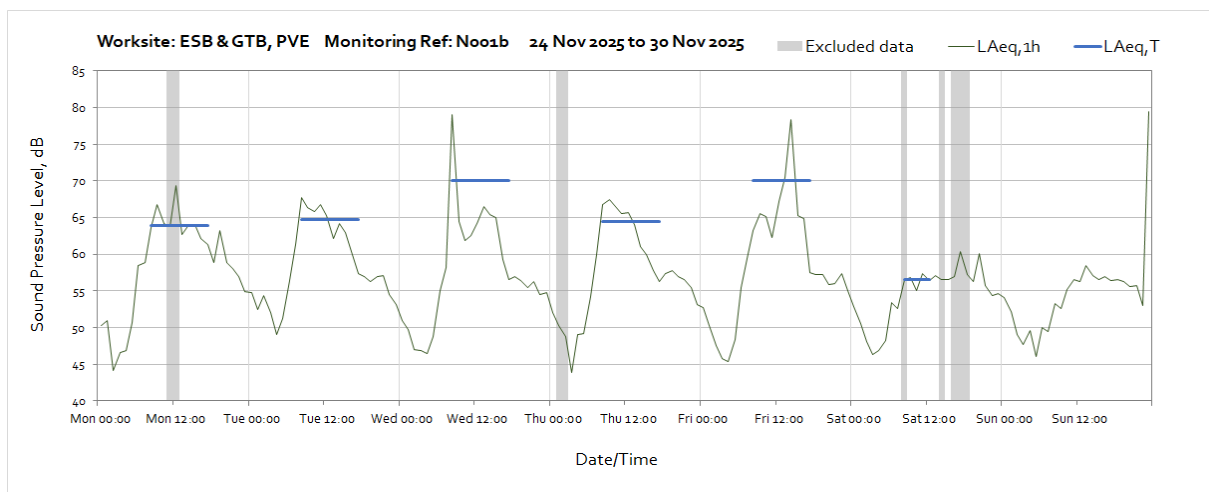
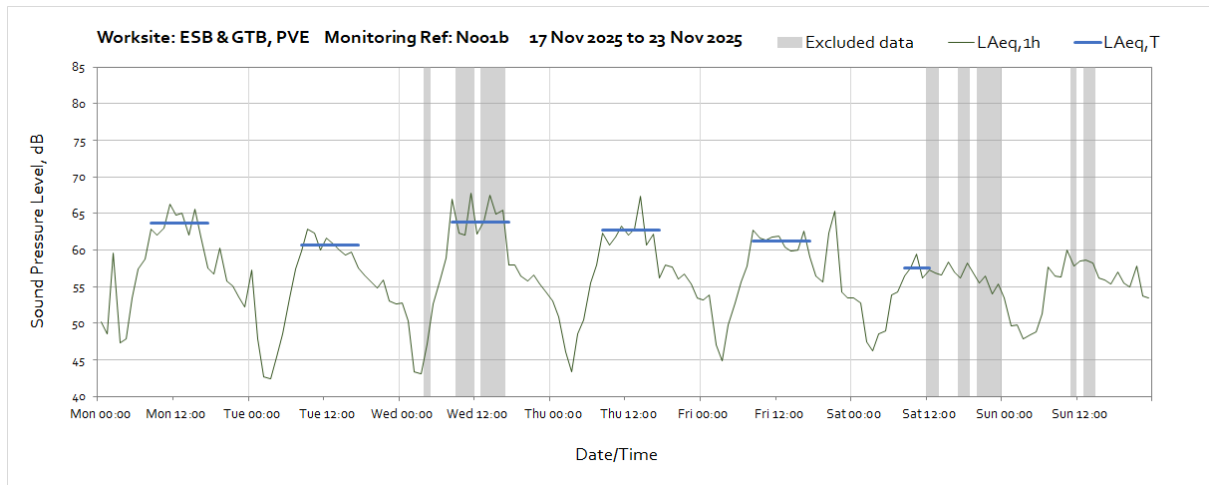
Worksite: ESB & GTB, PVE – Monitoring Ref: N001

Note: No data measured throughout the month due to loss of power to the lighting column which supplies power to the monitoring station.

Worksite: ESB & GTB, PVE – Monitoring Ref: N001b



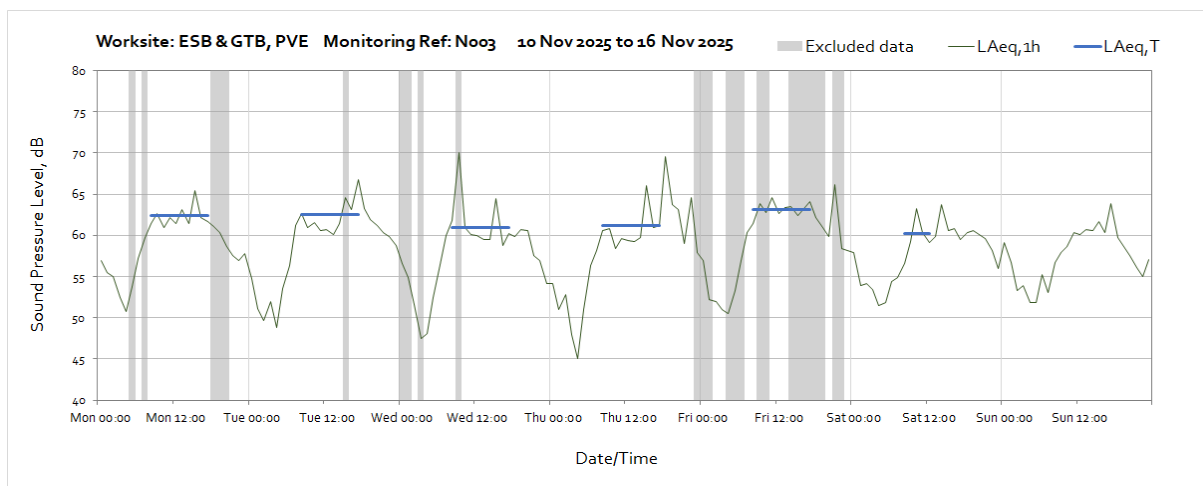
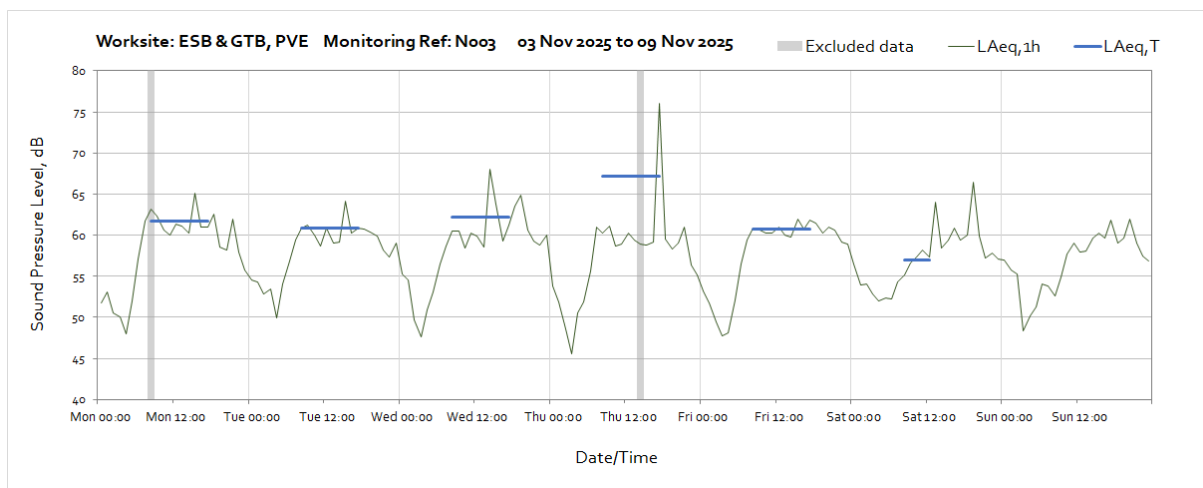
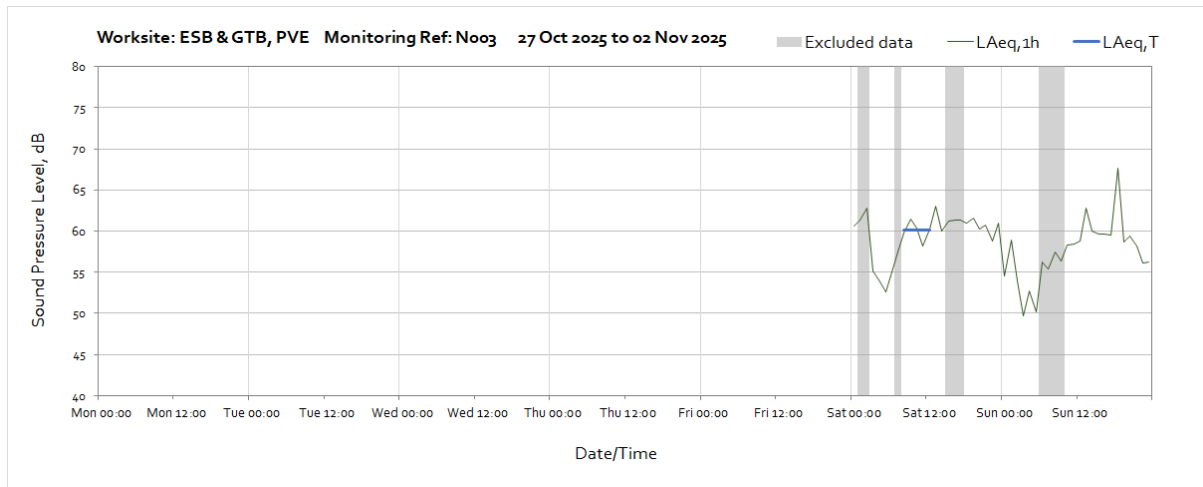
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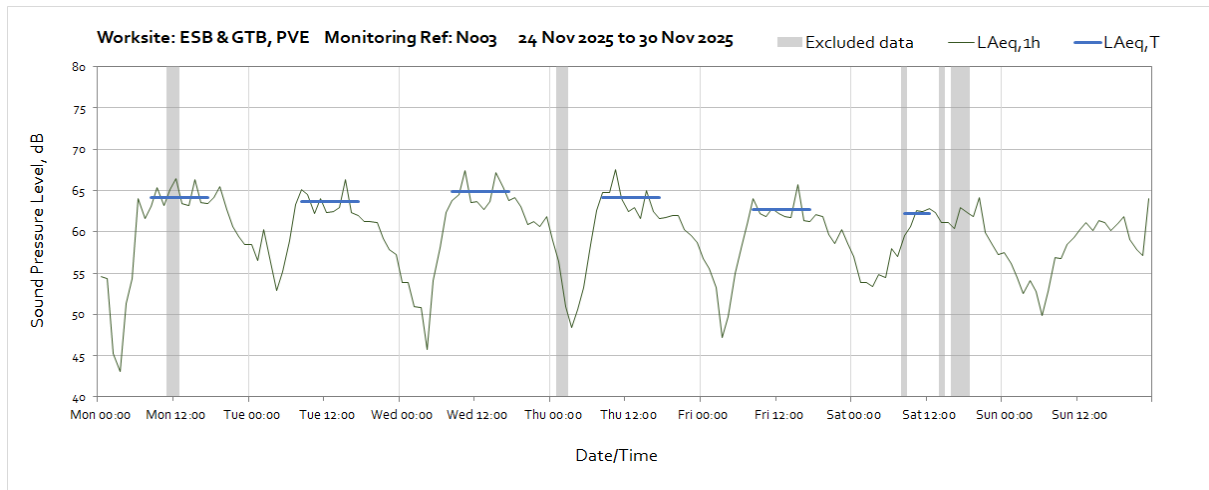
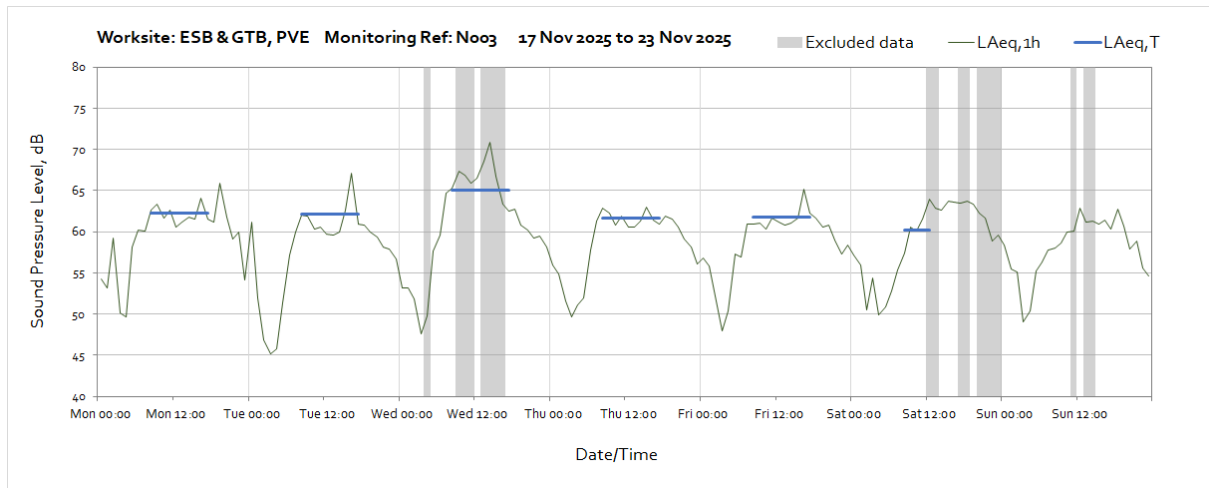
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Note: No data measured throughout the month due to loss of power to the lighting column which supplies power to the monitoring station.

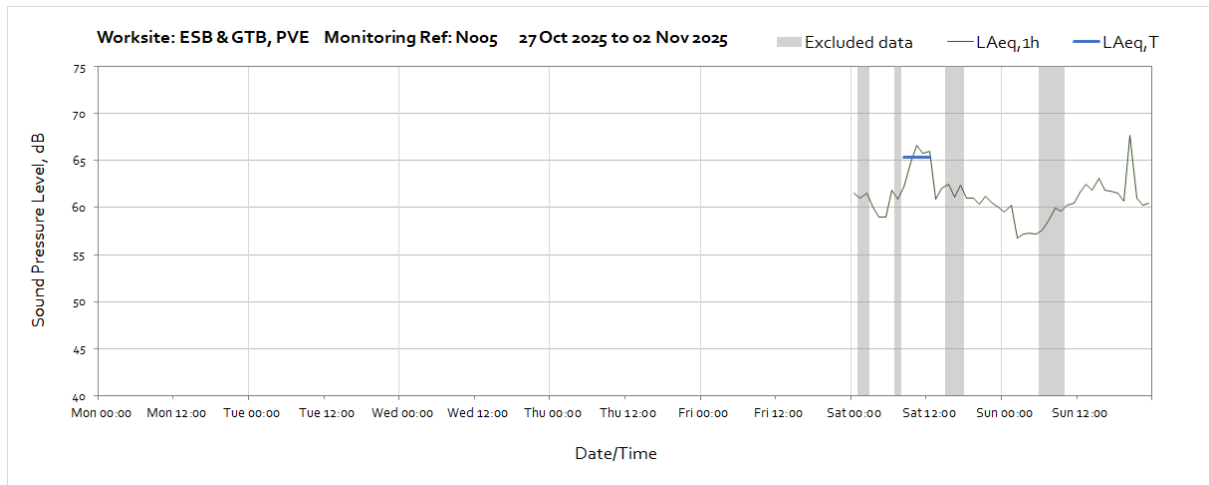
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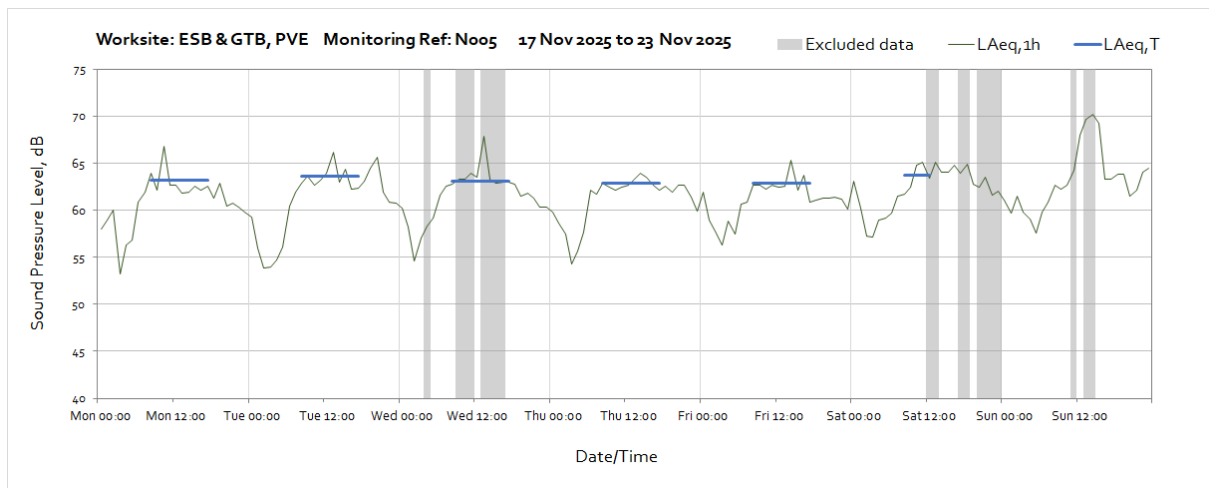
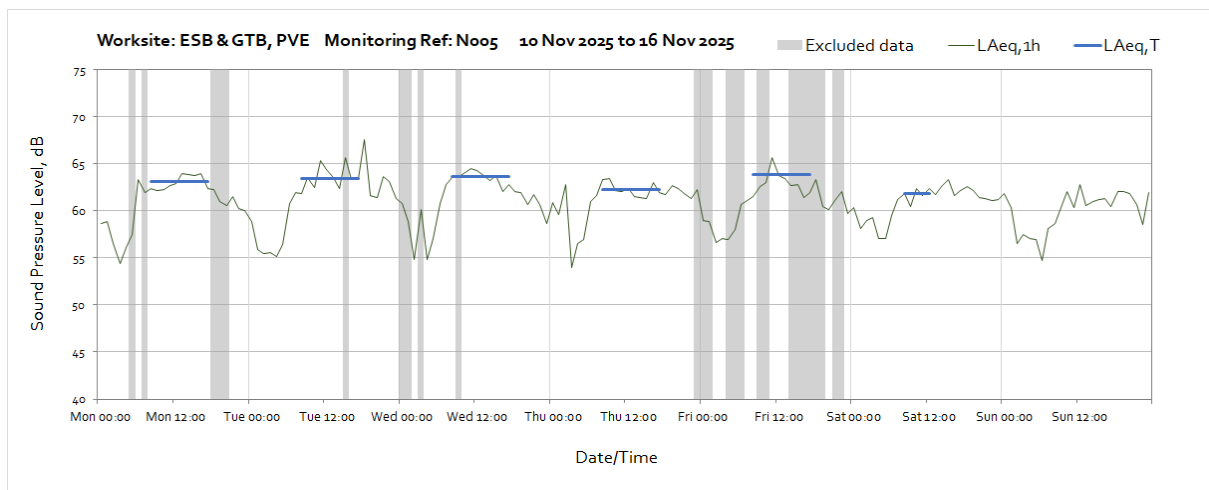
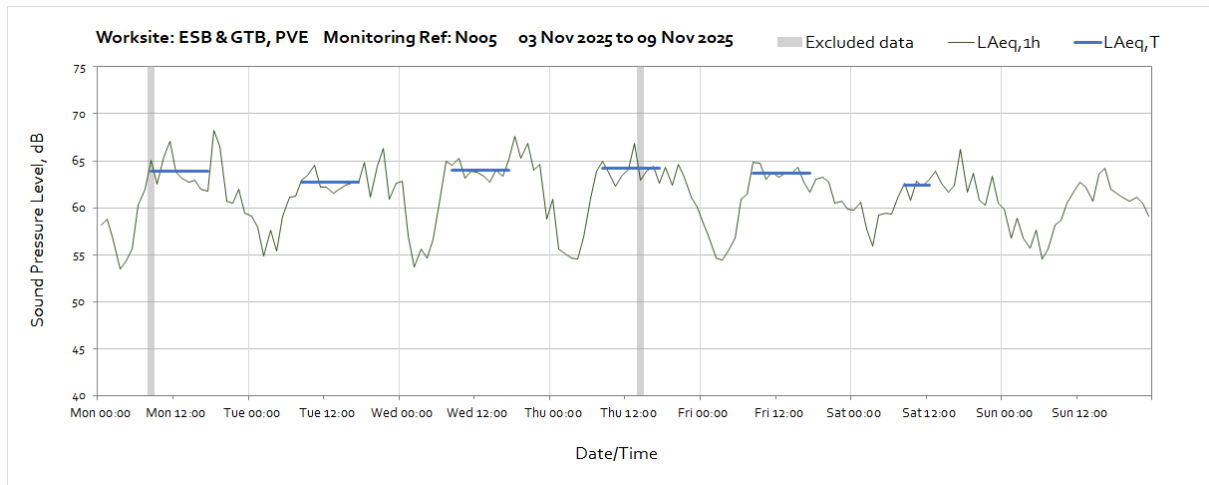


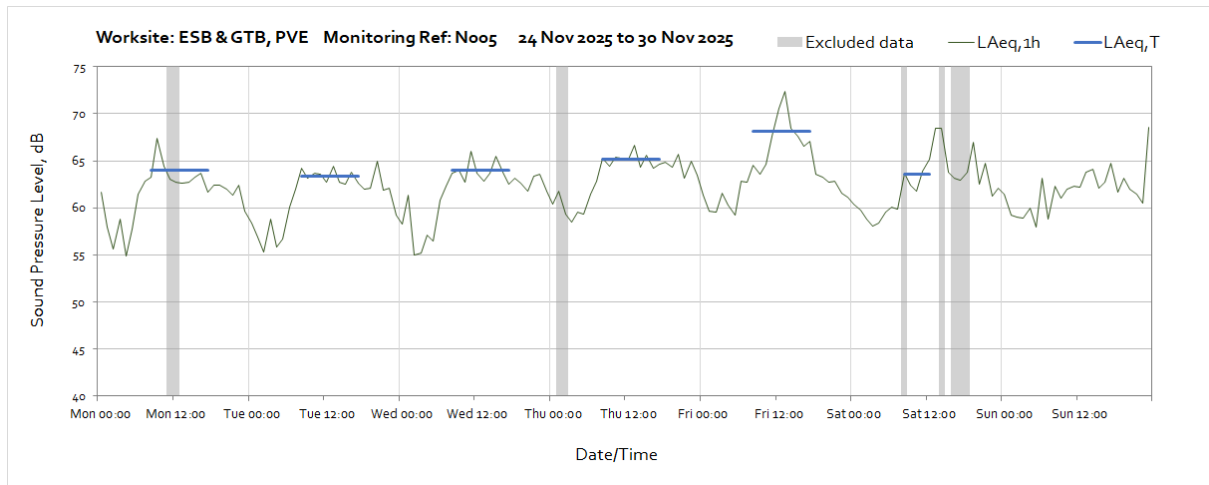
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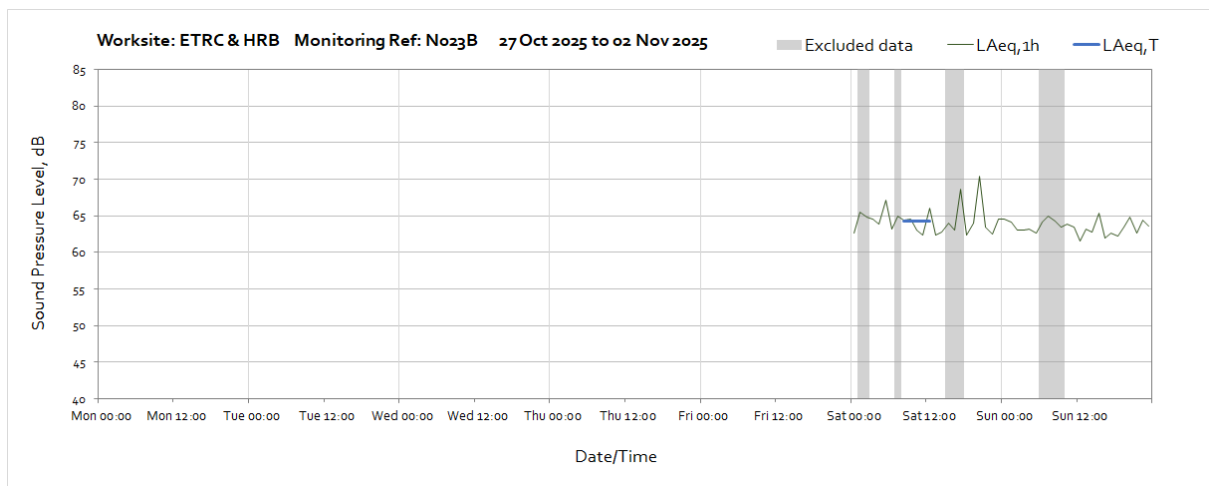


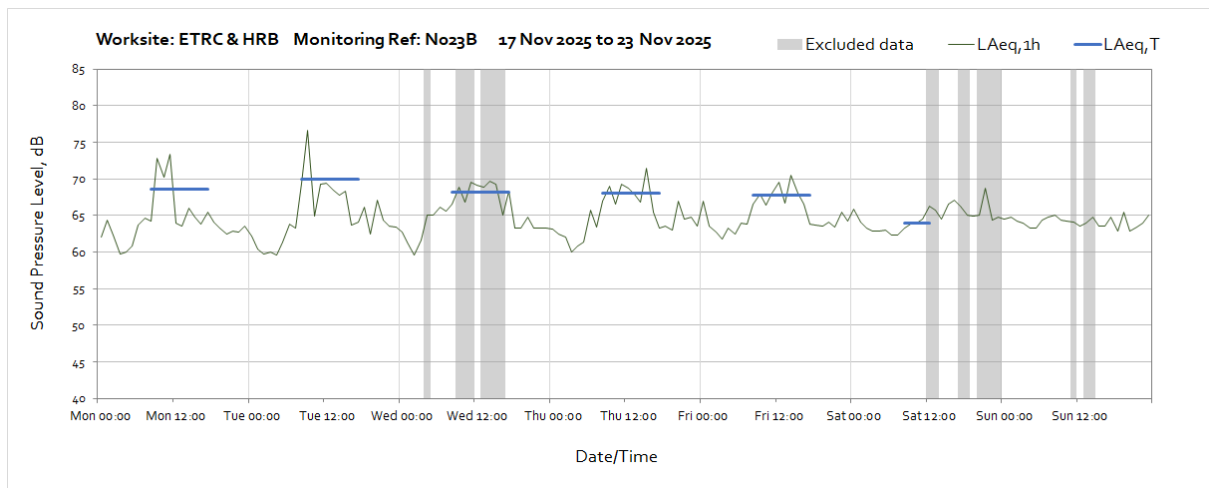
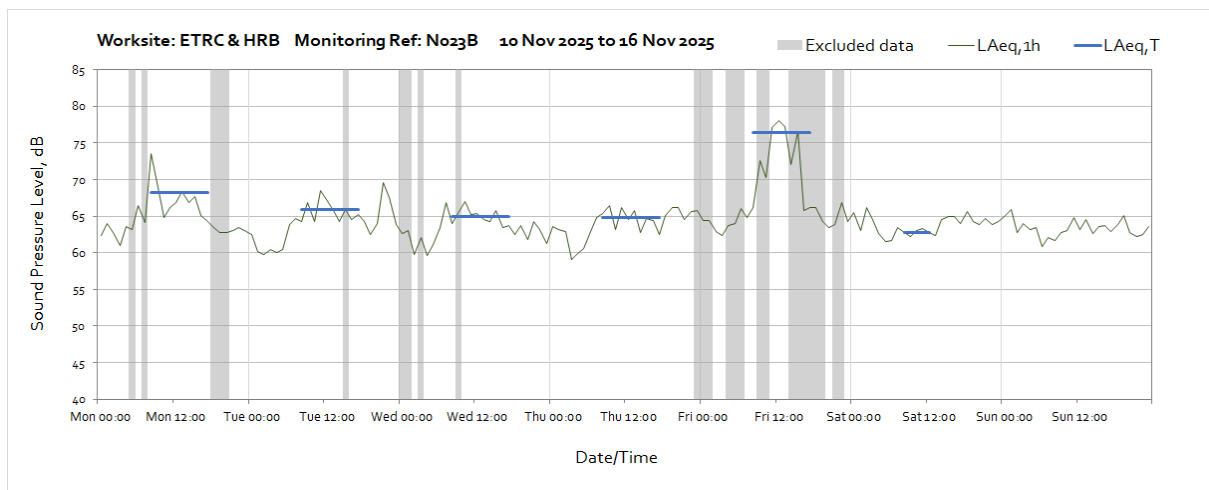
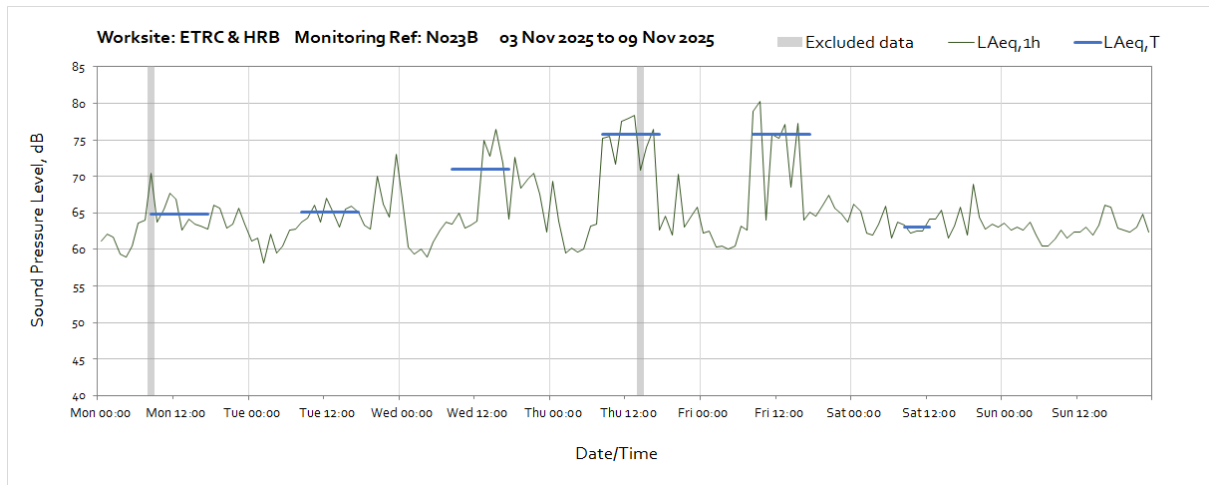


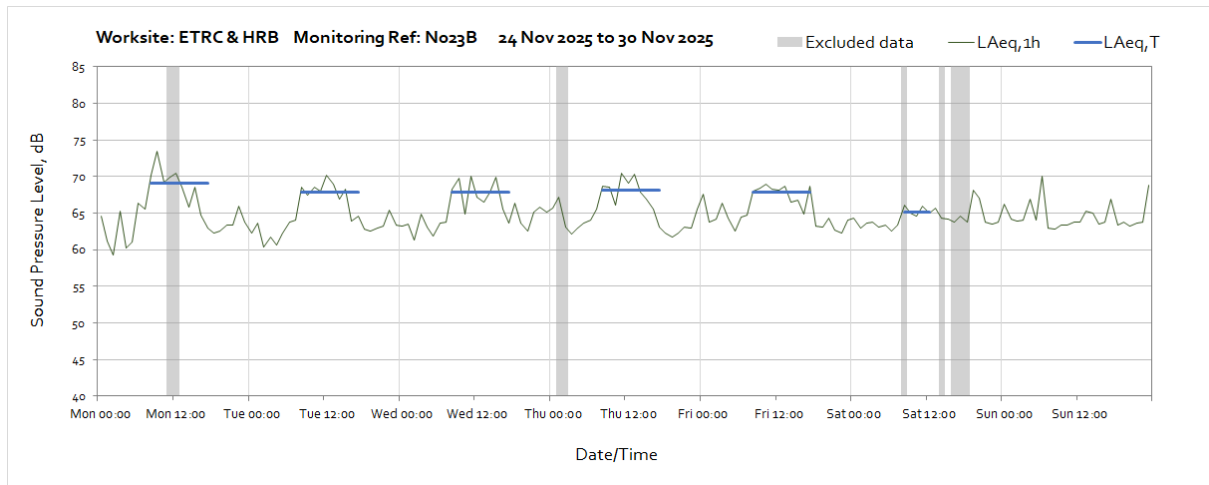
Worksite: ETRC & HRB – Monitoring Ref: N023

Note: No data measured throughout the month due to loss of power to the lighting column which supplies power to the monitoring station.

Worksite: ETRC & HRB – Monitoring Ref: N023B



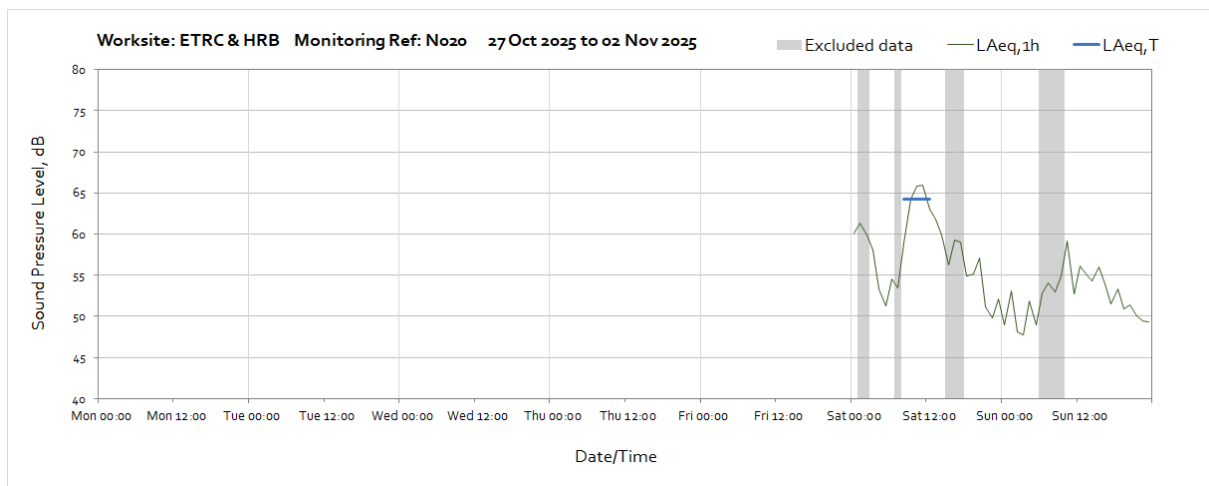


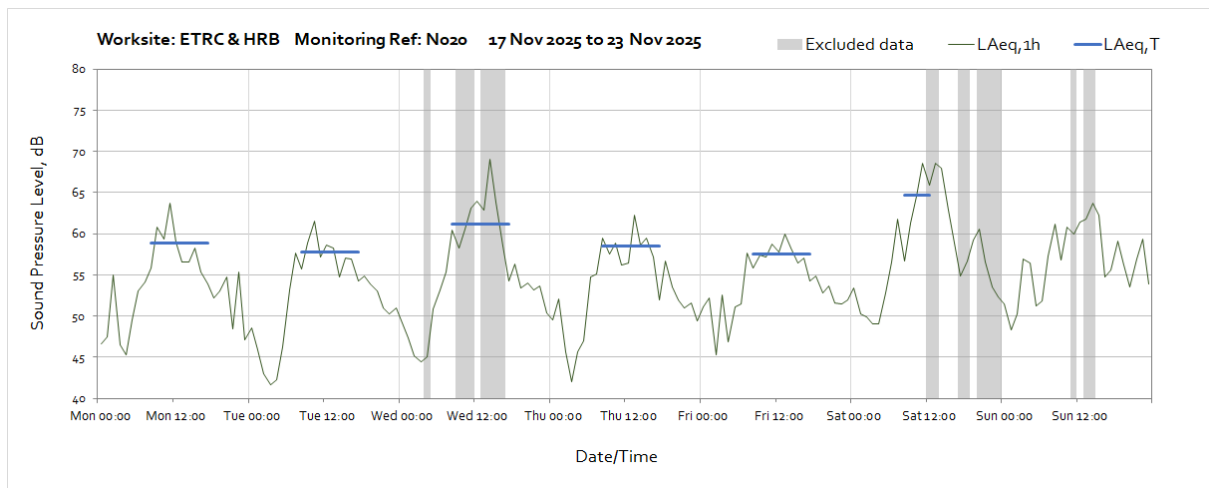
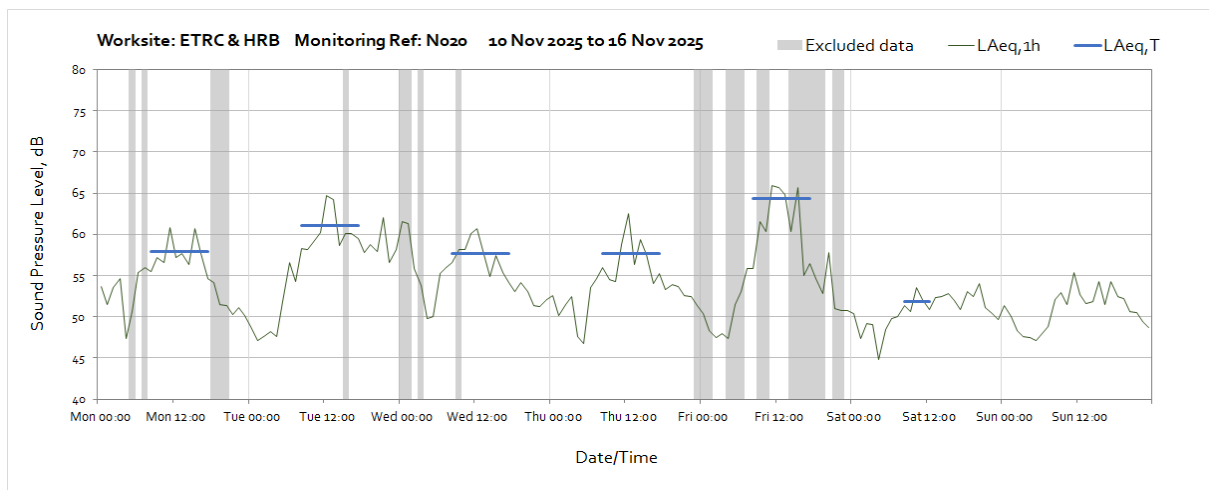
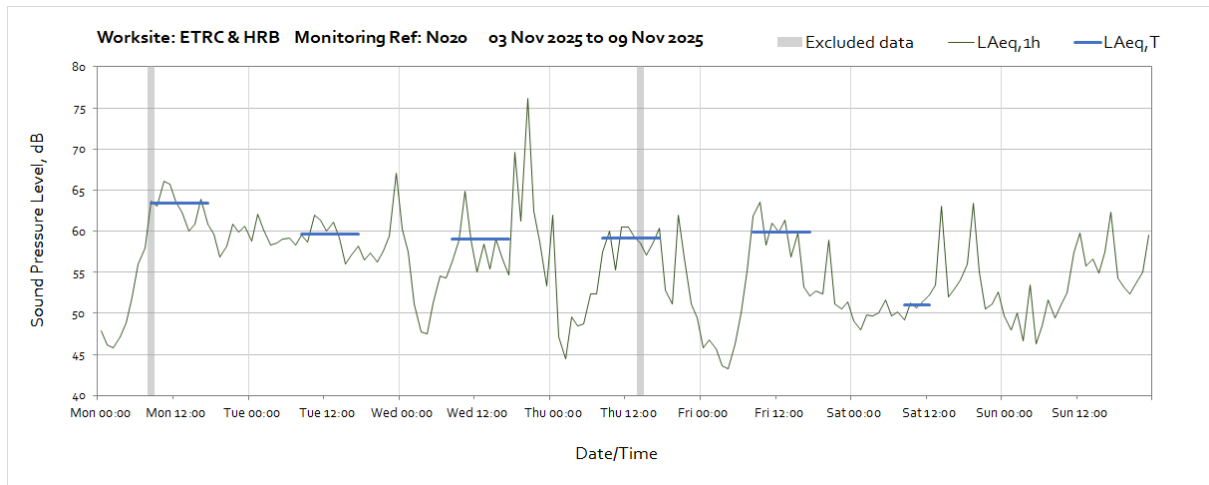


Worksite: ESB & GTB, PVE – Monitoring Ref: N004

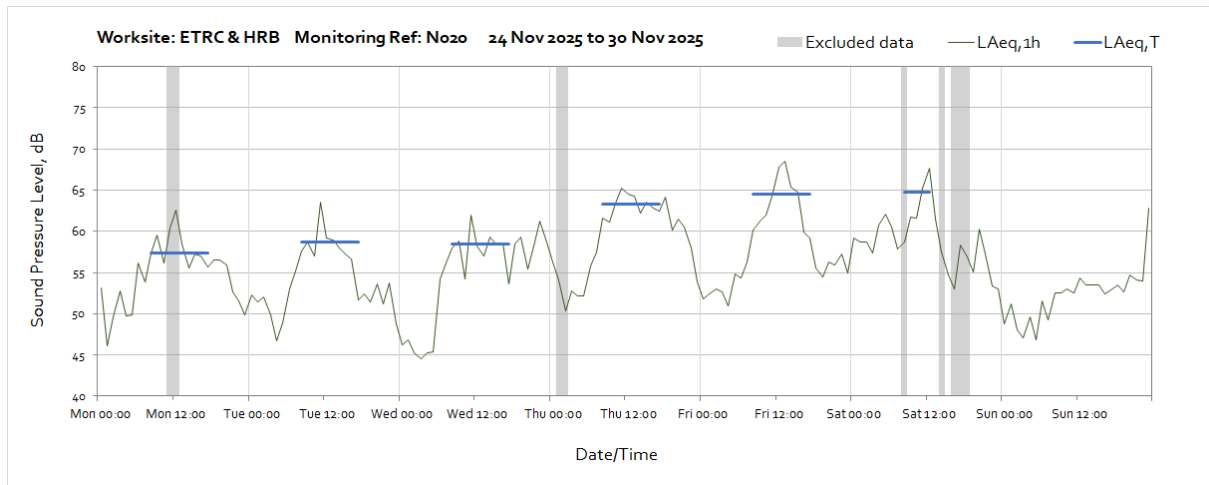
Note: No data measured throughout the month due to loss of power to the lighting column which supplies power to the monitoring station.

Worksite: ETRC & HRB – Monitoring Ref: N020

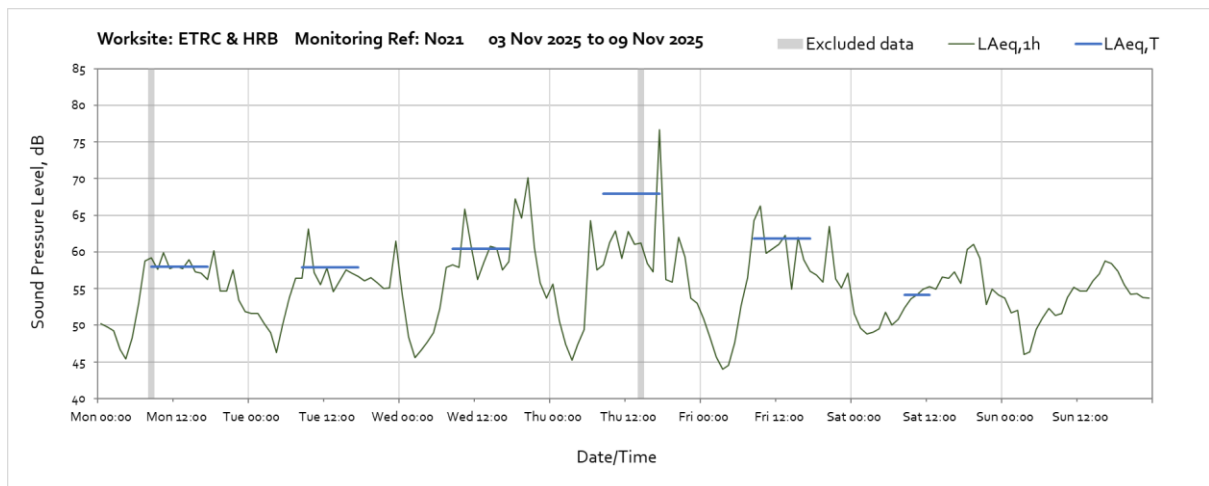
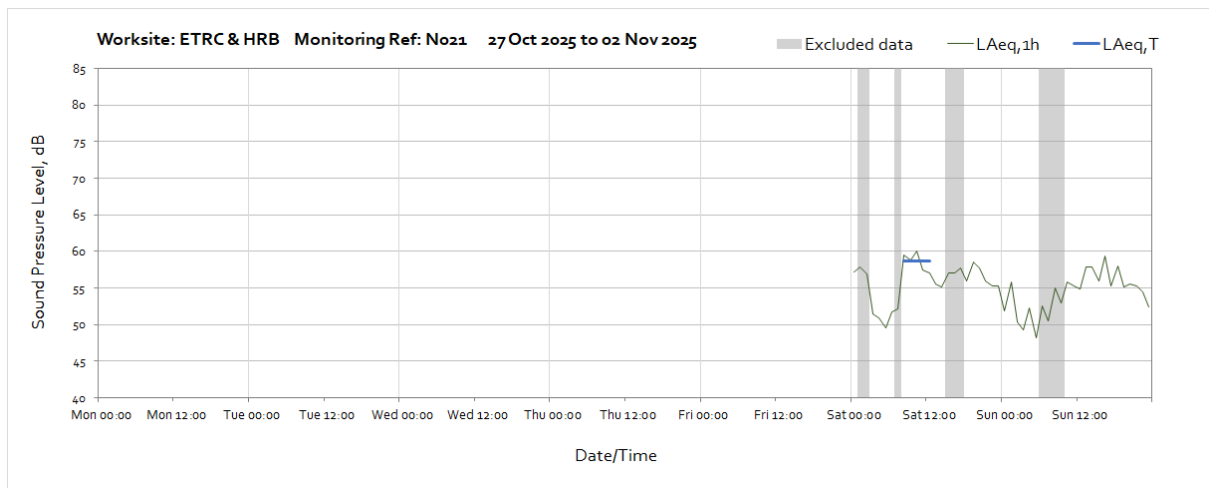


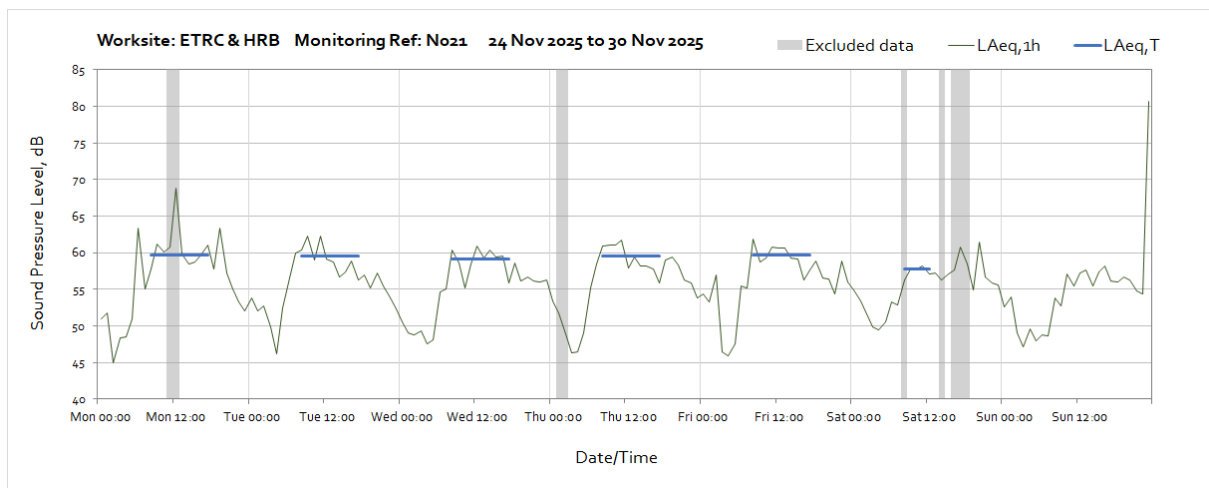
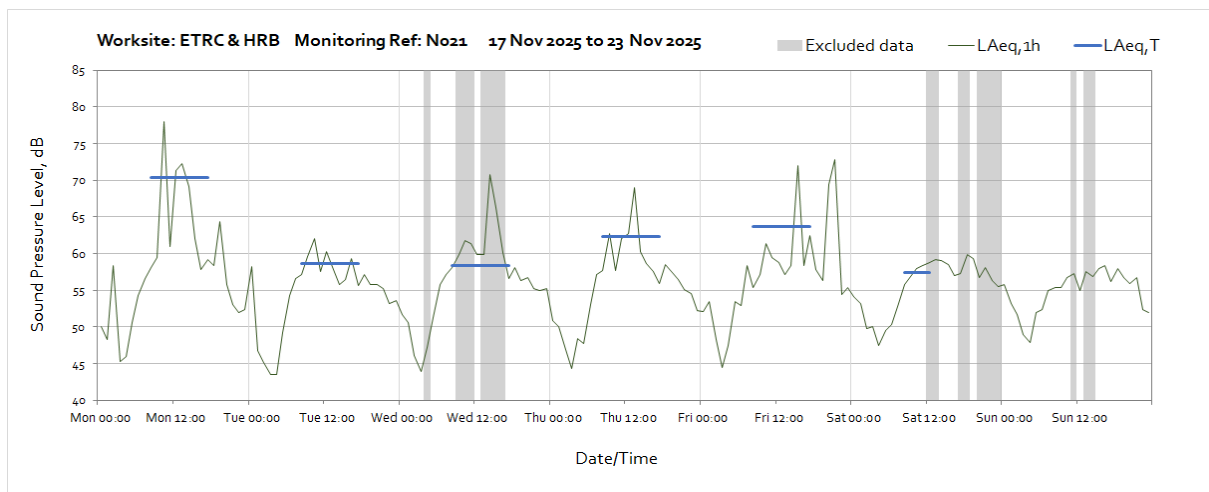
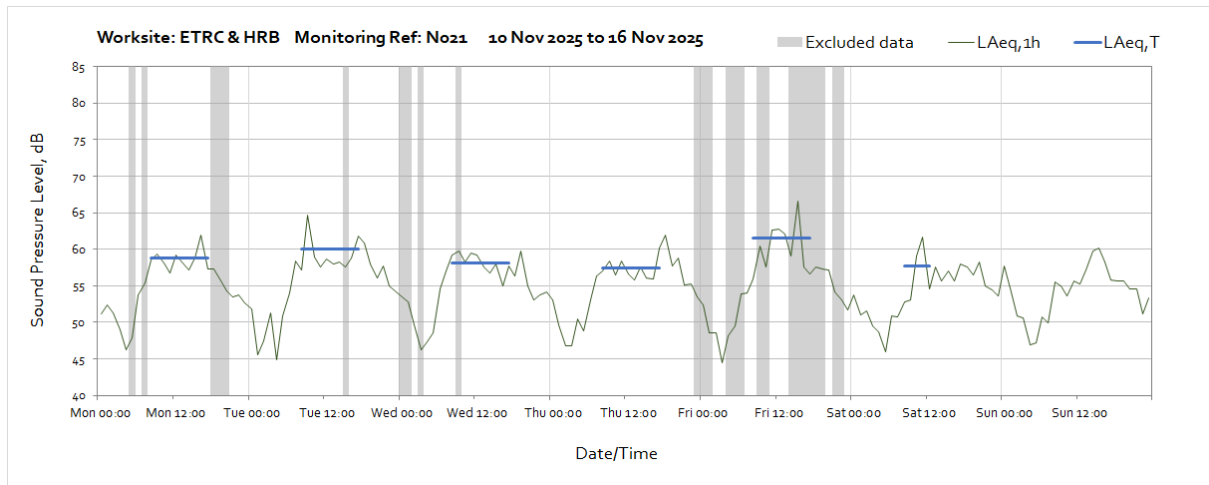


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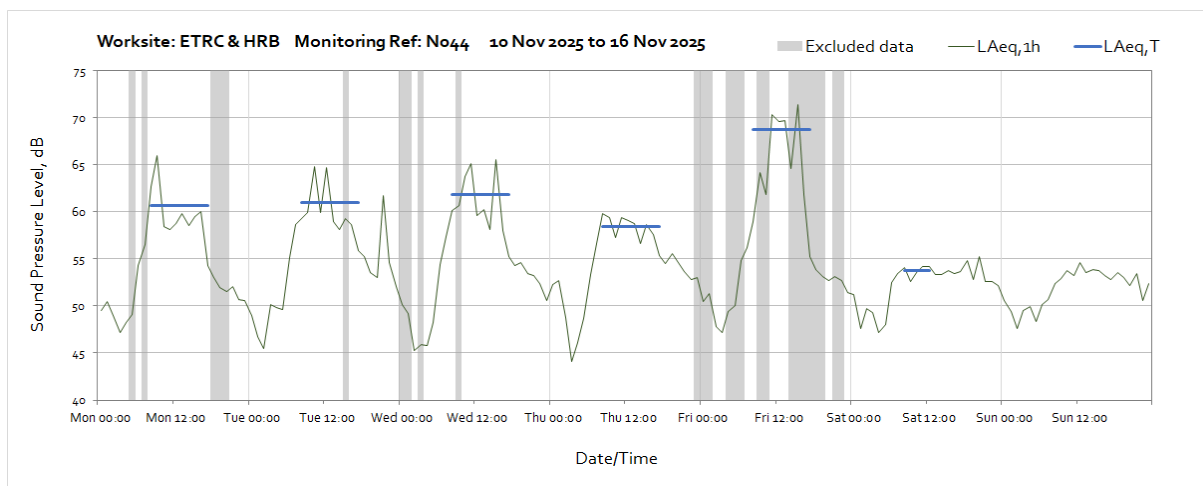
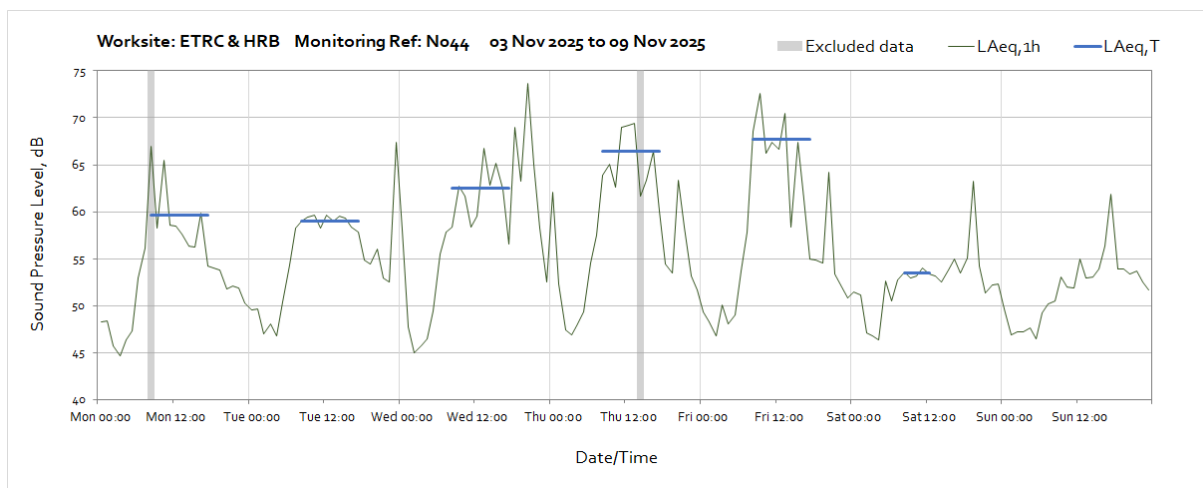
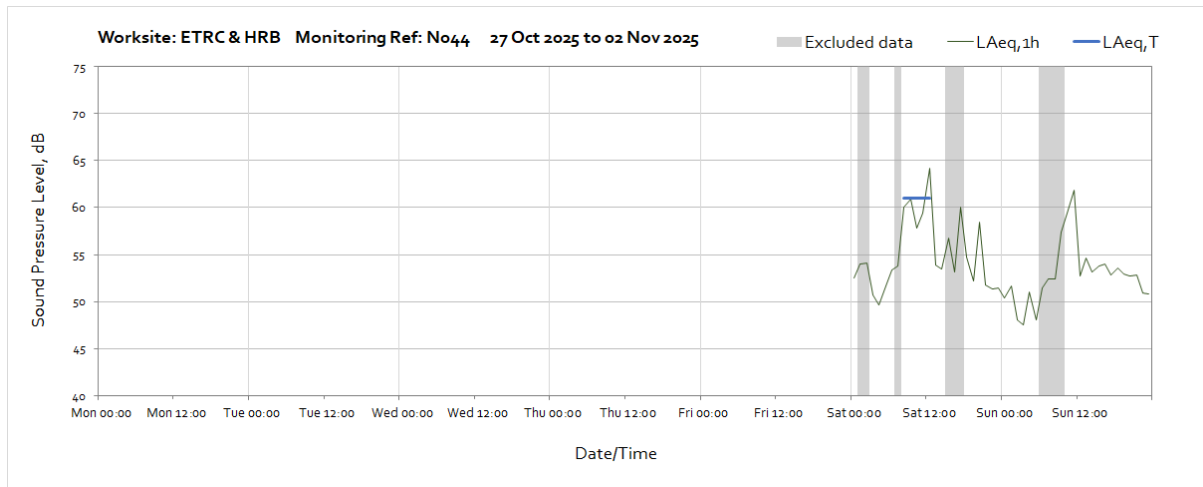


Worksite: ETRC & HRB – Monitoring Ref: N021

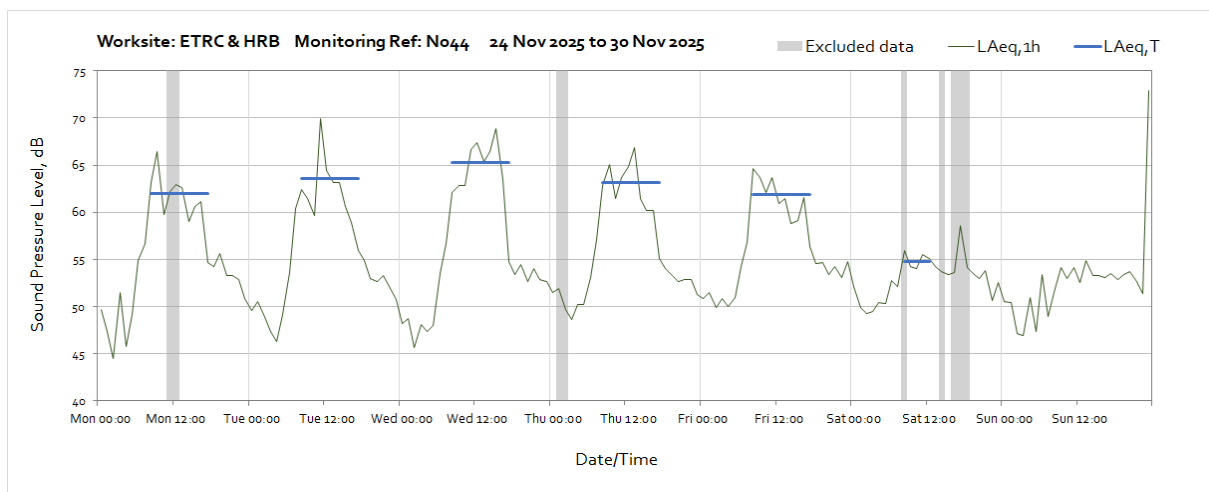
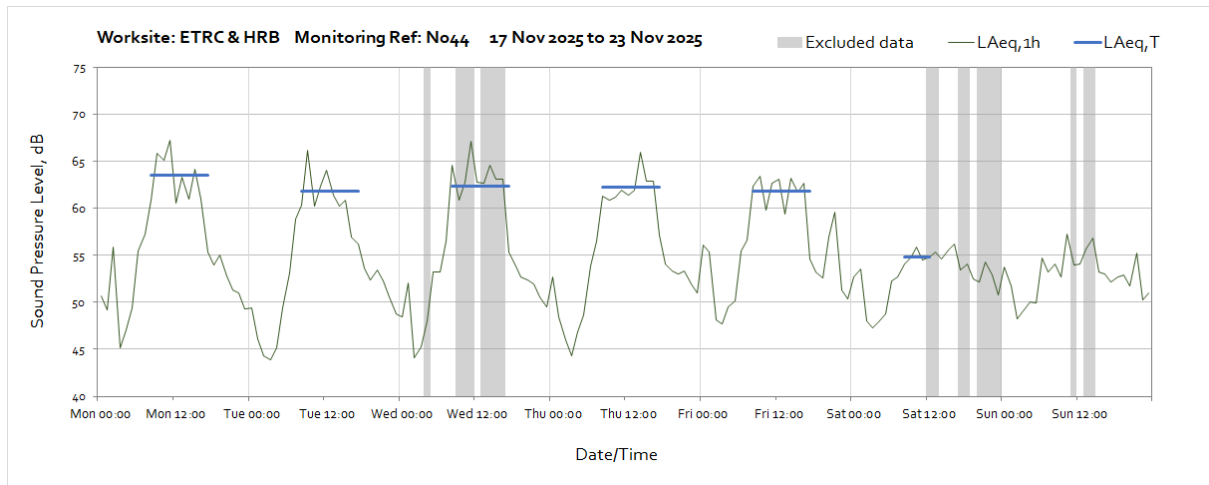




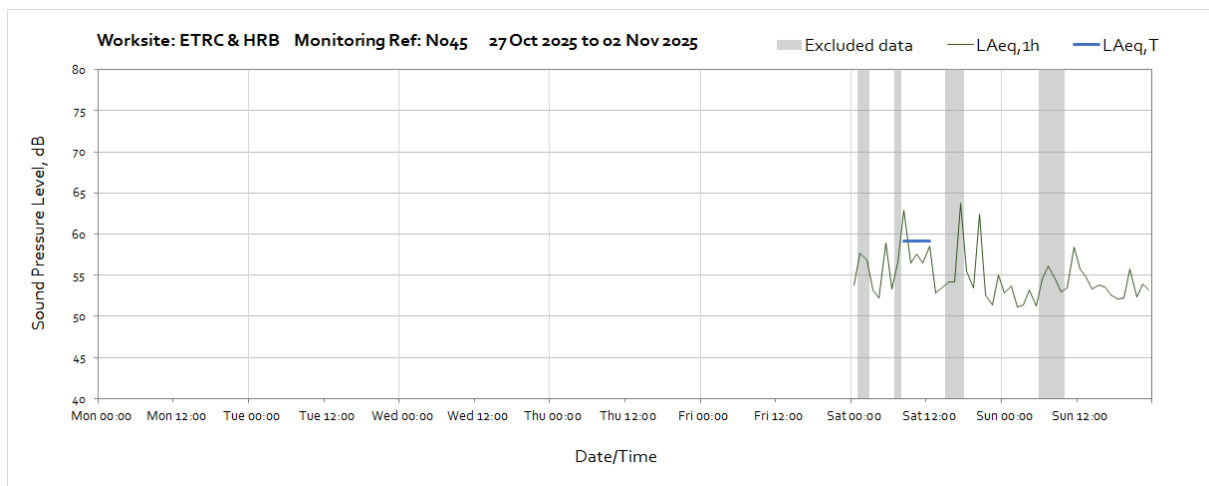
Worksite: ETRC & HRB – Monitoring Ref: N044

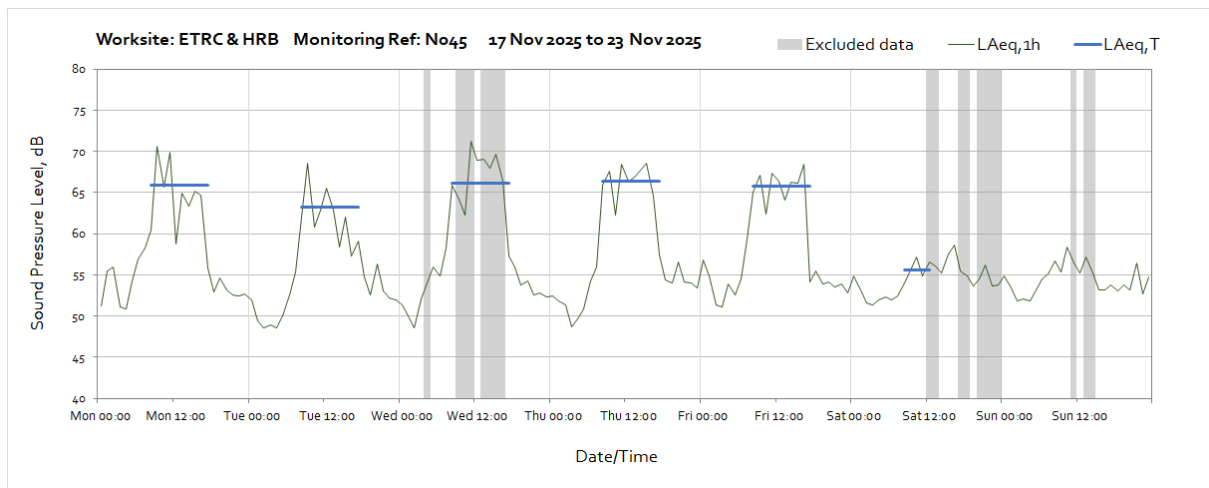
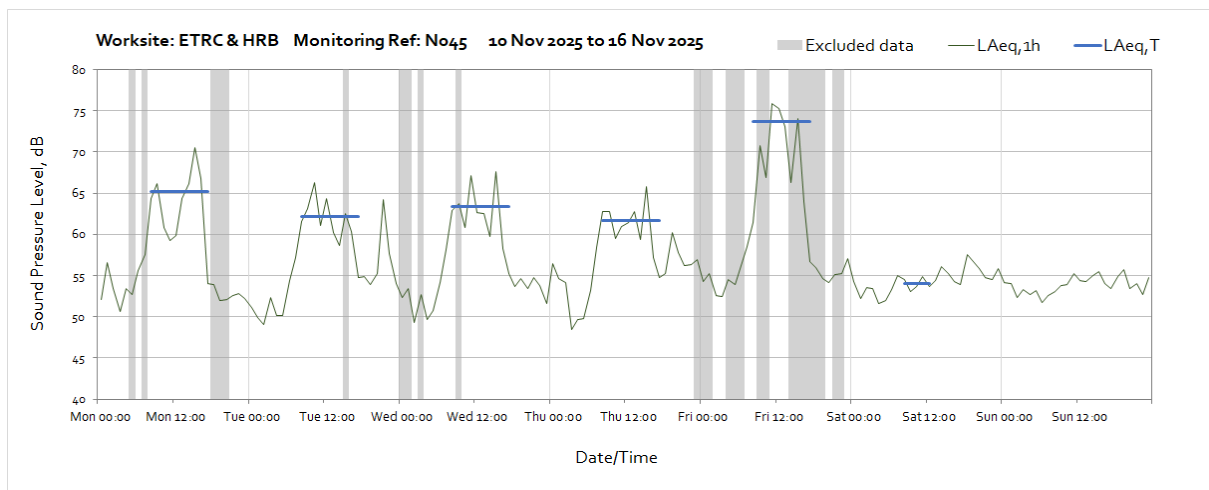
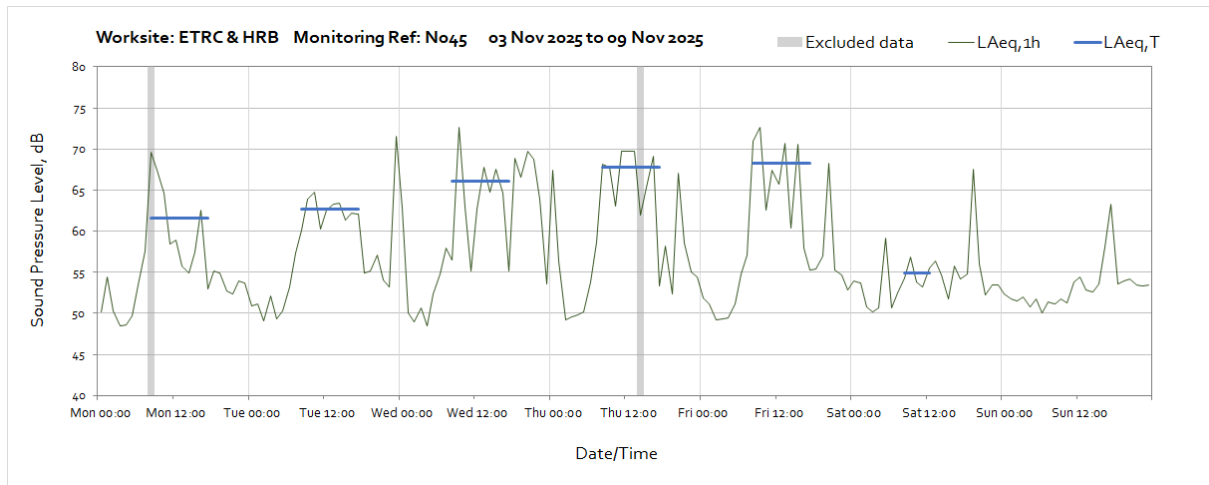


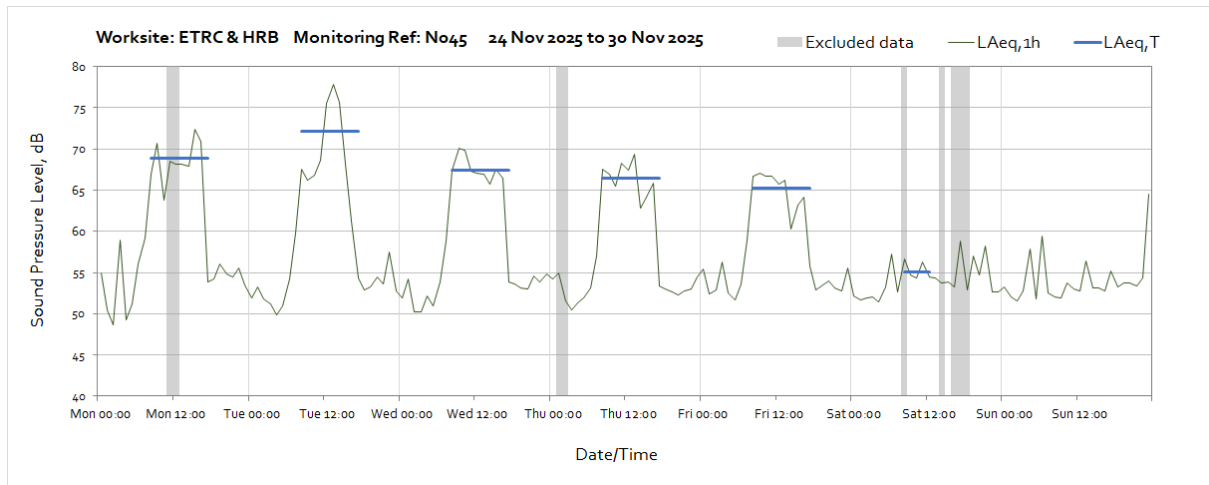
OFFICIAL



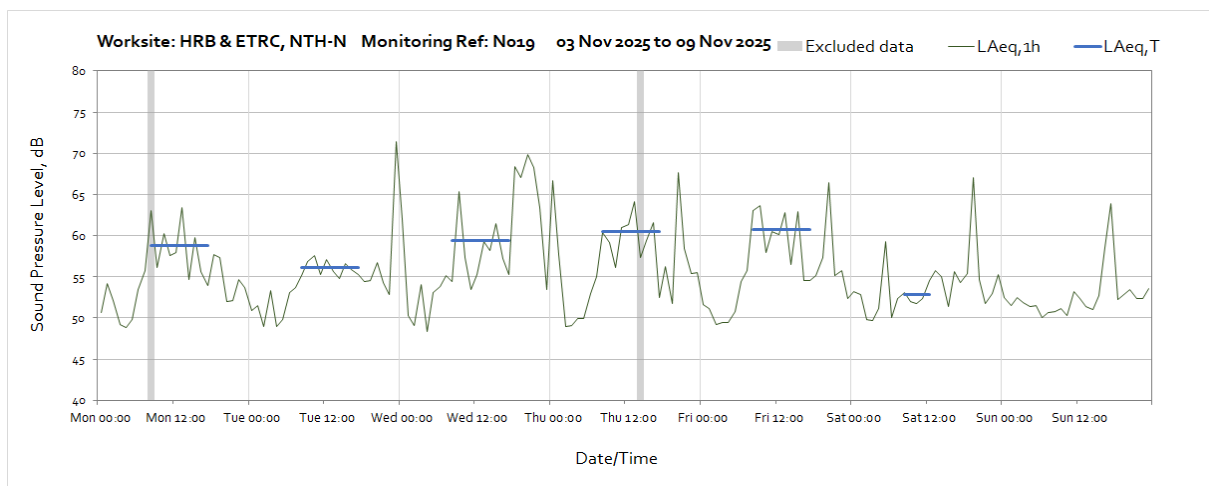
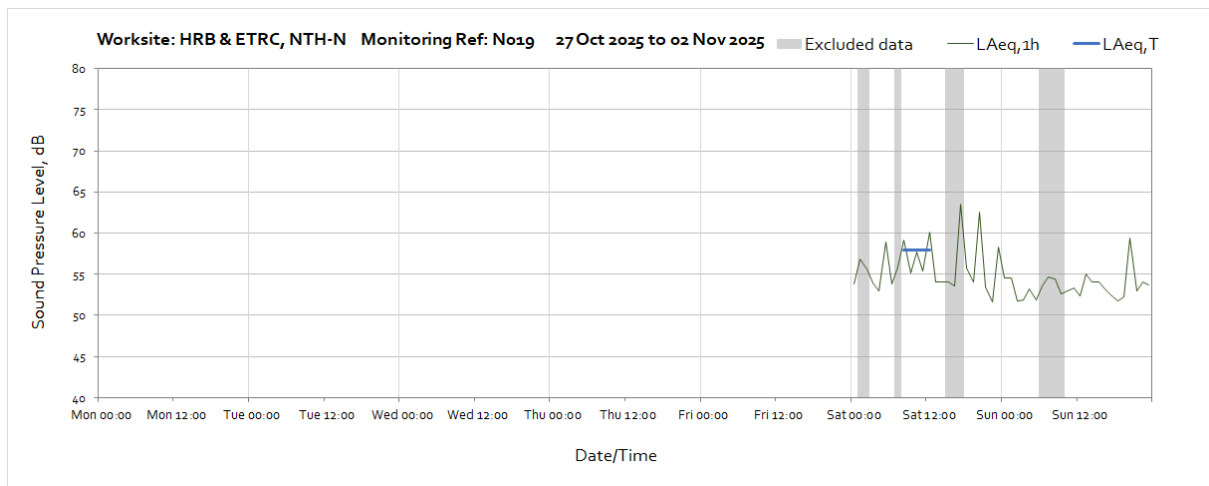
Worksite: ETRC & HRB – Monitoring Ref: N045

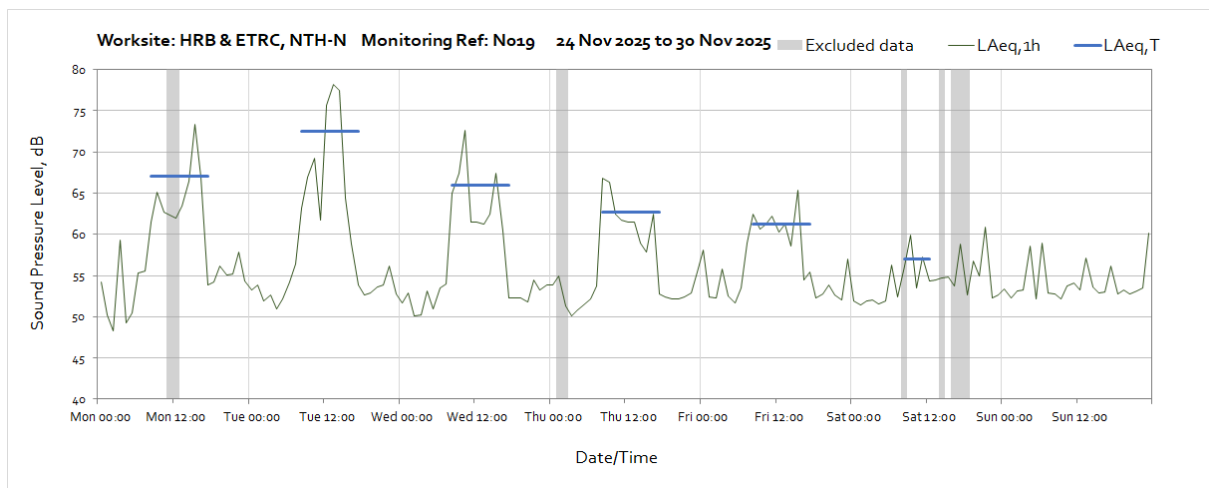
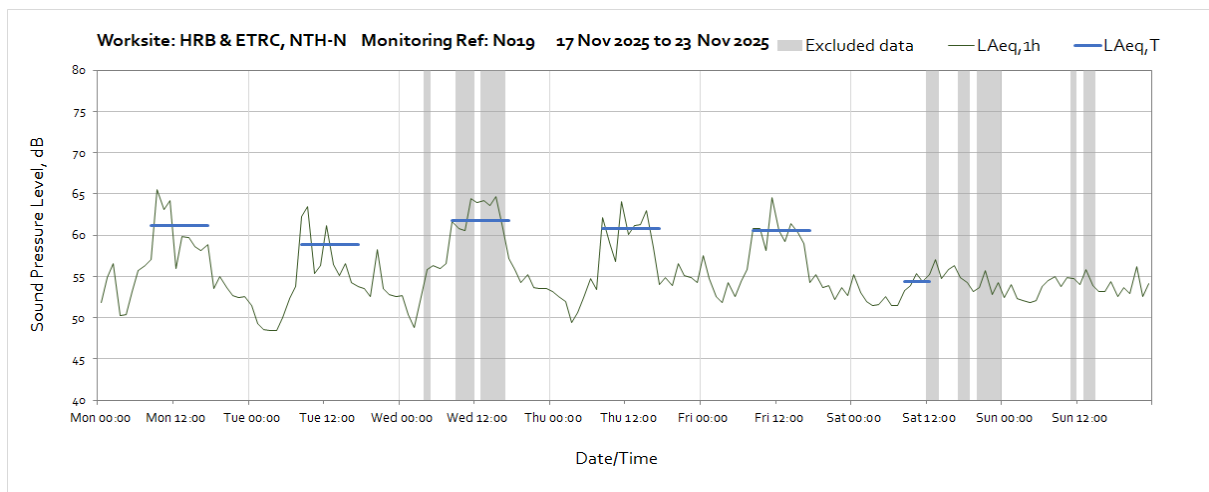
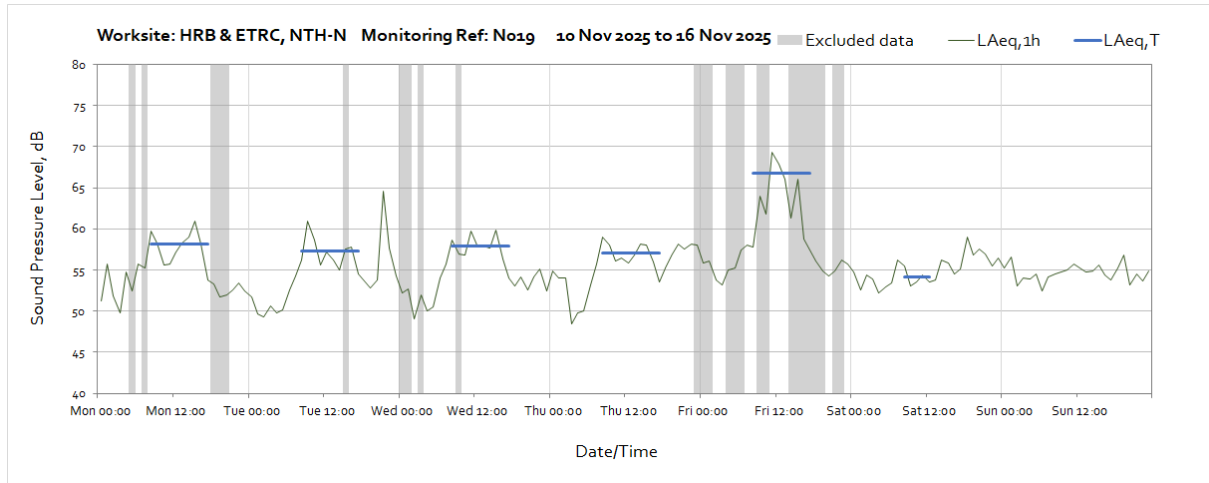




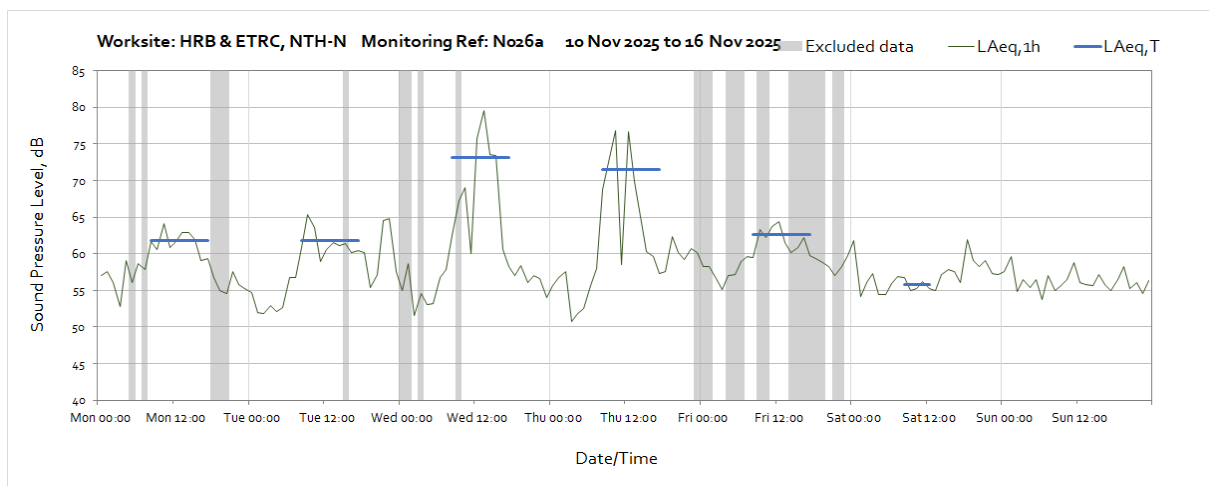
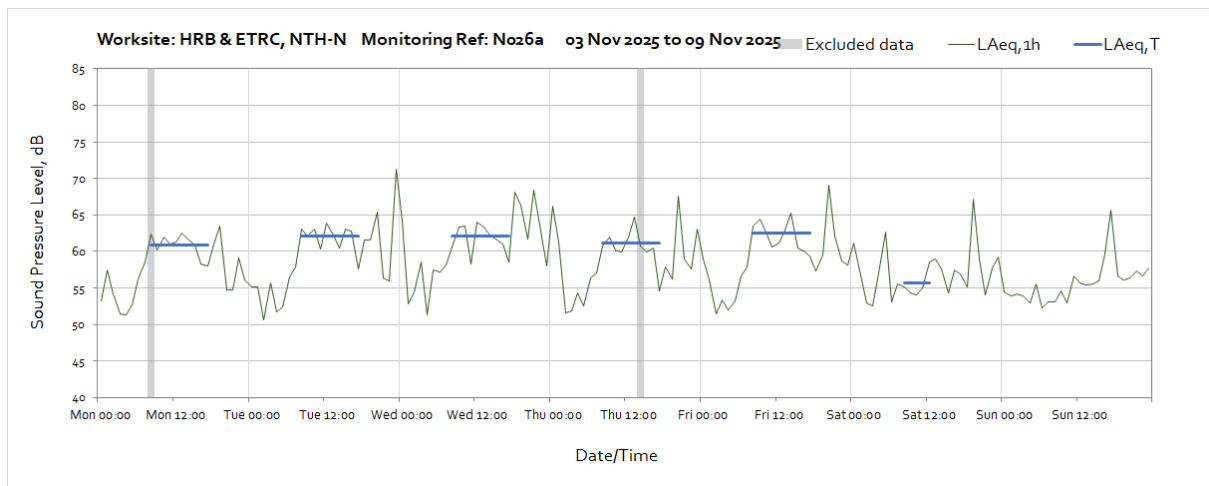
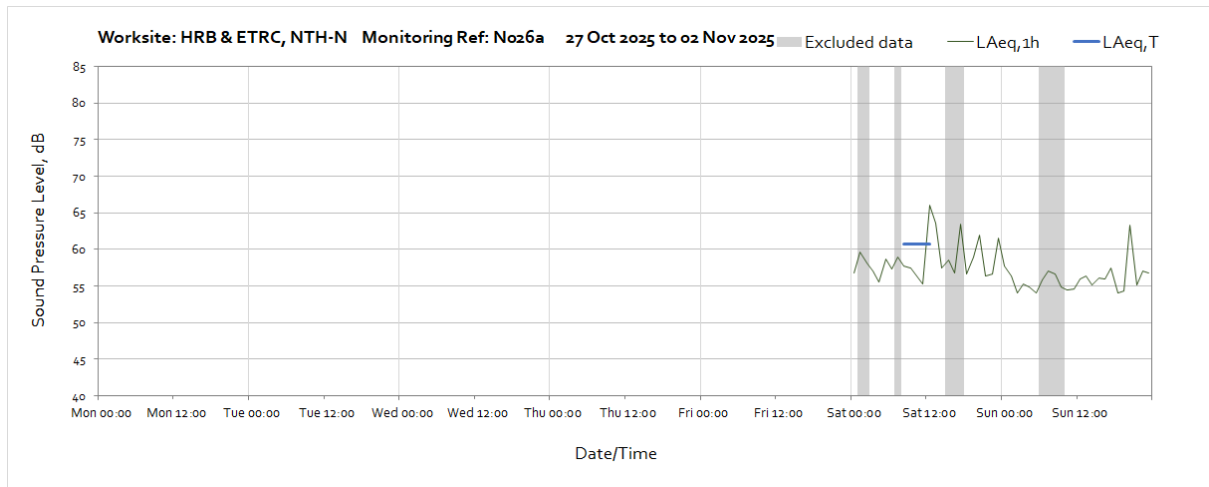


Worksite: HRB & ETRC, NTH-N – Monitoring Ref: N019

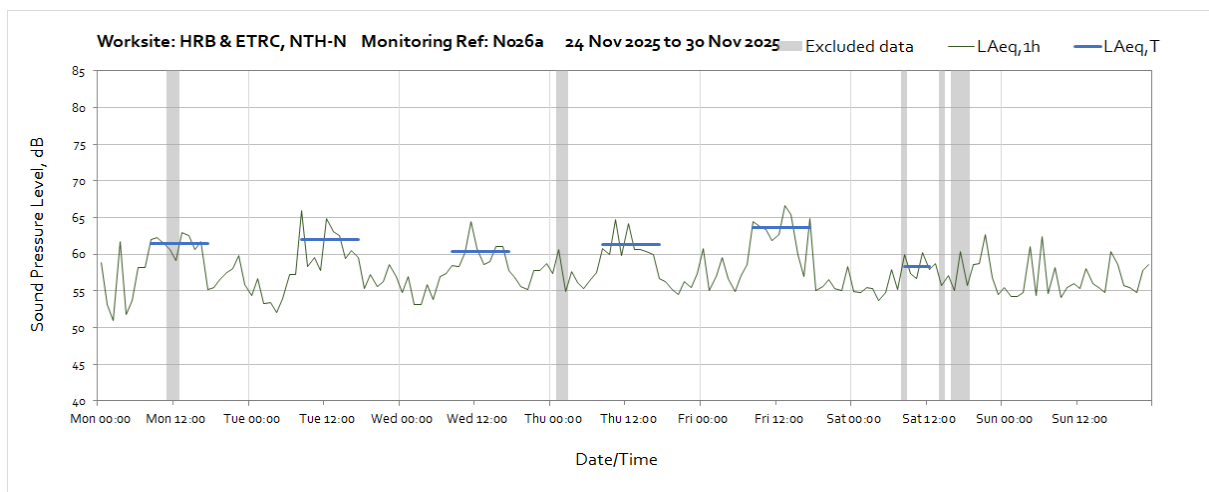
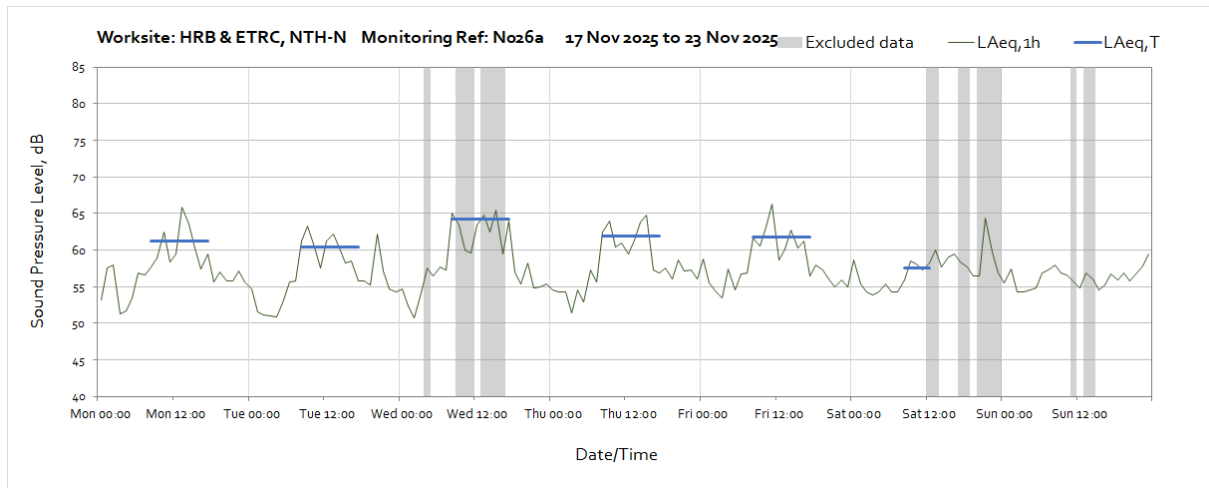




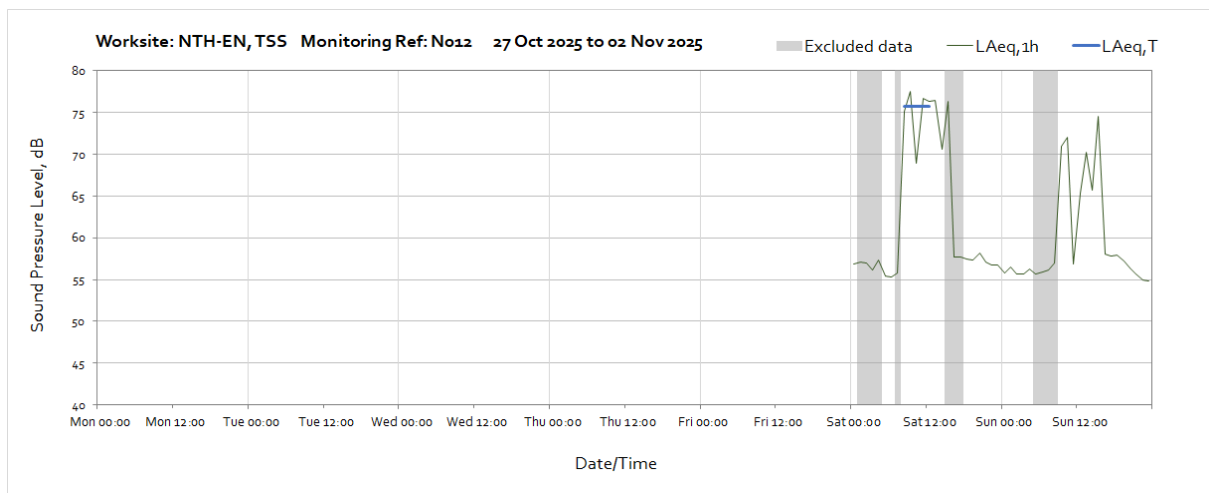
Worksite: HRB & ETRC, NTH-N – Monitoring Ref: N026a

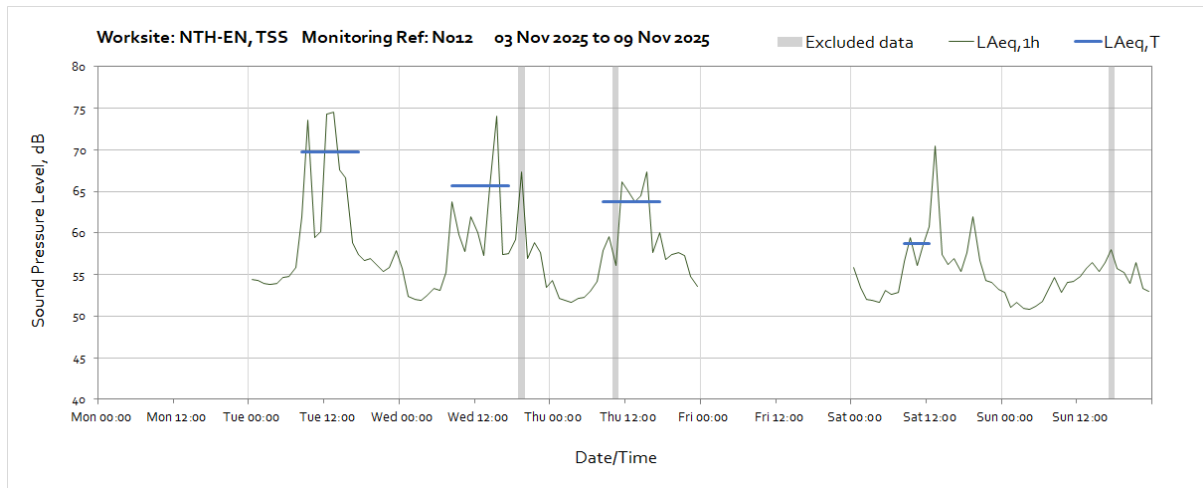


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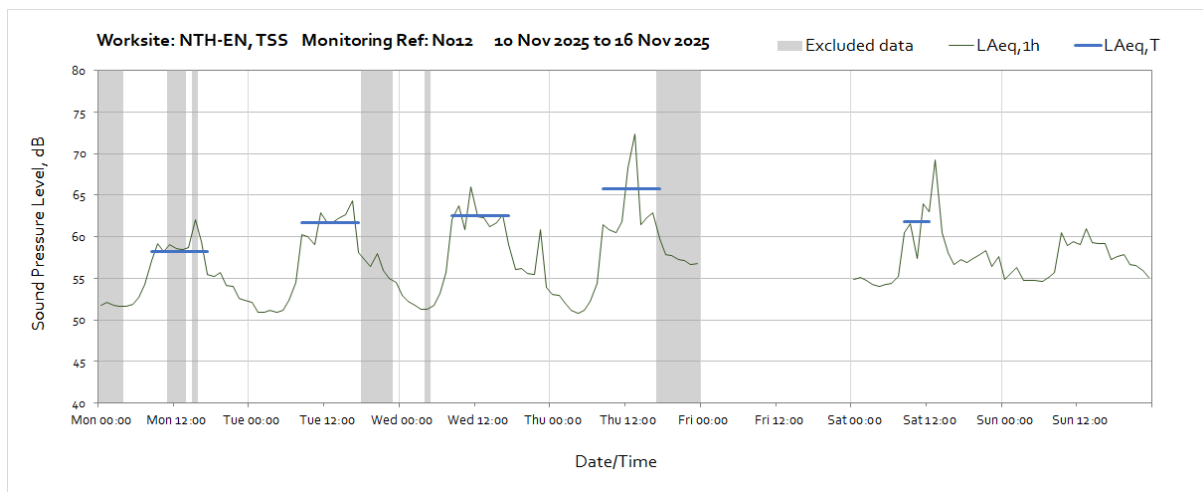


Worksite: NTH-EN, TSS – Monitoring Ref: N012

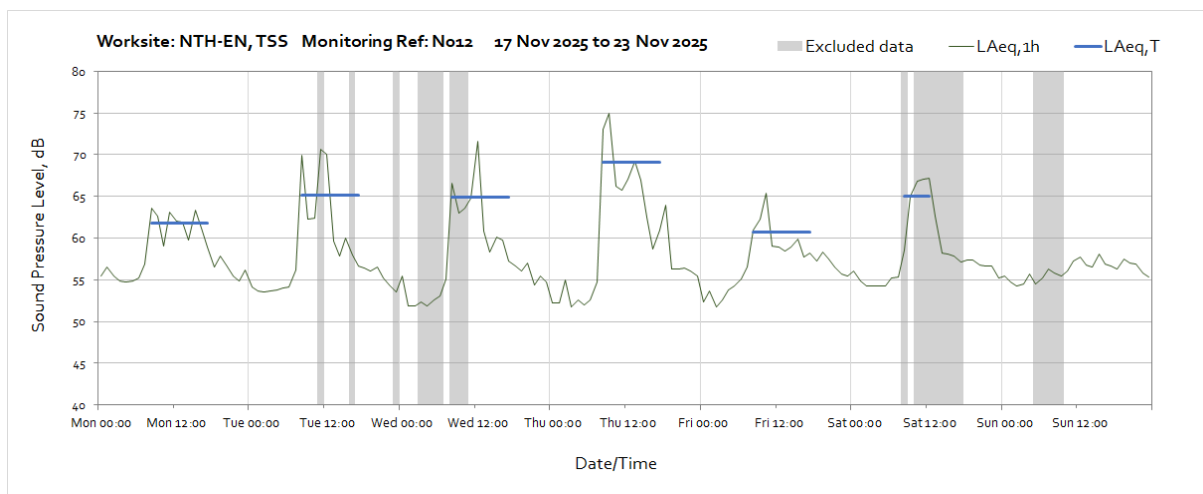


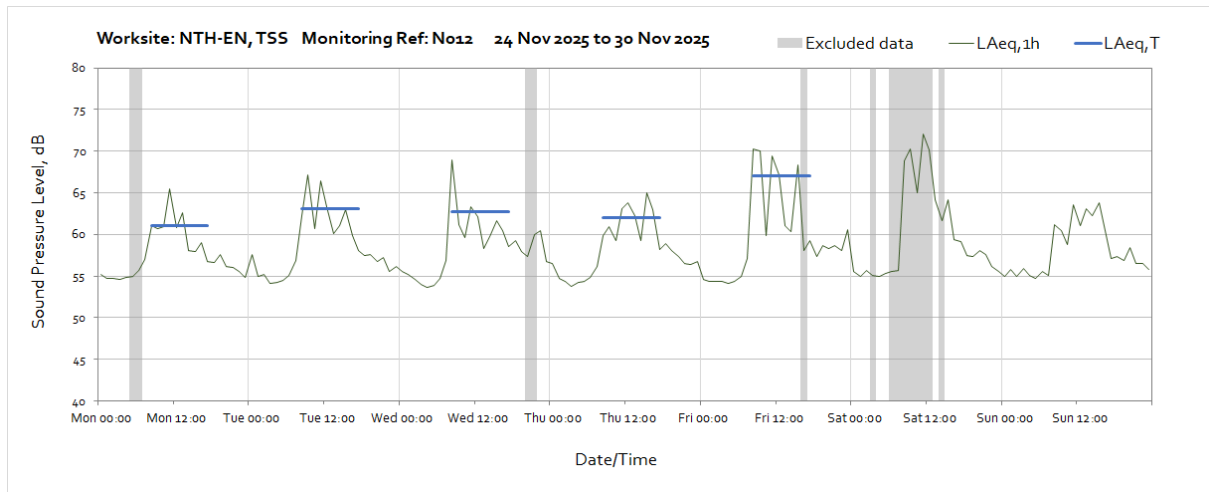


Note: Missing data between 00:00 and 23:00 on Monday 3rd November and between 00:00 and 23:00 on Friday 7th November was due to a monitoring station system error.

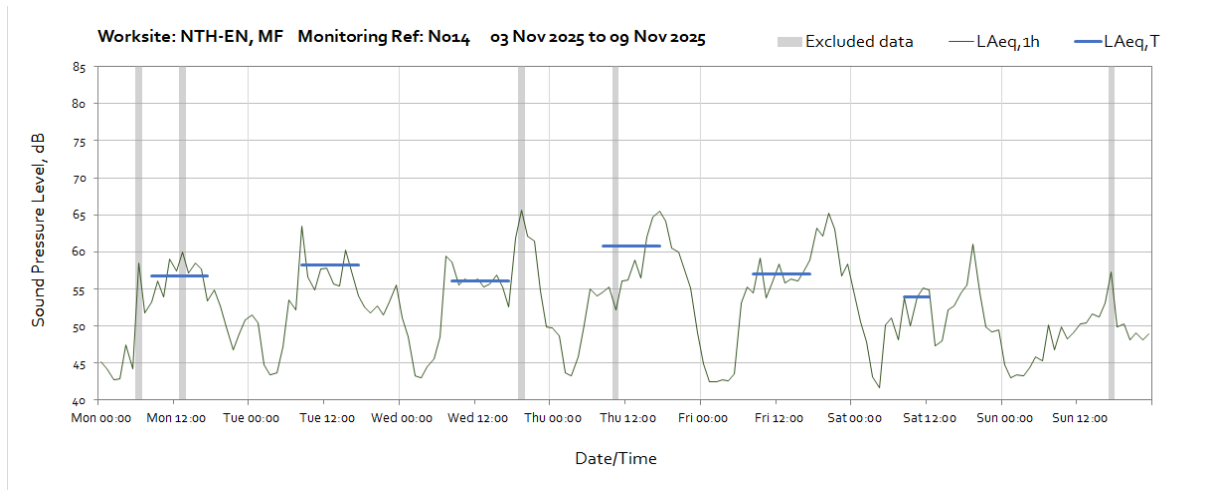
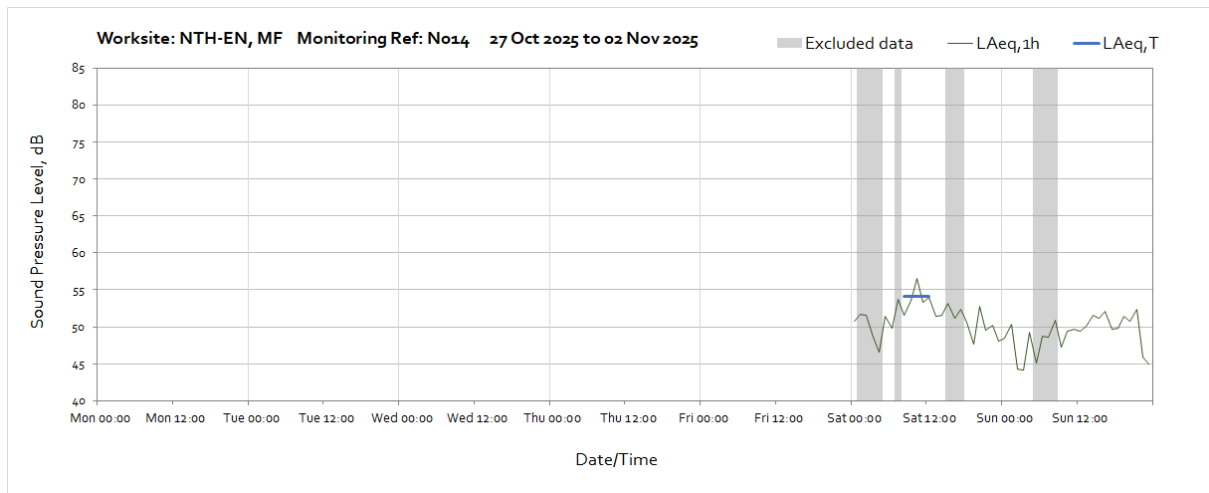


Note: Missing data between 00:00 and 23:00 on Friday 14th November was due to a monitoring station system error.

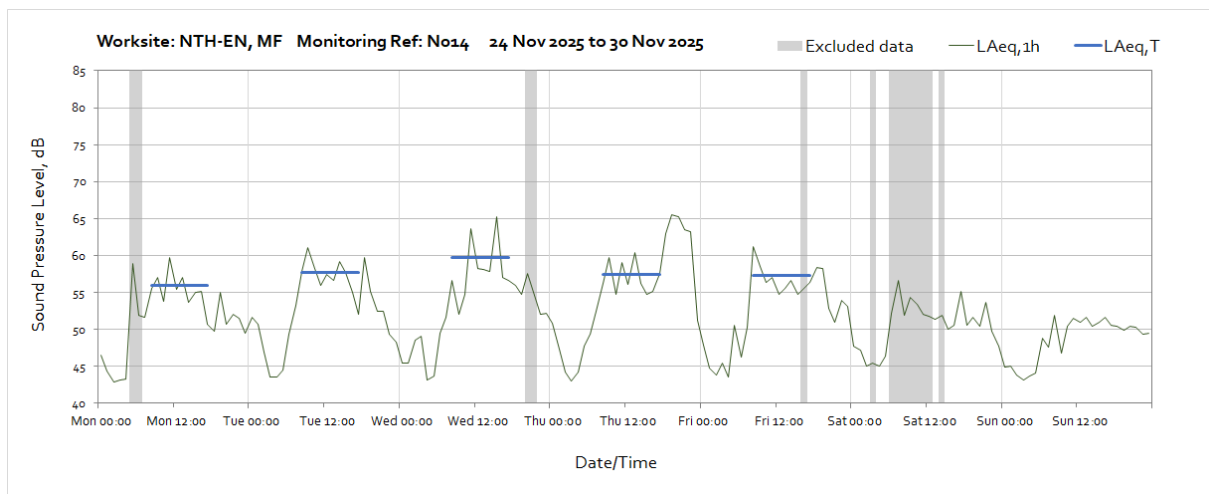
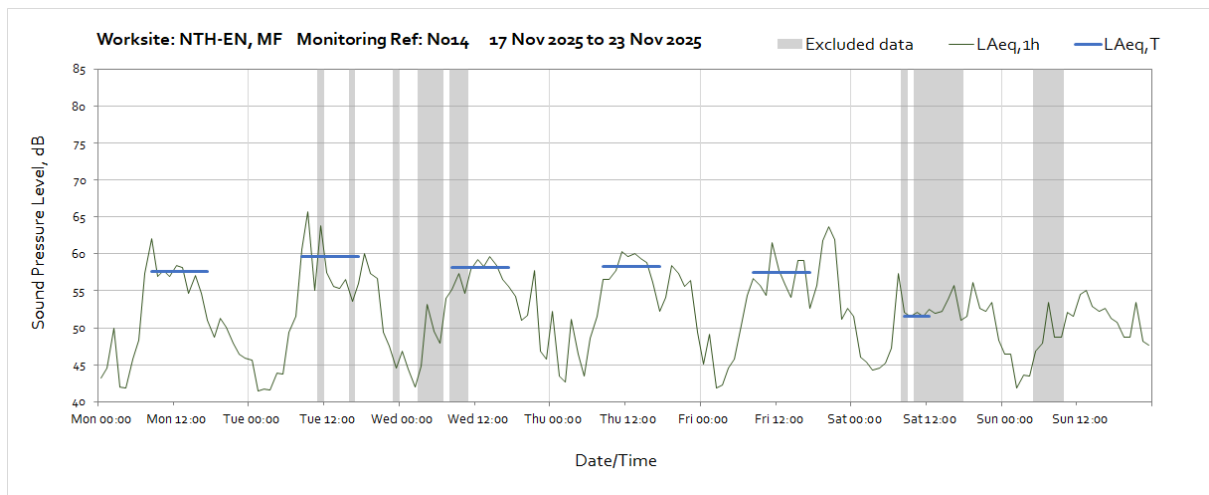
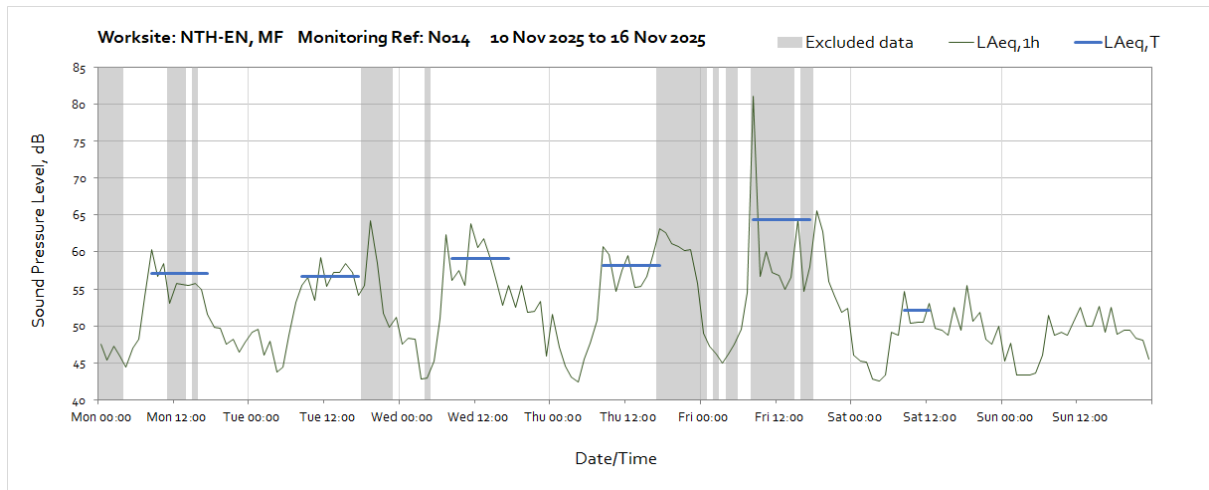




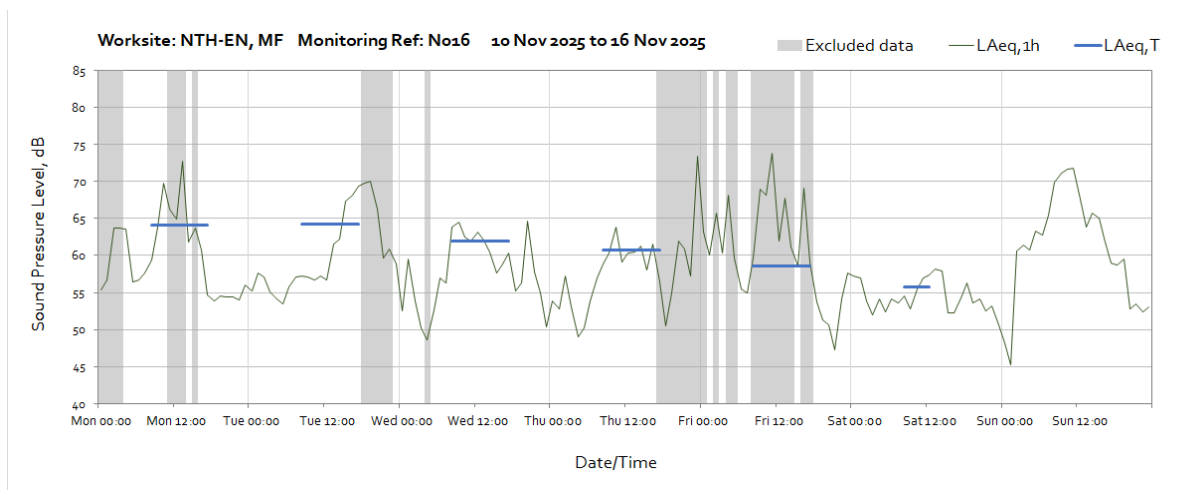
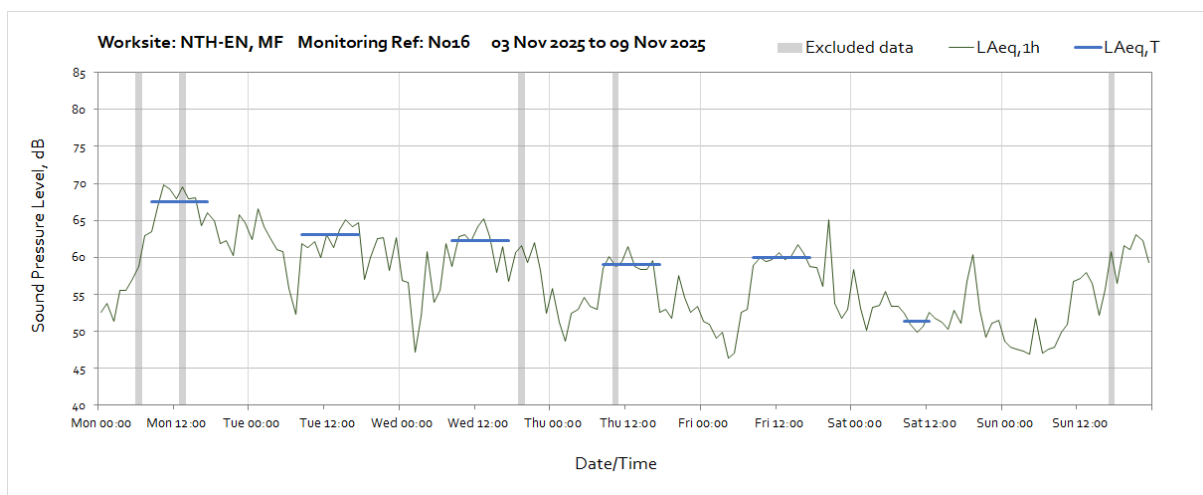
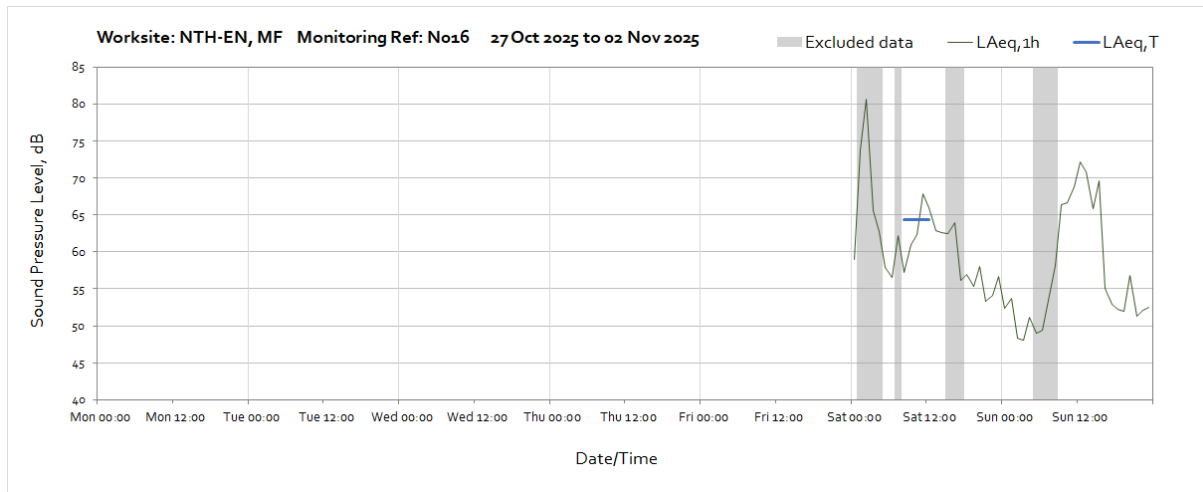
Worksite: NTH-EN, MF – Monitoring Ref: N014



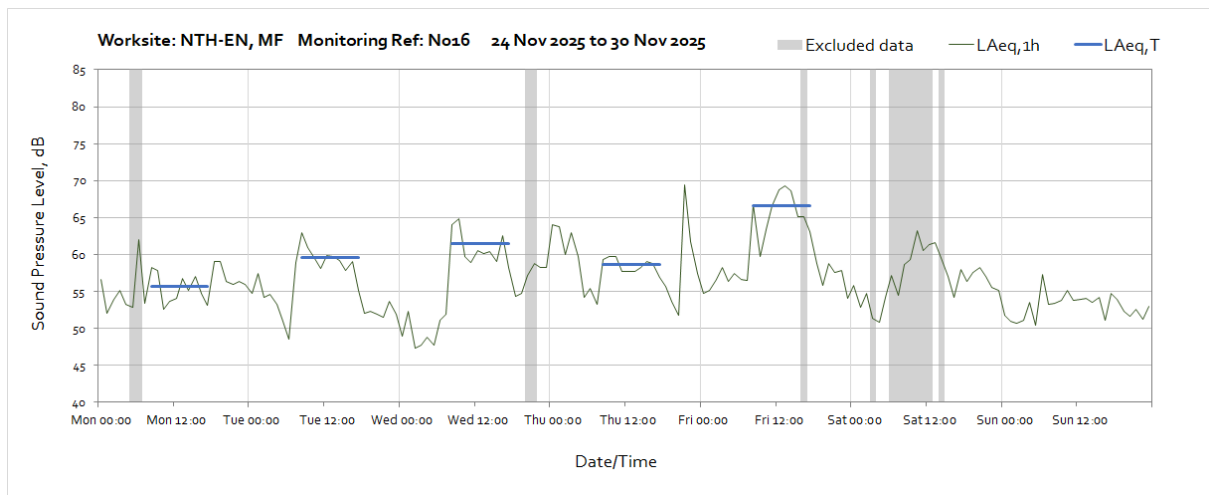
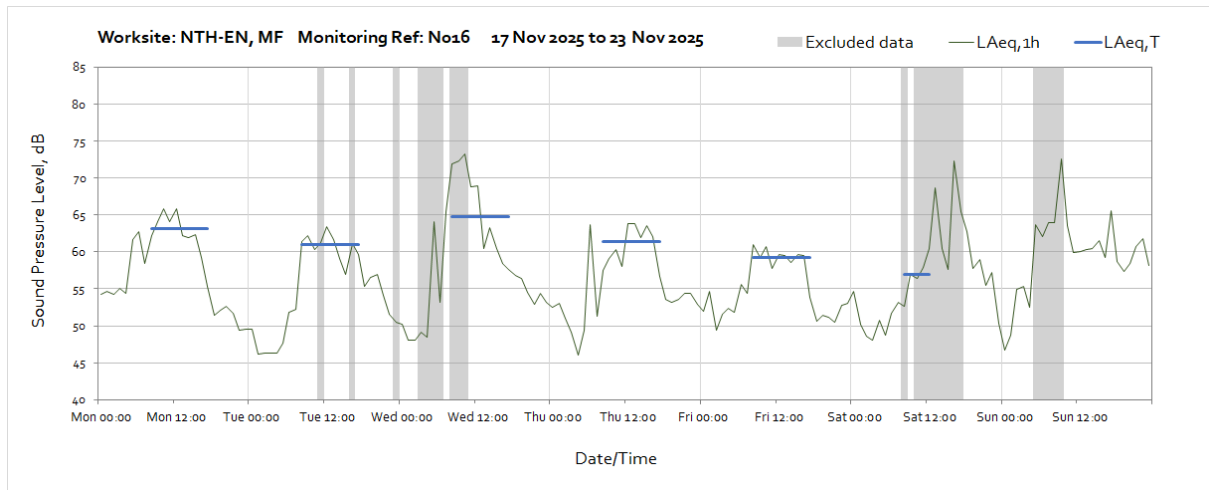
OFFICIAL



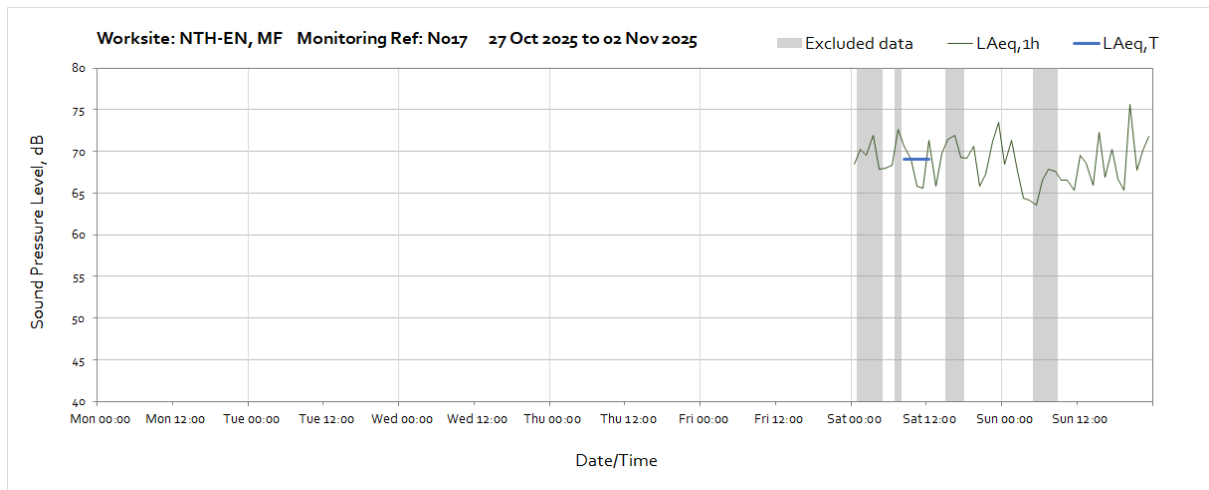
Worksite: NTH-EN, MF – Monitoring Ref: N016

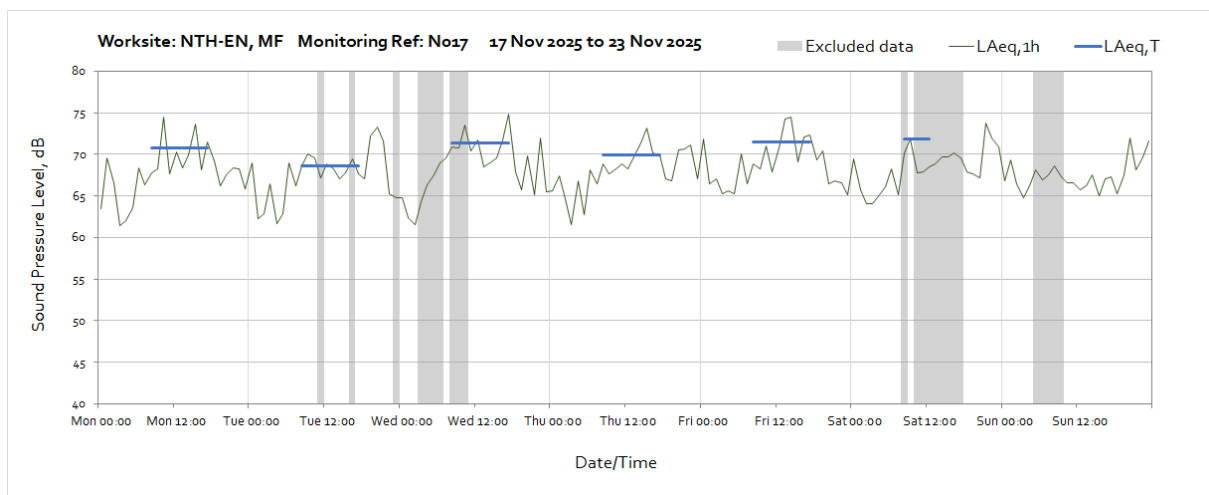
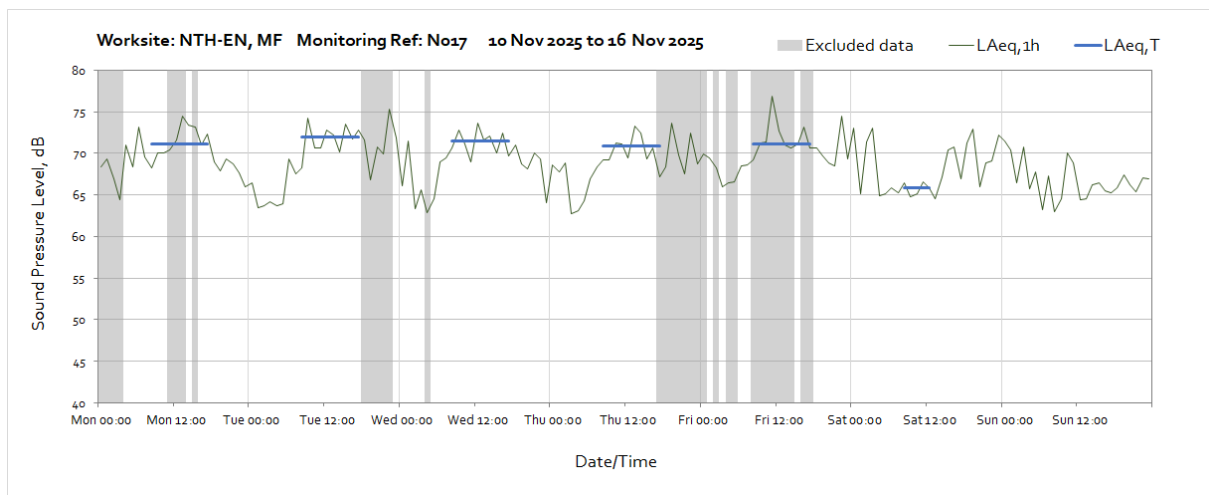
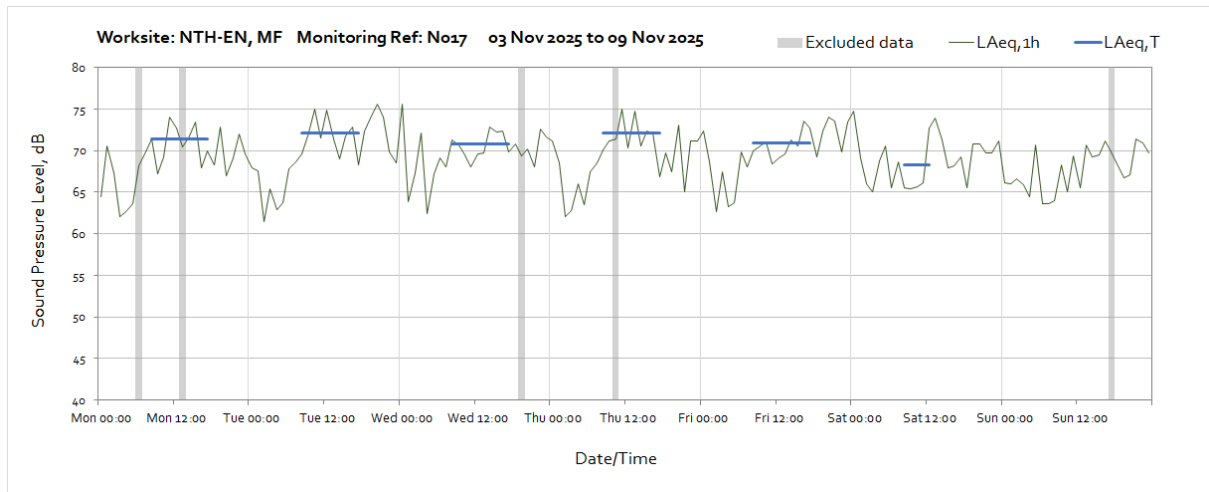


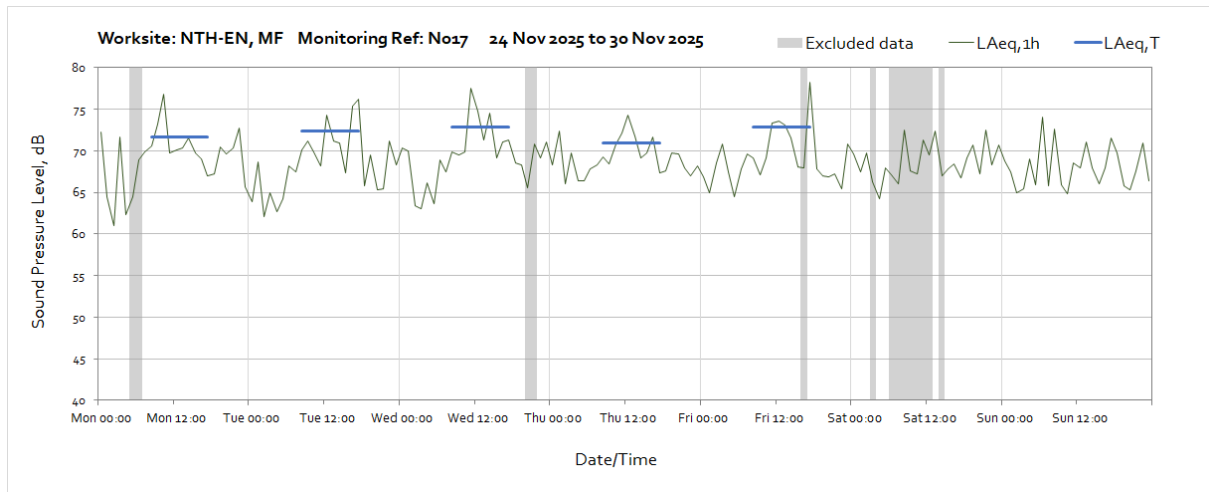
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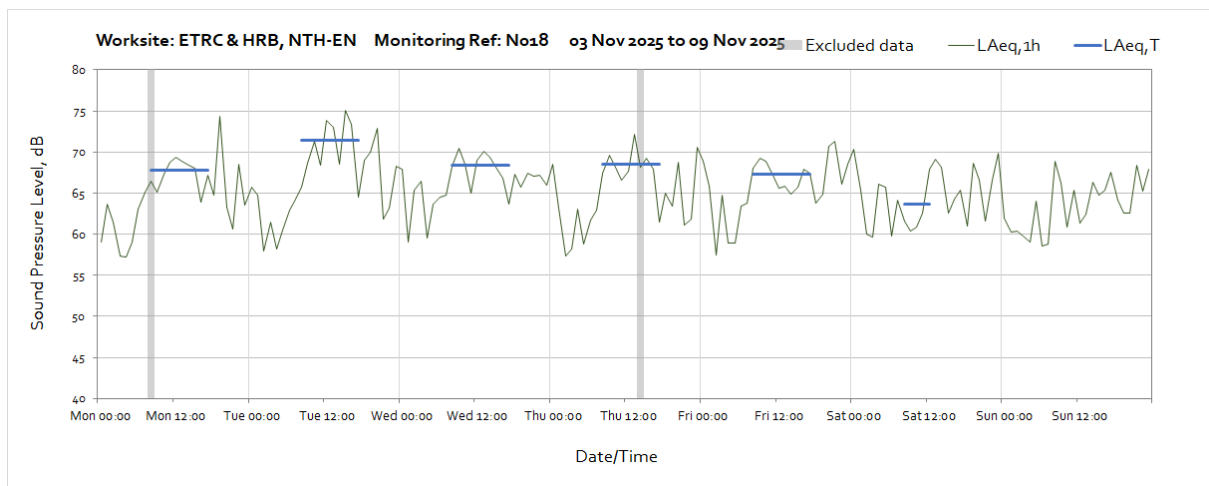
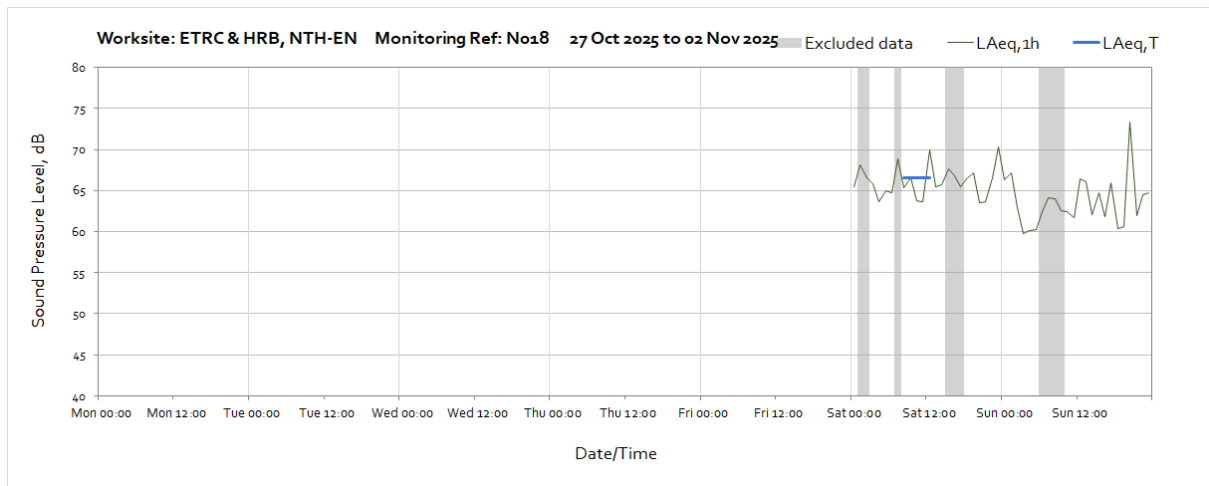
Worksite: NTH-EN, MF – Monitoring Ref: N017

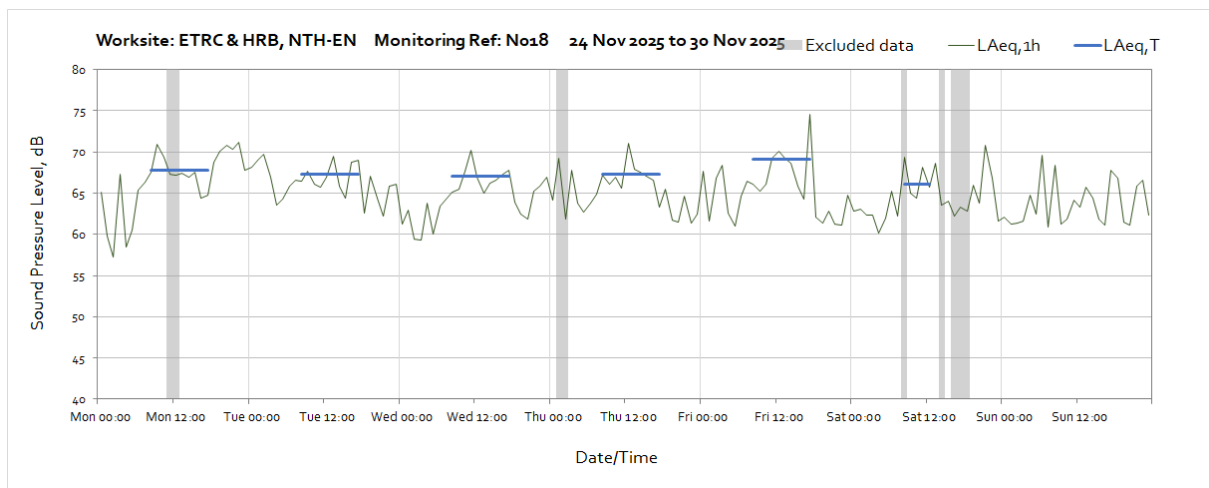
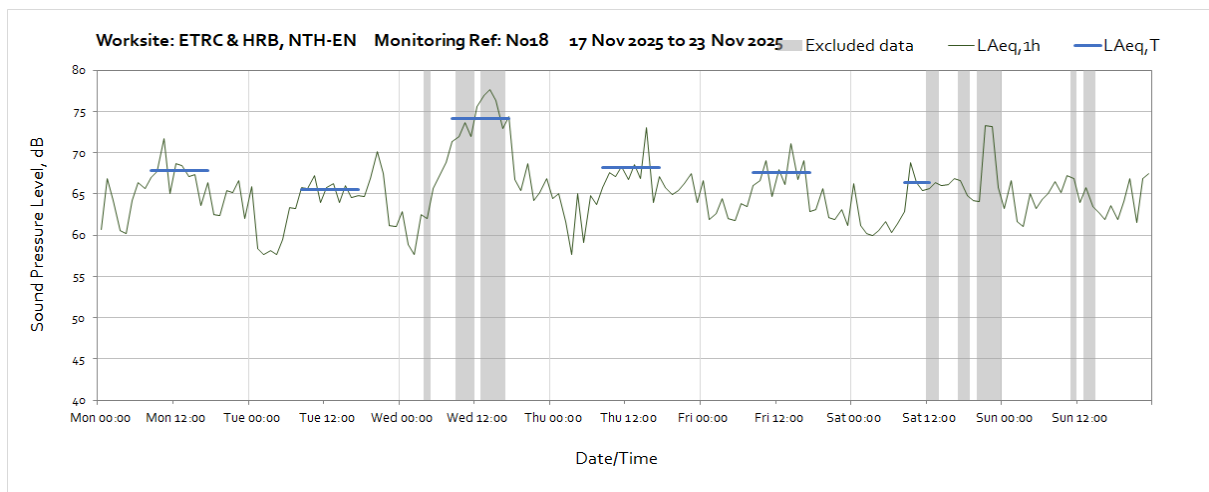
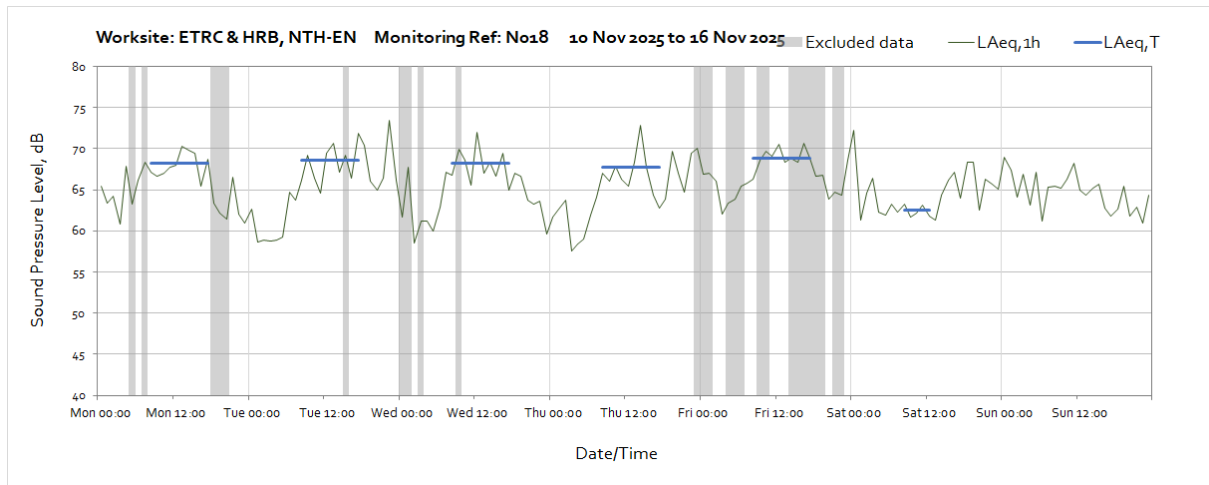




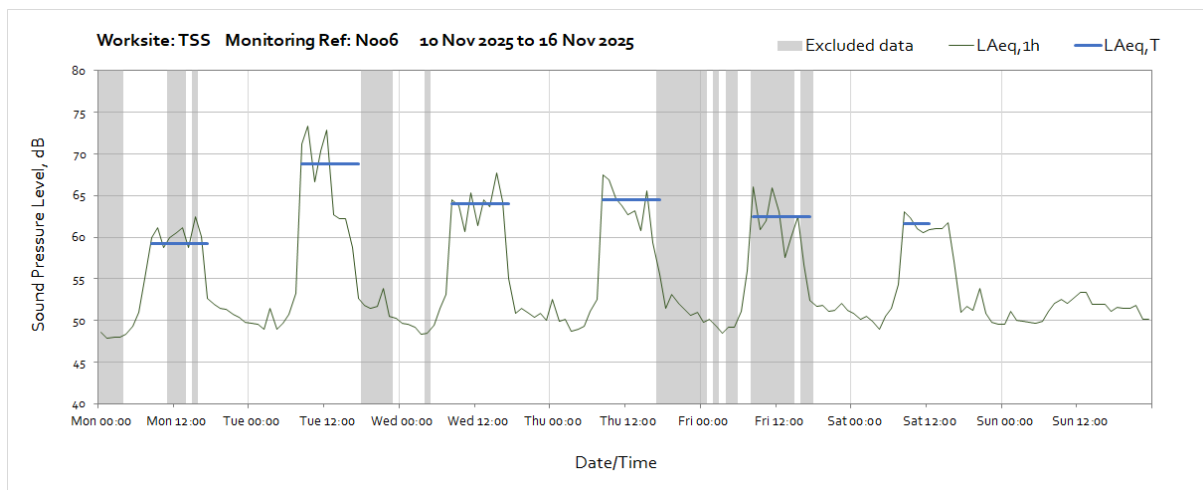
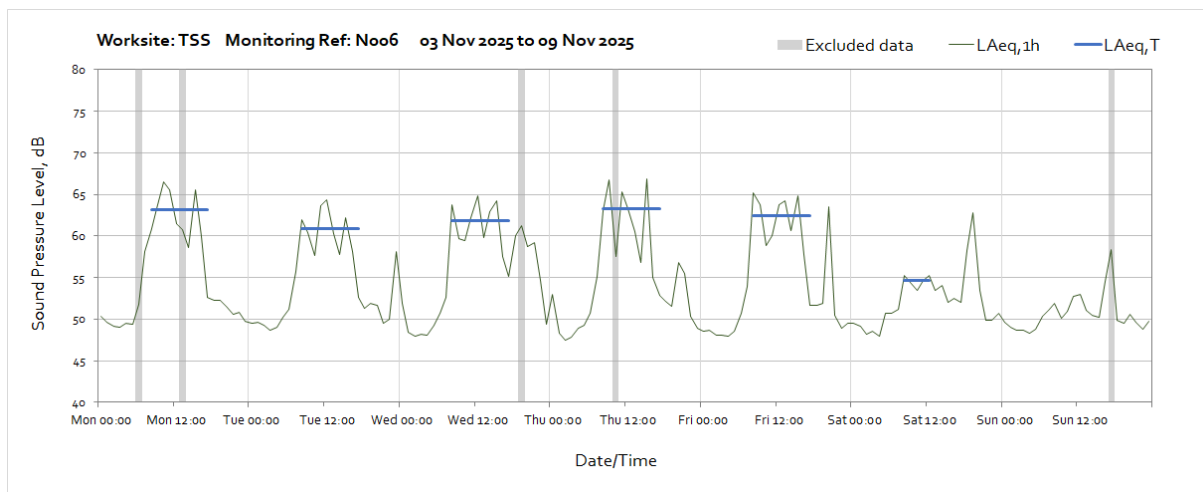
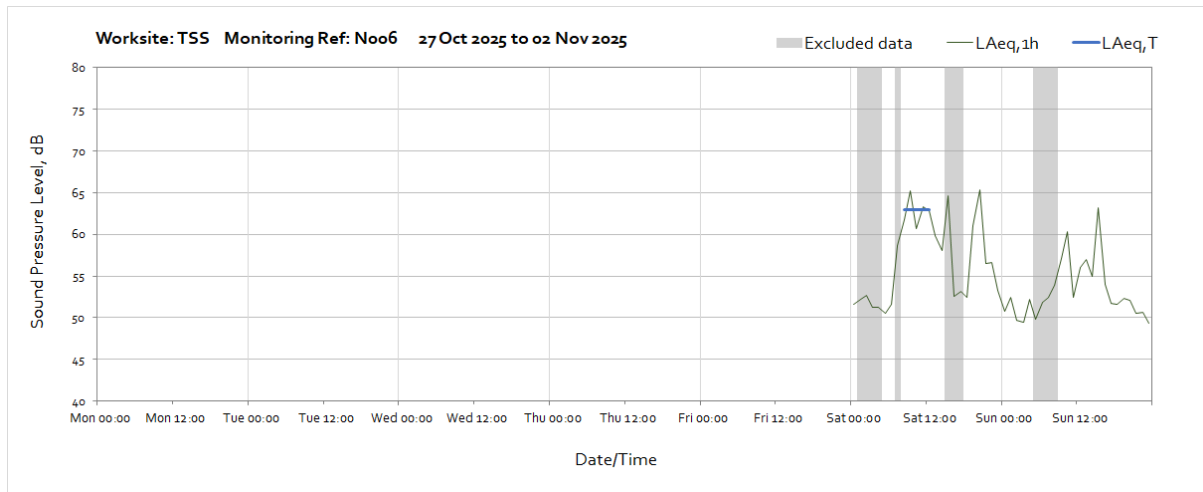


Worksite: ETRC & HRB, NTH-EN – Monitoring Ref: N018

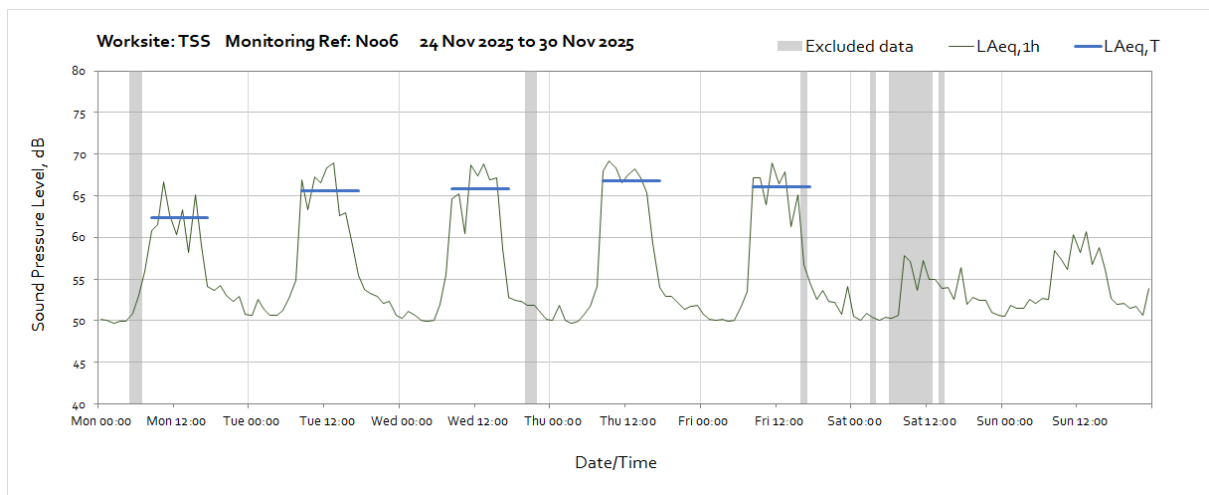
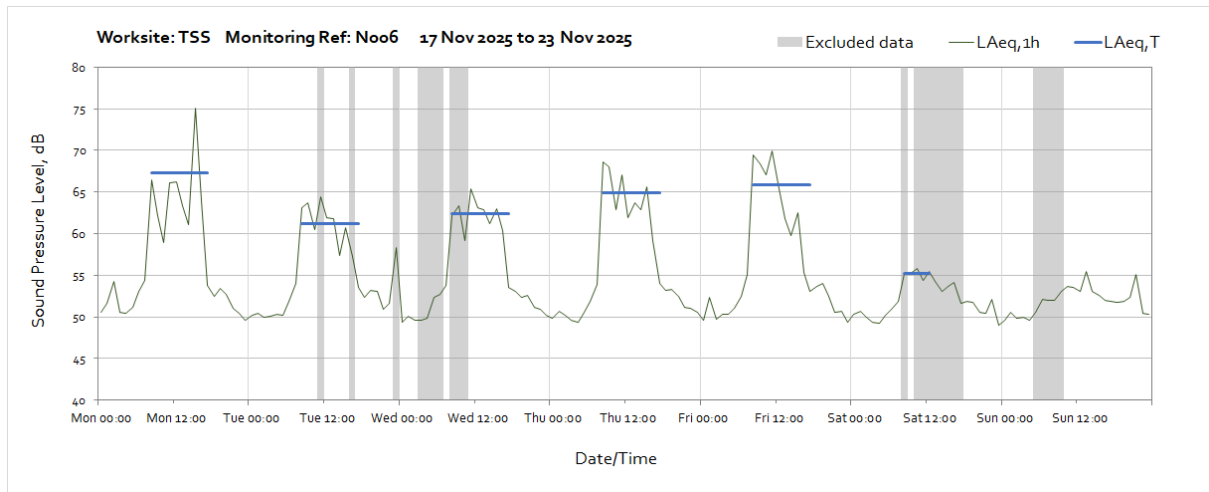




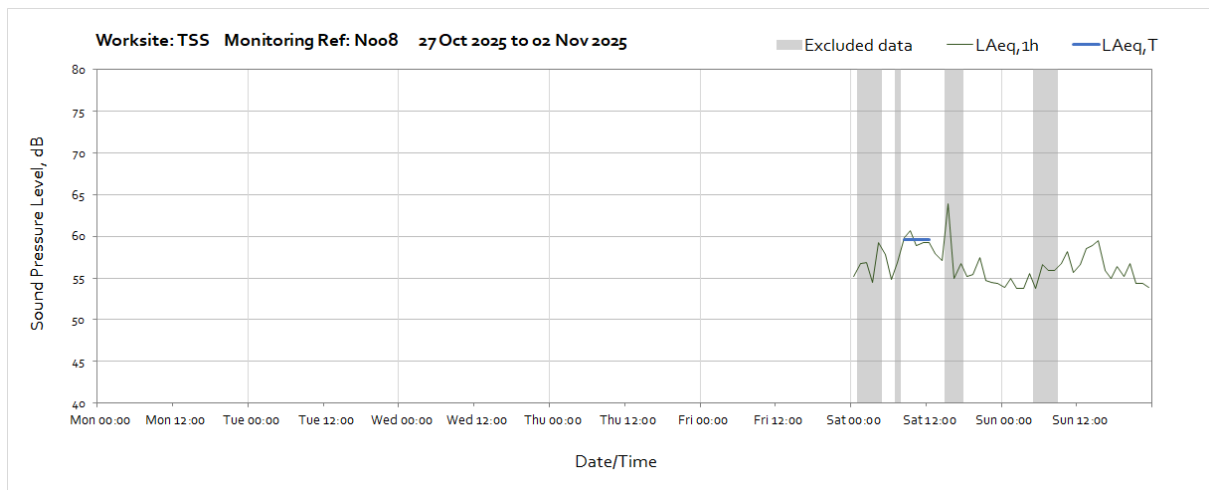
Worksite: TSS – Monitoring Ref: N006

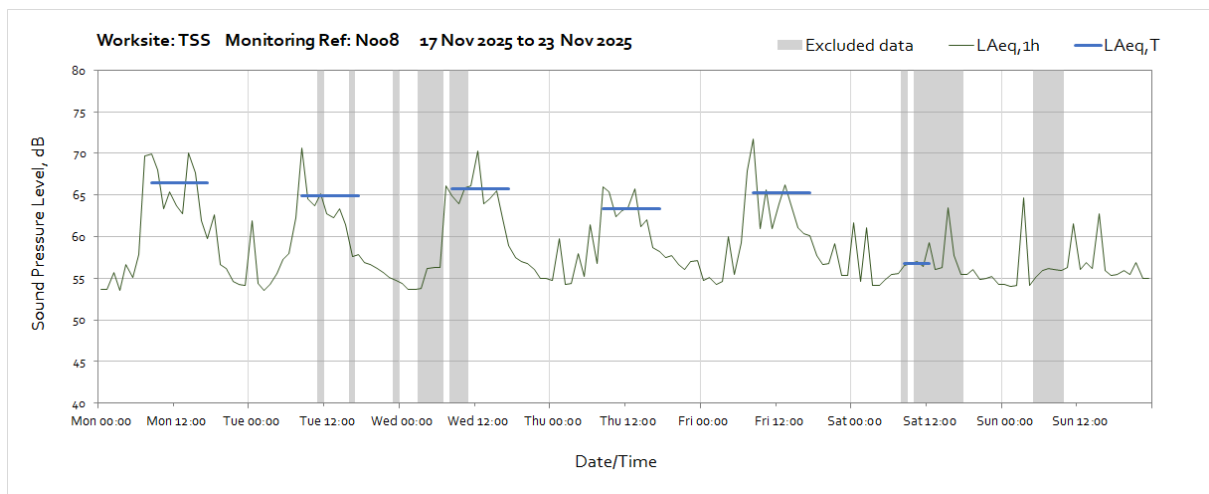
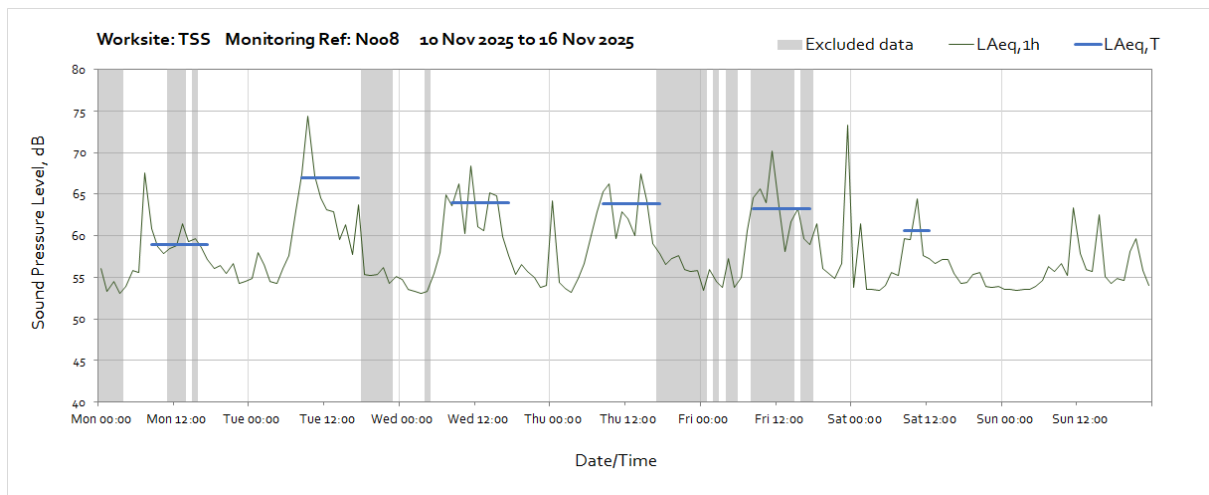
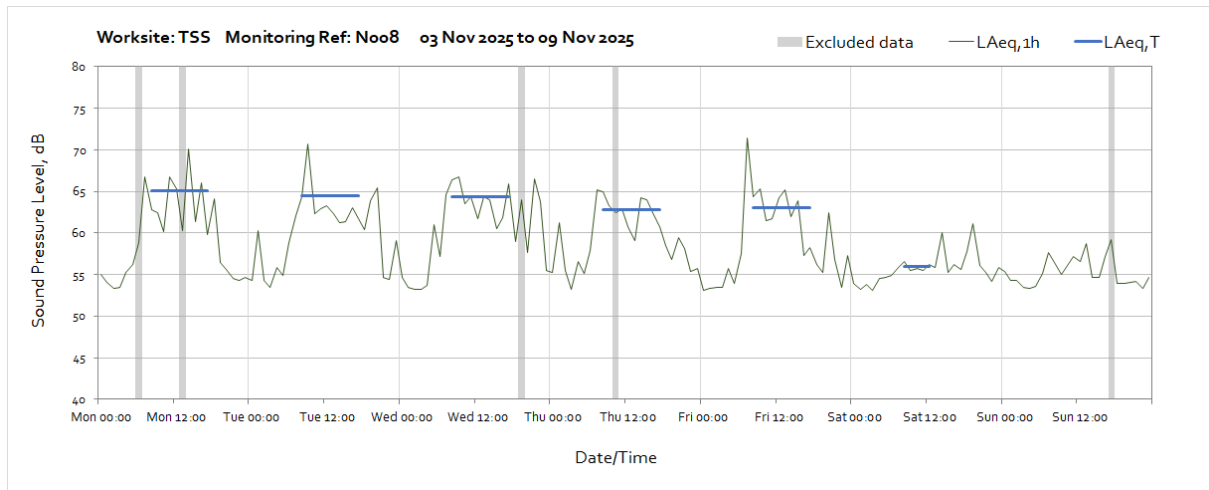


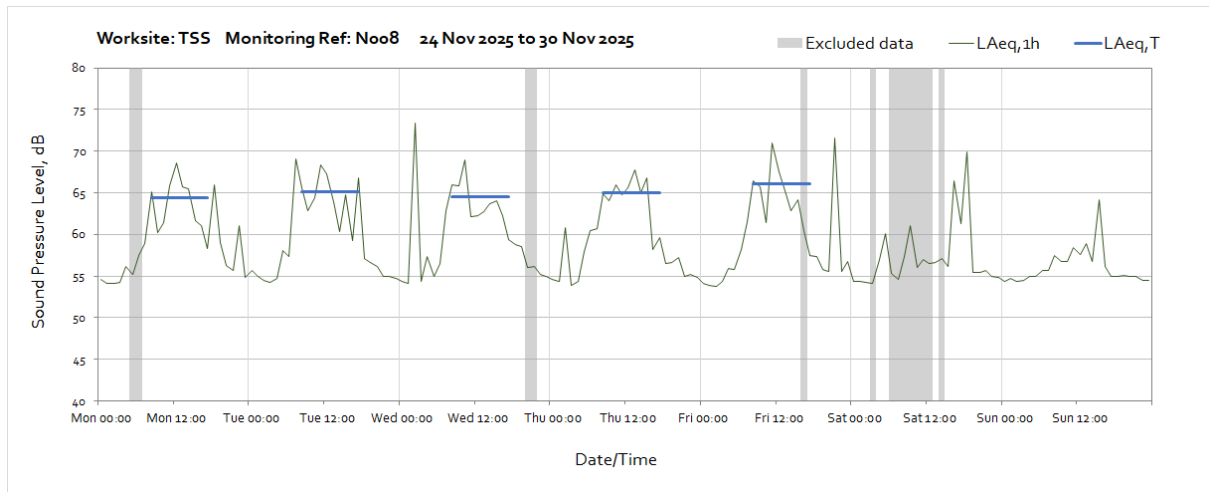
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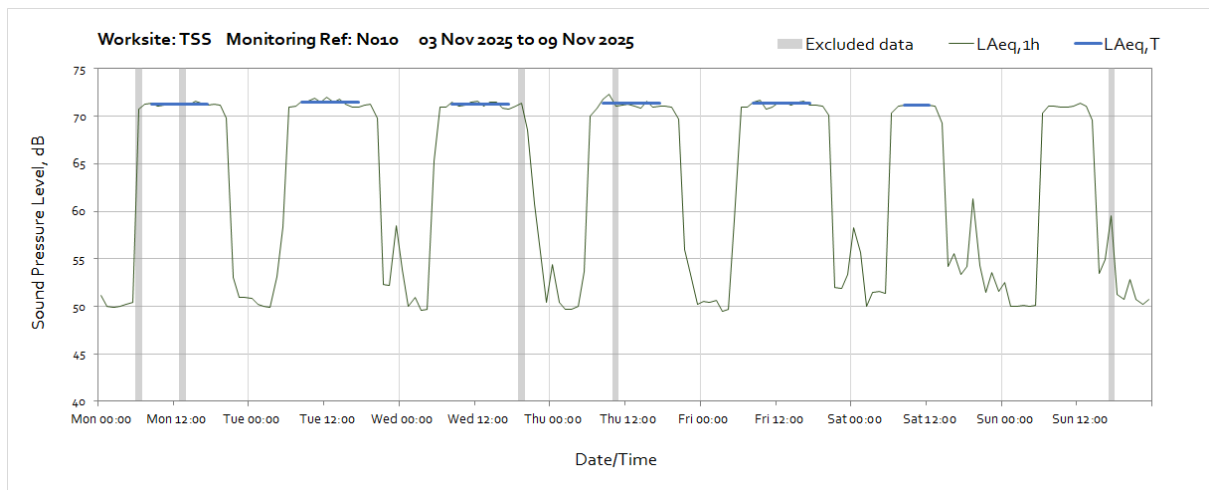
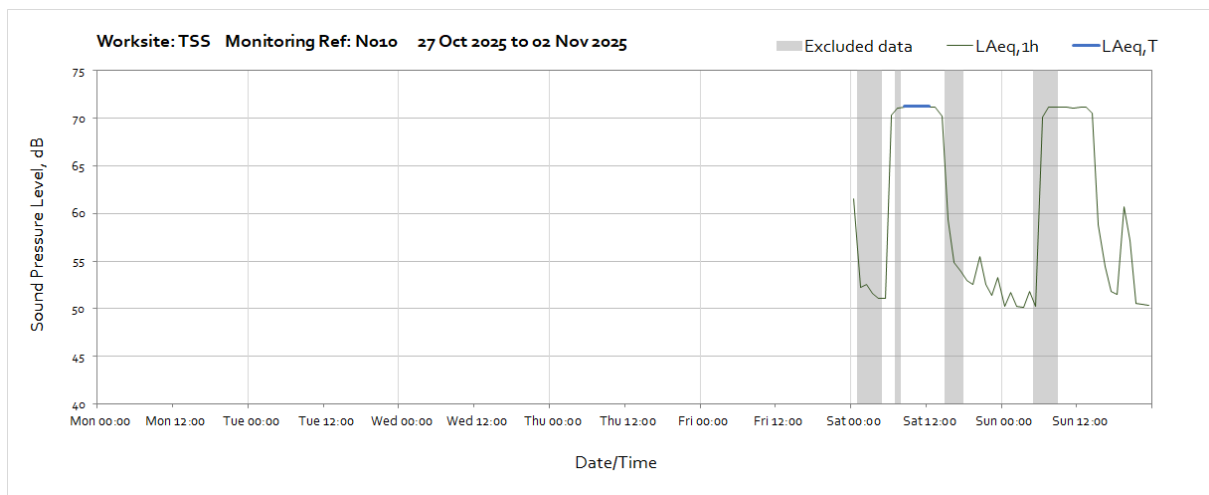
Worksite: TSS – Monitoring Ref: N008



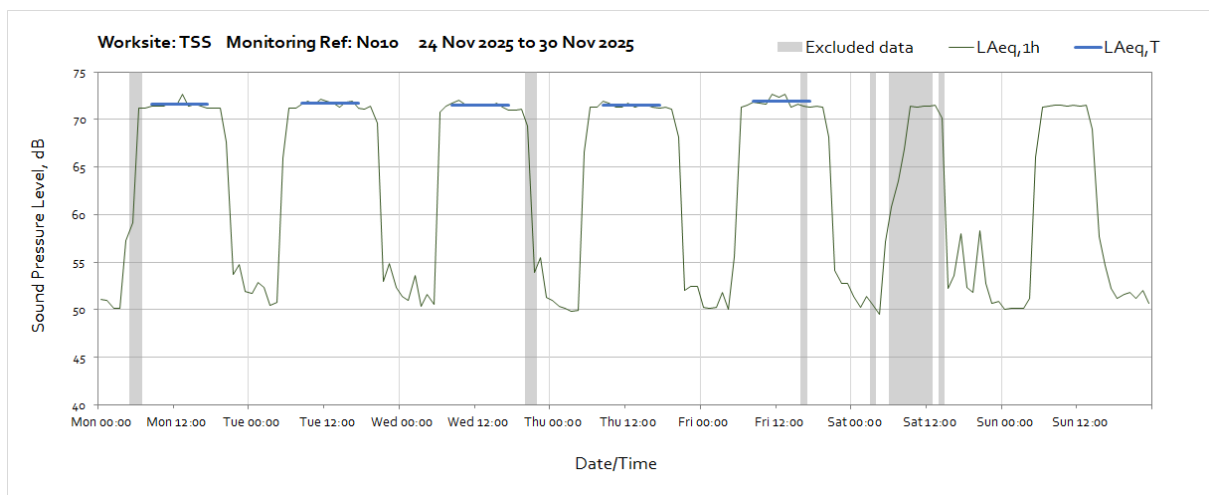
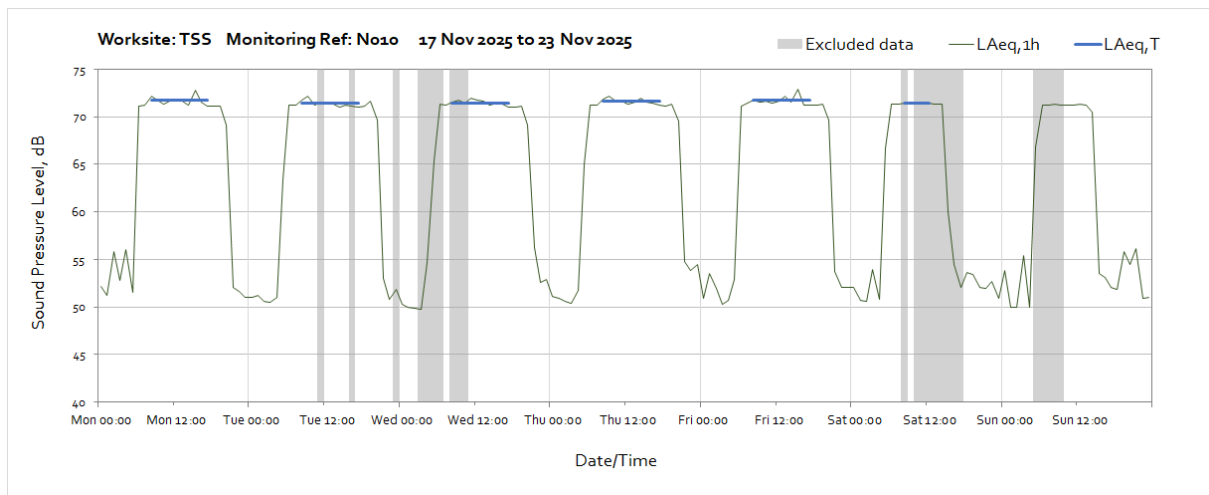
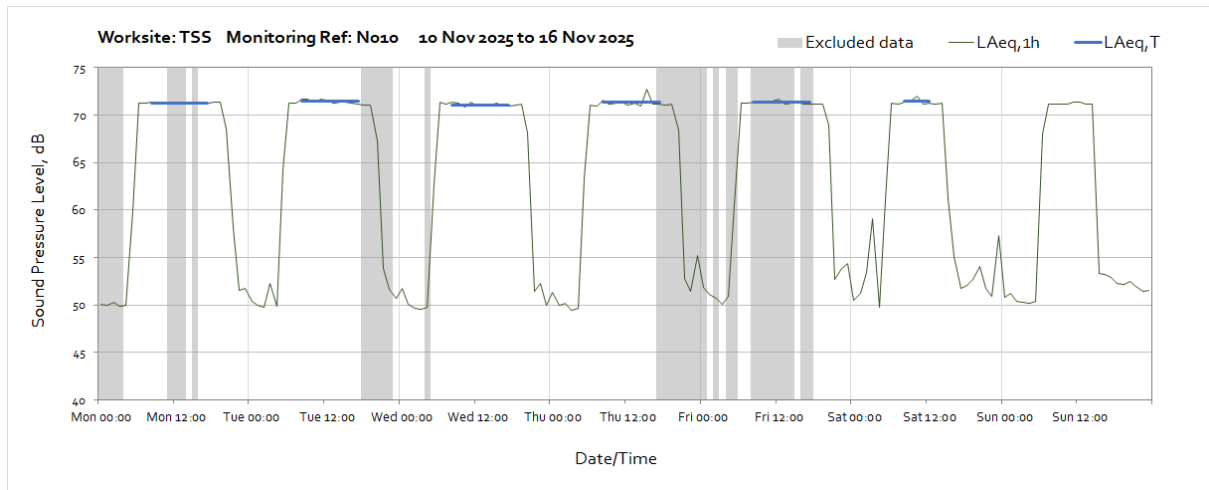




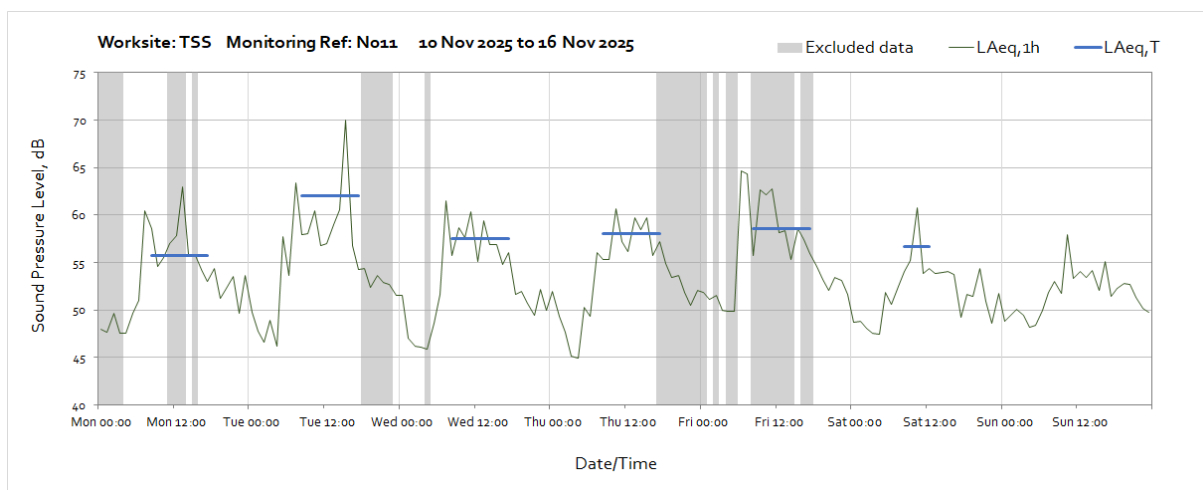
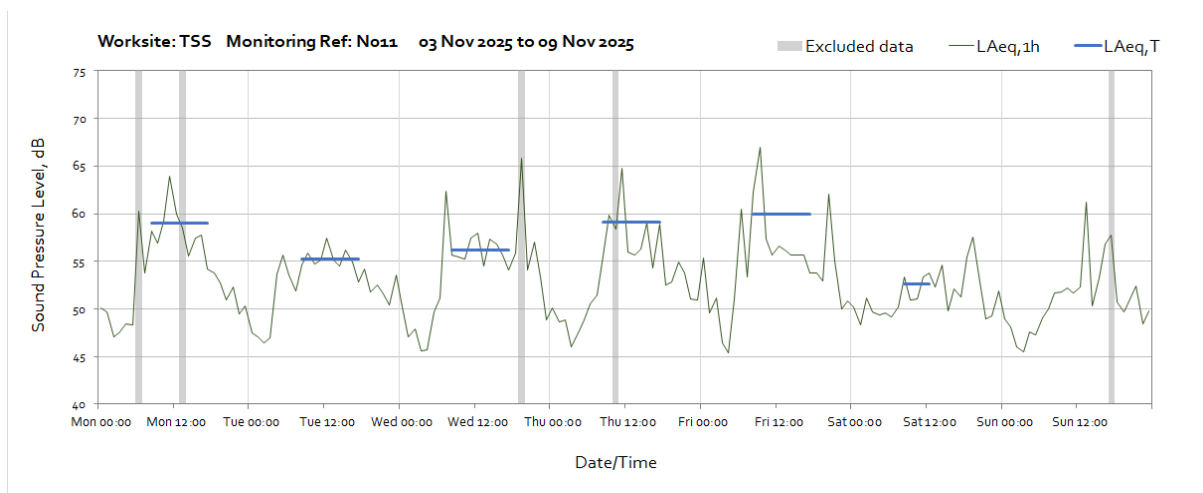
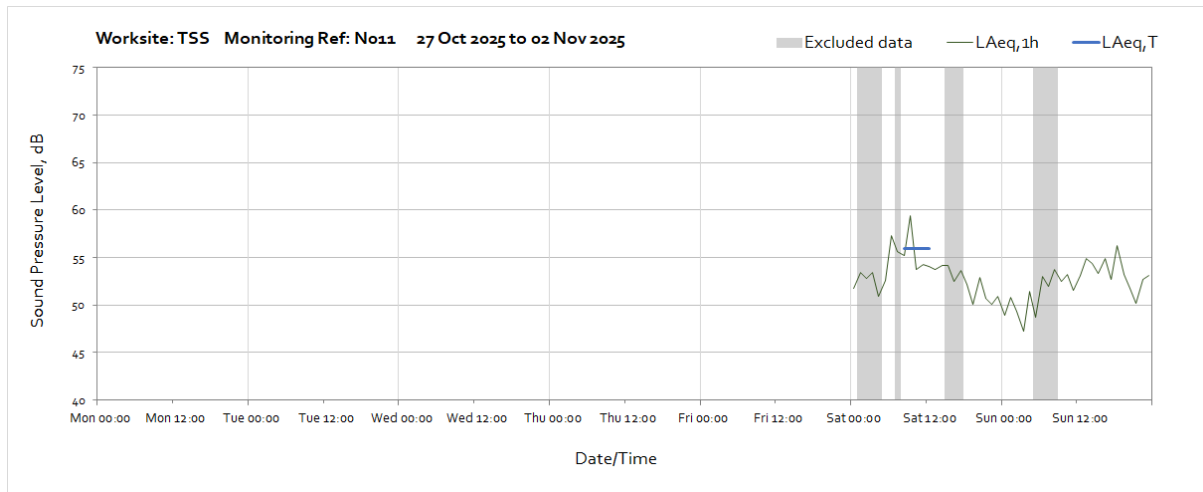
Worksite: TSS – Monitoring Ref: N010



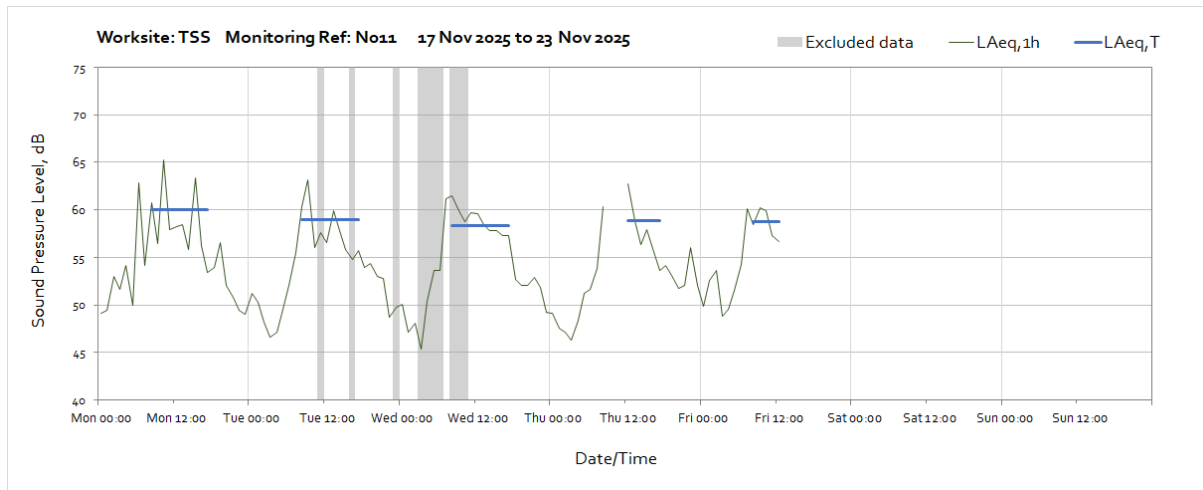
OFFICIAL



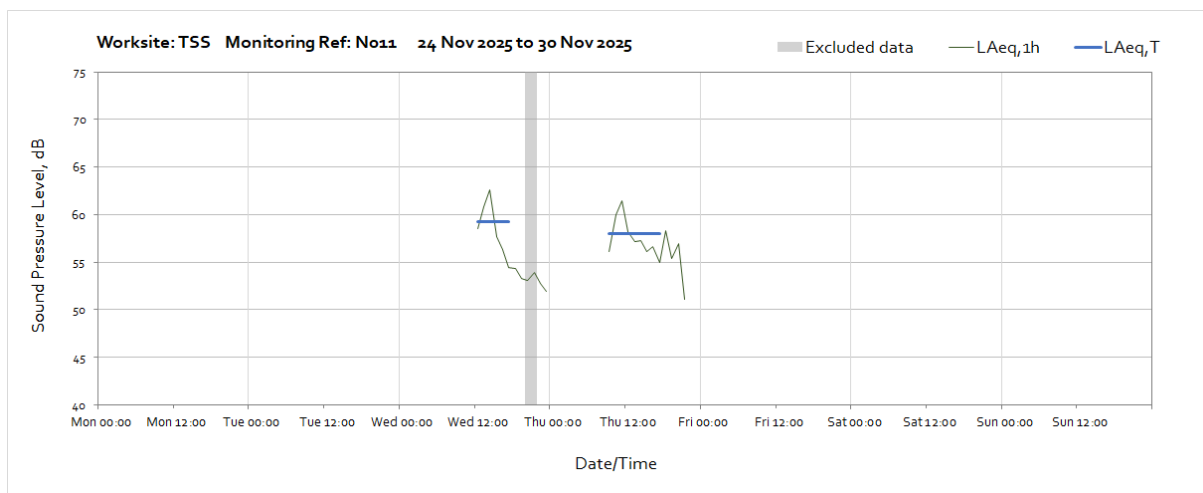
Worksite: TSS – Monitoring Ref: N011



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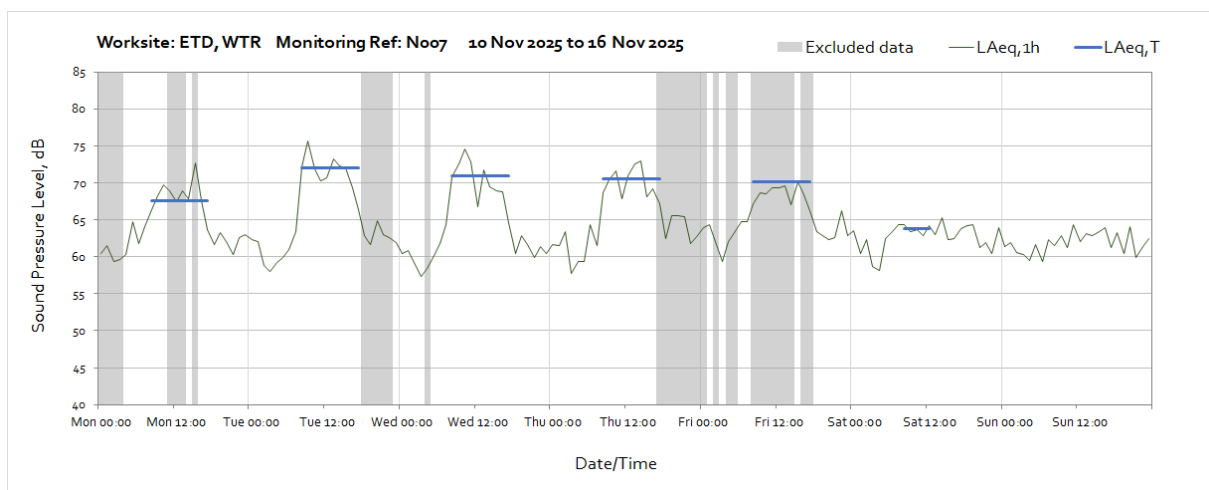
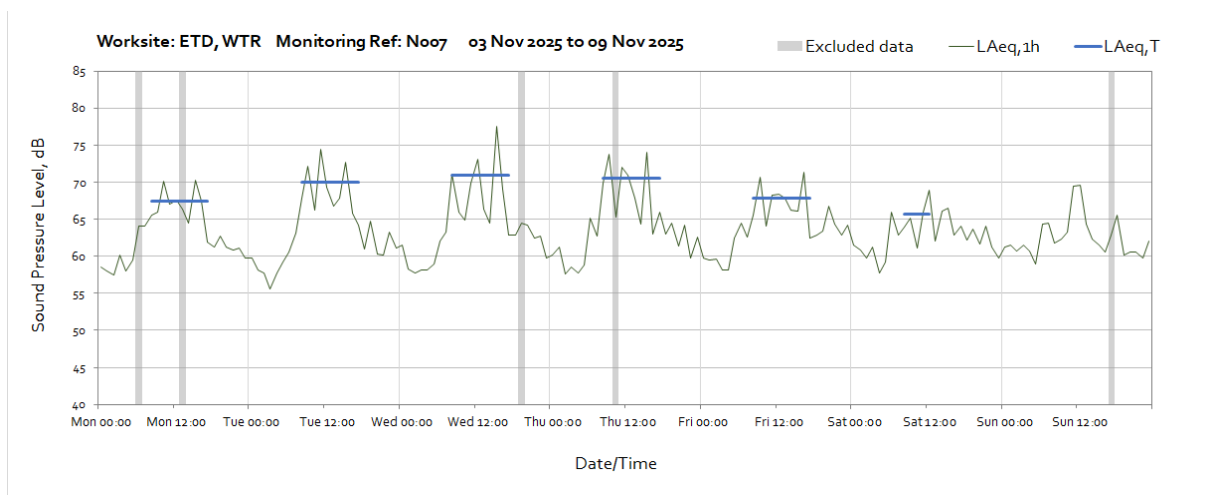
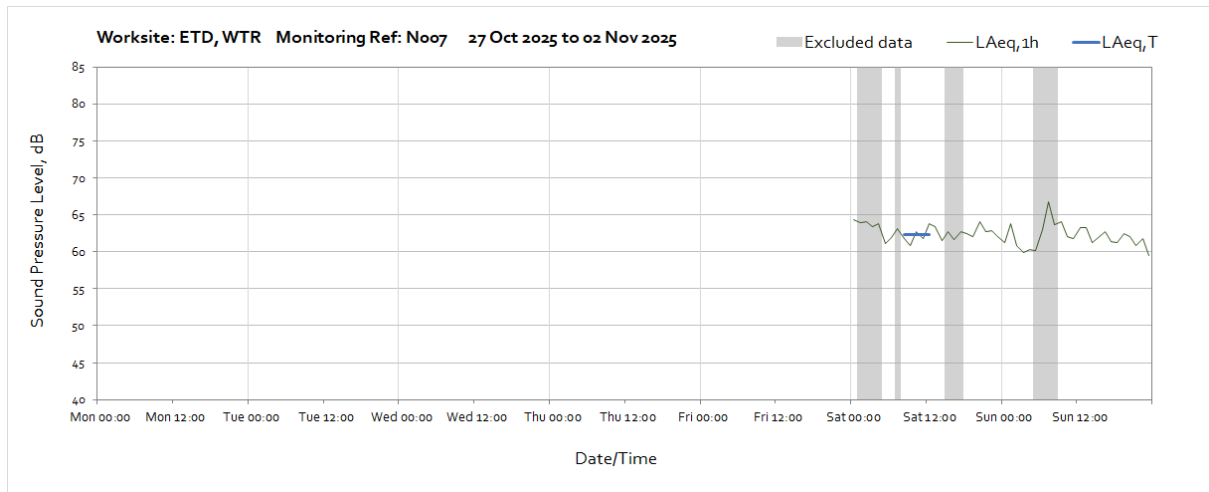


Note: Missing data between 09:00 and 12:00 on Thursday 20th November and between 13:00 on Friday 21st November and 12:00 on Wednesday 26th November was due to a monitoring station system error.

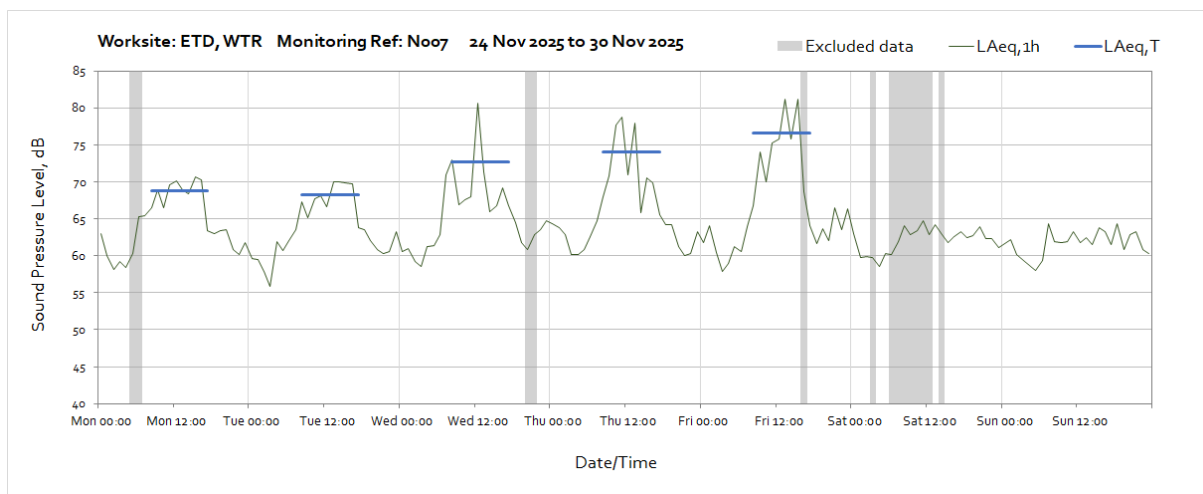
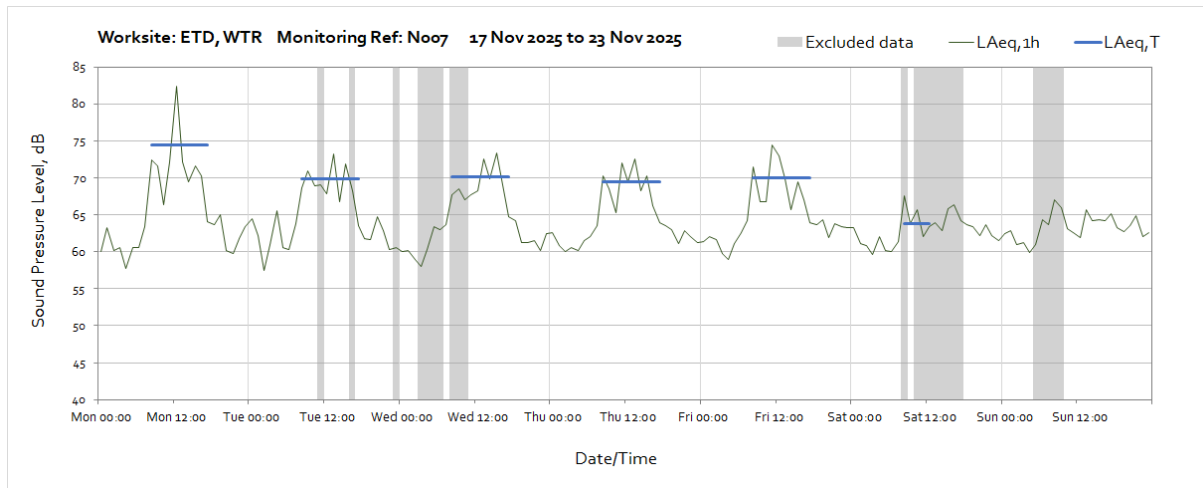


Note: Missing data between 13:00 on Friday 21st November and 12:00 on Wednesday 26th November and between 00:00 and 09:00 on Thursday 27th November and between 22:00 on Thursday 27th November and the end of the month was due to a monitoring station system error.

Worksite: ETD, WTR – Monitoring Ref: N007



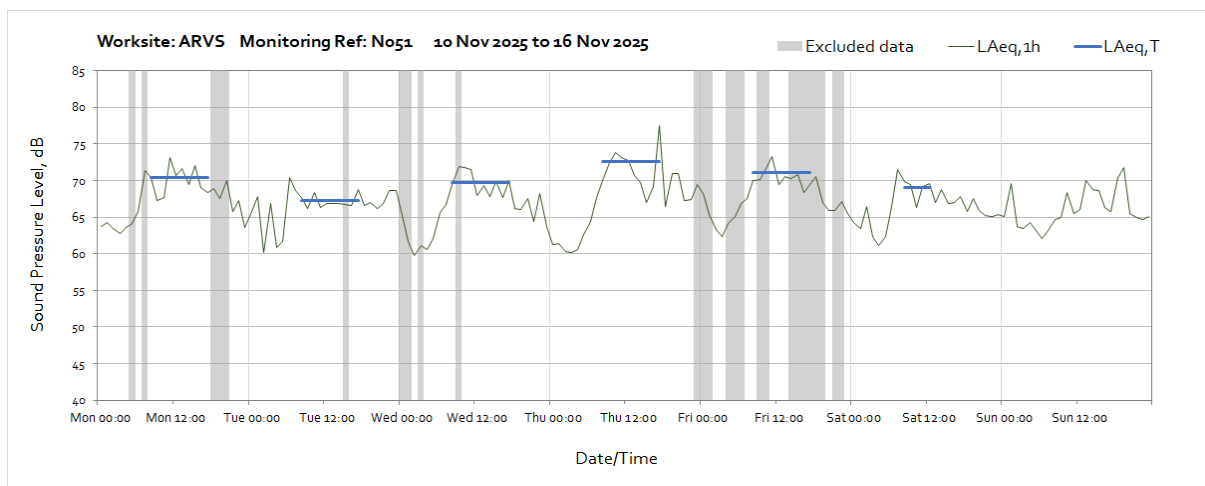
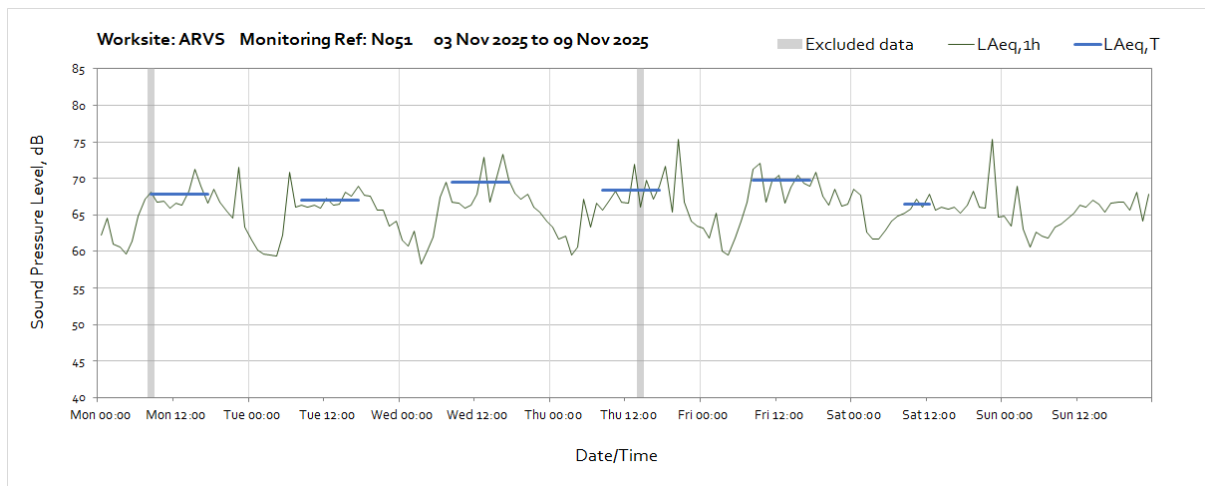
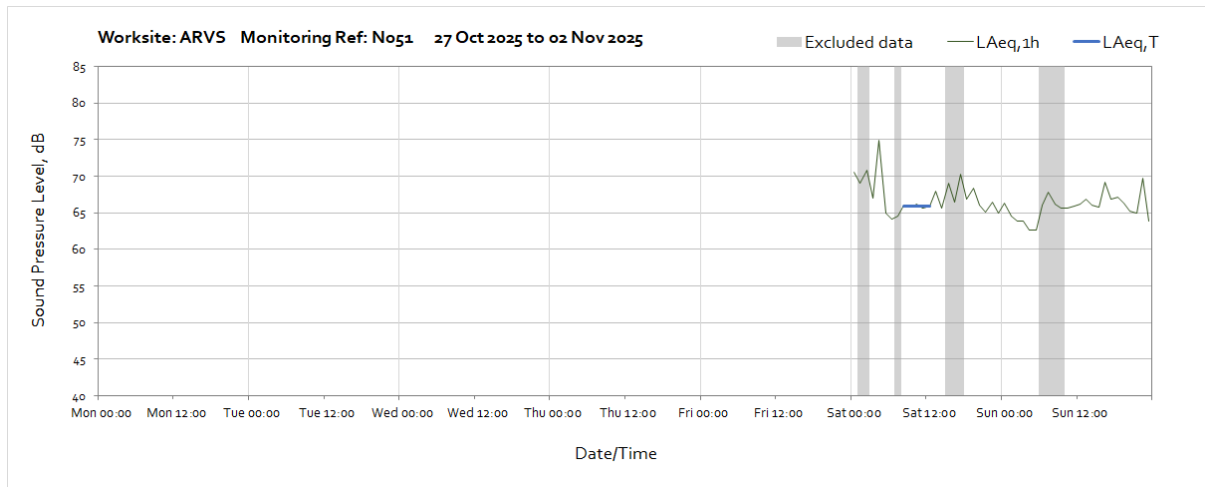
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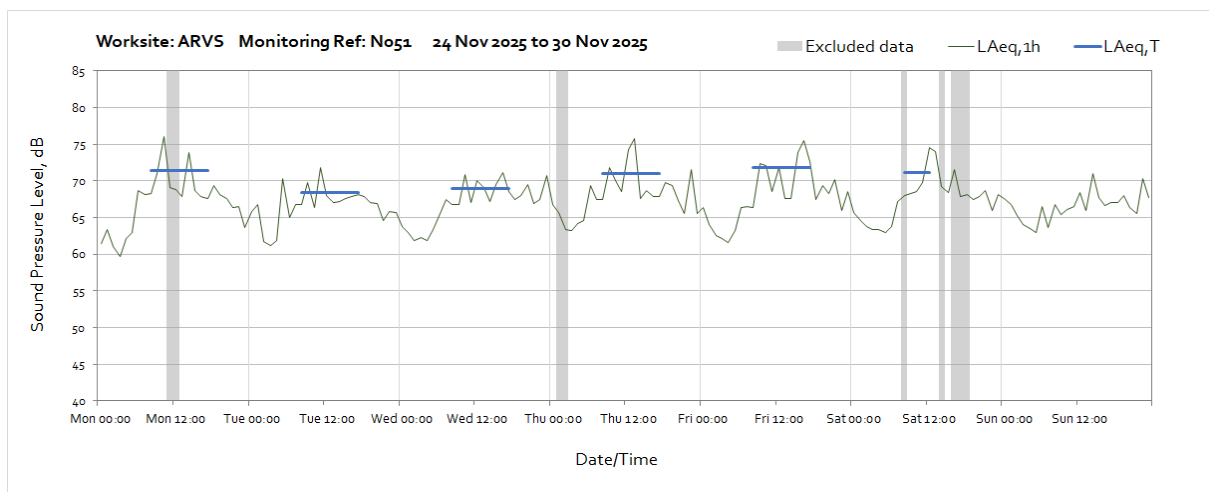
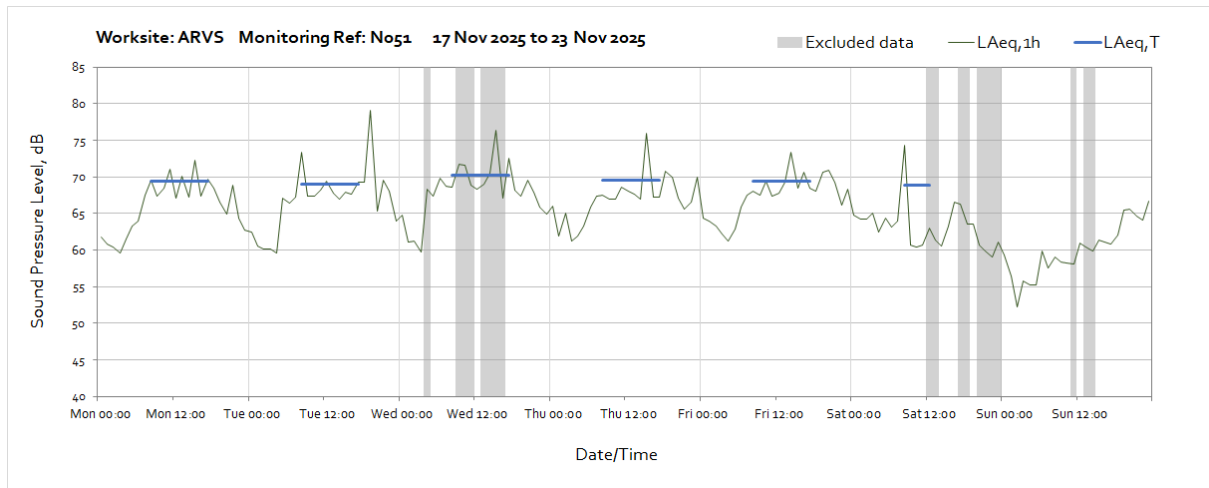
Worksite: Vehicle Holding Area (VHA) – Monitoring Ref: N025

Note: No data measured throughout the month due to loss of power to the lighting column which supplies power to the monitoring station

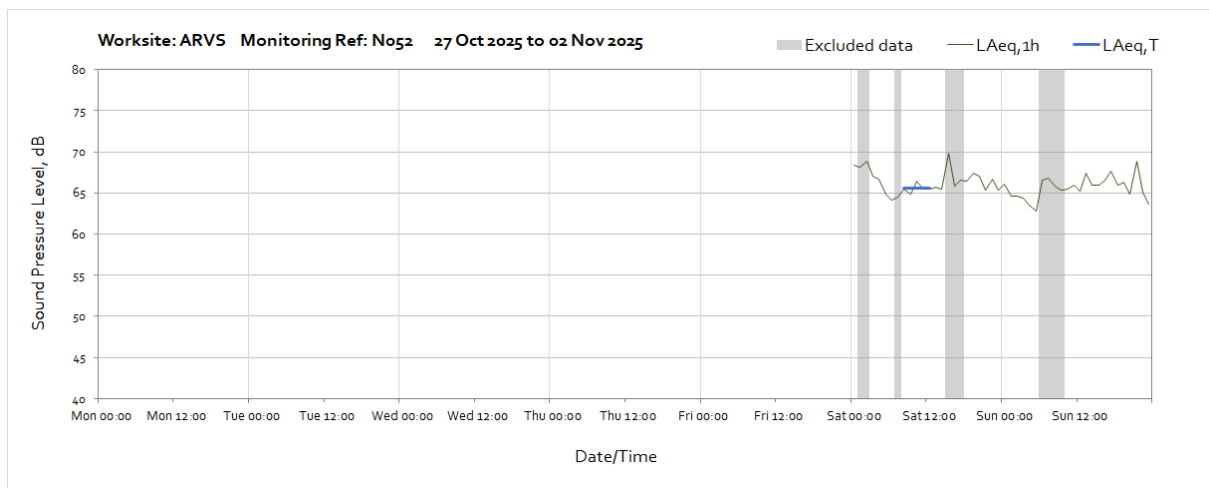
Worksite: Adelaide Road Ventilation Shaft (ARVS) – Monitoring Ref: N051

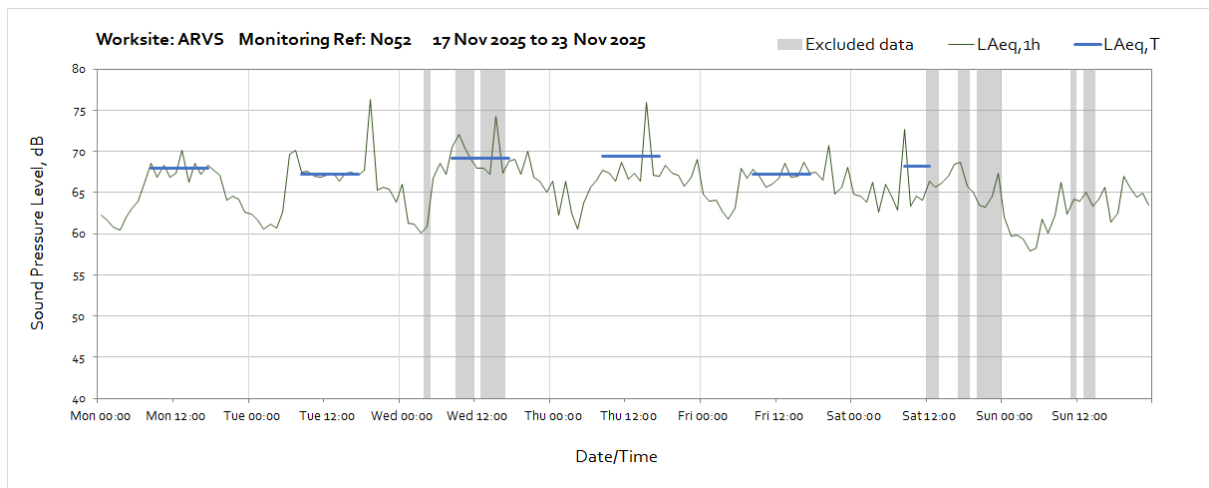
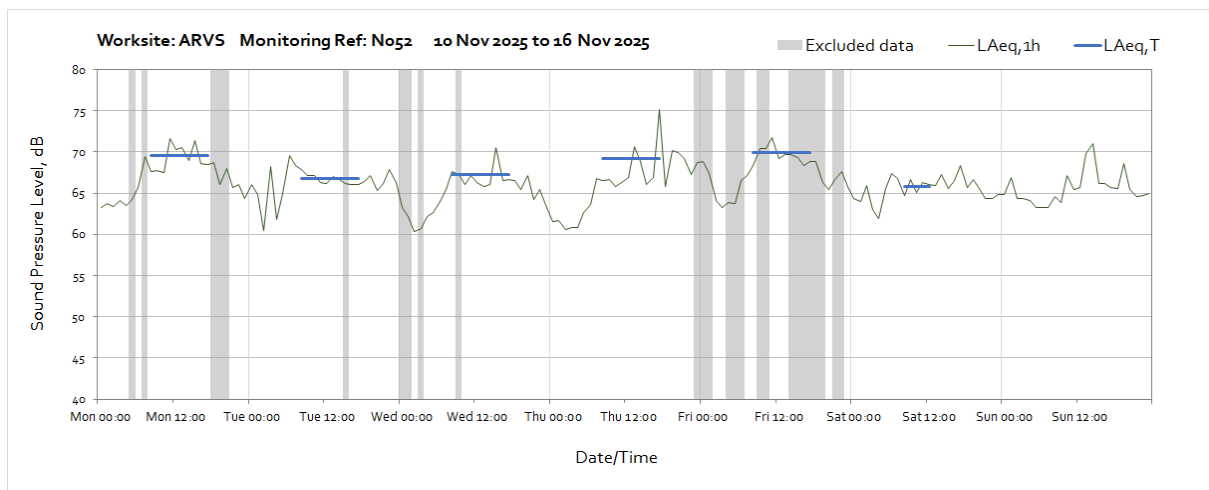
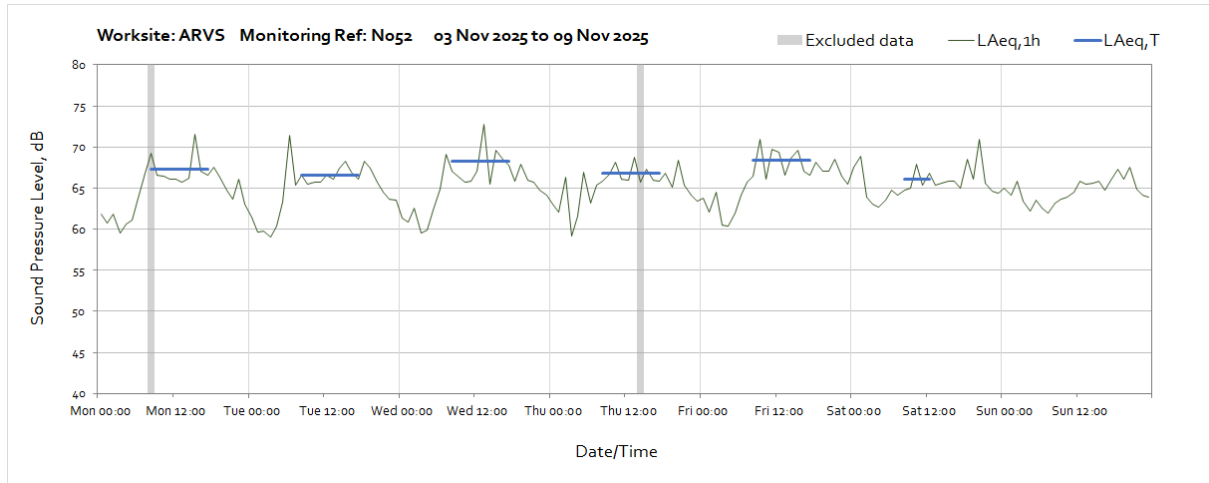


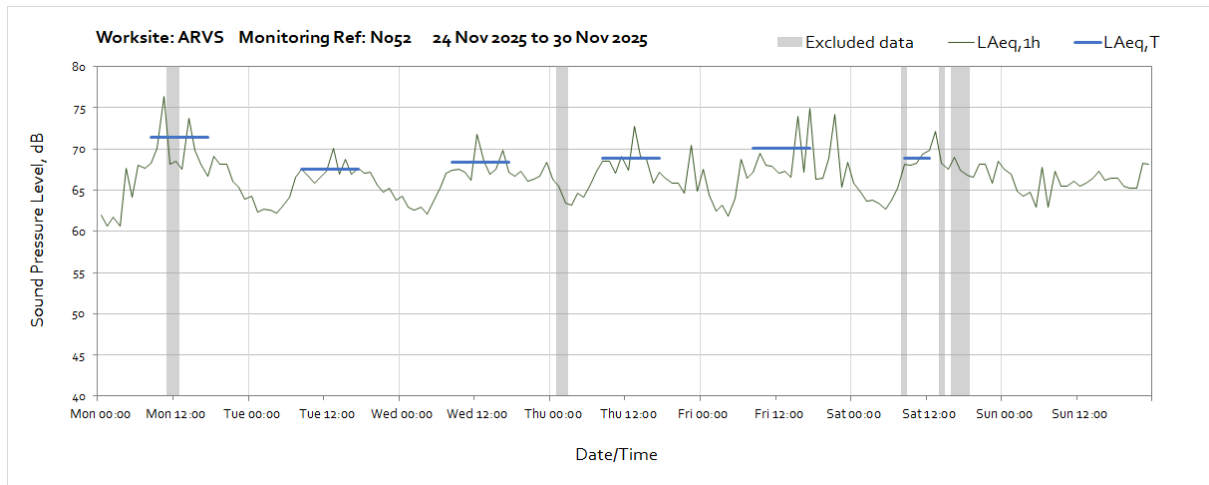
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Worksite: Adelaide Road Ventilation Shaft (ARVS) – Monitoring Ref: N052



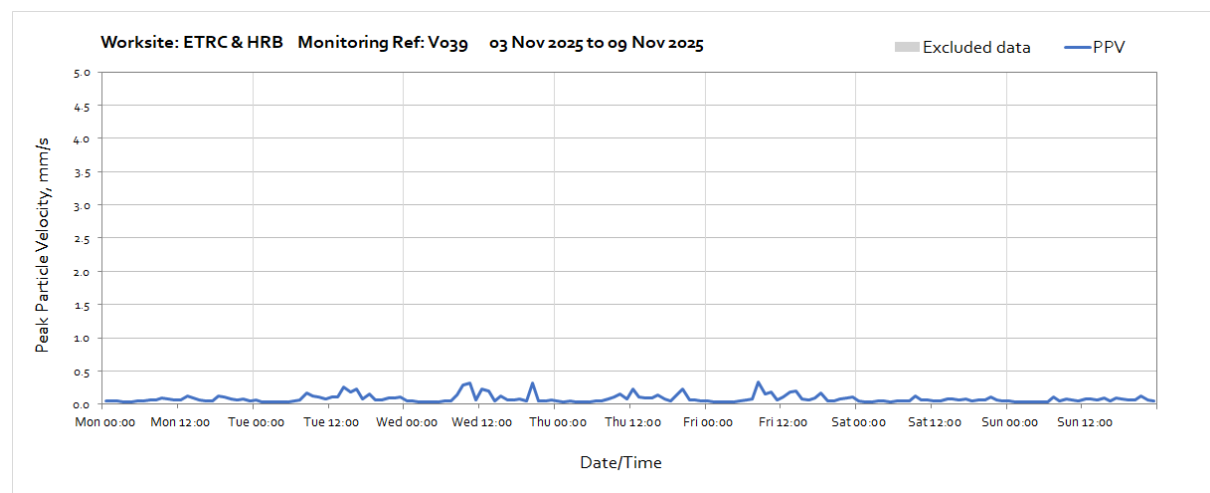
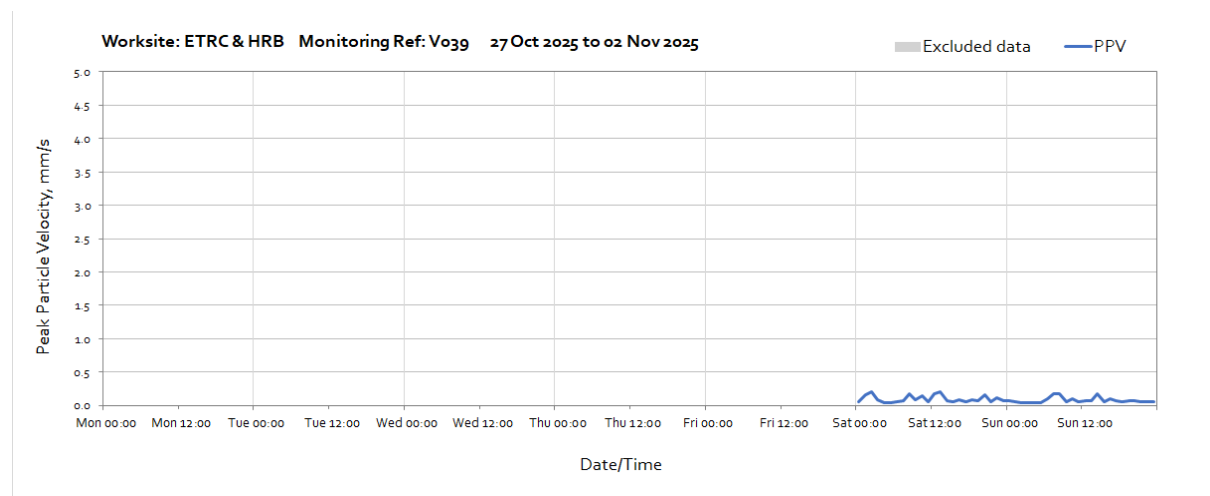


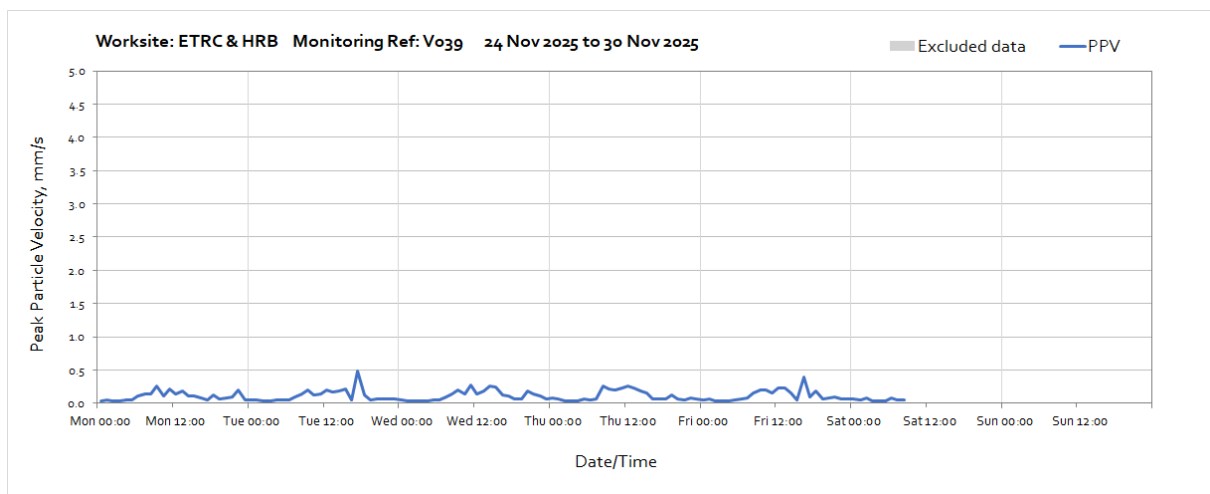
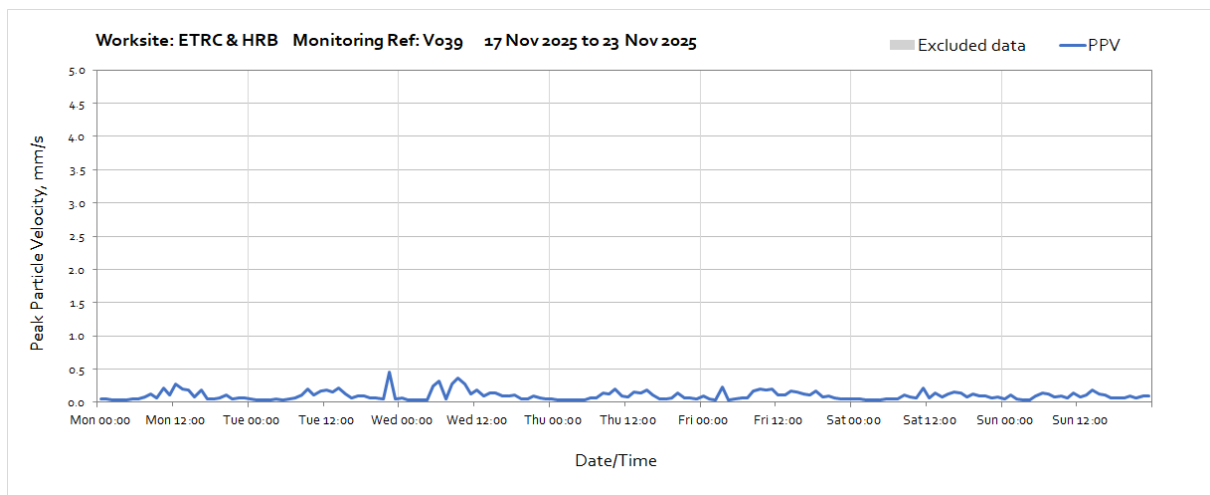
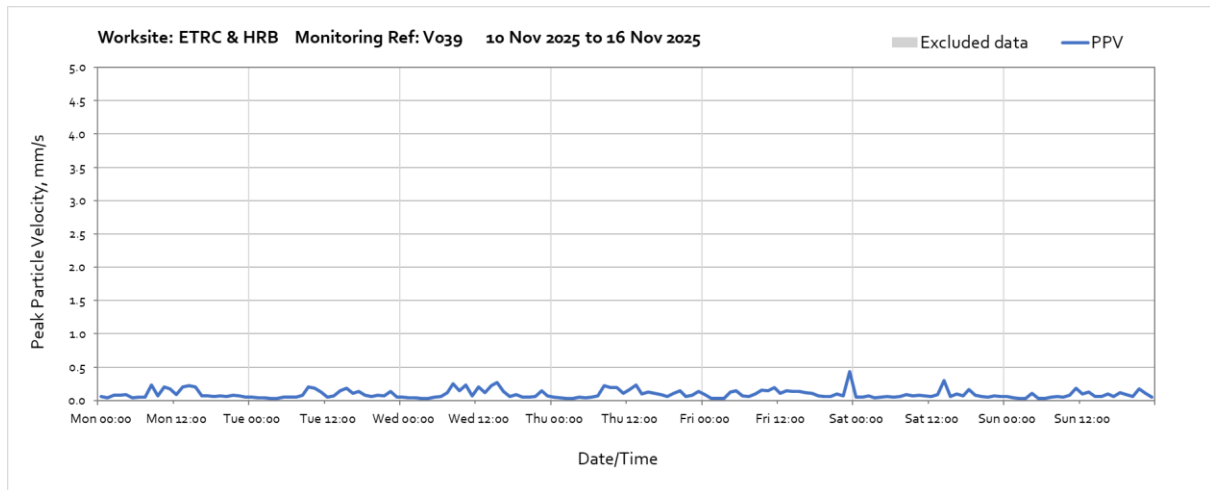


Vibration

The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axes x, y and z . Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part of the period, which are not representative of HS2 construction works , have been greyed out and excluded when calculating values in Table 4 of the main report.

Worksite: ETRC & HRB – Monitoring Ref: V039

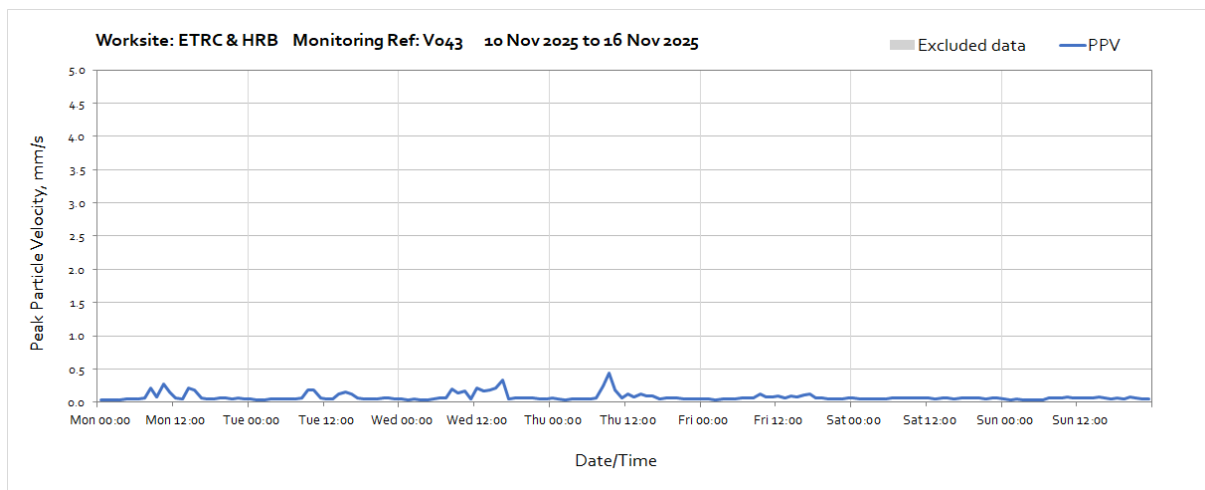
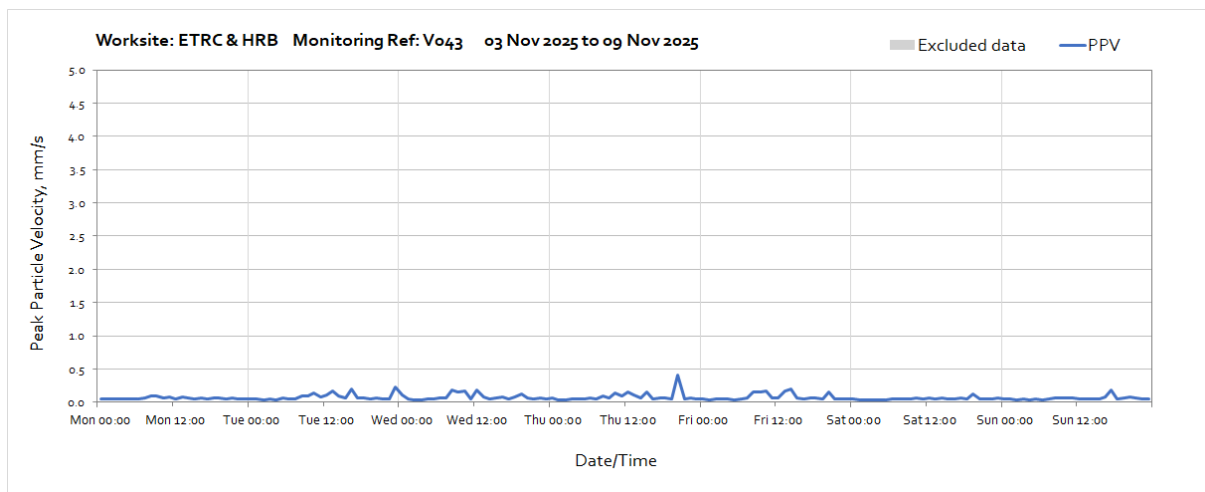
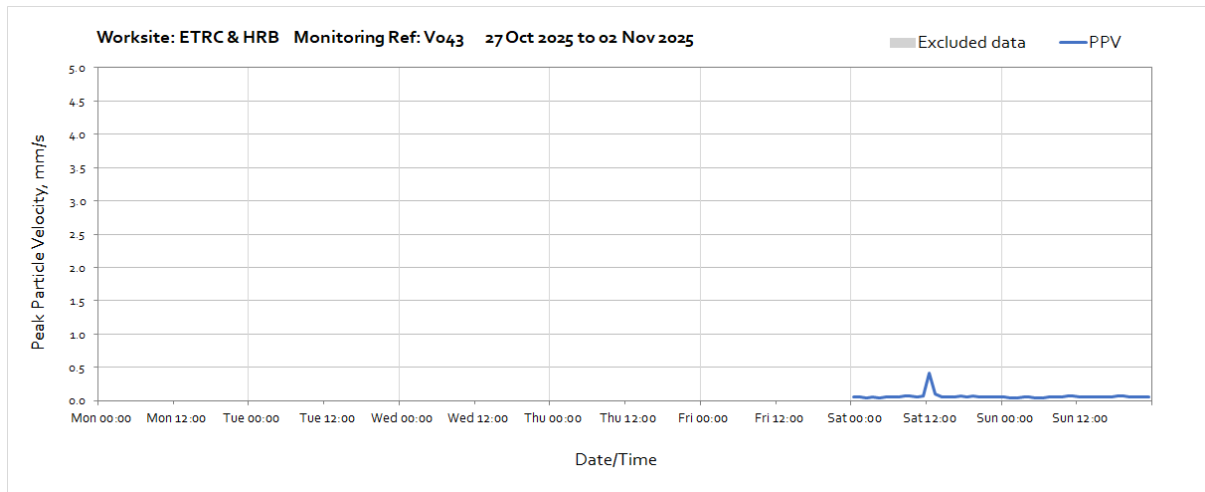




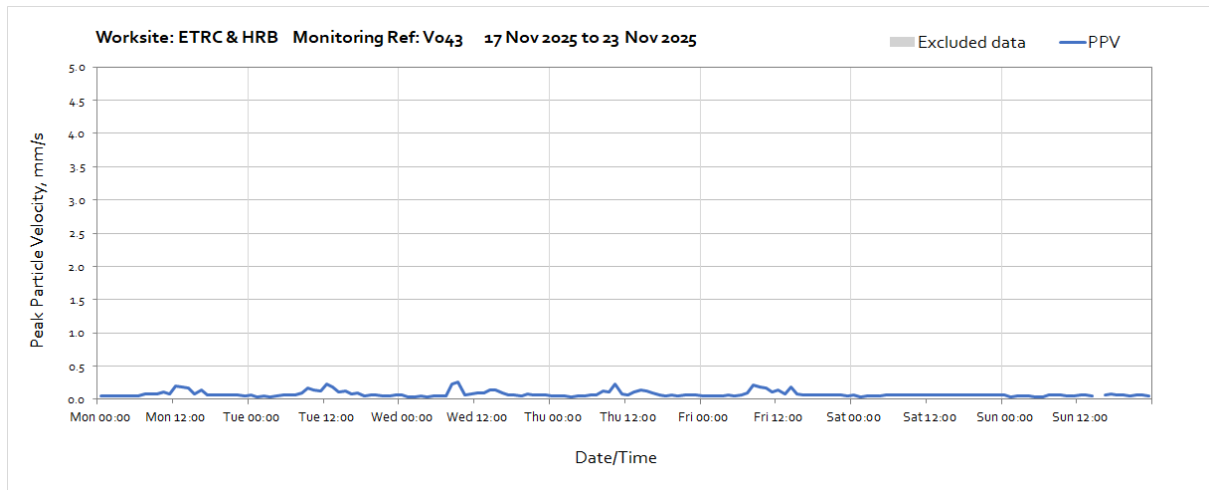
Note: Missing data between 09:00 on Saturday 29th November and the end of the month was due to a loss of power at the monitoring station.

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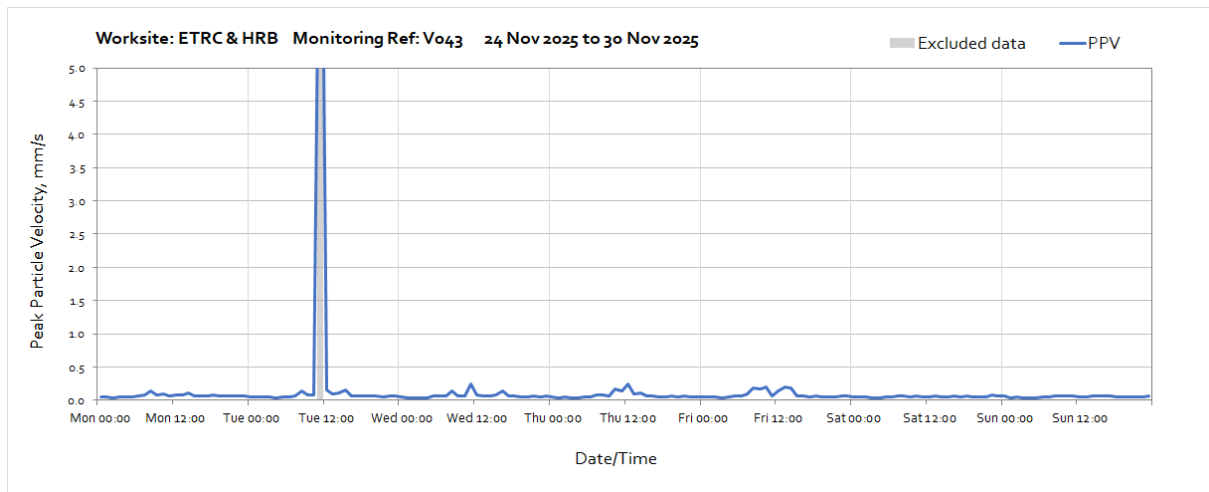
Worksite: ETRC & HRB – Monitoring Ref: V043



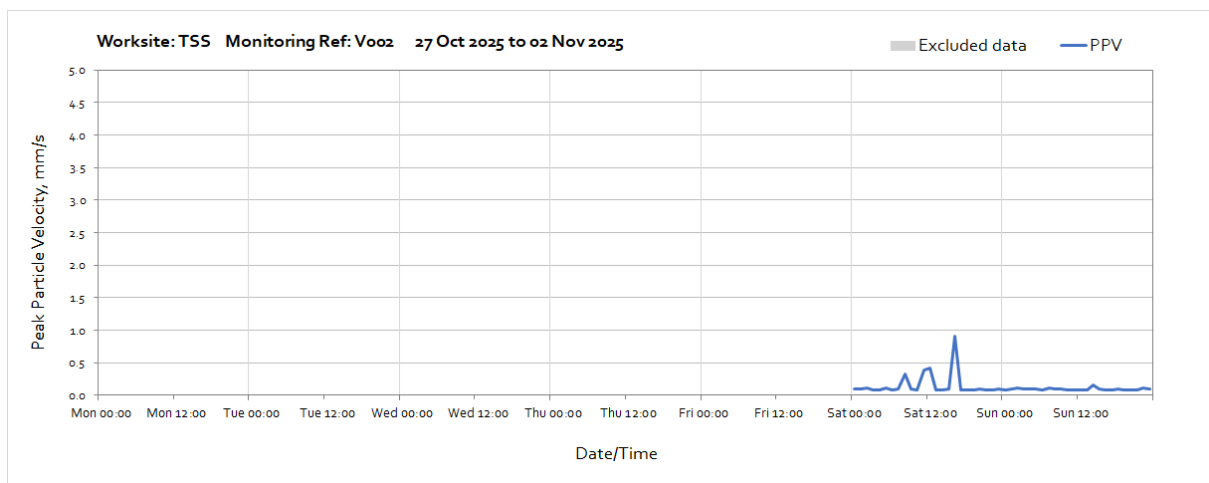
OFFICIAL

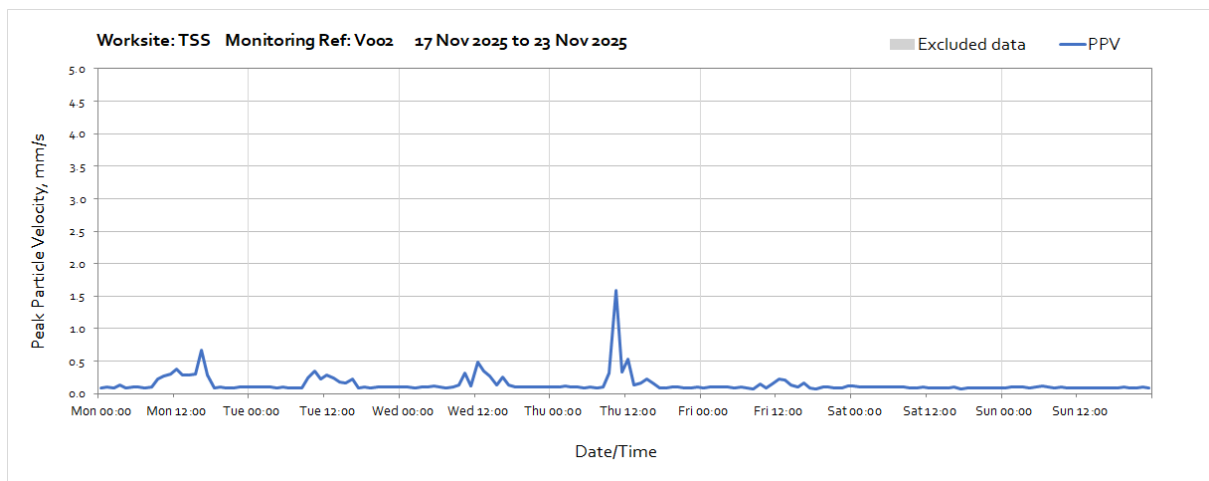
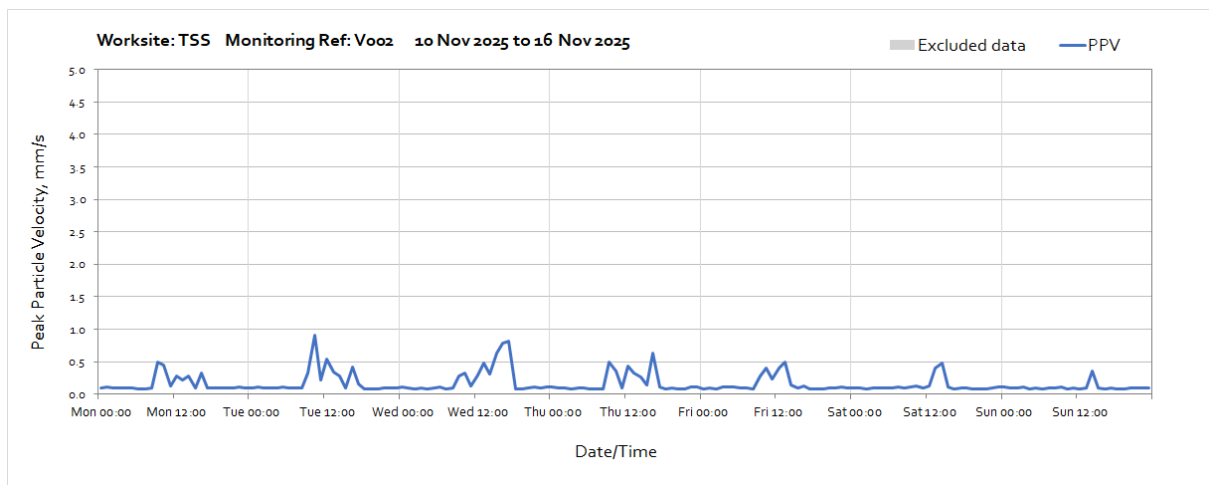
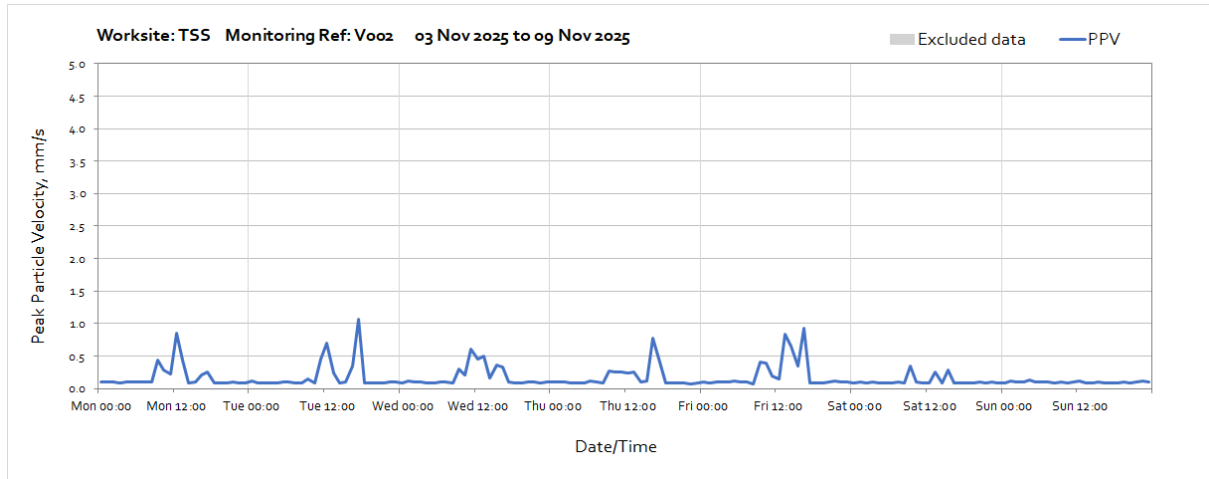


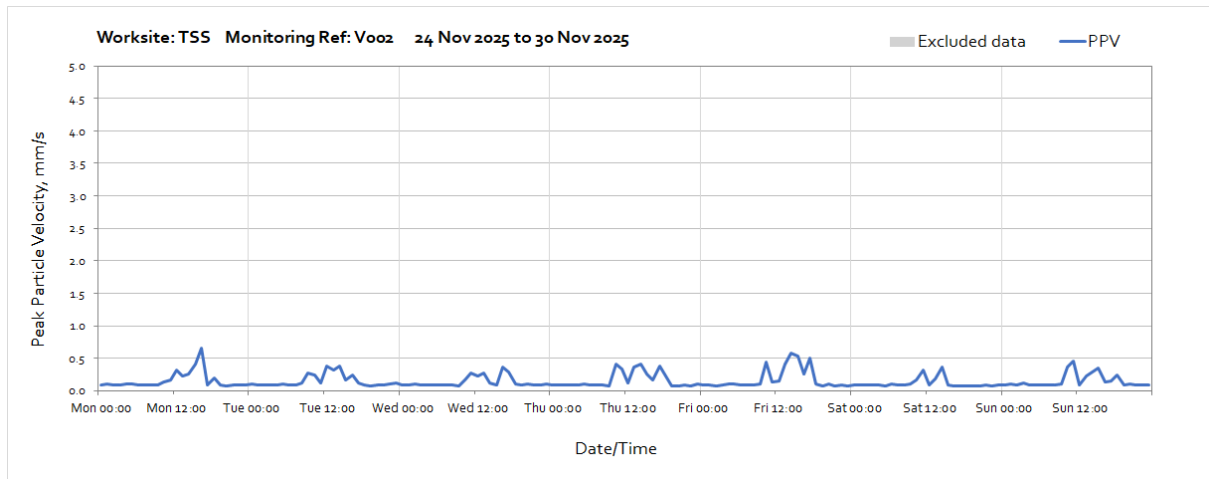
Note: Missing data between 15:00 and 16:00 on Sunday 23rd November is currently under investigation.



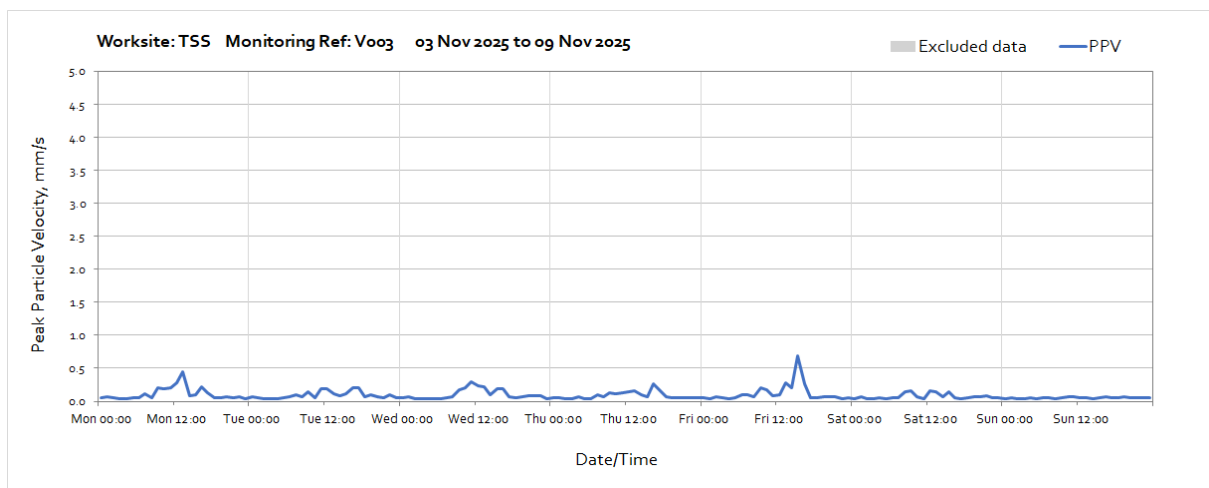
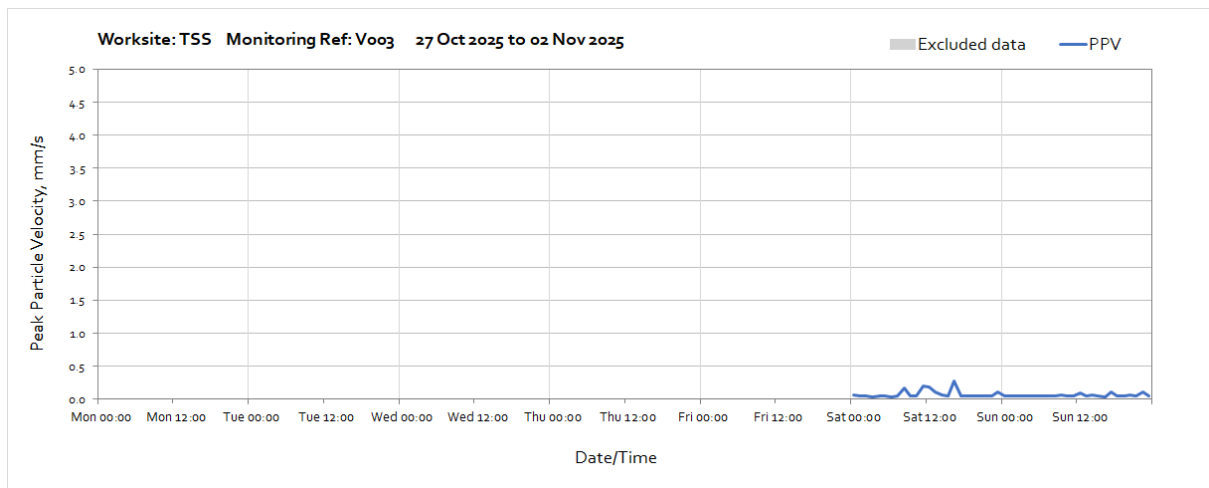
Worksite: TSS – Monitoring Ref: V002

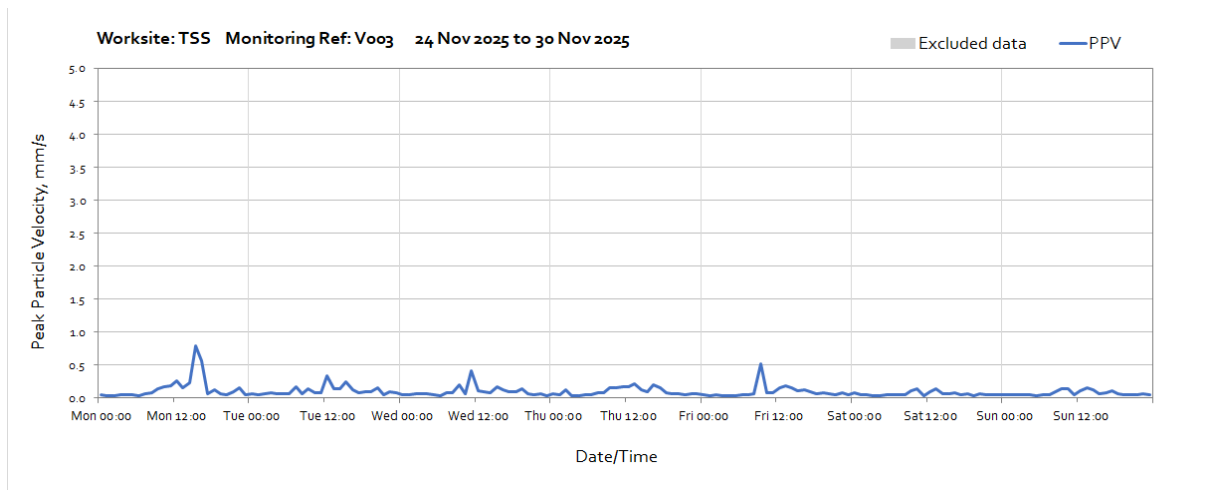
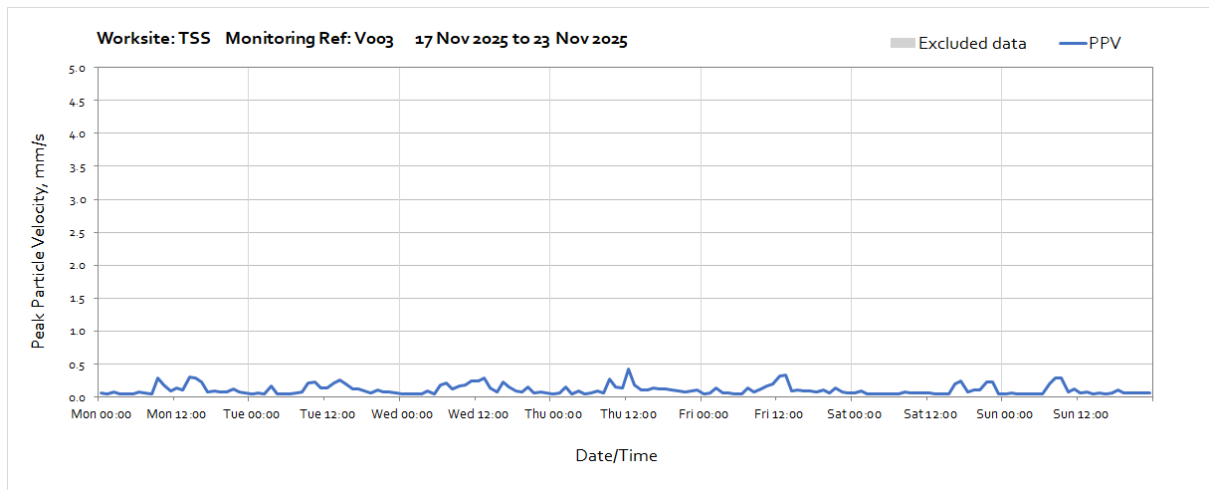
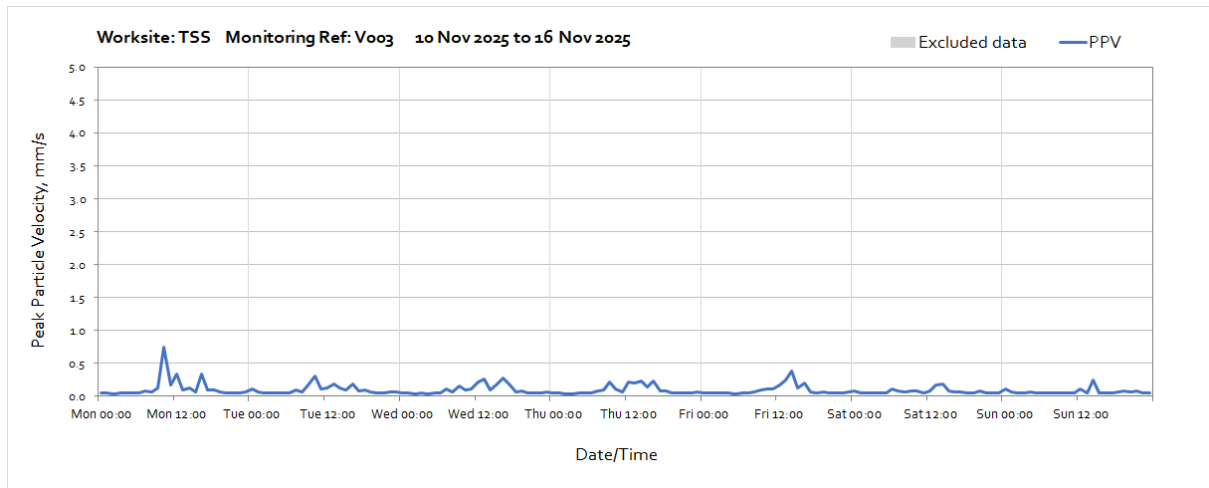




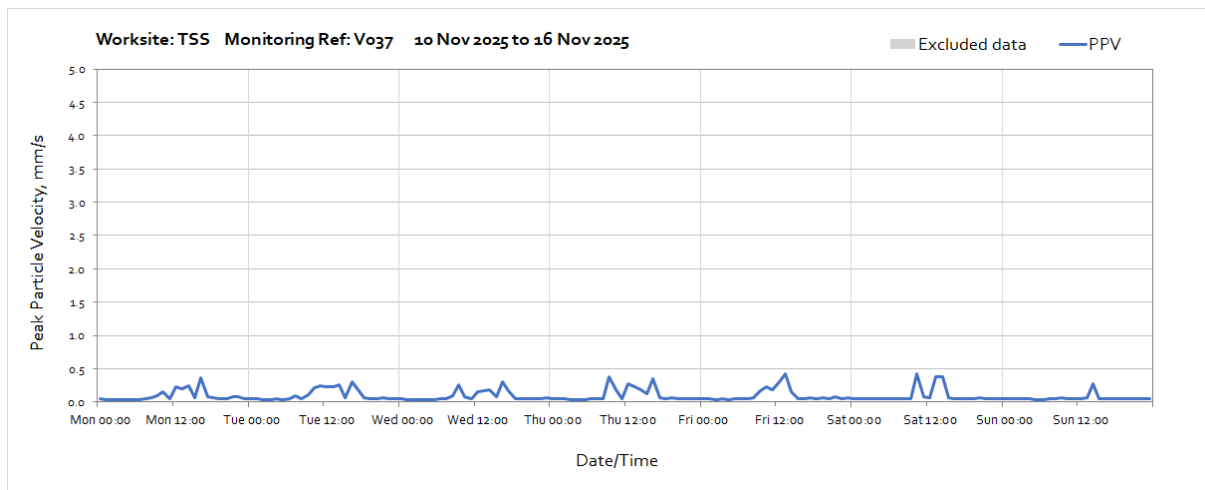
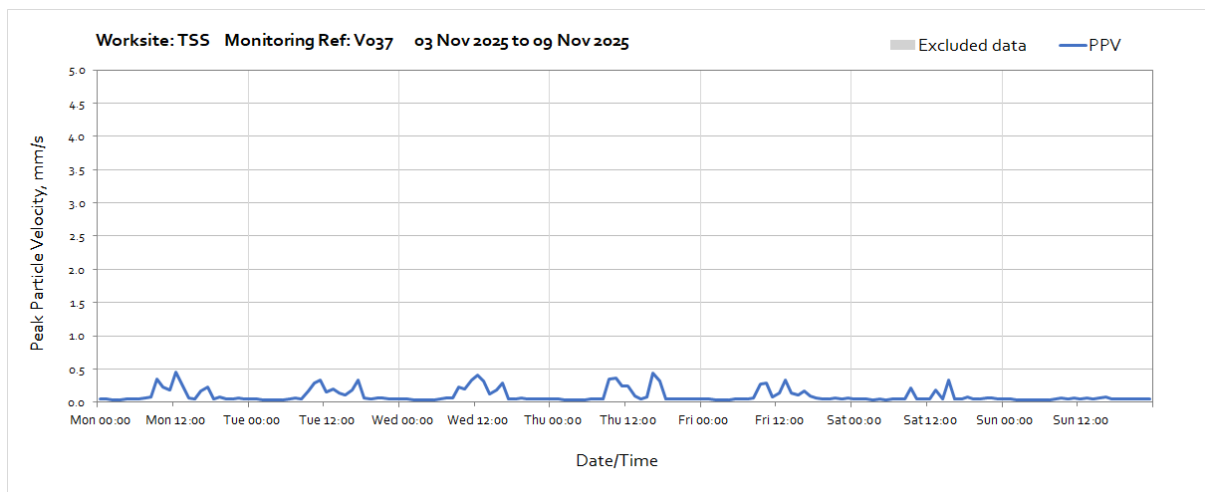
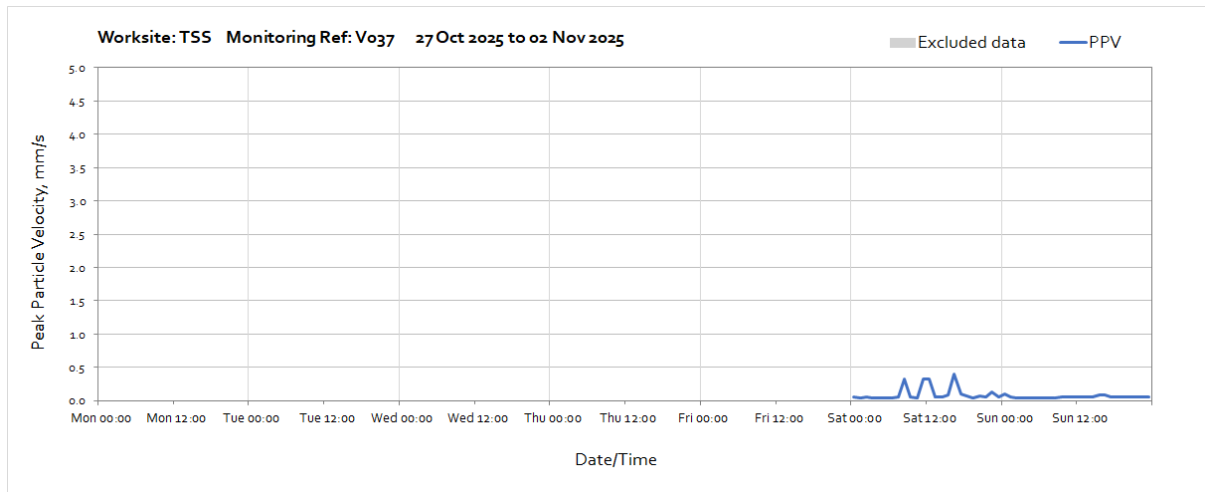


Worksite: TSS – Monitoring Ref: V003

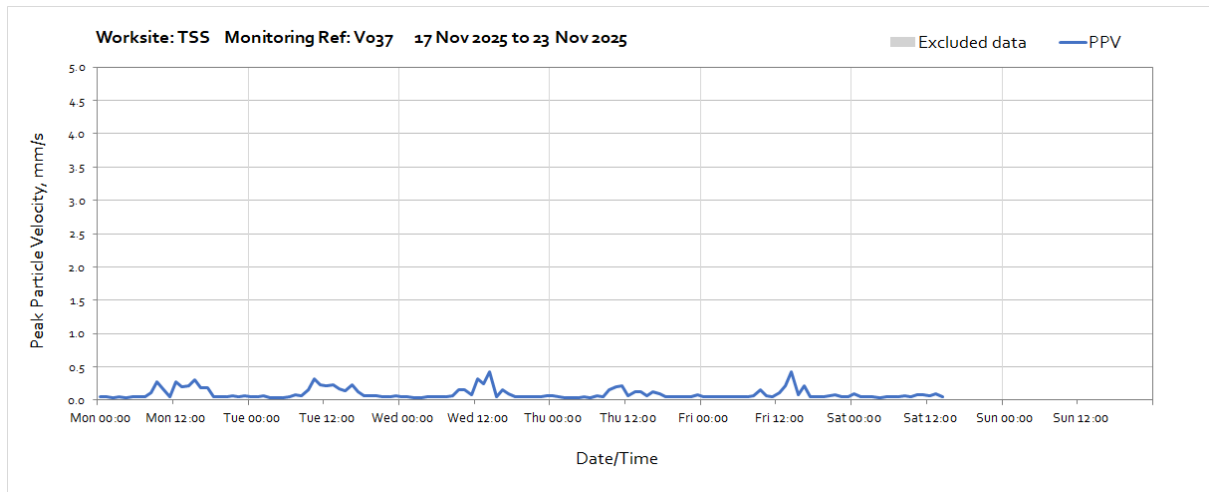




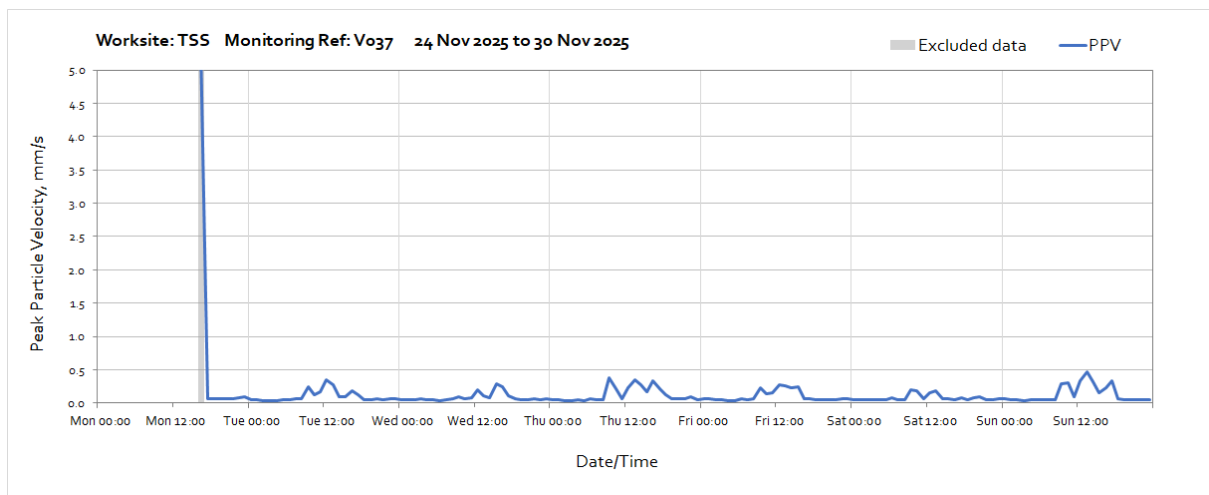
Worksite: TSS – Monitoring Ref: V037



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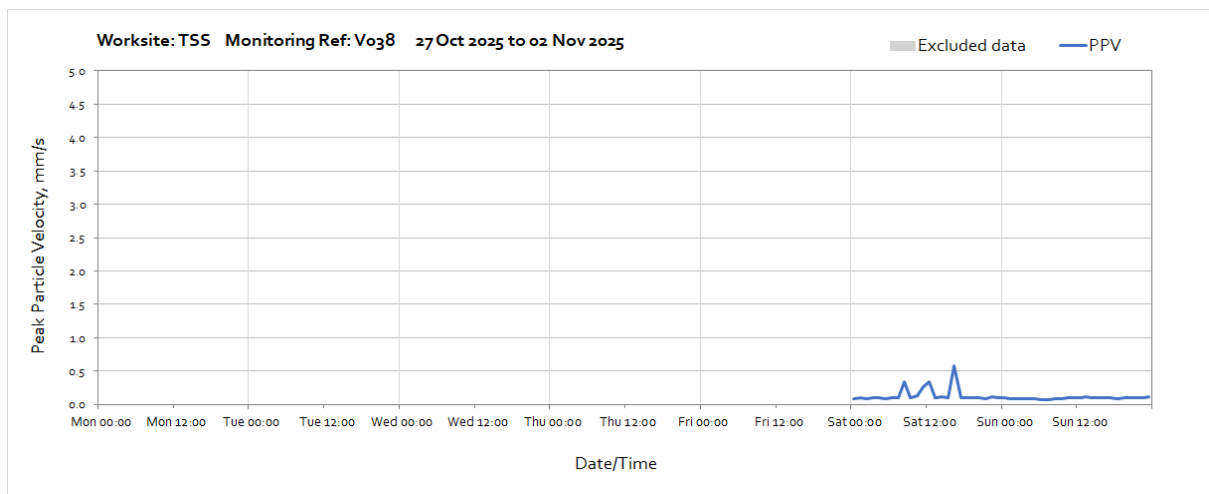


Note: Missing data between 15:00 on Saturday 22nd November and 16:00 on Monday 24th November was due to a monitoring station system error.

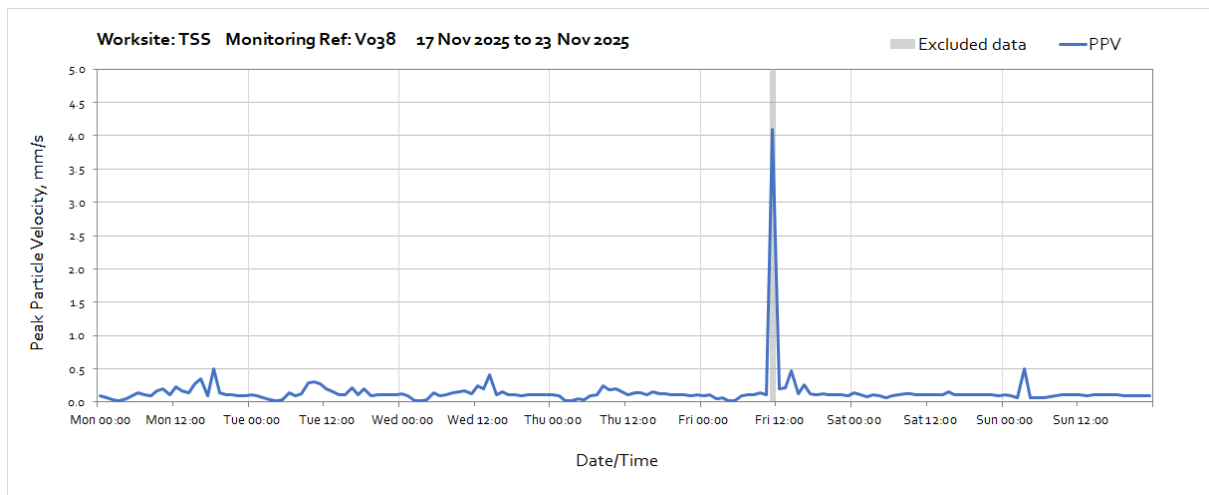
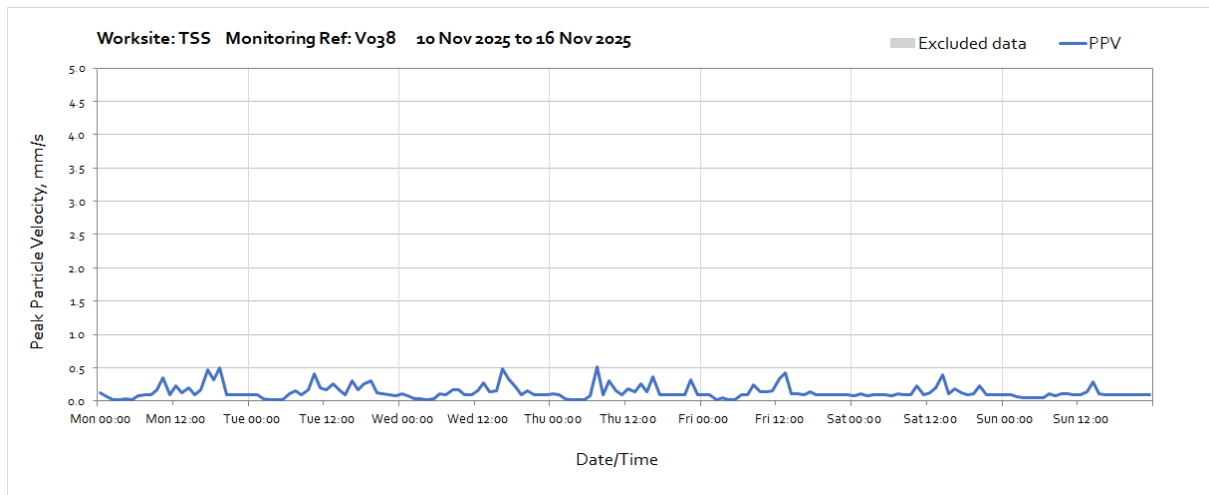
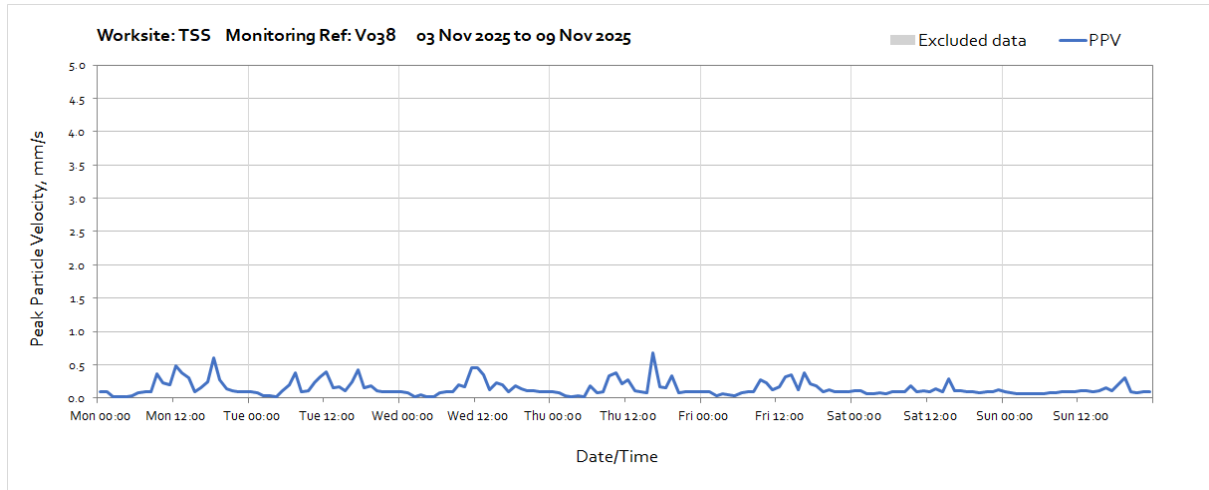


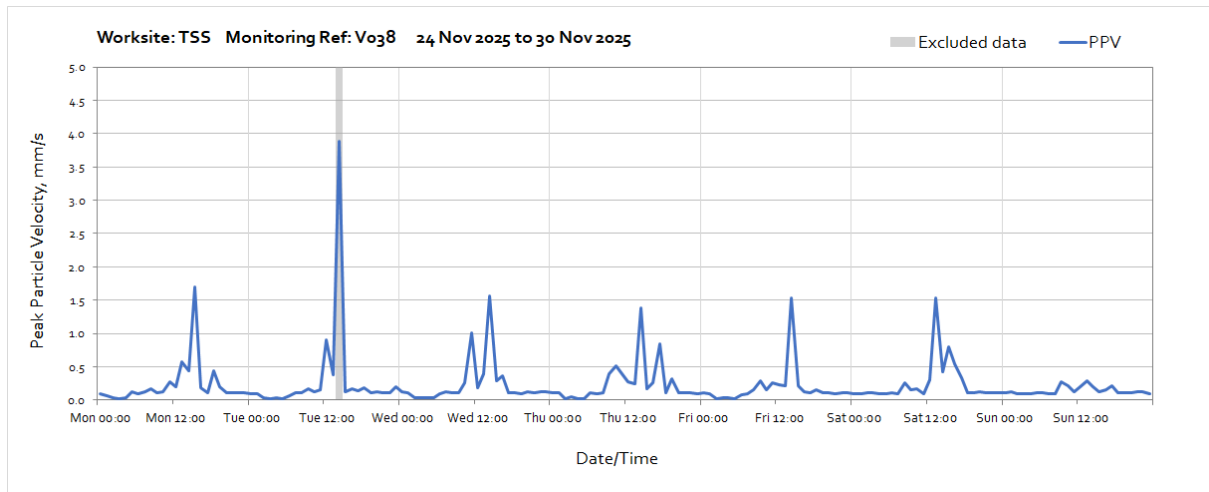
Note: Missing data between 15:00 on Saturday 22nd November and 16:00 on Monday 24th November was due to a monitoring station system error.

Worksite: TSS – Monitoring Ref: V038

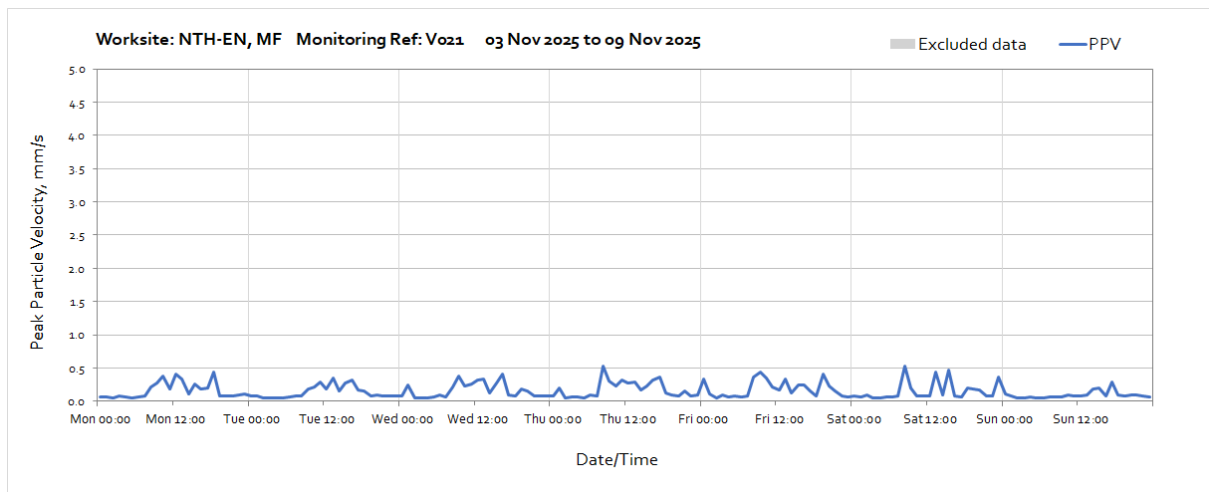
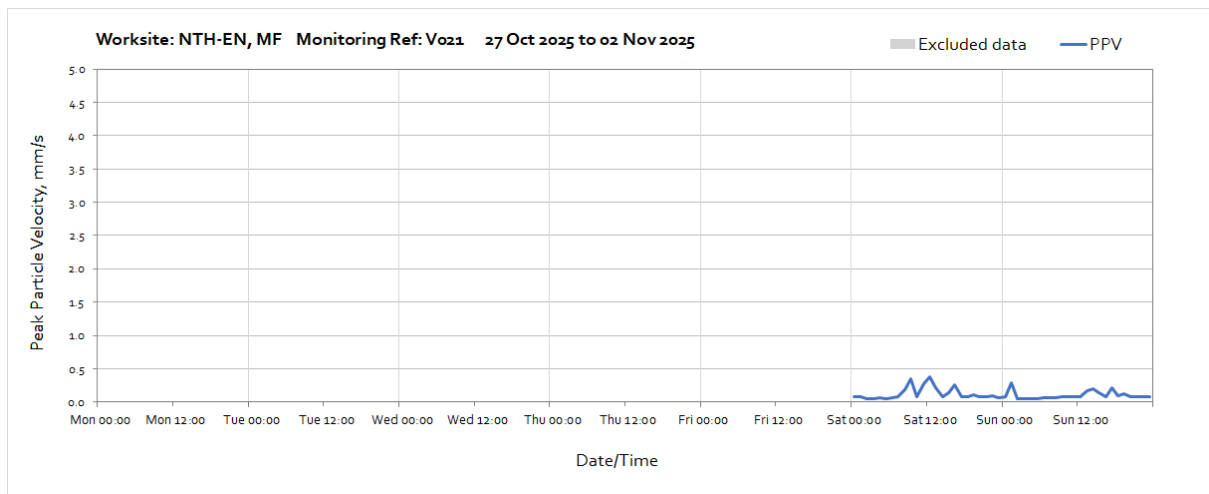


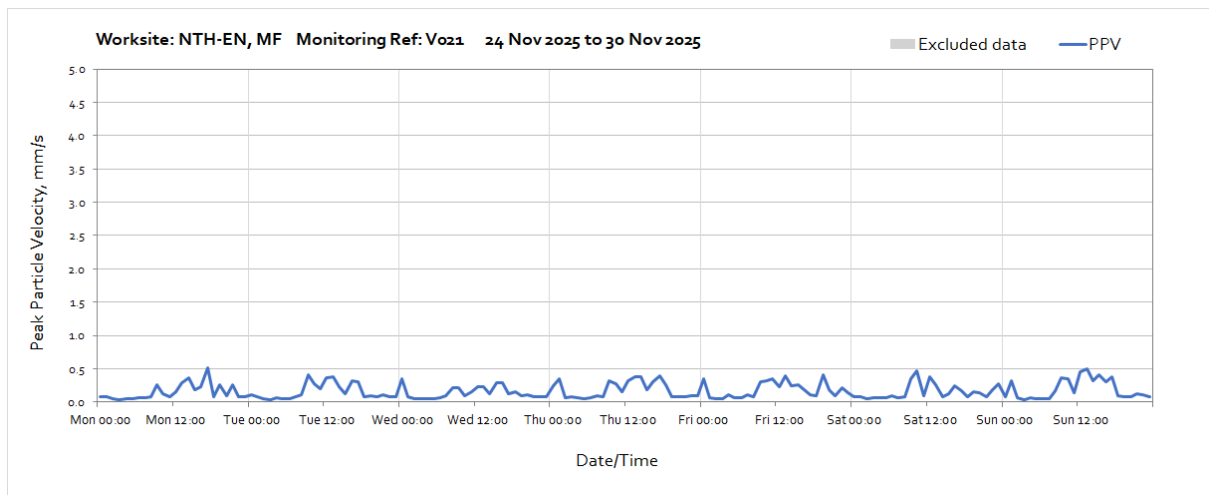
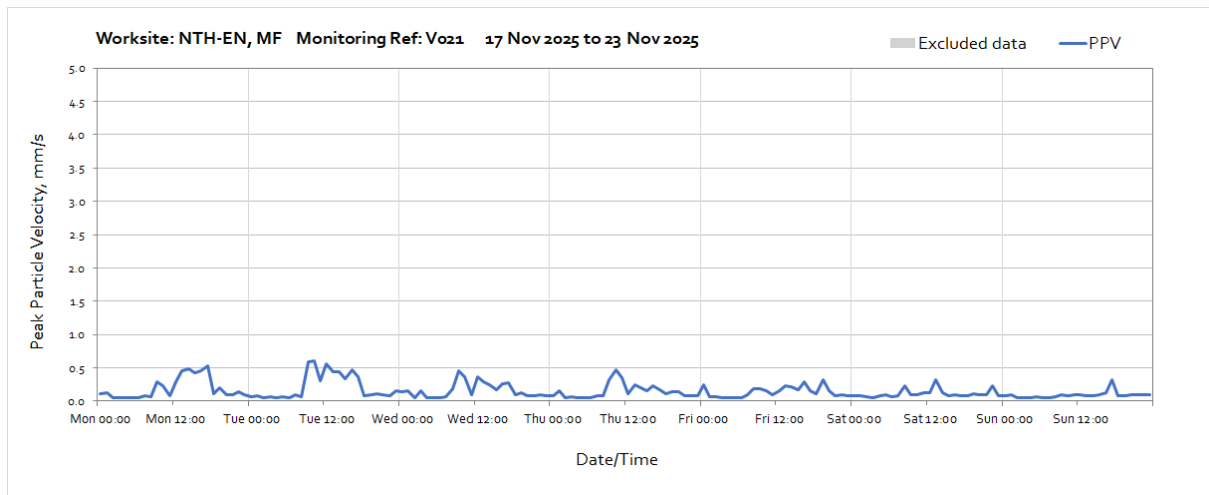
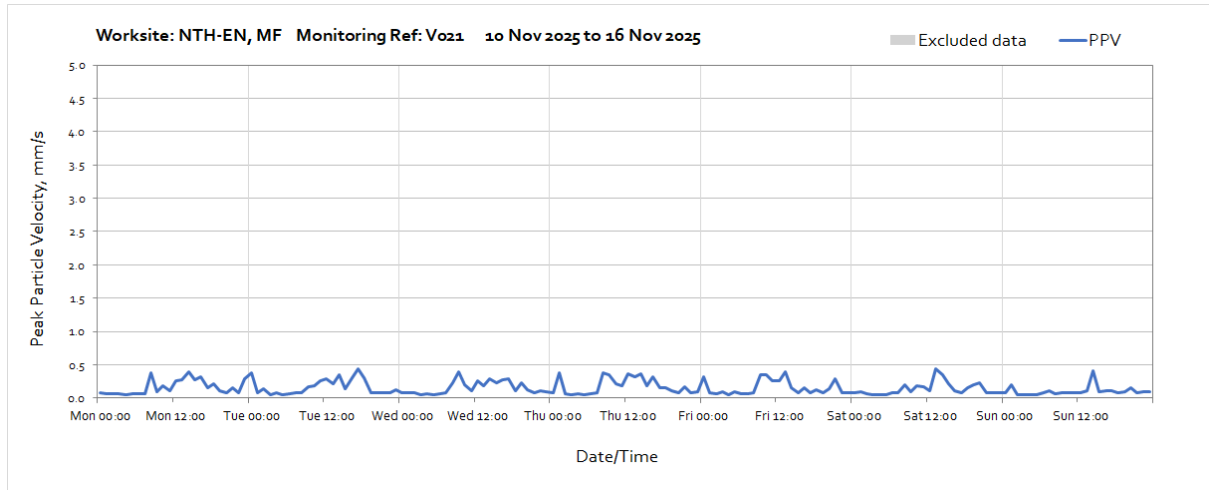
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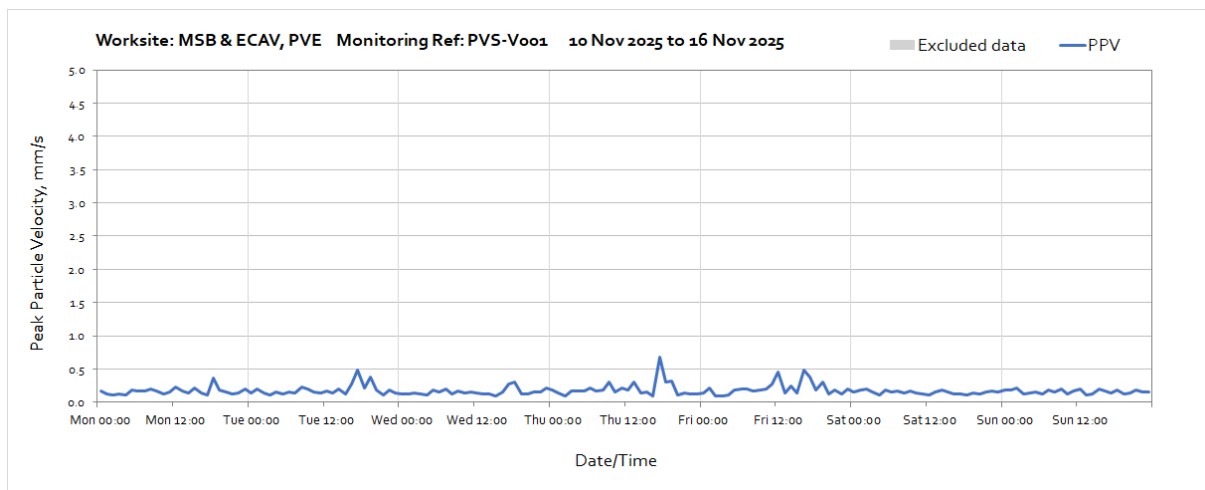
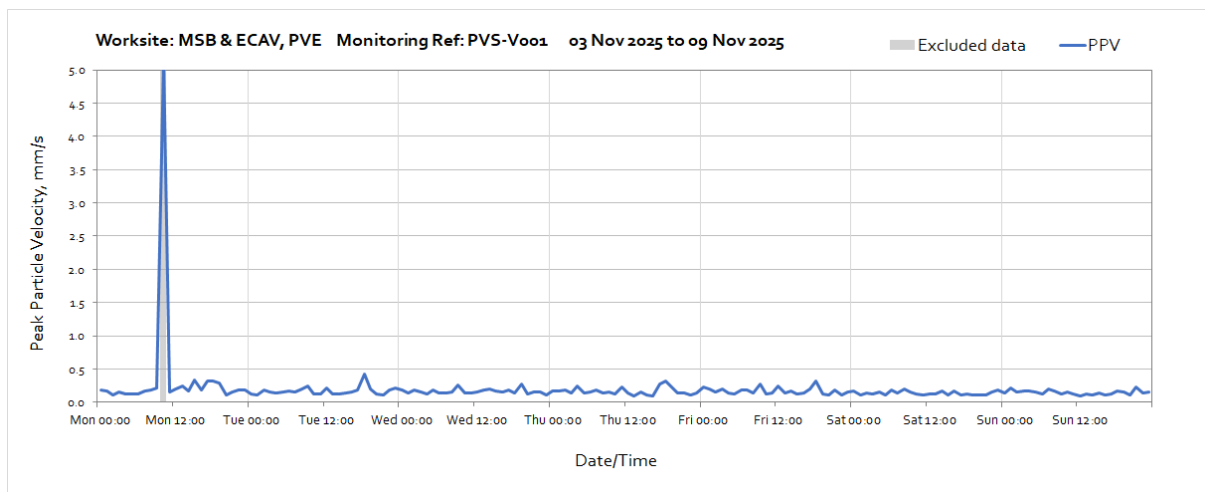
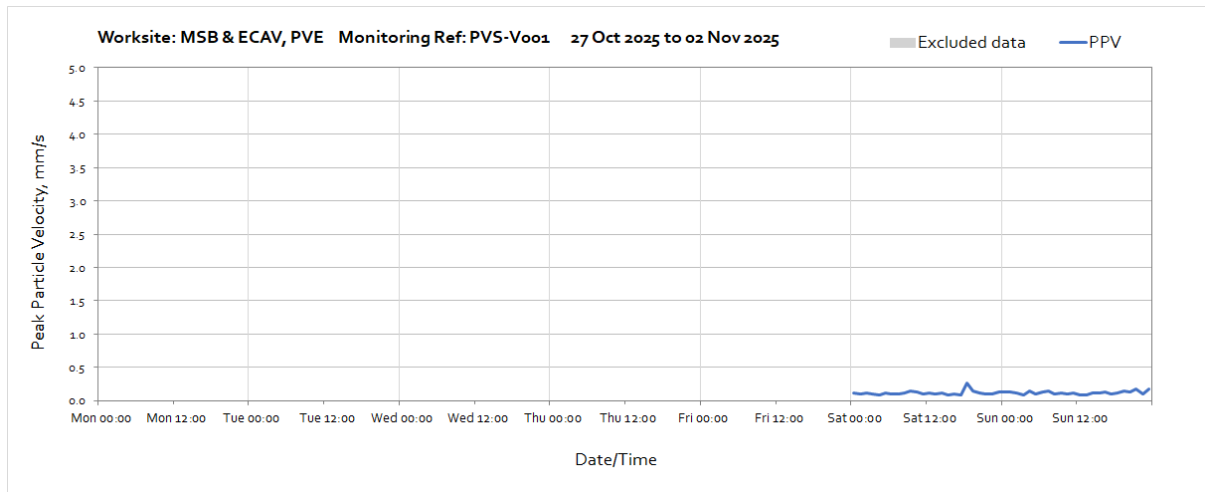


Worksite: NTH-EN, MF – Monitoring Ref: V021

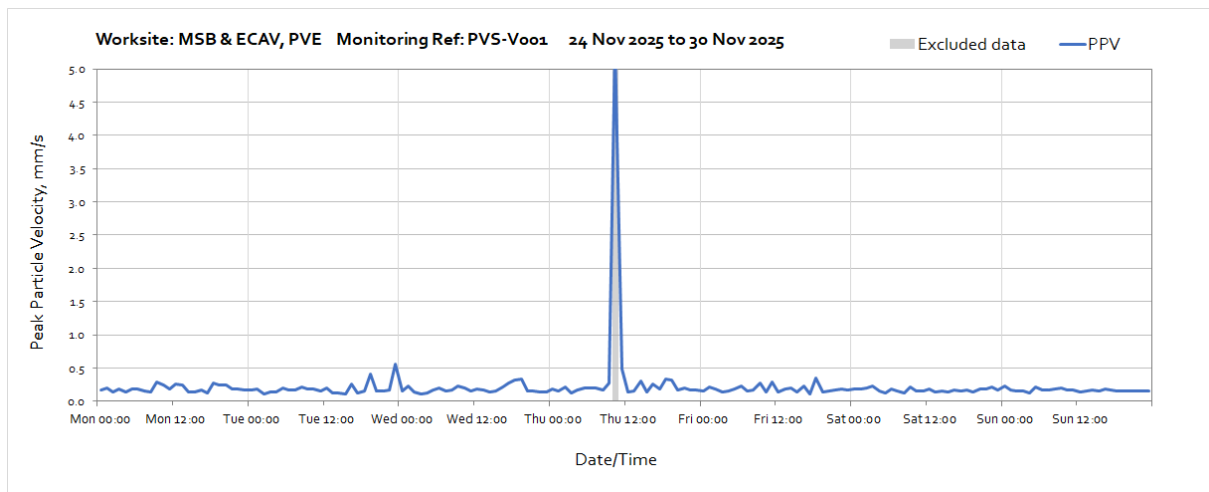
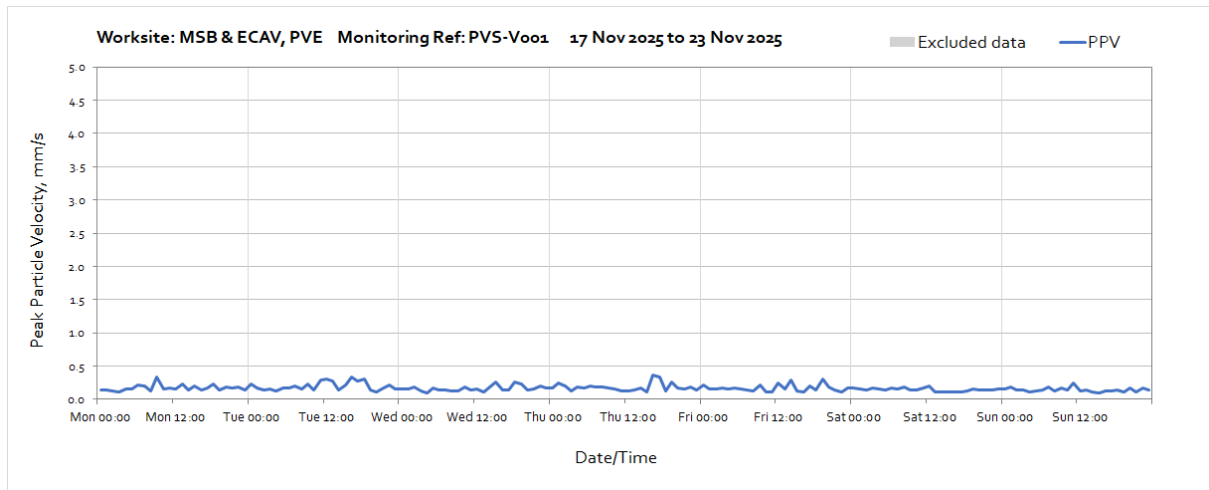




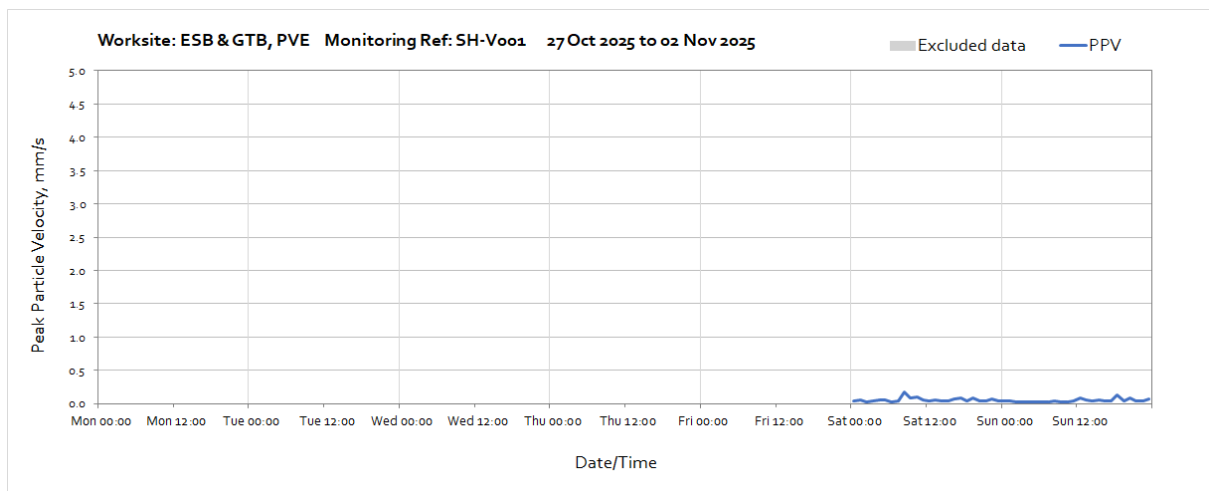
Worksite: MSB & ECAV, PVE – Monitoring Ref: PVS-V001



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Worksite: ESB & GTB, PVE – Monitoring Ref: SH-V001



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