HS2

March 2022

Construction Noise and Vibration Monthly Report – January 2022

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 January 2022.

Within this period monitoring was undertaken at the following worksites:

- Noise monitoring was undertaken in the vicinity of The Adelaide Road Ventilation Shaft (ref.: ARVS) where piling, foundation works, installation of vehicle crash barriers and installation of site hoarding were underway.
- Noise monitoring was undertaken in the vicinity of the Vehicle Holding Area worksite (ref.: VHA), where compound operations were underway.
- Noise monitoring was undertaken in the vicinity of Euston Throat Retained Cut and Granby Terrace Bridge worksite (ref.: ETRC & GTB) where excavations, removal of spoil, concrete platform construction, temporary drainage works, wall construction, concrete beam construction, haul road modifications, deconstruction of waste bin, surveys, steelwork installation and earthworks were underway.
- Noise monitoring was undertaken in the vicinity of Euston Scissor Cut worksite (ref.: ESC) where concrete platform construction, wall works, concrete beam construction, demolition, temporary drainage works, rail line works, installation of waste bin, fencing foundation works, haul road modifications and excavations were underway.
- Noise and vibration monitoring were undertaken in the vicinity of the Hampstead Road Bridge worksite (ref.: HRB) where digging of trial holes, haul road modifications and water mains connections were underway.
- Noise and vibration monitoring were undertaken in the vicinity of the Euston Cavern worksite (ref.: ECAV), where wall works were underway.
- Noise monitoring was undertaken in the vicinity of On-Network worksites (ref.: B, C, D, E, F, G and H), where:
    - concrete breaking, deliveries and waste removal (worksite E); and
    - steel sampling works (worksite H) were underway.
    - no HS2 works were undertaken at worksites B, C, D, F and G.
- Noise monitoring was undertaken in the vicinity of the Former National Temperance Hospital - North worksite (ref.: NTH-N) where pile mat construction was underway.

- Noise monitoring was undertaken in the vicinity of the Former National Temperance Hospital - Euston North worksite (ref.: NTH-EN) where earthworks, piling, civil works, manhole shaft construction and sewer lining were underway.
- Noise monitoring was undertaken in the vicinity of the Euston Towers Demolition worksite (ref.: ETD), where demolition was underway.
- Noise monitoring was undertaken in the vicinity of the Traction Substation worksite (ref.: TSS) where supportive structure works, excavation works and waterproofing in the Ventilation & Power Tunnel were underway.
- Noise monitoring was undertaken in the vicinity of the Interim Taxi Rank worksite (ref.: ITR), where shaft works for drainage installation was underway.

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

- Starcross Street and Vardnell Street where sewer inspection works were underway; and
- Cardington Street where water utility works was underway

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

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

Three (3) complaints were received during the monitoring period. A description of complaints, the results of investigations and any actions taken are detailed in Table 8 of this report.

Abbreviations and Descriptions

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

Table 1: Table of Abbreviations

Acronym/Term	Definition
$L_{Aeq,T}$	See equivalent continuous sound pressure level
Ambient sound	A description of the all-encompassing sound at a given location and time which will include sound from many sources near and far. Ambient sound can be quantified in terms of the equivalent continuous sound pressure level, $L_{pAeq,T}$
Decibel(s), or dB	Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
Decibel(s) A-weighted, or dB(A)	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dB(A)'.
Equivalent continuous sound pressure level, or $L_{Aeq,T}$	An index used internationally for the assessment of environmental sound impacts. It is defined as the notional unchanging level that would, over a given period of time (T), deliver the same sound energy as the actual time-varying sound over the same period. Hence fluctuating sound levels can be described in terms of an equivalent single figure value, typically expressed as a decibel level.
Exclusion of data	Measurement of noise levels can be affected by weather conditions such as prolonged periods of rain, winds speeds higher than 5m/s and snow/ice ground cover. Noise levels measured during these periods are considered not representative of normal noise conditions at the site and, for the purposes of this report, are excluded from the assessment of exceedances and calculation of typical noise levels and are also greyed out in charts. Identifiable incongruous noise and vibration events not attributable to HS2 construction noise are also excluded.
Façade	A facade noise level is the noise level 1m in front of a large reflecting surface. The effect of reflection, is to produce a slightly higher (typically +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 31st January 2022.

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 work activities included:
  - sheet piling;
  - works to the foundations of the new welfare unit;
  - installation of vehicle crash barriers; and
  - installation of site hoarding.
- Vehicle Holding Area worksite ref.: VHA (see plan 1 in Appendix A), where work activities included:
  - general compound operation (vehicle movements).
- Euston Throat Retained Cut and Granby Terrace Bridge worksite ref.: ETRC & GTB (see plan 2 in Appendix A), where work activities included:
  - bulk excavations;
  - removal of spoil;

- tower crane platform construction;
- polymer silo base construction;
- temporary drainage works;
- portal mat and contiguous wall construction;
- concrete beam (capping beam) construction;
- haul road modifications;
- deconstruction of waste bin;
- unexploded ordinance survey probing;
- steelwork installation; and
- earthworks.

- Euston Scissor Cut worksite ref.: ESC (see plan 2 in Appendix A), where work activities included:
  - pile mat construction;
  - guide wall construction;
  - concrete beam (capping beam) construction;
  - wall demolition;
  - temporary drainage works;
  - rail line works;
  - installation of waste bin;
  - polymer silo base construction;
  - tower crane platform installation;
  - fencing foundation works;
  - wall works;
  - haul road modifications; and
  - bulk excavations.
- Hampstead Road Bridge worksite ref.: HRB (see plan 3 in Appendix A), where work activities included:
  - digging of trials holes;
  - haul road modifications; and
  - water mains connections.

- Euston Cavern worksite ref.: ECAV (see plan 3 in Appendix A), where work activities included:
  - wall works.
- On-Network worksites ref.: B, C, D, E, F, G and H (see plan 3 in Appendix A), where work activities included:
  - concrete breaking, deliveries and waste removal (worksite E); and
  - steel sampling works (worksite H).
  - no HS2 works were undertaken at worksites B, C, D, F and G.
- Former National Temperance Hospital - North worksite ref.: NTH-N (see plan 3 in Appendix A), where work activities included:
  - pile mat construction.
- Former National Temperance Hospital - Euston North worksite ref.: NTH-EN (see plan 3 in Appendix A), where work activities included:
  - earthworks (backfilling);
  - piling;
  - civil works; and
  - manhole shaft construction and sewer lining.
- Euston Towers Demolition worksite ref.: ETD (see plan 3 in Appendix A), where work activities included:
  - demolition of concrete slabs; and
  - demolition of planters.
- Traction Substation worksite ref.: TSS (see plan 3 in Appendix A), where work activities included:
  - supportive structure works (capping beam) and excavation works; and
  - waterproofing in the Ventilation & Power Tunnel.
- Interim Taxi Rank worksite ref.: ITR (see plan 3 in Appendix A), where work activities included:
  - shaft works for drainage installation.

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

- Starcross Street where sewer inspection works were underway; and
- Cardington Street where water utility works (replacement of flow meter) was 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-three (33) noise and eleven (11) vibration monitoring installations were active across eighteen worksites in January in the LBC area. Table 2 summarises the position of noise and vibration monitoring installations within the LBC area in January 2022.

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
	V059	Outside 68 Adelaide Road
	ARBW-V1	Adelaide Road-Beaumont Walk
B	JC	Juniper Crescent
ESC	N024	External to Park Village Studios, Park Village East
	N047	Park Village East/Mornington Street bridge, lamppost #13
	PVS-V1	Park Village Studios
ESC, C	N022	External to 34 Mornington Terrace
	N046	Mornington Terrace near The Edinboro Castle pub, lamppost #18
ETRC & GTB	N001	Park Village East, lamppost #1 (external to Cubitt Court, 100 Park Village East)
	N002	Park Village East, lamppost #2 (external to Richmond Court)
	N003	Park Village East, lamppost #9 (external to Silsoe House)
	SH-V1	Silsoe House
ETRC & GTB, D	N004	Mornington Terrace, lamppost #7 (junction of Mornington Terrace, Mornington Place and Clarkson Row)
ETRC & GTB, E	N005	5A Granby Terrace
E	CR	Lamppost #2 on Clarkson Row

Worksite Reference	Measurement Reference	Address
ETRC & GTB, F	N023	Lamppost #21 on Hampstead Road
HRB	N019	Outside Cartmel, Hampstead Road
	N020	Mackworth Street, lamppost #1
	N021	Stanhope Street, lamppost #2
	N044	Regents Park Estate west, near Langdale
	N045	Regents Park Estate south, external to Coniston
	V039	Coniston, Regents Park Estate
	V043	Cubitt Court, Park Village East
G, H	HH	Euston Station Parcel Deck, Barnby Street
G	BS	Roof of Stockbeck House, Barnby Street
ETD, TSS	N006	Royal College of General Practitioners roof level
TSS	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, basement lightwell, Euston Street
ETD	N007	Royal College of General Practitioners, Melton Street
	V003	Royal College of General Practitioners basement vaults under Melton St
VHA	N025	External to 3 Prince Albert Road
	N026	Thames Water Compound
NTH-EN, TSS	N012	Drummond Street, lamppost #14 (opposite to 92-94 Drummond Street)
NTH-EN	N014	Starcross Street lamppost (external to Exmouth Arms)
	N016	Margaret Centre roof
	N017	Hampstead Road, lamppost #48
	V021	42-44 Cobourg Street
NTH-EN, NTH-N	N018	Outside replacement housing, Hampstead Road

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	66.8 (70.1)	69.7 (72.1)	66.4 (69.8)	66.5 (75.2)	64.0 (78.4)	64.2 (67.3)	67.1 (70.1)	66.0 (67.5)	66.7 (72.4)	64.4 (71.0)	65.7 (70.8)	63.0 (69.4)
	N052	Adelaide Road-Beaumont Walk	Free-field	66.3 (70.7)	70.2 (77.0)	66.3 (68.7)	66.3 (77.2)	63.7 (77.1)	64.4 (66.3)	68.6 (71.2)	67.0 (71.2)	66.1 (70.2)	63.8 (68.8)	65.7 (72.3)	62.6 (67.0)
B	JC	Juniper Crescent	Free-field	57.0 (58.1)	58.0 (58.7)	57.2 (58.8)	58.0 (59.5)	56.1 (61.1)	56.5 (56.6)	57.6 (58.5)	54.4 (54.4)	55.6 (58.7)	51.9 (55.6)	55.3 (58.0)	53.3 (56.8)
ESC	N024	External to Park Village Studios, Park Village East	Free-field	57.8 (63.8)	61.1 (63.5)	58.5 (64.3)	56.2 (61.9)	54.3 (67.1)	53.7 (56.1)	54.9 (56.0)	55.7 (57.3)	56.6 (60.3)	53.3 (60.4)	55.9 (61.6)	53.0 (57.9)
	N047	Park Village East/Mornington Street bridge, lamppost #13	Free-field	58.5 (65.4)	61.2 (63.9)	59.3 (62.9)	57.6 (61.7)	53.6 (69.3)	54.6 (56.3)	57.3 (59.2)	58.3 (59.0)	58.9 (66.1)	53.4 (58.5)	57.1 (61.6)	52.7 (56.7)
ESC, C	N022	External to 34 Mornington Terrace	Free-field	58.3 (60.4)	61.5 (63.7)	58.8 (59.8)	58.0 (60.2)	54.2 (65.6)	56.6 (58.6)	59.1 (61.1)	62.1 (71.9)	58.7 (64.1)	53.8 (62.1)	57.6 (60.9)	53.6 (58.1)
	N046	Mornington Terrace near The Edinboro Castle pub, lamppost #18	Free-field	61.3 (62.4)	64.0 (65.3)	61.4 (62.3)	60.8 (62.8)	57.2 (65.8)	59.3 (61.6)	61.7 (63.5)	62.3 (66.1)	61.1 (65.6)	57.8 (68.7)	60.8 (64.7)	56.6 (61.2)

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
ETRC & GTB	N001	External to Cubitt Court, 100 Park Village East	Free-field	57.9 (60.1)	67.4 (92.0)	59.4 (62.0)	57.7 (63.1)	53.1 (67.0)	54.2 (55.6)	63.0 (65.0)	59.2 (61.3)	58.9 (62.7)	54.7 (64.8)	57.2 (63.2)	52.8 (57.8)
	N002	Richmond Court, Park Village East	Free-field	58.4 (60.9)	63.5 (72.7)	61.2 (63.8)	59.4 (71.9)	54.3 (62.6)	55.0 (56.8)	61.3 (70.1)	59.6 (60.9)	60.0 (66.4)	54.4 (58.8)	58.3 (62.2)	53.3 (57.5)
	N003	Silsoe House, Park Village East	Façade	58.2 (61.0)	62.1 (65.7)	60.7 (64.9)	58.7 (63.0)	53.9 (63.1)	54.2 (56.2)	58.2 (60.8)	58.9 (59.5)	59.9 (68.4)	54.3 (59.8)	57.8 (61.0)	53.2 (57.2)
ETRC & GTB, D	N004	Mornington Terrace, lamppost #7	Free-field	62.6 (64.5)	65.5 (67.3)	63.2 (64.9)	62.3 (64.5)	58.6 (67.2)	60.7 (63.4)	64.9 (68.5)	65.8 (74.9)	62.2 (67.0)	57.0 (67.4)	63.1 (71.5)	57.9 (65.6)
ETRC & GTB, E	N005	5A Granby Terrace	Free-field	64.0 (66.4)	68.2 (73.0)	64.6 (69.8)	63.6 (65.3)	61.7 (67.9)	62.9 (65.0)	68.2 (69.8)	66.6 (70.1)	64.5 (68.9)	62.1 (71.0)	63.5 (67.9)	62.2 (67.2)
E	CR	Lamppost #2 on Clarkson Row	Free-field	63.9 (70.9)	67.0 (70.2)	65.2 (71.6)	63.0 (67.8)	58.6 (66.3)	62.0 (66.5)	68.0 (70.1)	70.4 (76.7)	63.7 (69.6)	58.3 (66.4)	63.2 (68.0)	59.2 (70.2)
ETRC & GTB, F	N023	Lamppost #21 on Hampstead Road	Free-field	67.2 (70.5)	69.1 (69.9)	67.4 (73.6)	67.2 (70.2)	66.0 (73.2)	65.9 (67.3)	68.0 (68.9)	67.0 (68.6)	68.1 (71.4)	65.9 (71.4)	67.2 (72.2)	65.1 (68.7)
HRB	N019	Outside Cartmel, Hampstead Road	Free-field	58.0 (59.7)	67.0 (70.1)	57.4 (64.0)	57.2 (59.3)	57.0 (70.7)	57.2 (59.0)	66.4 (71.7)	57.7 (59.1)	57.5 (60.9)	56.2 (58.5)	57.1 (59.2)	56.6 (58.4)

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
HRB	N020	Mackworth Street, lamppost #1	Free-field	52.0 (54.6)	60.5 (63.7)	51.2 (53.8)	50.6 (58.2)	49.1 (69.5)	51.0 (57.6)	60.3 (64.6)	53.4 (54.8)	51.9 (55.8)	48.5 (54.0)	51.0 (54.8)	48.7 (56.9)
	N021	Stanhope Street, lamppost #2	Free-field	56.1 (58.7)	62.3 (72.4)	57.8 (61.0)	56.4 (62.2)	52.0 (63.0)	52.3 (53.1)	58.5 (60.1)	57.7 (59.2)	58.0 (62.8)	52.9 (58.4)	55.8 (59.6)	51.8 (56.7)
	N044	Regents Park Estate west, near Langdale	Free-field	61.6 (64.6)	65.9 (71.8)	59.5 (61.9)	59.0 (61.0)	59.4 (67.6)	59.6 (61.6)	64.1 (67.4)	59.8 (62.0)	59.1 (62.8)	58.9 (63.8)	59.1 (62.5)	59.0 (61.6)
	N045	Regents Park Estate south, external to Coniston	Free-field	58.3 (60.2)	68.6 (76.4)	57.7 (61.8)	57.2 (59.4)	56.7 (70.6)	56.7 (58.4)	68.3 (74.8)	57.2 (60.0)	58.4 (69.2)	55.2 (58.3)	56.2 (59.2)	55.5 (58.6)
G, H	HH	Euston Station Parcel Deck, Barnby Street	Free-field	61.6 (67.0)	63.5 (67.4)	64.1 (68.2)	62.5 (69.6)	60.0 (68.8)	58.6 (60.0)	61.3 (63.3)	61.8 (65.7)	61.9 (66.2)	59.7 (68.4)	60.9 (67.5)	57.6 (65.3)
G	BS	Roof of Stockbeck House, Barnby Street	Free-field	59.0 (60.7)	62.0 (63.7)	59.3 (60.9)	59.0 (62.2)	56.5 (73.5)	57.7 (59.9)	62.2 (64.7)	60.4 (63.6)	58.9 (62.4)	54.8 (62.3)	58.5 (61.5)	55.5 (59.0)
ETD, TSS	N006	Royal College of General Practitioners roof level	Free-field	57.3 (61.0)	66.3 (74.0)	57.4 (61.7)	59.0 (64.3)	57.7 (64.8)	53.7 (55.5)	57.8 (64.5)	54.8 (56.2)	54.2 (57.0)	52.7 (55.1)	53.7 (56.1)	52.7 (54.9)
TSS	N008	Stephenson's Way lamppost (external to RCGP)	Façade	60.0 (68.2)	70.1 (75.1)	58.5 (66.8)	58.3 (69.2)	57.0 (70.0)	56.6 (57.7)	60.8 (69.4)	57.2 (57.7)	57.1 (63.3)	54.4 (56.9)	56.2 (61.6)	55.8 (63.1)

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
TSS	N010	Wesley Hotel	Façade	69.7 (70.0)	71.3 (72.7)	69.6 (69.9)	68.0 (70.0)	58.2 (69.9)	69.6 (69.7)	69.8 (70.6)	69.4 (69.5)	68.8 (69.8)	57.3 (69.7)	65.9 (70.0)	58.0 (69.4)
	N011	Outside 82 Euston Street	Free-field	56.4 (68.6)	60.2 (69.8)	54.3 (58.0)	53.7 (56.7)	53.0 (71.5)	51.7 (51.8)	54.5 (55.3)	54.9 (56.3)	55.2 (61.1)	49.4 (51.7)	52.7 (55.8)	50.1 (55.1)
ETD	N007	Royal College of General Practitioners, Melton Street	Free-field	64.0 (66.1)	69.8 (73.8)	64.5 (72.4)	64.8 (69.4)	63.2 (69.7)	64.7 (69.3)	65.3 (70.4)	64.2 (64.4)	63.9 (66.8)	62.2 (65.2)	63.2 (66.0)	61.9 (66.4)
VHA	N025	External to 3 Prince Albert Road	Free-field	67.0 (71.0)	67.5 (69.4)	67.2 (72.2)	65.6 (69.8)	63.8 (69.8)	64.2 (65.4)	65.0 (65.7)	65.1 (66.1)	65.8 (70.0)	64.3 (68.7)	65.5 (71.5)	63.2 (67.7)
VHA	N026	Vehicle Holding Area	Free-field	57.3 (59.6)	60.6 (66.8)	56.7 (59.1)	55.2 (58.1)	53.1 (62.7)	54.4 (57.5)	57.2 (62.4)	55.5 (57.2)	55.8 (60.7)	53.5 (58.9)	55.3 (58.1)	52.1 (57.4)
NTH-EN, TSS	N012	Opposite 92-94 Drummond Street	Free-field	55.2 (63.2)	58.8 (60.7)	57.0 (62.5)	57.0 (60.2)	54.1 (61.5)	51.8 (56.2)	55.2 (58.3)	56.4 (59.0)	56.7 (64.7)	52.0 (57.8)	55.8 (61.2)	53.6 (64.9)
NTH-EN	N014	Starcross Street lamppost (external to Exmouth Arms)	Free-field	54.2 (61.5)	60.8 (66.0)	55.5 (60.5)	54.7 (63.6)	52.3 (65.4)	49.5 (50.9)	55.8 (59.7)	55.1 (56.2)	56.3 (69.3)	49.4 (53.6)	54.4 (61.9)	51.9 (60.9)
	N016	Margaret Centre roof	Free-field	52.9 (56.3)	62.2 (65.7)	54.1 (63.9)	53.0 (62.6)	51.1 (63.5)	51.3 (52.1)	53.9 (56.9)	53.5 (54.3)	52.8 (55.0)	50.4 (53.7)	52.2 (57.2)	50.1 (55.5)

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	N017	Hampstead Road, lamppost #48	Free-field	68.2 (72.3)	69.8 (71.0)	67.9 (69.9)	68.1 (72.5)	66.8 (76.5)	65.7 (65.9)	67.7 (68.9)	68.0 (69.2)	69.0 (74.1)	66.4 (71.2)	67.8 (75.8)	65.4 (70.8)
NTH-EN, NTH-N	N018	Outside replacement housing, Hampstead Road	Free-field	67.9 (70.5)	70.2 (72.1)	68.5 (71.0)	68.7 (74.2)	66.9 (76.6)	65.2 (65.7)	67.8 (69.0)	69.7 (71.9)	69.4 (75.1)	67.0 (74.2)	68.7 (79.1)	65.8 (71.3)

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
ARVS	V059	Outside 68 Adelaide Road	4.76 (Z-axis)
	ARBW-V1	Adelaide Road – Beaumont Walk	2.39 (Y-axis)
HRB	V039	Coniston, Regents Park Estate	4.00 (Z-axis)
	V043	Cubitt Court, Park Village East	1.96 (Y-axis)
ETD, TSS	V003	RCGP basement vaults, 305 Euston Road	0.67 (Z-axis)
TSS	V002	RCGP basement boiler room, 305 Euston Road	3.41 (Z-axis)
	V037	Magic Circle, basement	3.05 (Y-axis)
	V038	Wesley Hotel, basement lightwell, Euston Street	3.46 (Z-axis)
NTH-EN	V021	42-44 Cobourg Street (floor)	0.73 (Z-axis)
ESC	PVS-V1	Park Village Studios	1.81 (Y-axis)
ETRC & GTB	SH-V1	Silsoe House	1.62 (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 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	Weekday	08:00 – 18:00	1
B	JC	Juniper Crescent	All days	All periods	No exceedance
ESC	N024	External to Park Village Studios, Park Village East	All days	All periods	No exceedance
	N047	Park Village East/Mornington Street bridge, lamppost #13	All days	All periods	No exceedance
ESC, C	N022	External to 34 Mornington Terrace	All days	All periods	No exceedance
	N046	Mornington Terrace near The Edinboro Castle pub, lamppost #18	All days	All periods	No exceedance
ETRC & GTB	N001	External to Cubitt Court, 100 Park Village East	All days	All periods	No exceedance
	N002	Richmond Court, Park Village East	All days	All periods	No exceedance
	N003	Silsoe House, Park Village East	All days	All periods	No exceedance
ETRC & GTB, D	N004	Mornington Terrace, lamppost #7	All days	All periods	No exceedance

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
ETRC & GTB, E	N005	5A Granby Terrace	All days	All periods	No exceedance
			All days	All periods	No exceedance
E	CR	Lamppost #2 on Clarkson Row	All days	All periods	No exceedance
ETRC & GTB, F	N023	Lamppost #21 on Hampstead Road	All days	All periods	No exceedance
HRB	N019	Outside Cartmel, Hampstead Road	All days	All periods	No exceedance
	N020	Mackworth Street, lamppost #1	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	No exceedance
	N045	Regents Park Estate south, external to Coniston	Weekday	08:00 – 18:00	1
			Saturday	08:00 – 13:00	2
G, H	HH	Euston Station Parcel Deck, Barnby Street	All days	All periods	No exceedance
G	BS	Roof of Stockbeck House, Barnby Street	All days	All periods	No exceedance
ETD, TSS	N006	RCGP Roof level	All days	All periods	Not applicable*
TSS	N008	RCGP Stephenson Way	All days	All periods	Not applicable*
	N010	Wesley Hotel	All days	All periods	Not applicable*
	N011	Outside 82 Euston Street	All days	All periods	No exceedance
ETD	N007	RCGP, Melton Street	All days	All periods	No exceedance
VHA	N025	External to 3 Prince Albert Road	All days	All periods	No exceedance
	N026	Thames Water Compound	All days	All periods	No exceedance
NTH-EN	N012	Opposite 92-94 Drummond Street	All days	All periods	No exceedance

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
	N014	Starcross Street lamppost (external to Exmouth Arms)	All days	All periods	No exceedance
NTH-EN	N016	Margarete Centre roof	All days	All periods	No exceedance
	N017	Hampstead Road, lamppost #48	All days	All periods	No exceedance
NTH-N	N018	Outside replacement housing, Hampstead Road	All days	All periods	No exceedance

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

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

Table 6: Summary of Total Exceedances of SOAEL

Worksite Reference	Measurement Reference	Monitor Address	Total of SOAEL exceedances in the month
HRB	N045	Regents Park Estate south, external to Coniston	3
ARVS	N052	Adelaide Road, Beaumont Walk	1

2.2.6 Four (4) exceedances of the SOAEL were measured during January 2022 at monitoring location N045 during one weekday period and two Saturday daytime periods, and monitoring location N052 during one weekday period.

2.3 Exceedances of Trigger Level

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

Table 7: Summary of Exceedances of Trigger Levels

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

2.4 Complaints

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

Table 8: Summary of Complaints

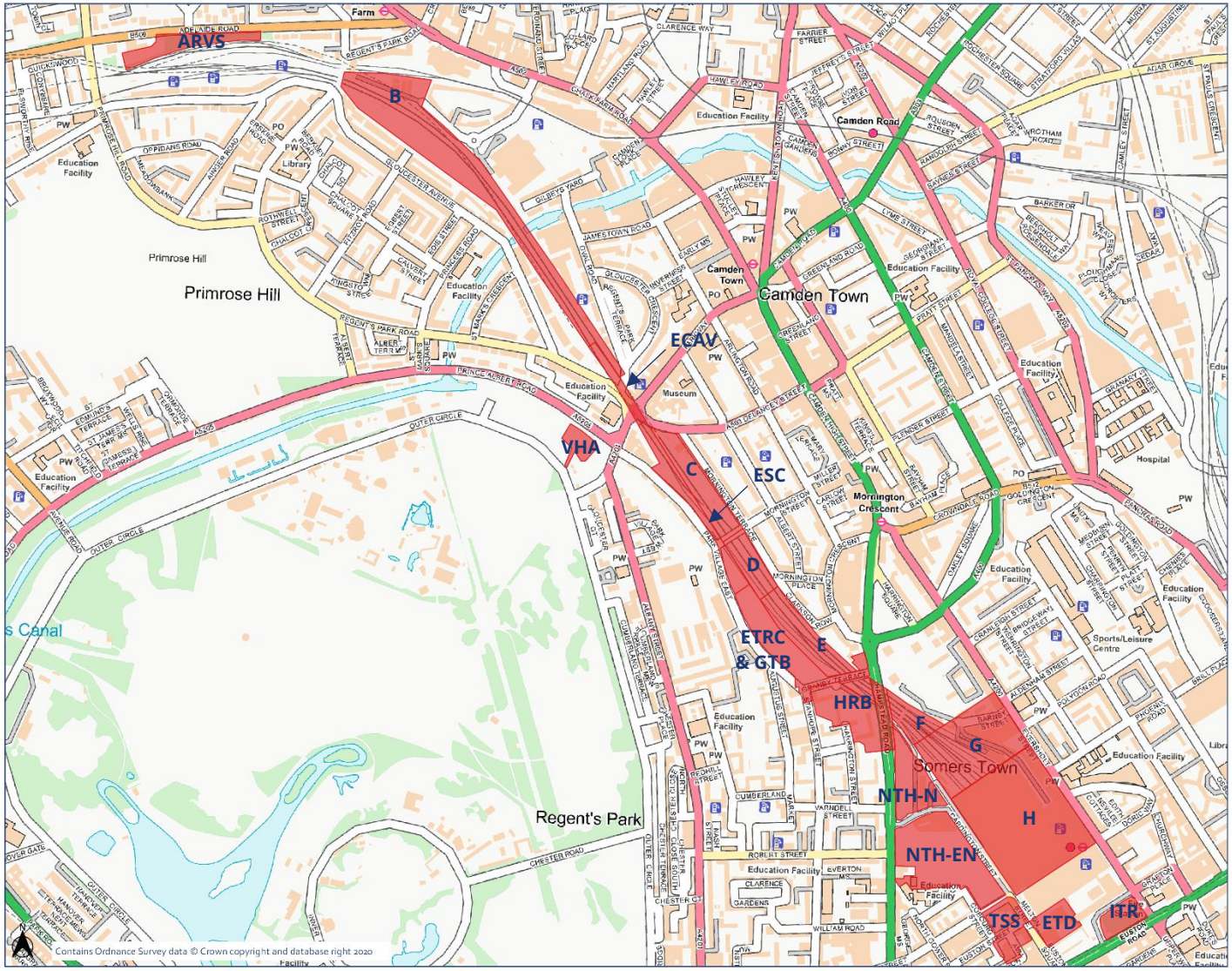
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-22-71660-E-C	ESC	Complaint from stakeholder regarding construction noise out of main core working hours.	Works were being undertaken in compliance with permitted hours. Noise levels for out of hours works were within the Section 61 predicted levels and best practicable means were used during the works.	A meeting was arranged with the stakeholder and a response was provided detailing the findings of the investigation.
HS2-22-43191-C	ETRC	Complaint about construction noise during a weekend period.	Works were being undertaken in compliance with permitted hours. Noise levels for out of hours works were within the Section 61 predicted levels and best practicable means were used during the works.	A response was provided to the complainant detailing the findings of the investigation.

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-22-43152-C	NTH-EN	Complaint due to noise from piling works taking place after 18:00.	As a result of physical site constraints, piling works overran to 18:30. This delayed completion of a pile which needed to be backfilled for engineering stability purposes. The overrun was confirmed the following morning and Camden Council was made aware.	The overrun notification procedure was reviewed and piling works were reprogrammed to start before 11:00 to ensure they could be completed before 18:00. Information was provided to the Stakeholder on the results of the investigation and subsequent actions.

Appendix A Site Locations

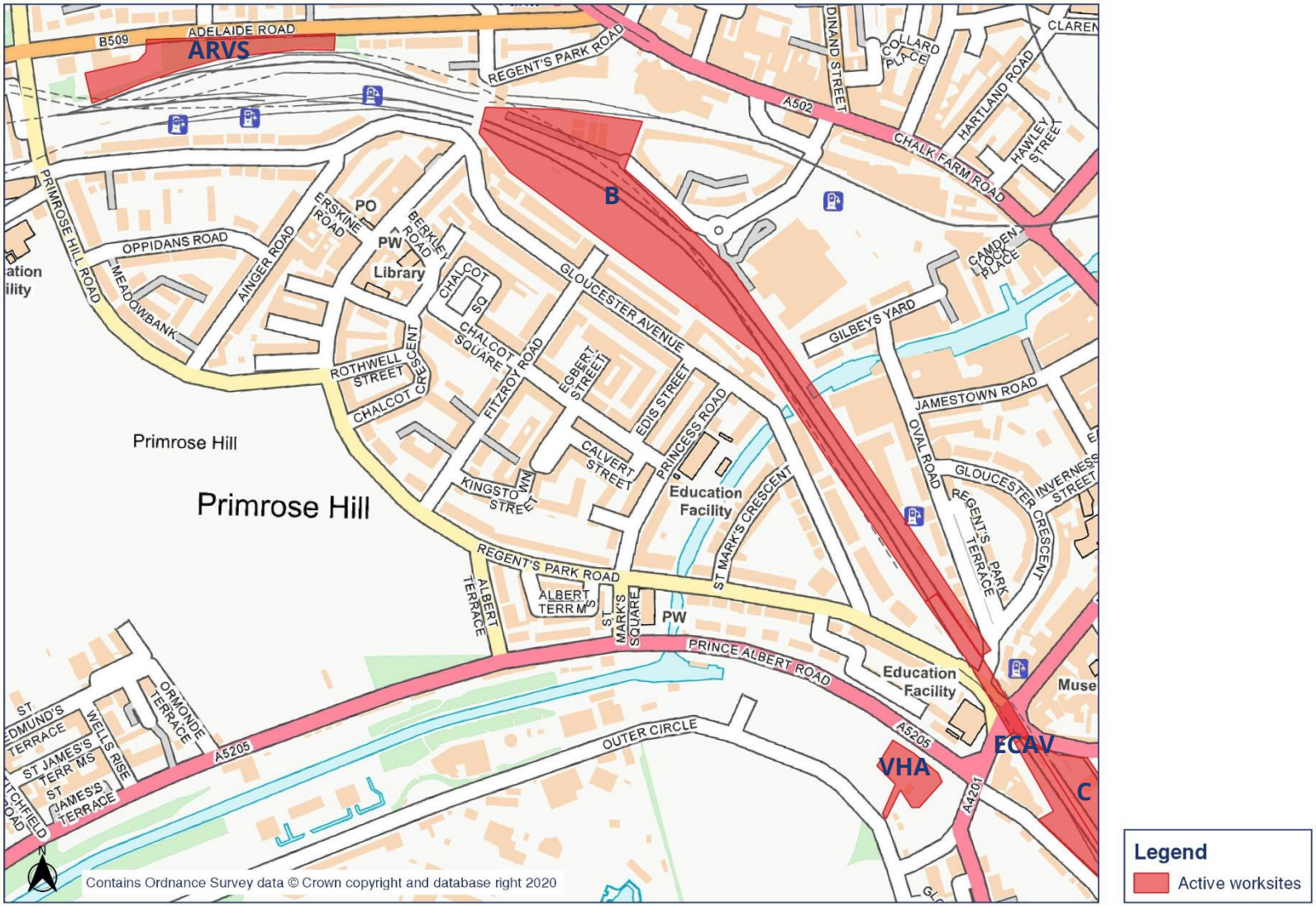
HS2

Worksite identification plan - Overview



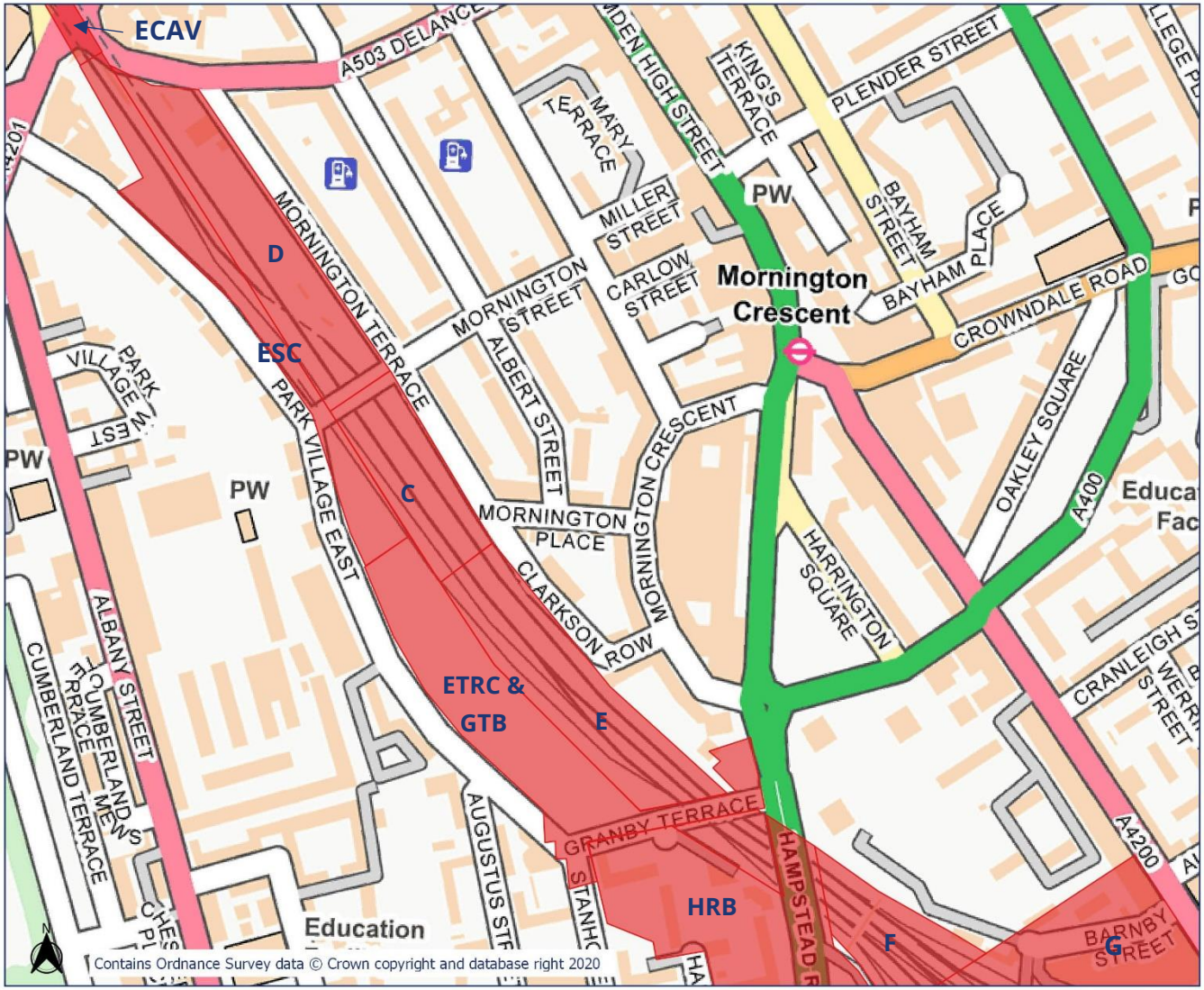
HS2

Worksite identification plan - 1



HS2

Worksite identification plan - 2

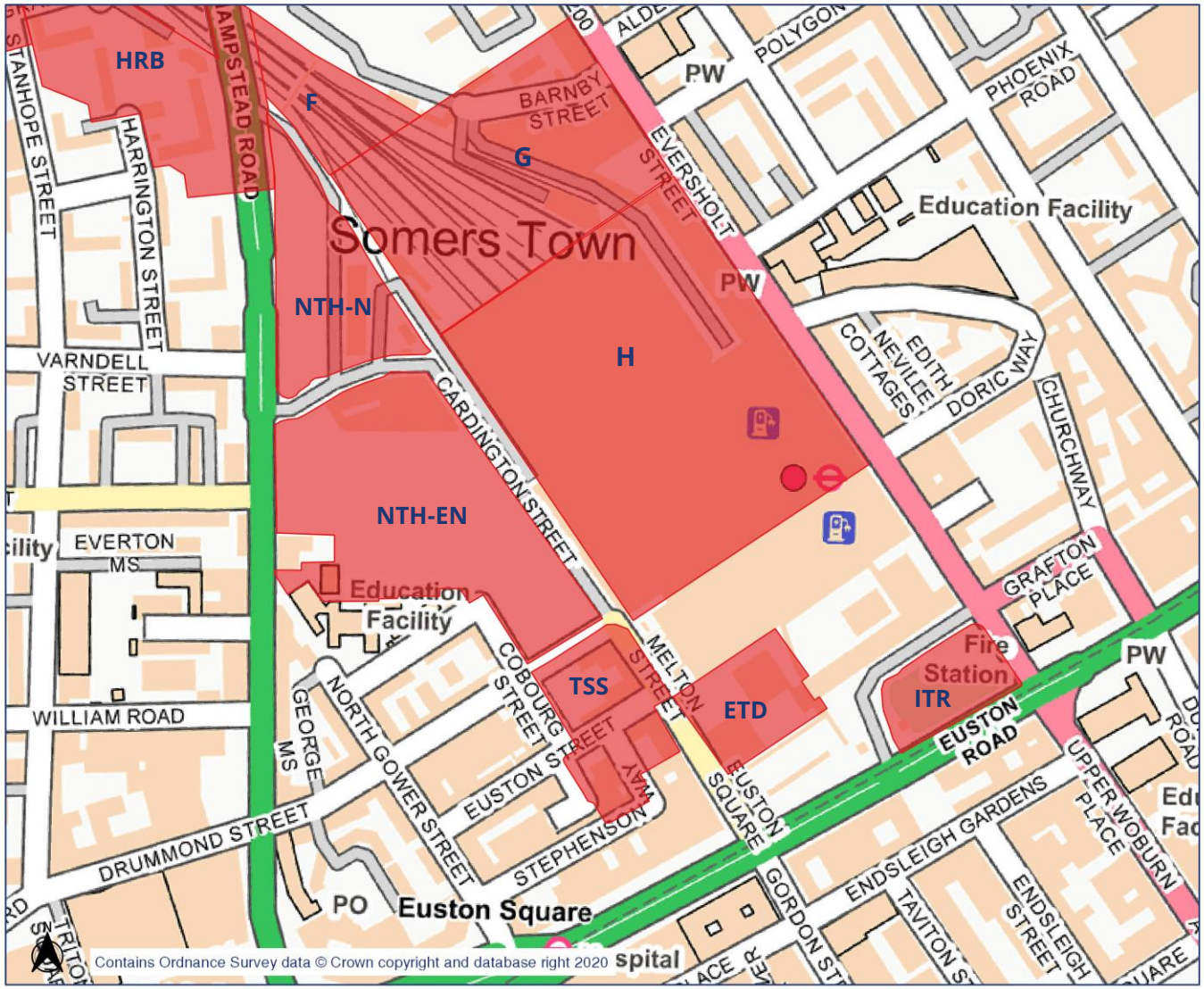


Legend

Active worksites

HS2

Worksite identification plan - 3



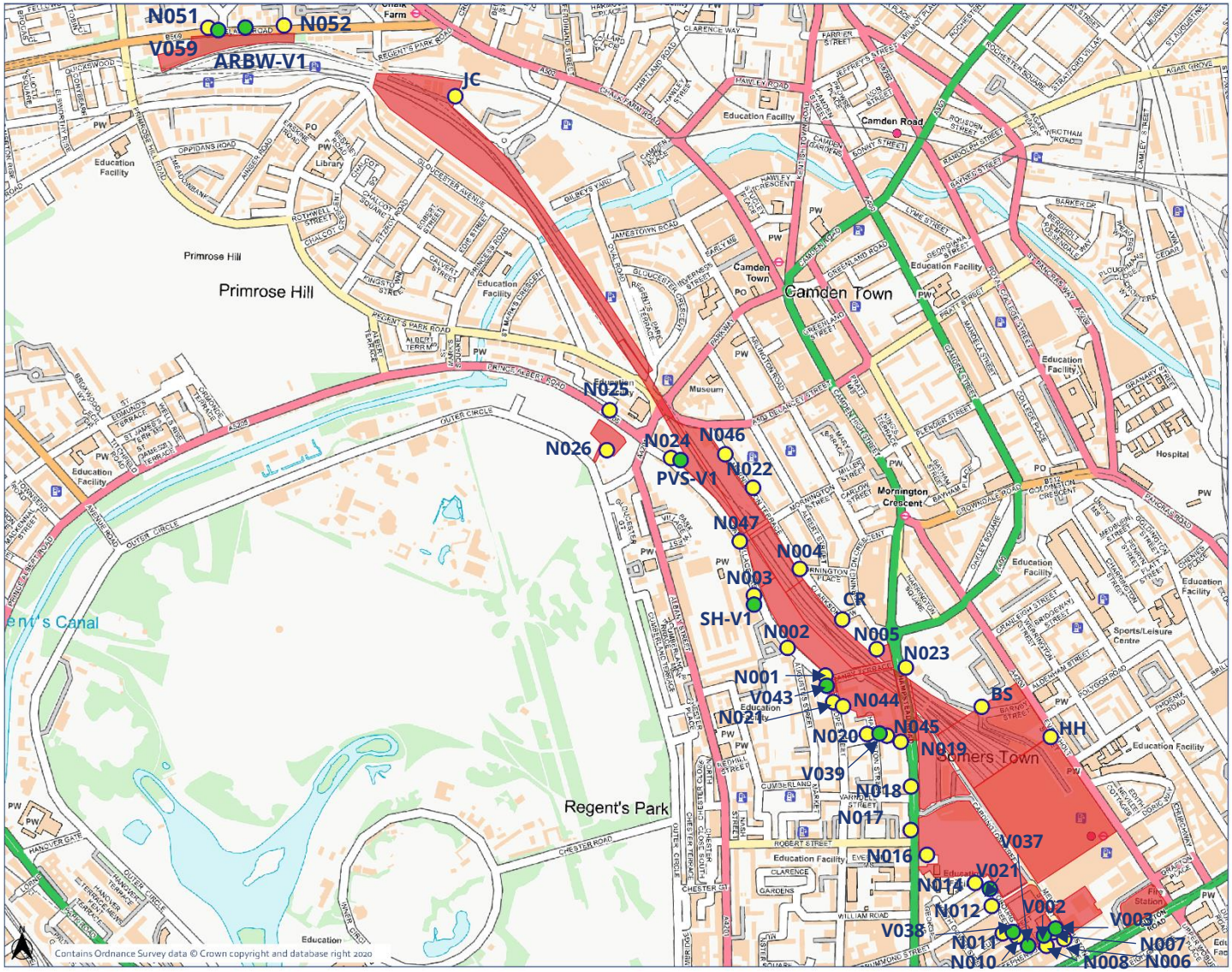
Legend

Active Worksites

Appendix B Monitoring Locations

HS2

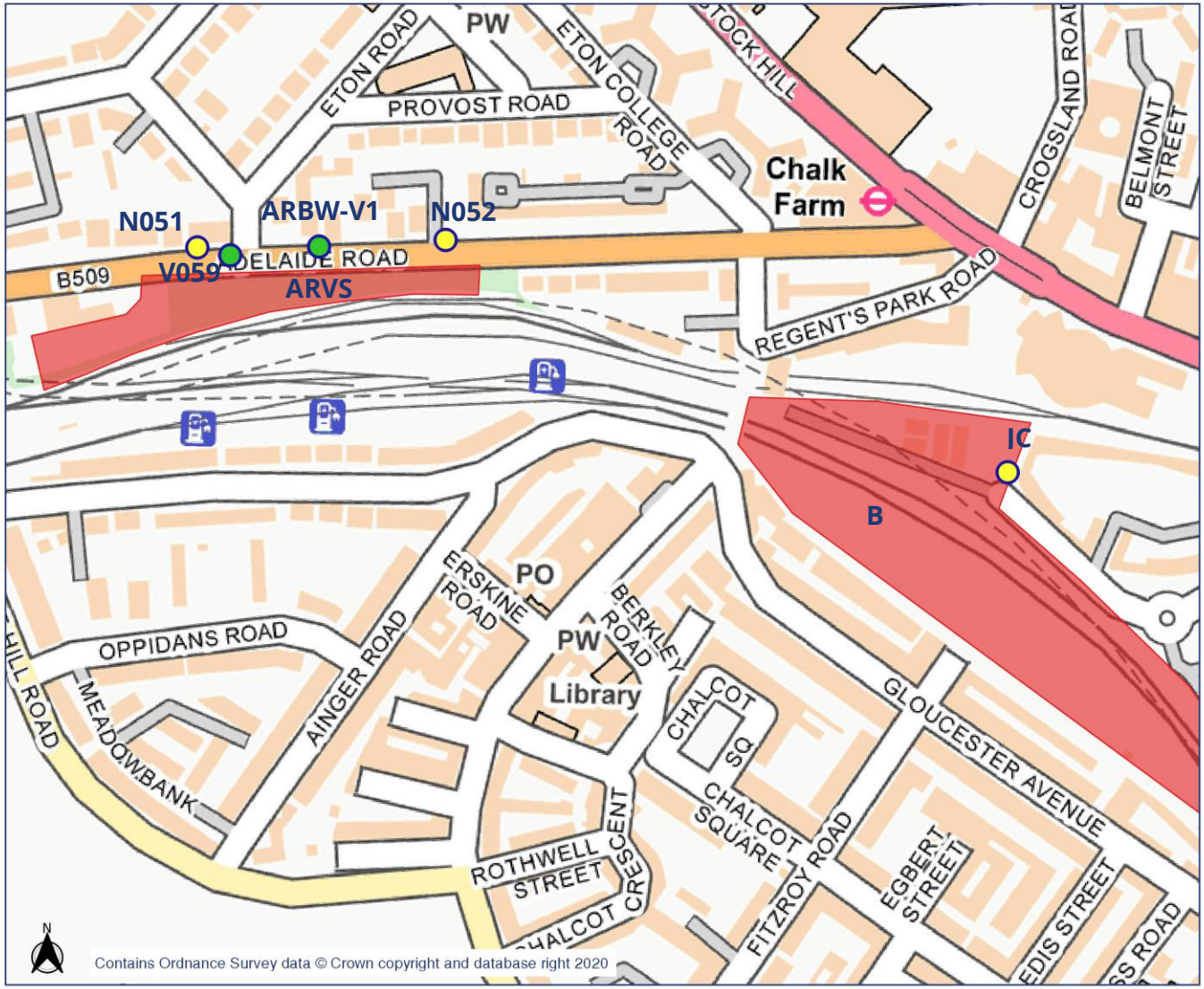
Noise and vibration monitoring plan - Overview



Legend
- Noise Monitor
- Vibration Monitor
- Active Worksites

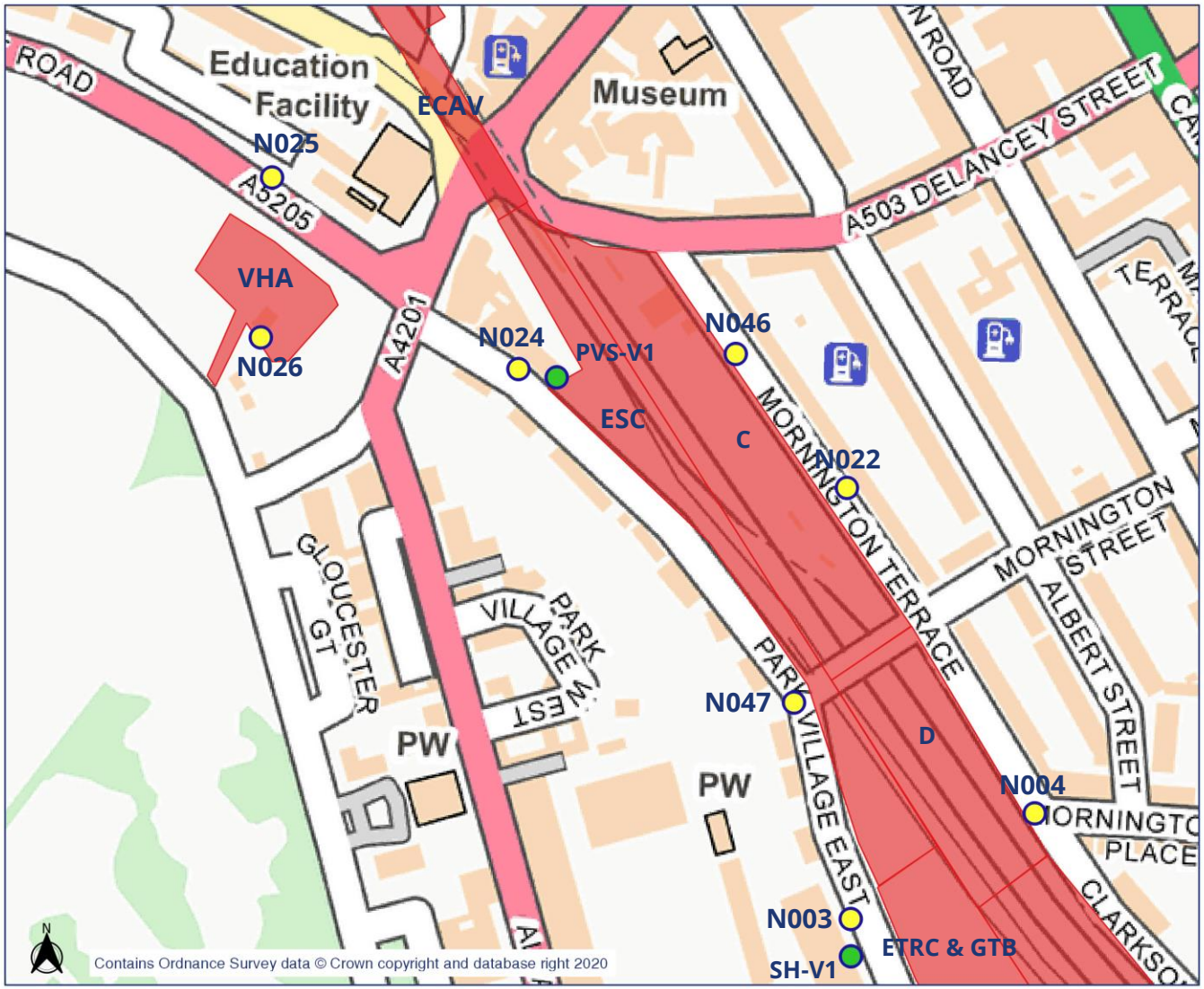
HS2

Noise and vibration monitoring plan - 1



HS2

Noise and vibration monitoring plan - 2

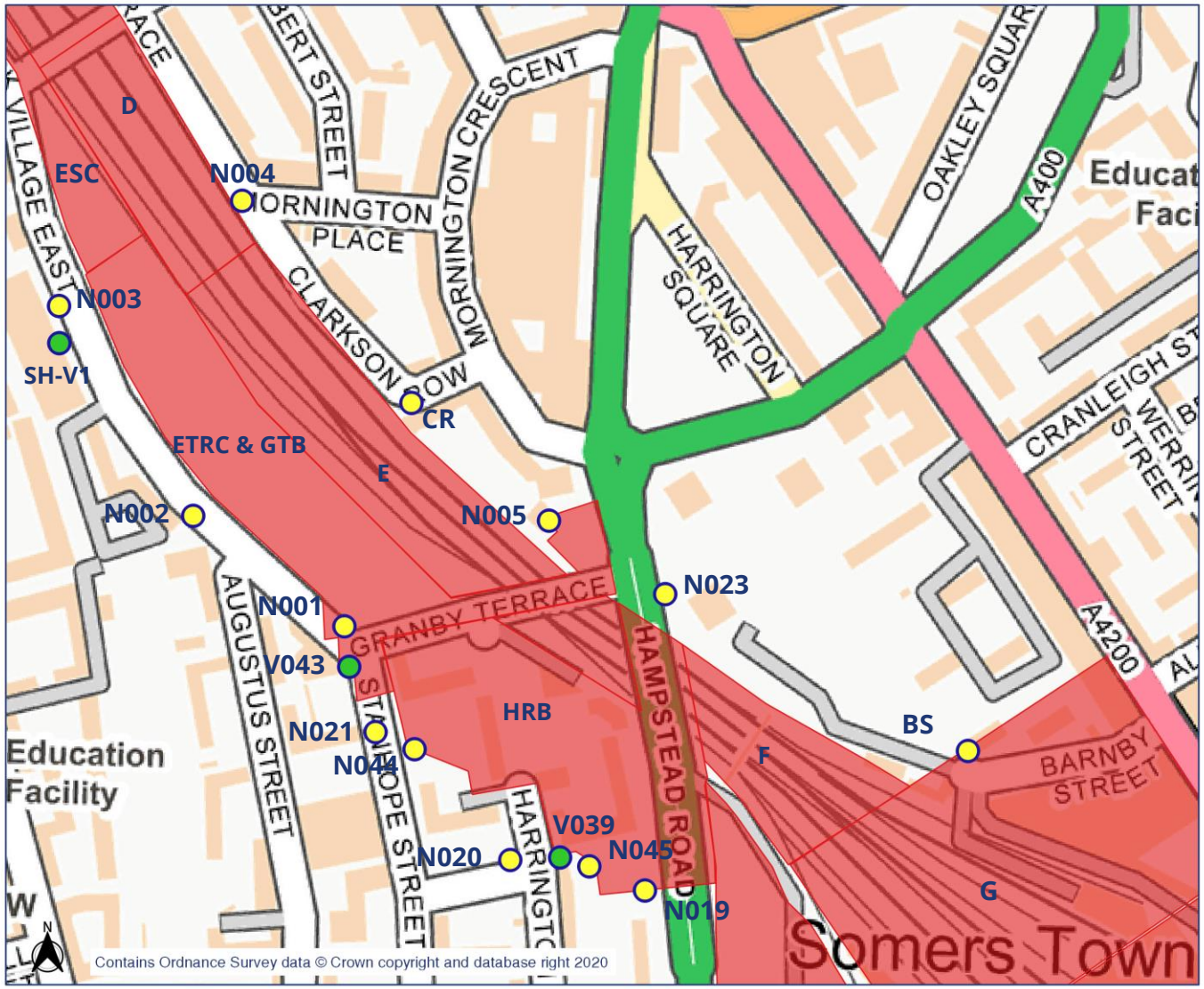


Legend

- Noise Monitor
- Vibration Monitor
- Active Worksites

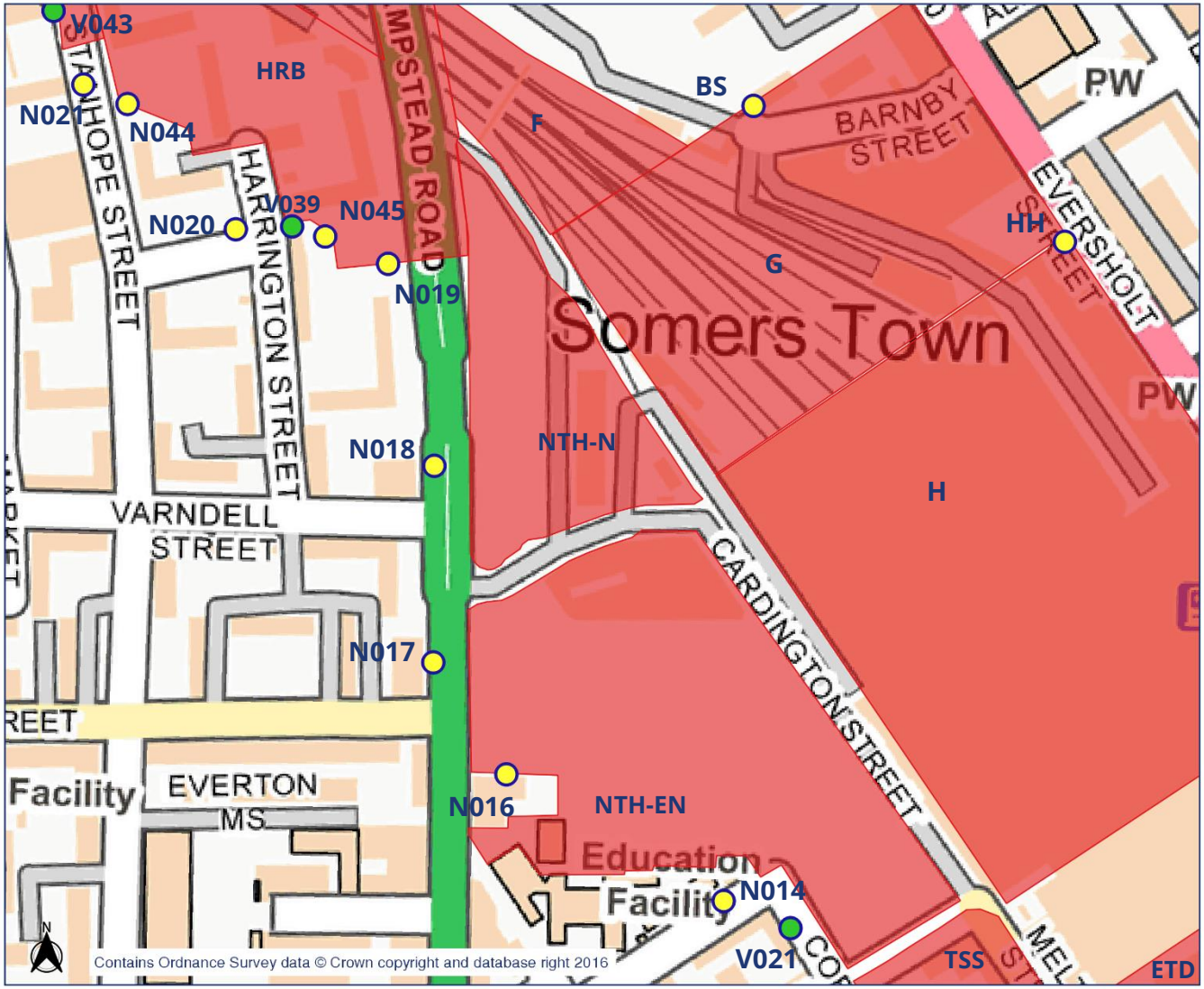
HS2

Noise and vibration monitoring plan - 3



HS2

Noise monitoring plan - 4

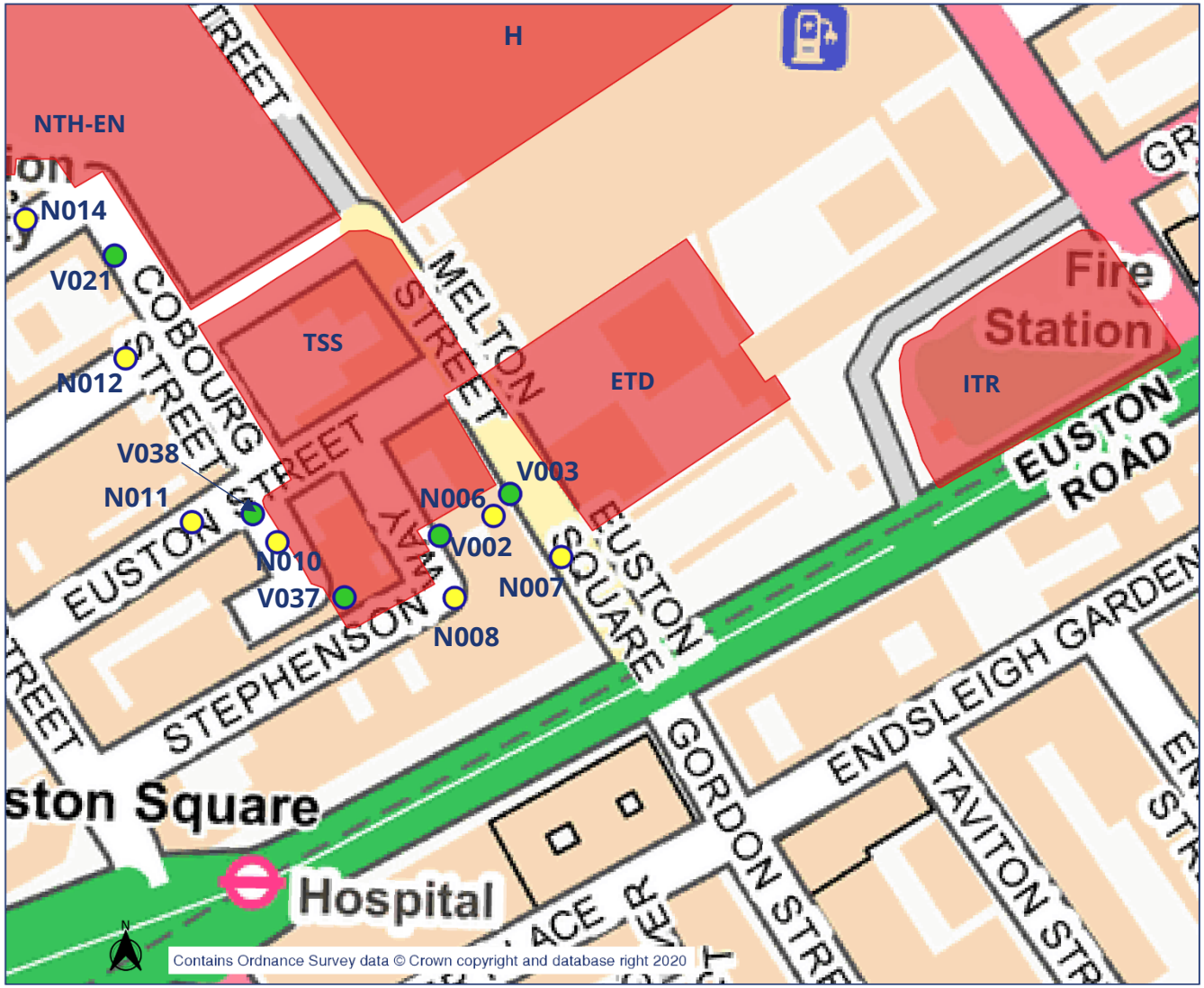


Legend

- Noise Monitor
- Vibration Monitor
- Active Worksites

HS2

Noise and vibration monitoring plan - 5



Legend

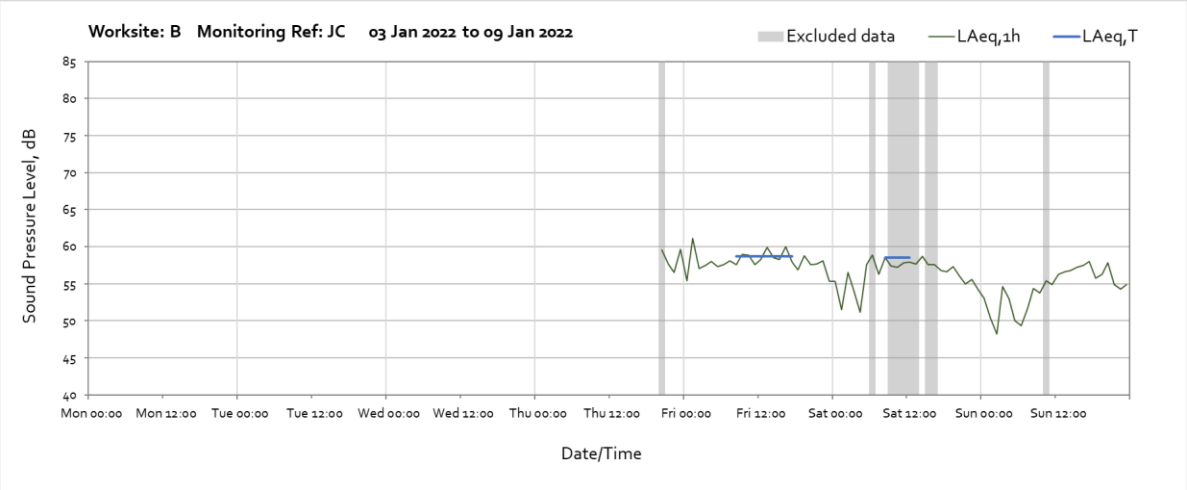
- Noise Monitor
- Vibration Monitor
- Active Worksites

Appendix C Data

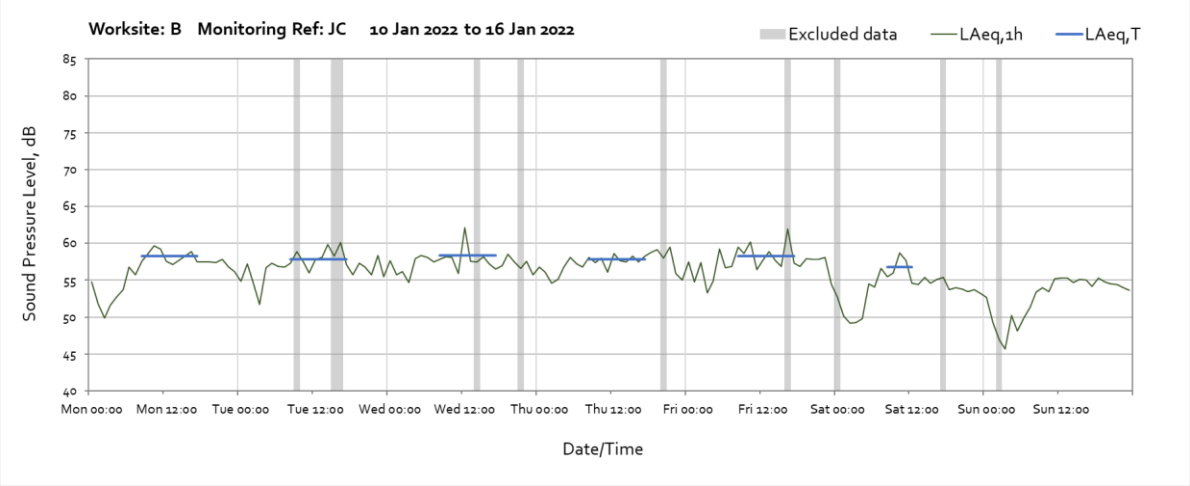
The following graphs show the hourly measured ambient noise level $L_{Aeq,1h}$ and, where relevant, the averaged noise level $L_{Aeq,T}$ values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods with adversely weather affected noise levels are greyed out and have been excluded from the calculation of the $L_{Aeq,T}$ values in Table 3 of the main report.

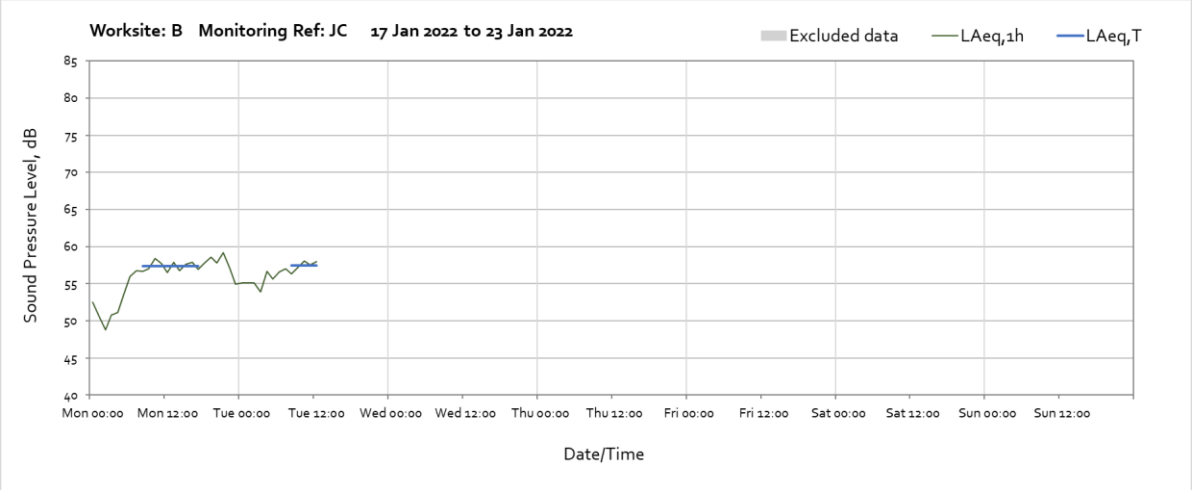
Noise

Worksite: B – Monitoring Ref: JC



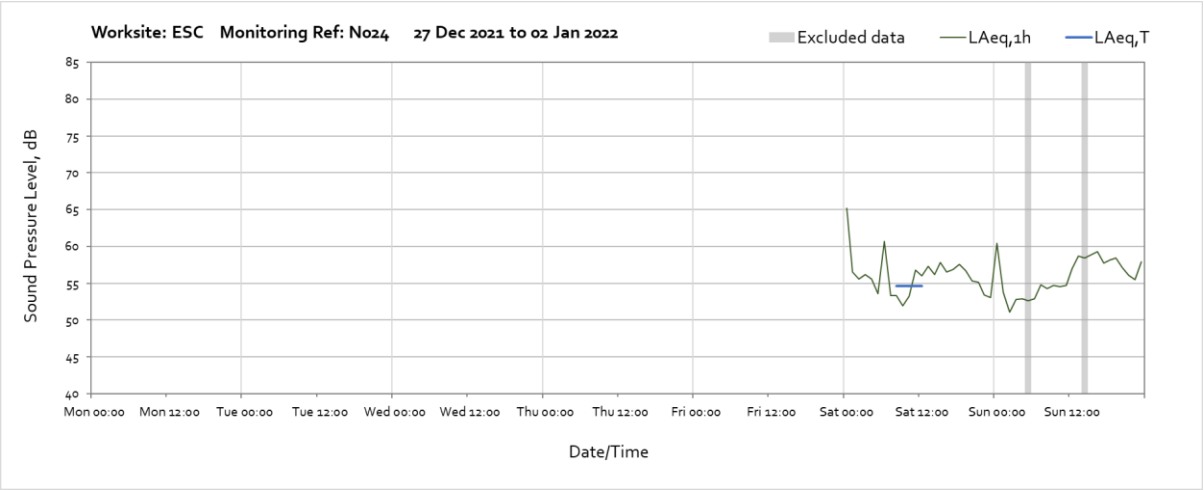
Note: Missing data from the start of the month until 20:00 on Thursday 6th January was due to loss of power to the monitoring station caused by a damaged power supply unit.

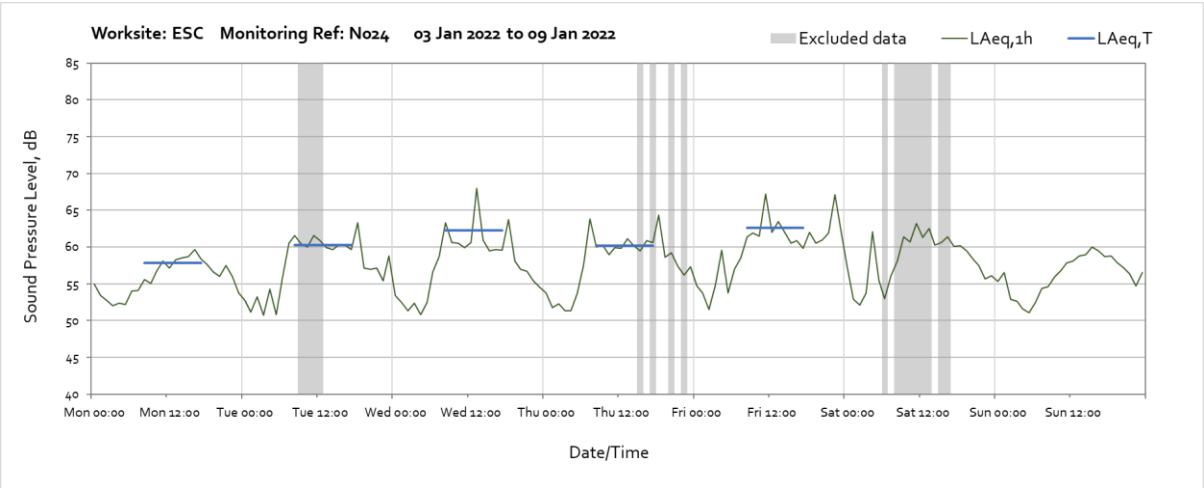


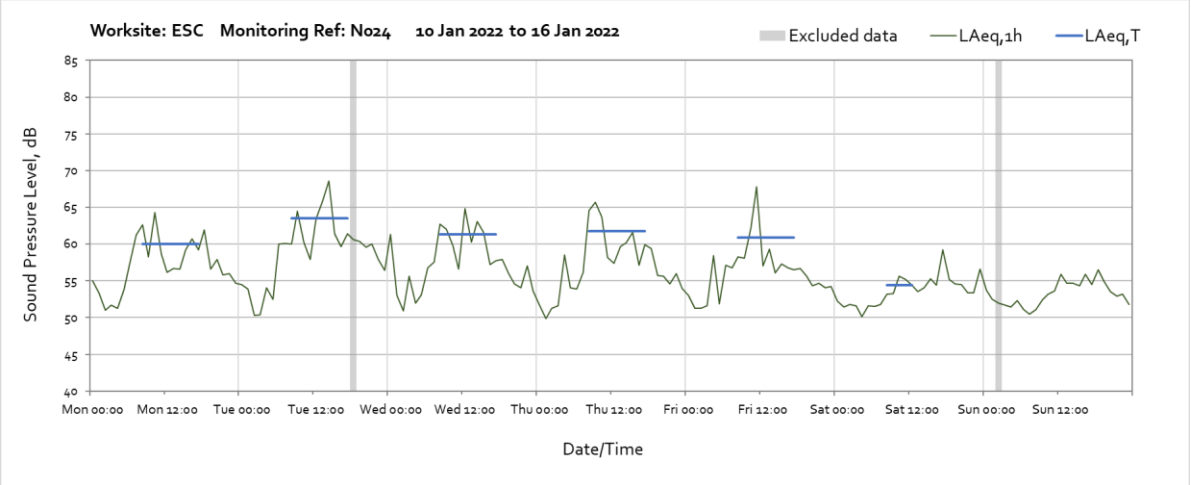


Note: Missing data from 12:00 on Tuesday 18th January until the end of the month was due to loss of power to the monitoring station caused by a damaged power supply unit. The power supply unit has been repaired with view of minimising loss of data in the future.

Worksite: ESC – Monitoring Ref: N024



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LAeq,T
Sound Pressure Level, dB
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80
75
70
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55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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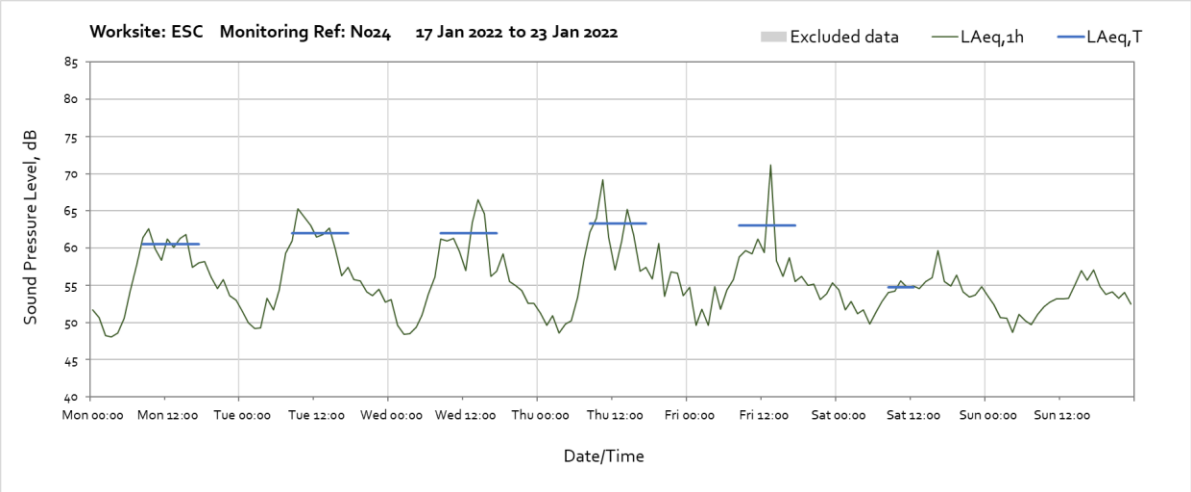
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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80
75
70
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45
40
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Mon 12:00
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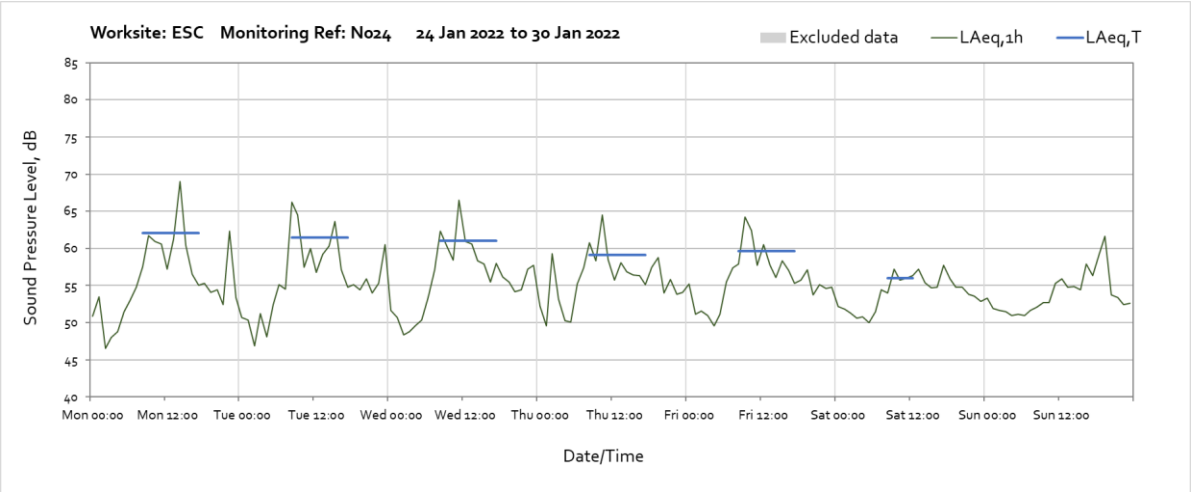
Date/Time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LAeq,T
Sound Pressure Level, dB
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70
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Tue 12:00
Wed 00:00
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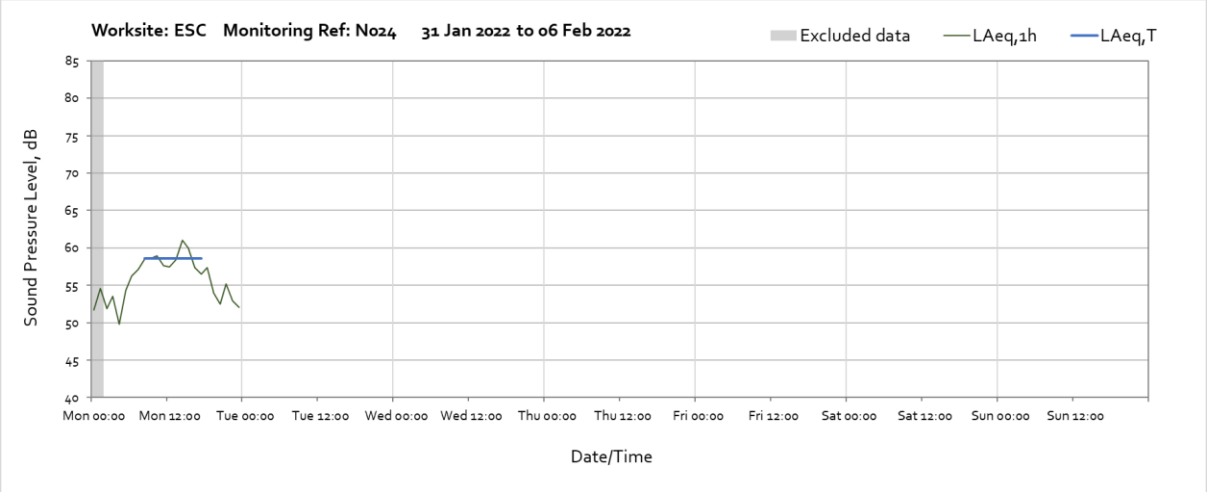
Date/Time



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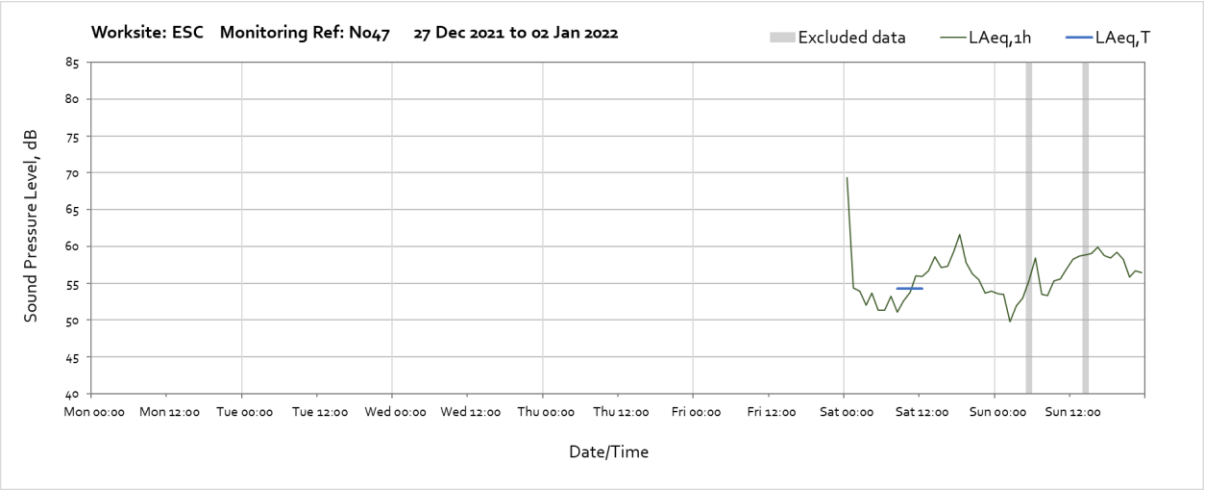

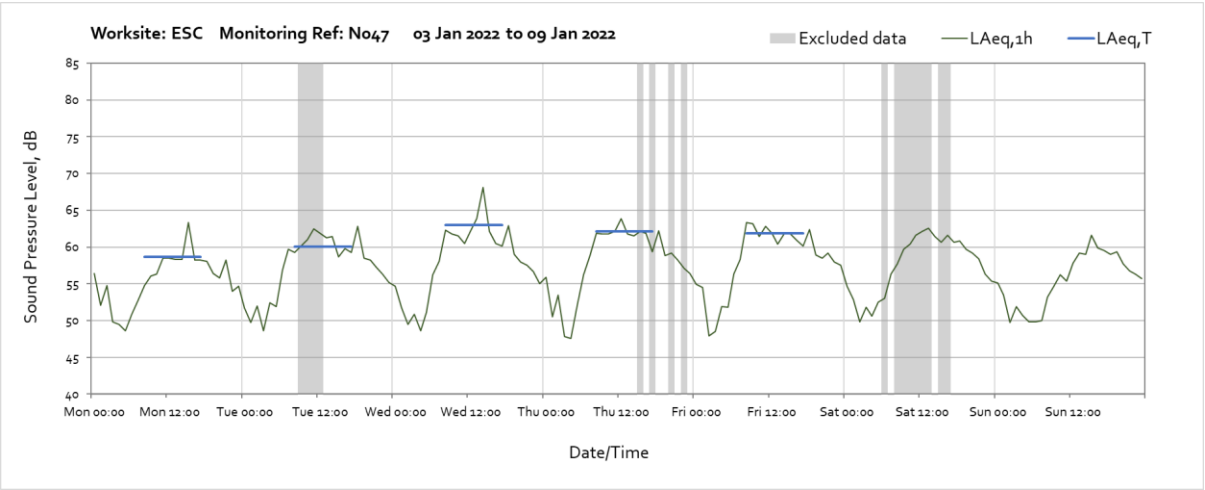

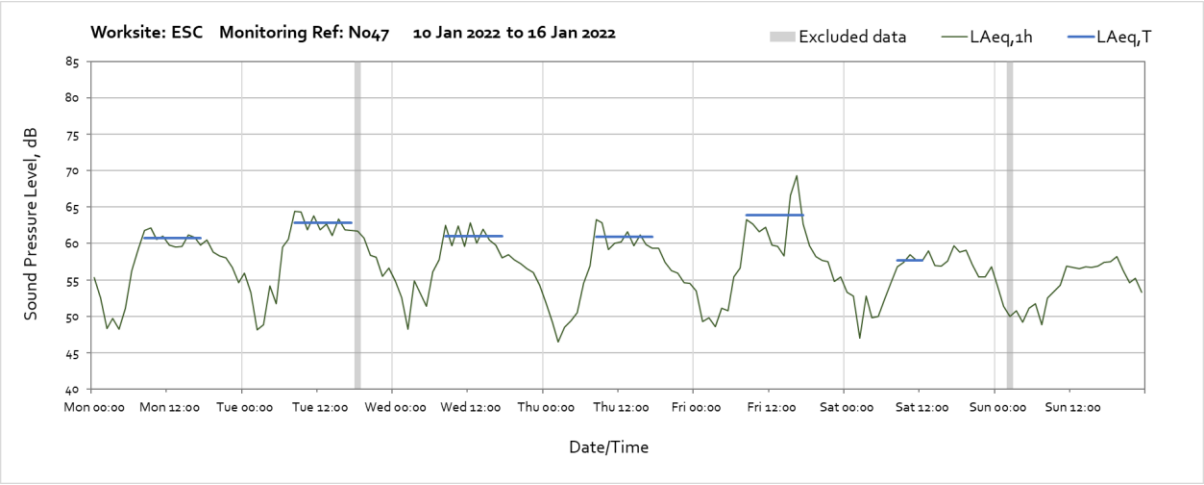
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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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80
75
70
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55
50
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40
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Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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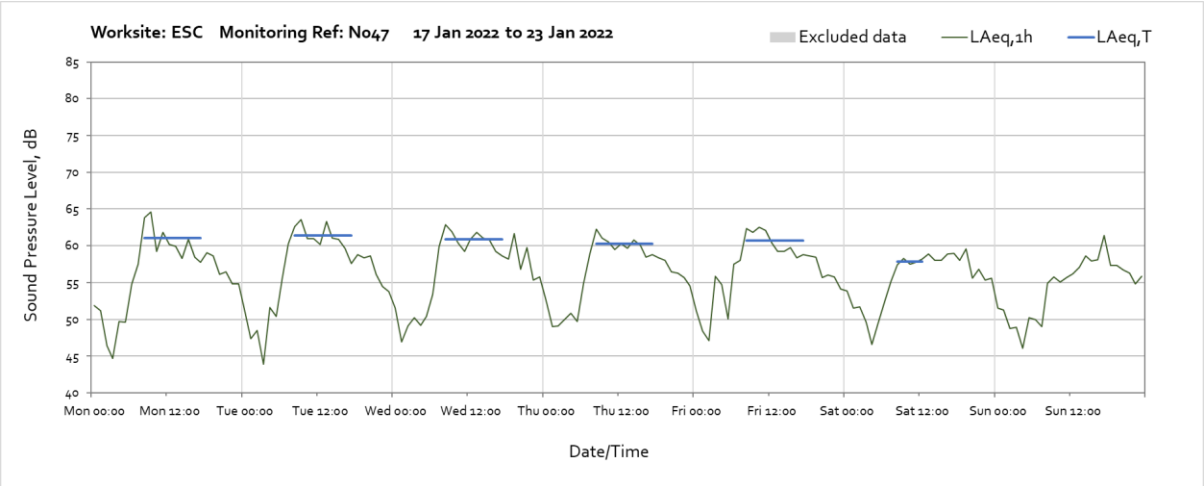
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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80
75
70
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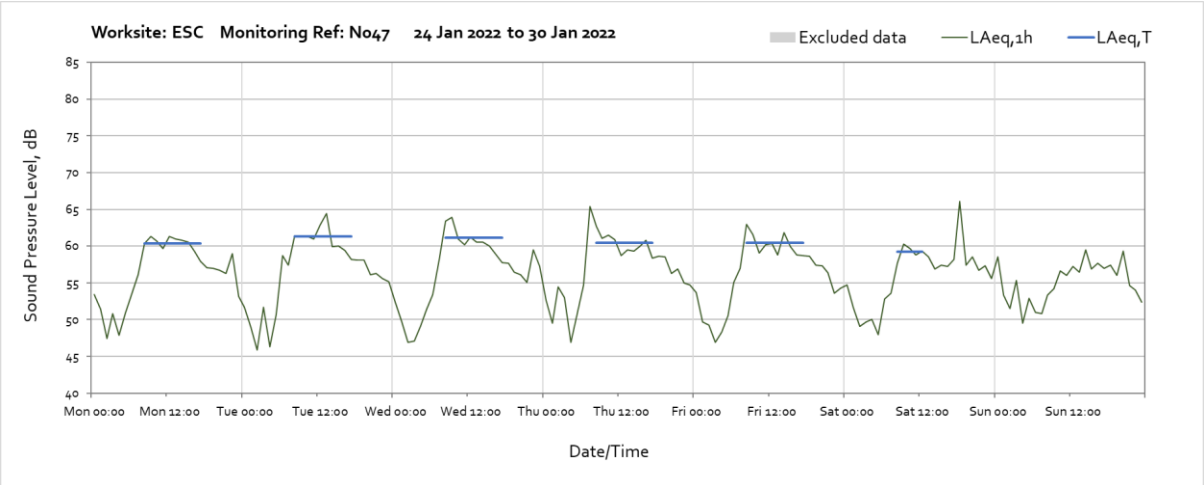
Date/Time


Worksite: ESC Monitoring Ref: N047 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
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55
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40
Mon 00:00
Mon 12:00
Tue 00:00
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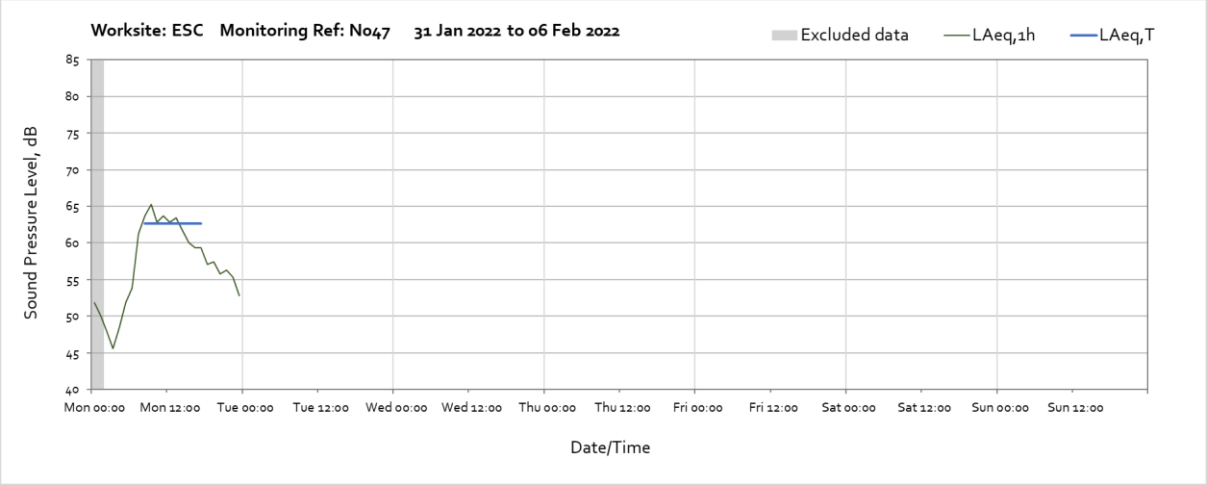
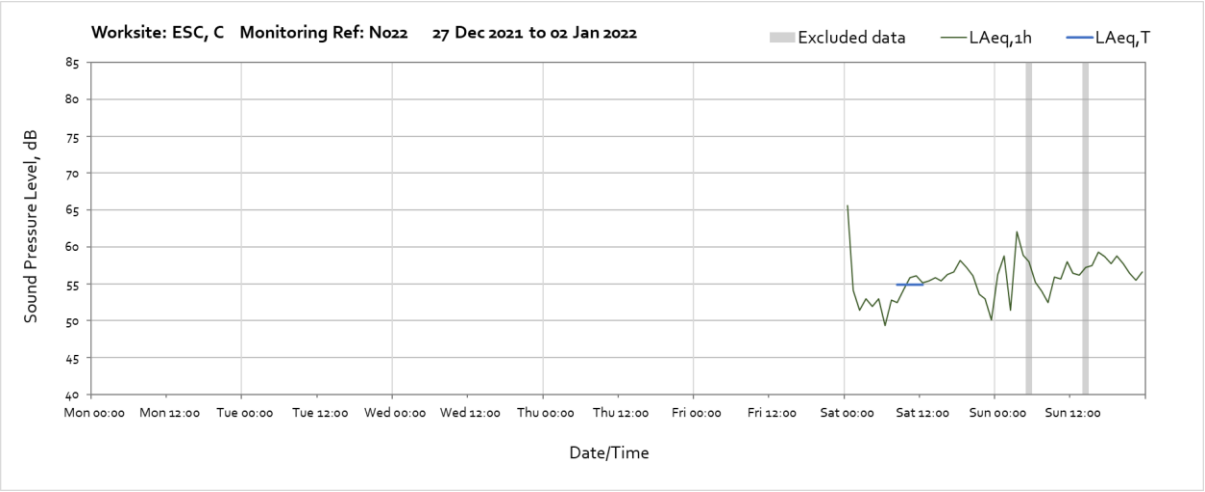
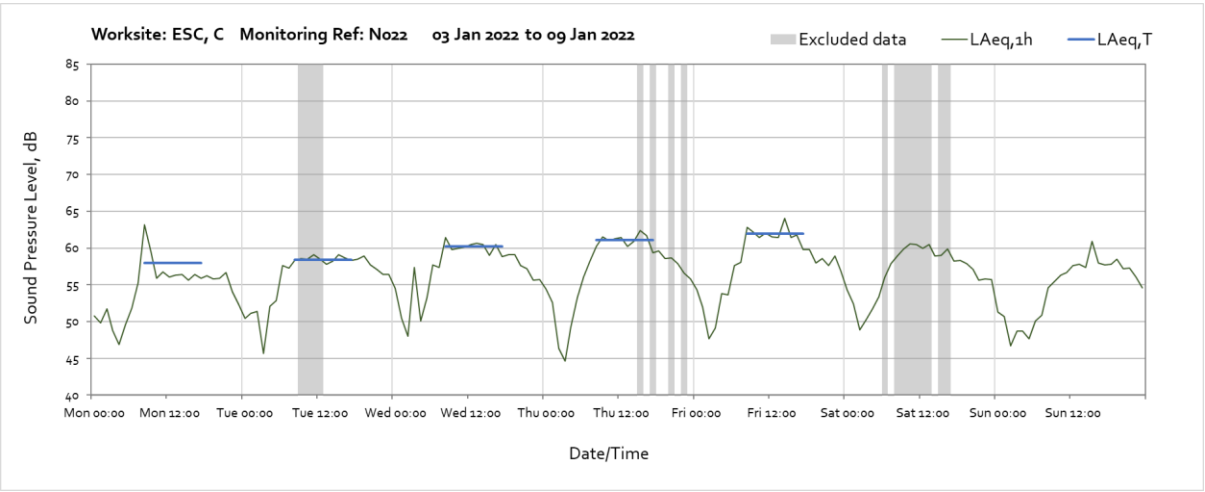
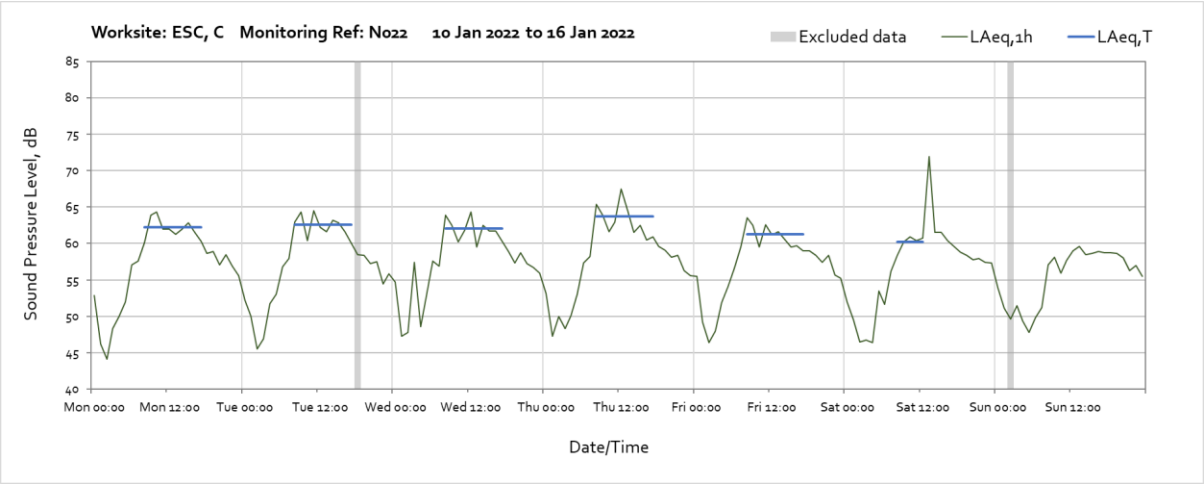
Sun 12:00
Date/Time



Worksite: ESC, C – Monitoring Ref: N022






Worksite: ESC, C Monitoring Ref: No22 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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55
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Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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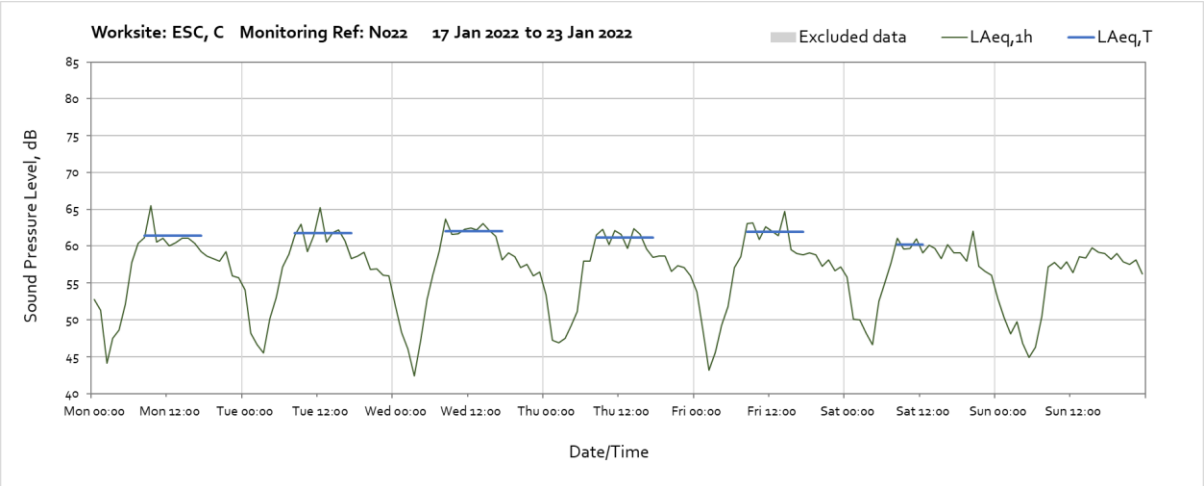
Sun 12:00
Date/Time


Worksite: ESC, C Monitoring Ref: No22 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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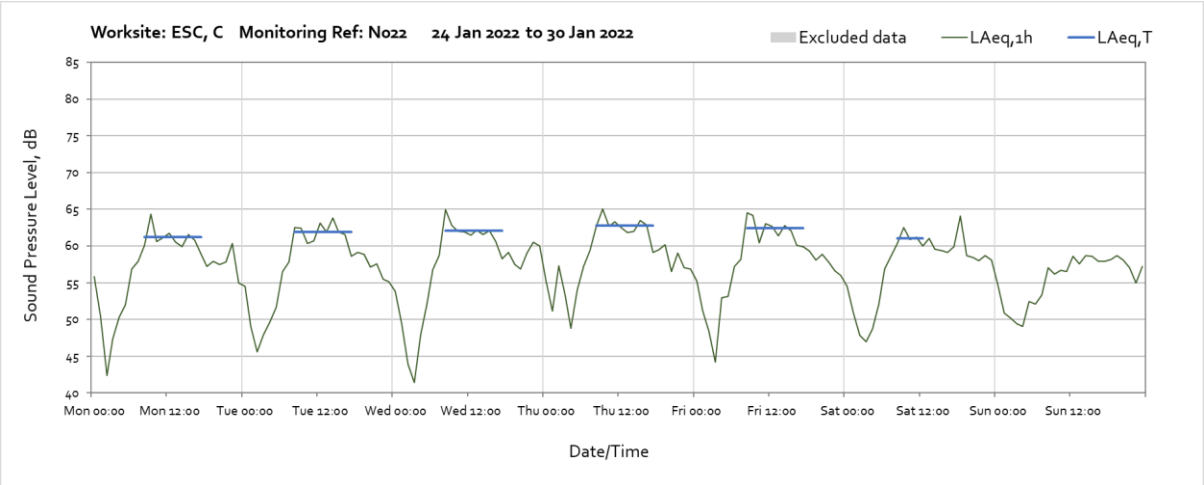
Date/Time


Worksite: ESC, C Monitoring Ref: No22 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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65
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50
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Mon 00:00
Mon 12:00
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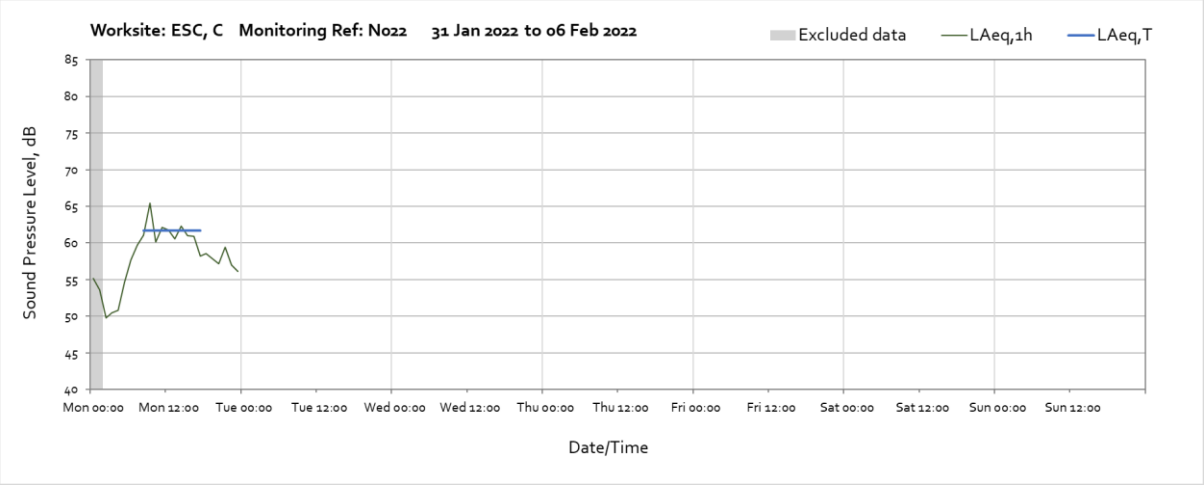
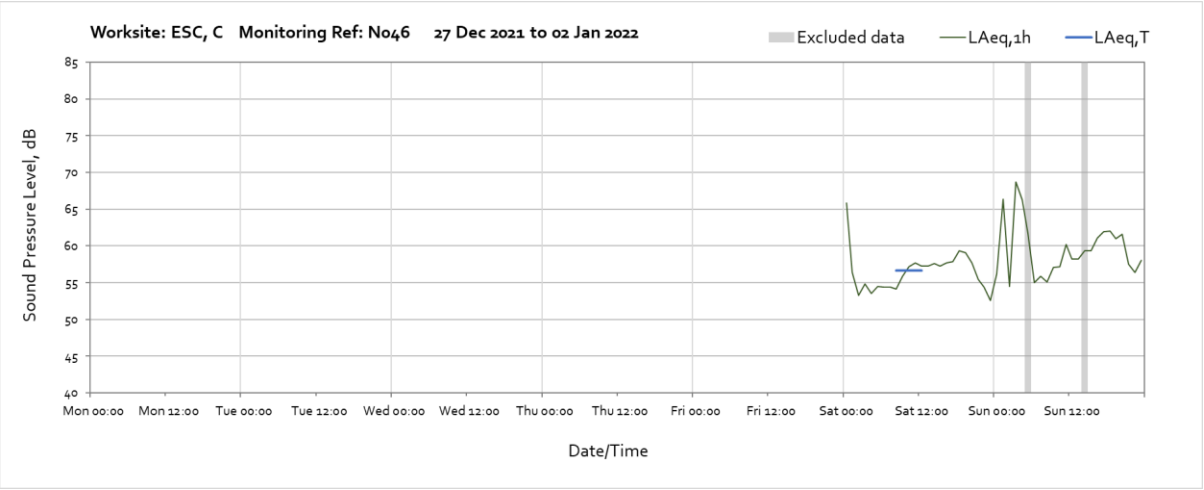
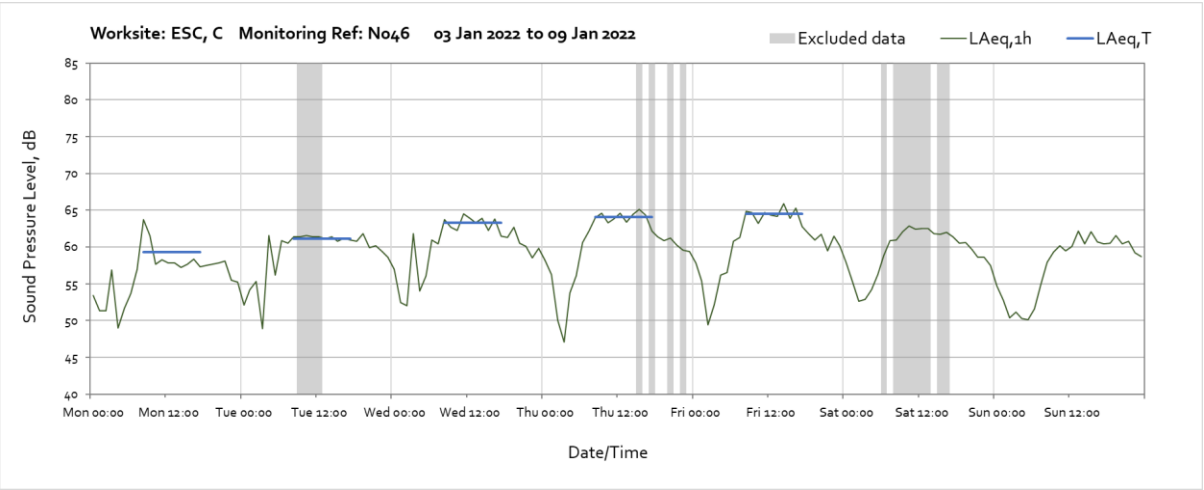
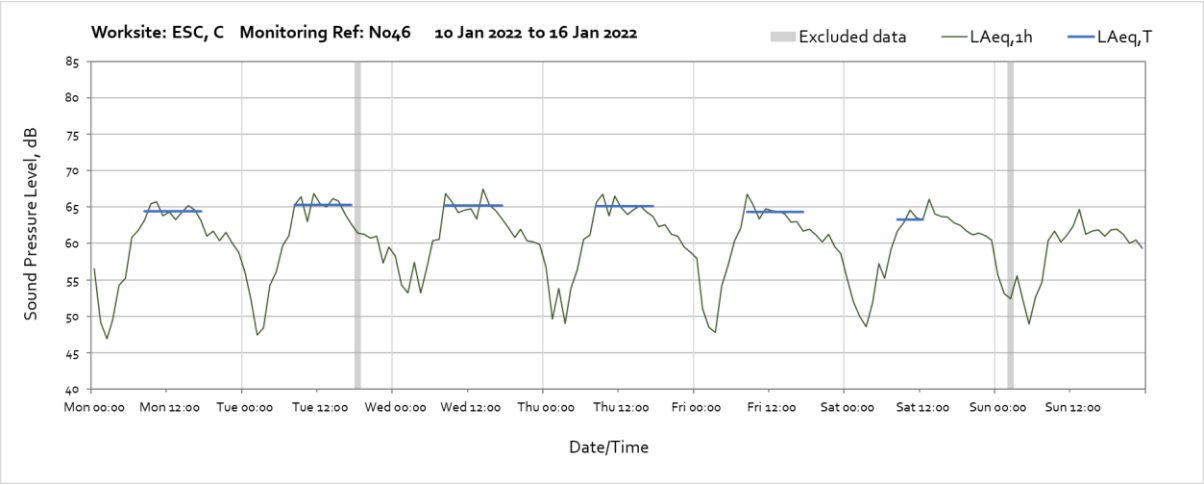
Date/Time



Worksite: ESC, C – Monitoring Ref: N046






Worksite: ESC, C Monitoring Ref: No46 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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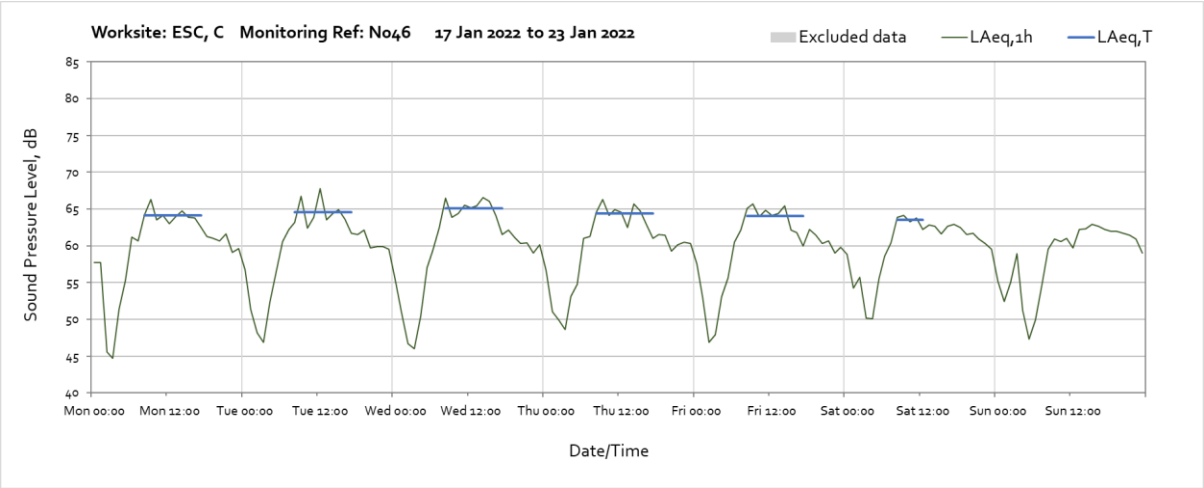
Date/Time


Worksite: ESC, C Monitoring Ref: No46 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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60
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50
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40
Mon 00:00
Mon 12:00
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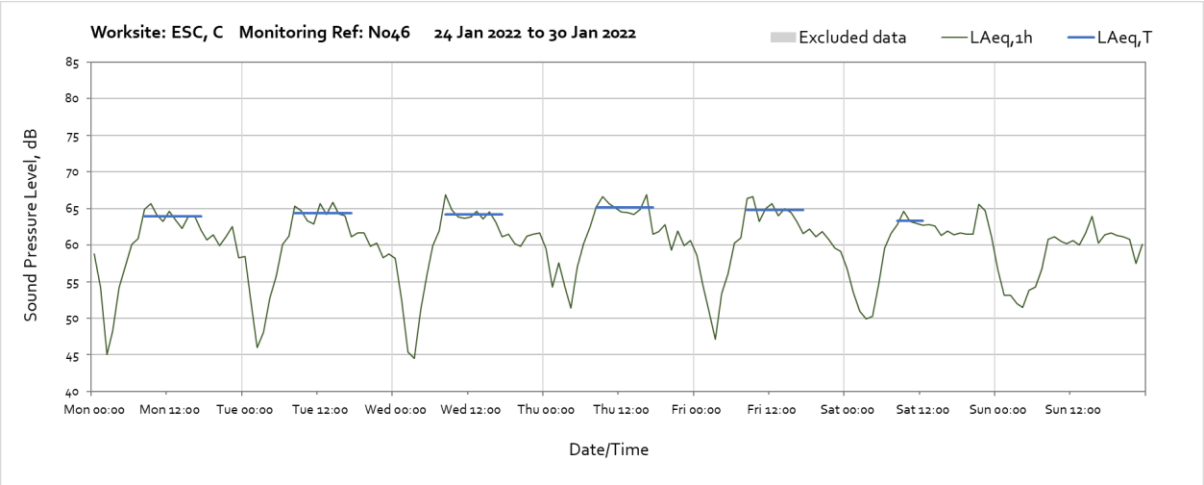
Sun 12:00
Date/Time


Worksite: ESC, C Monitoring Ref: No46 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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75
70
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60
55
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Mon 00:00
Mon 12:00
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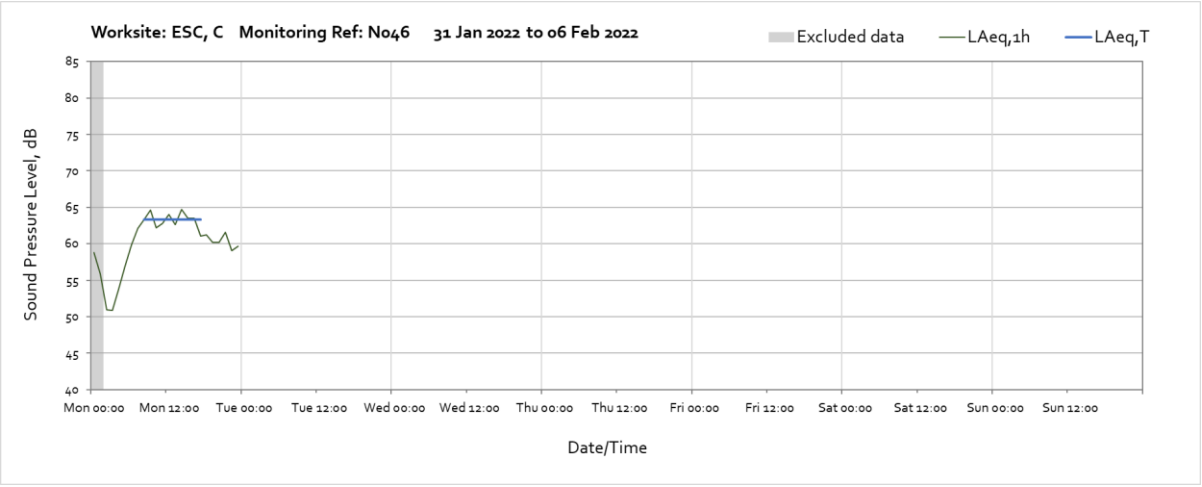
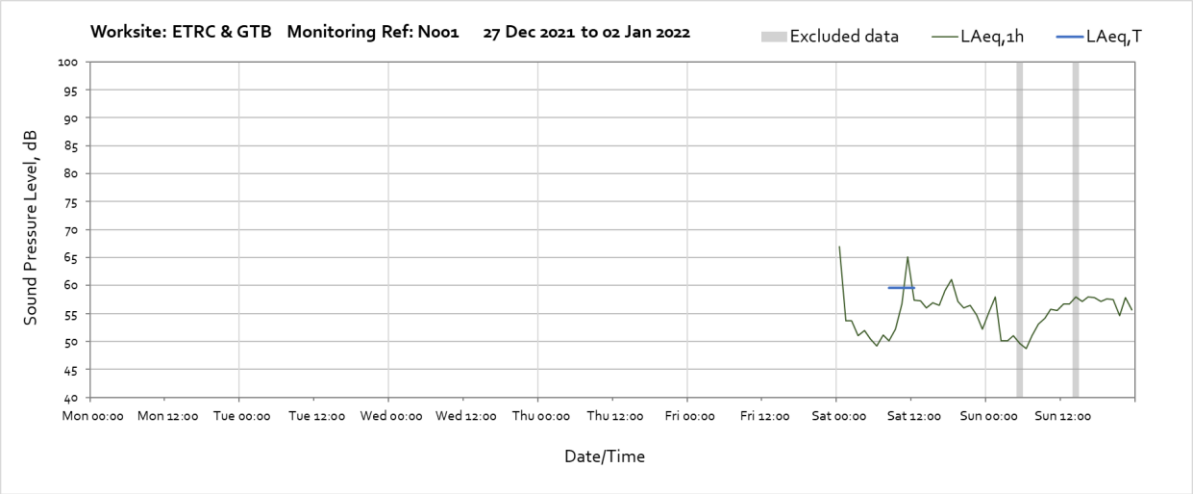
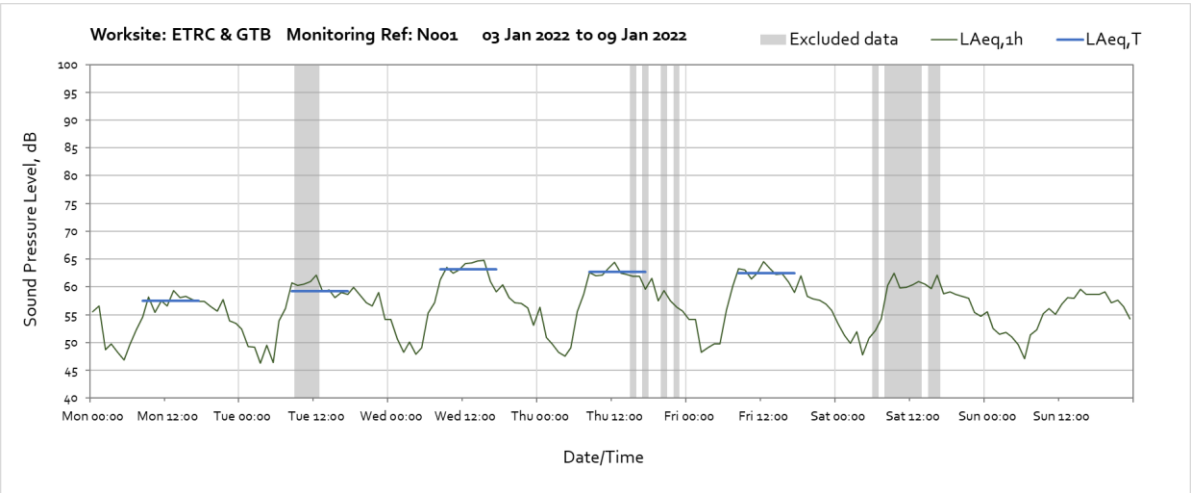
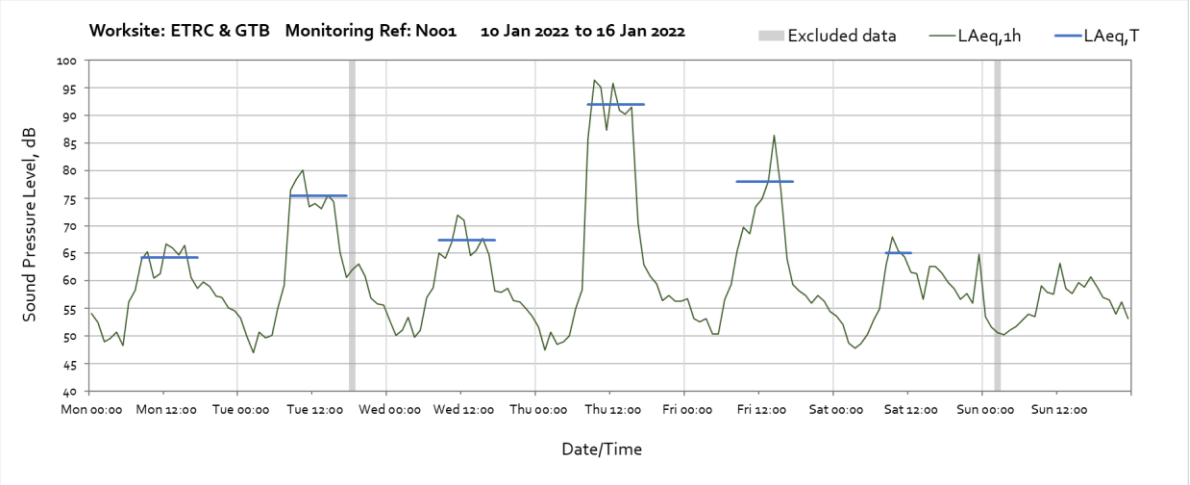
Date/Time



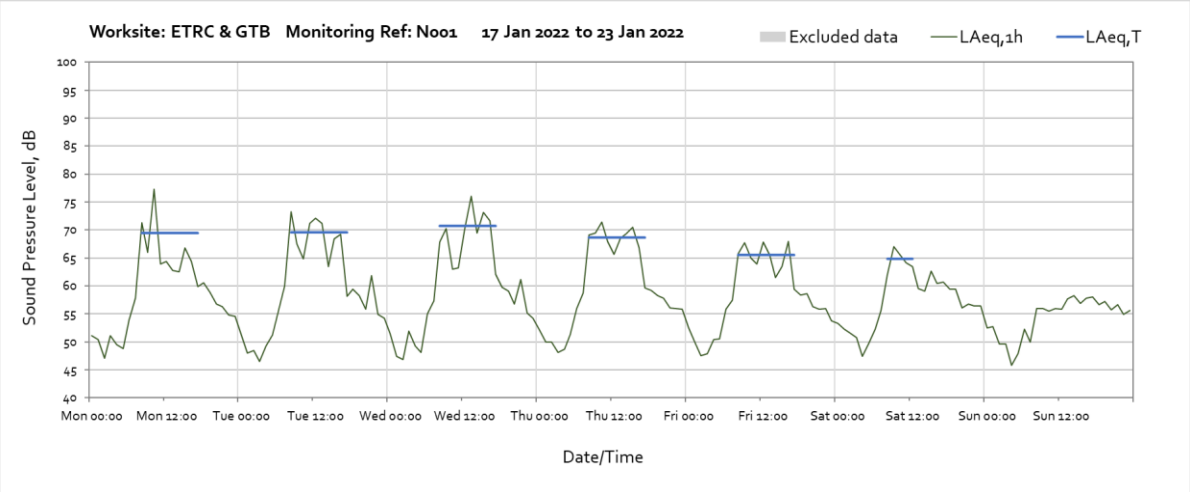
Worksite: ETRC & GTB – Monitoring Ref: N001

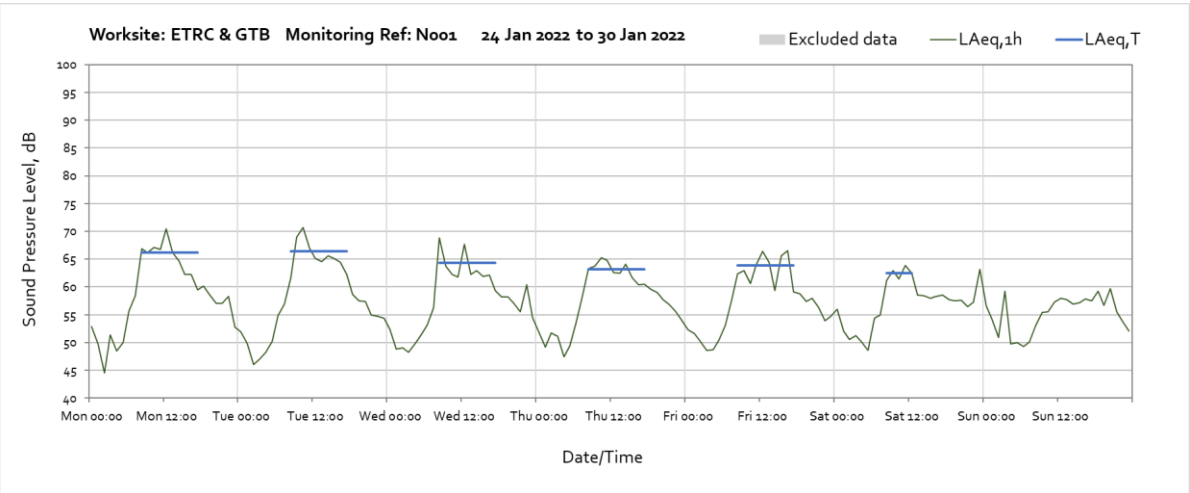


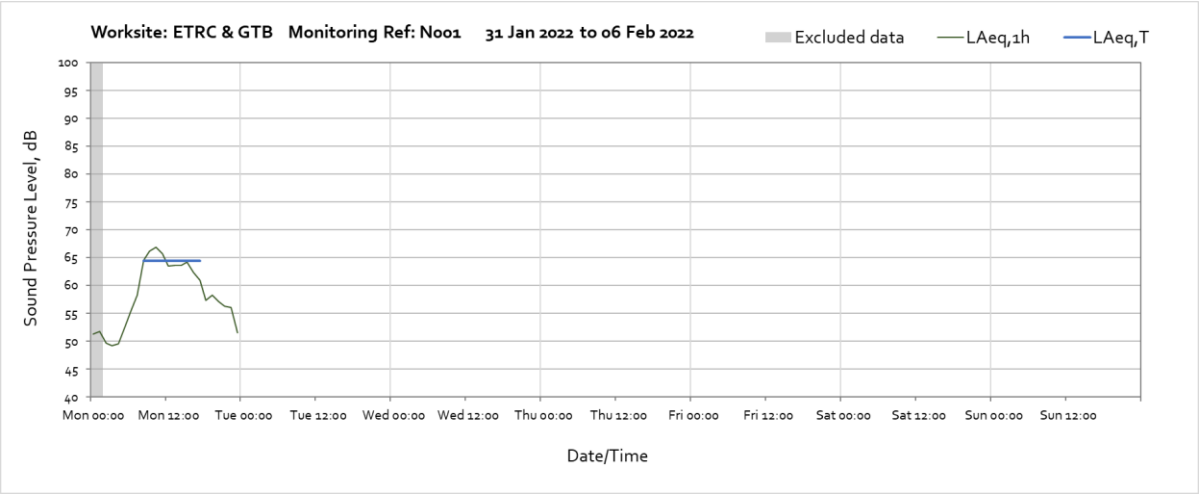




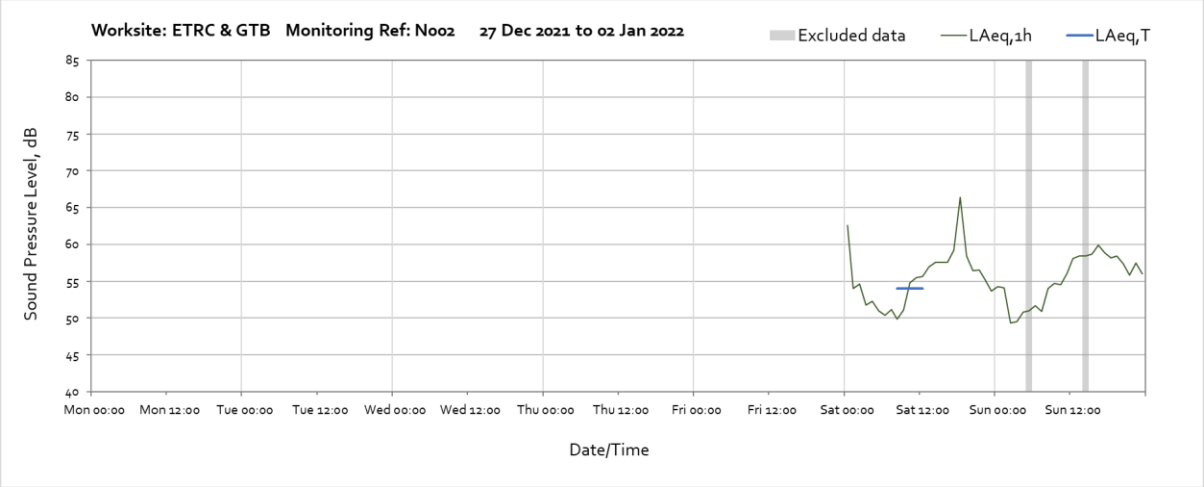
Note: High noise levels measured from 08:00 until 16:00 on Thursday 13th January were due network infrastructure works near to the monitor and are not associated with HS2 construction.

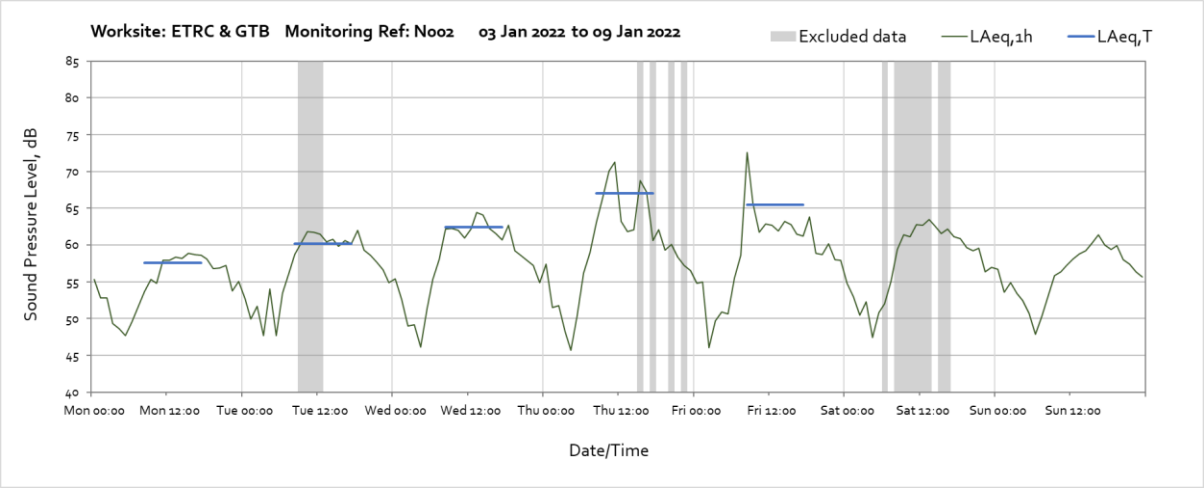


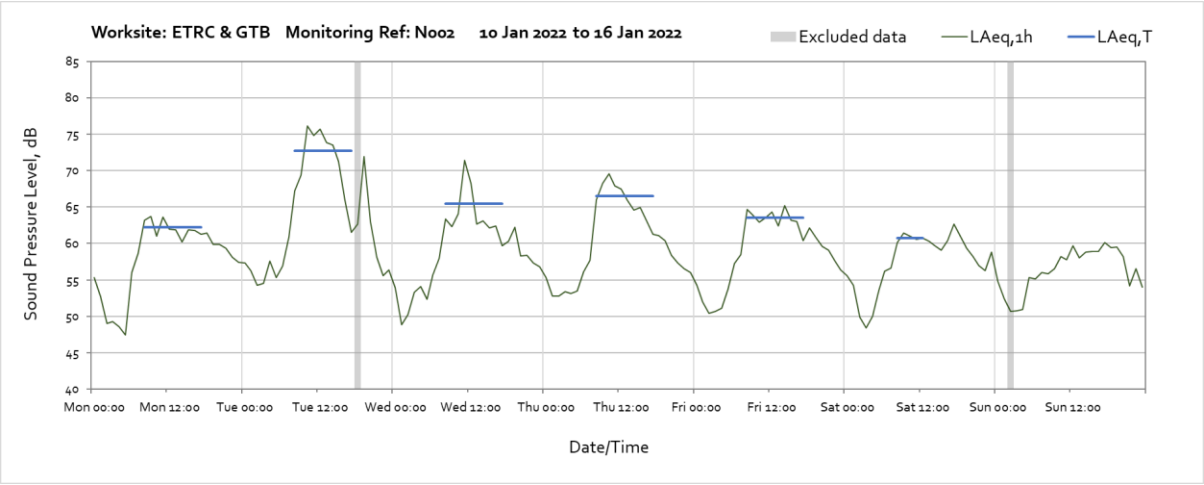




Worksite: ETRC & GTB – Monitoring Ref: N002






Worksite: ETRC & GTB Monitoring Ref: No02 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
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45
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Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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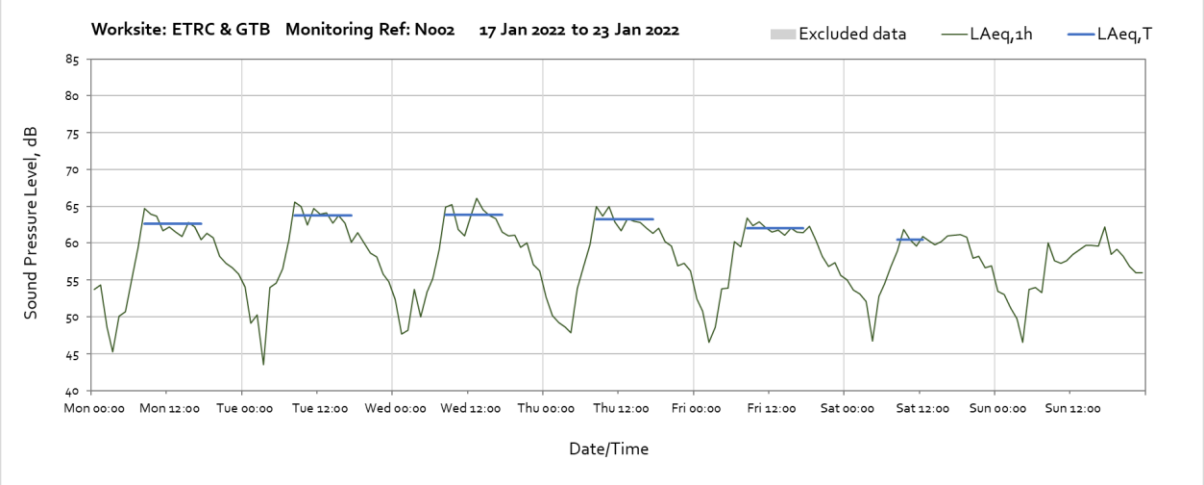
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: ETRC & GTB Monitoring Ref: No02 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
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Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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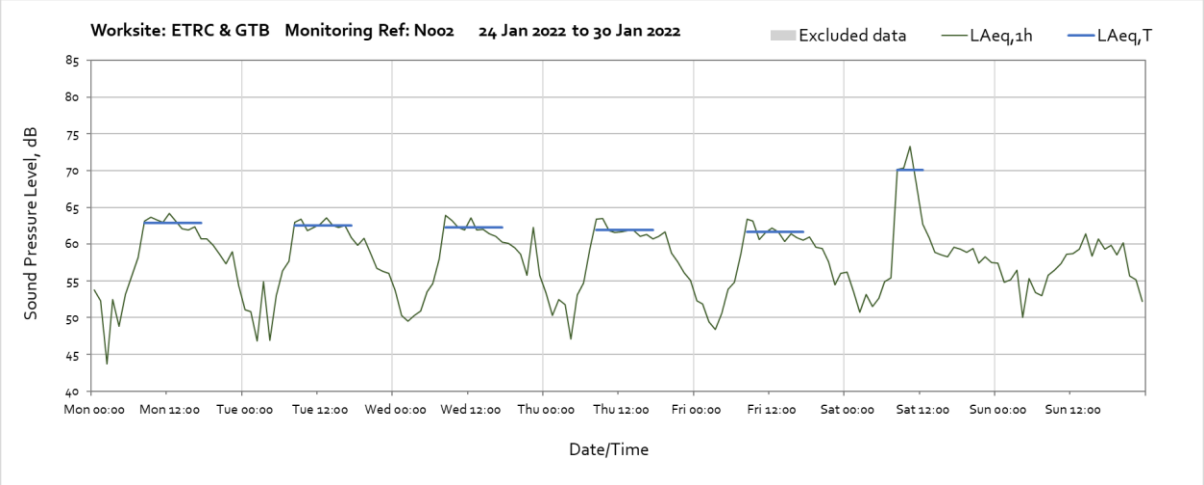
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: ETRC & GTB Monitoring Ref: No02 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
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65
60
55
50
45
40
Mon 00:00
Mon 12:00
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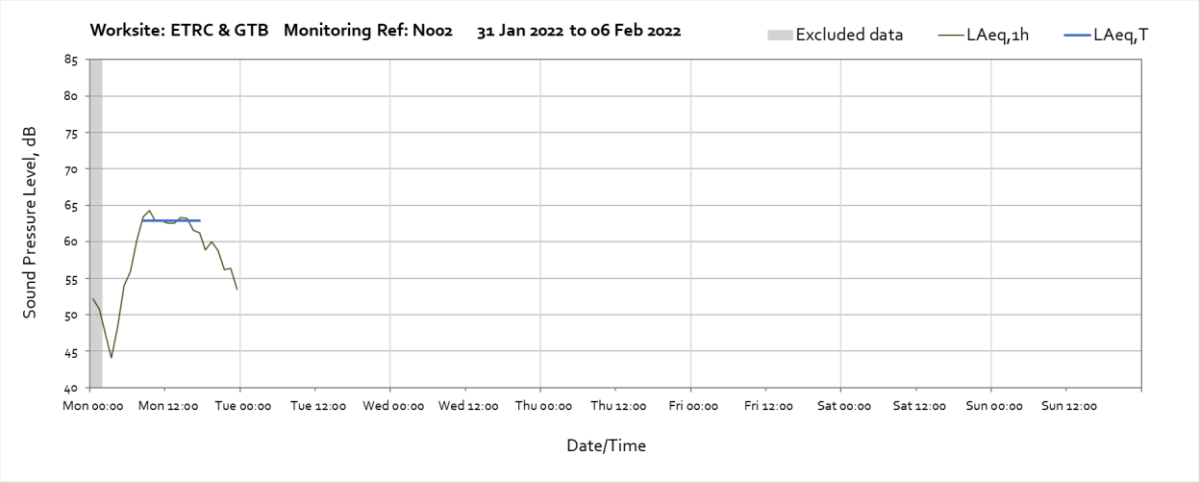
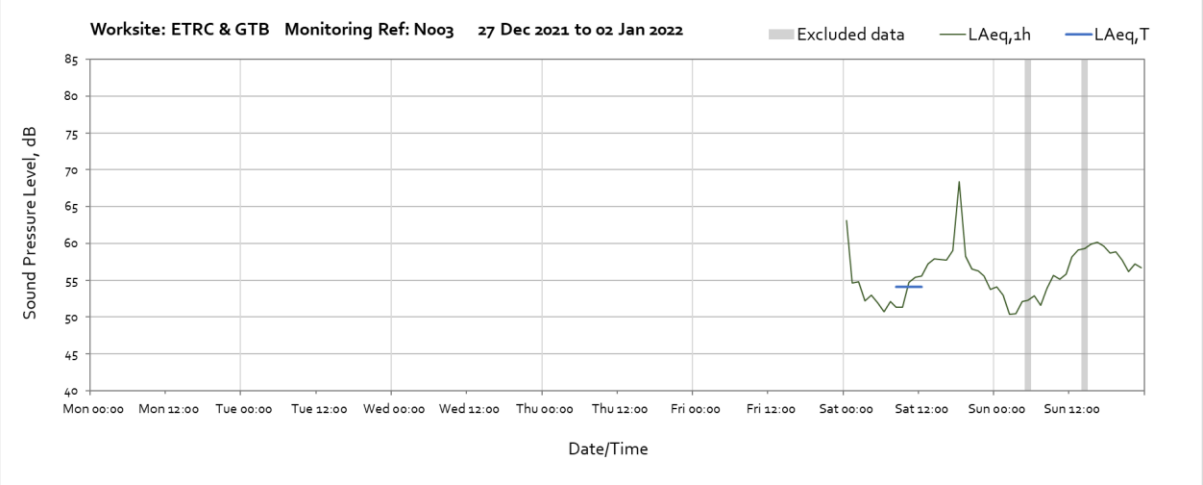
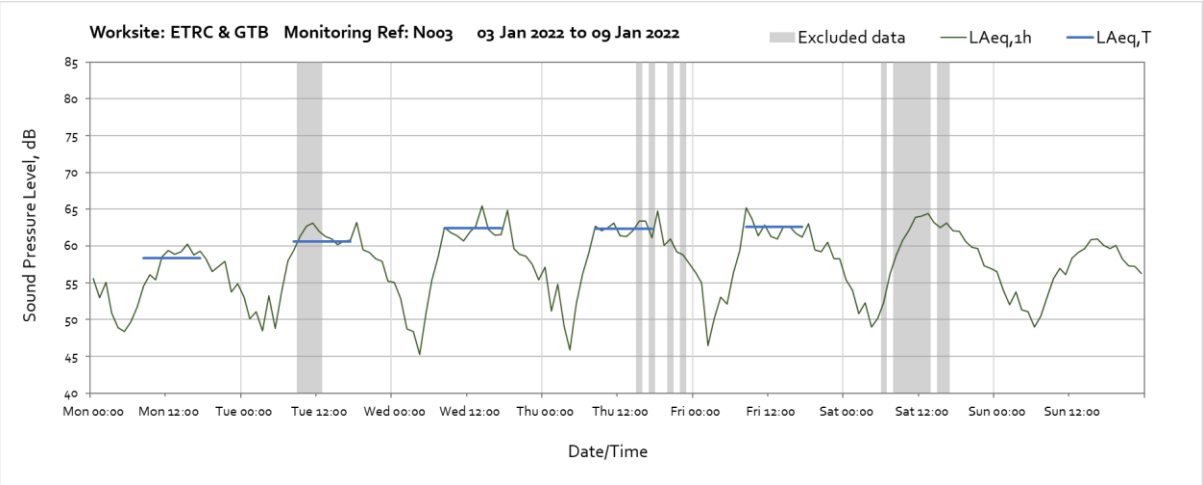
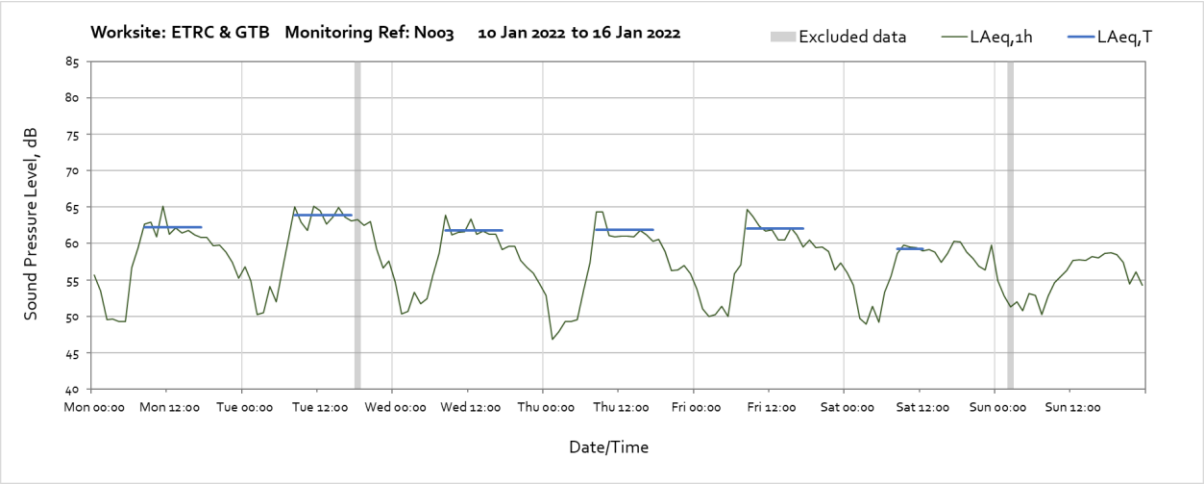
Sun 12:00
Date/Time



Worksite: ETRC & GTB – Monitoring Ref: N003






Worksite: ETRC & GTB Monitoring Ref: No03 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
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60
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50
45
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Mon 00:00
Mon 12:00
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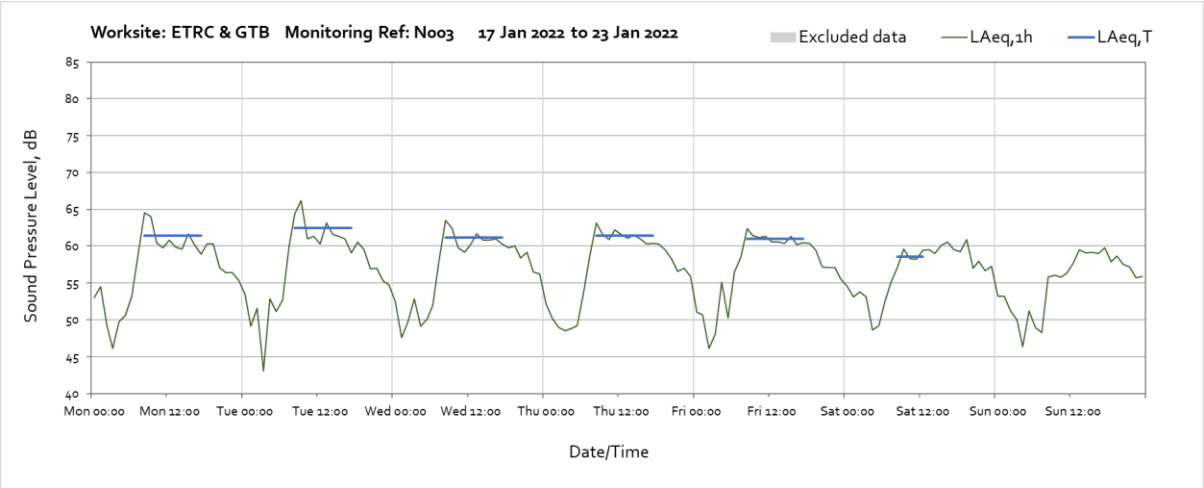
Sun 12:00
Date/Time


Worksite: ETRC & GTB Monitoring Ref: No03 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
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50
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Mon 00:00
Mon 12:00
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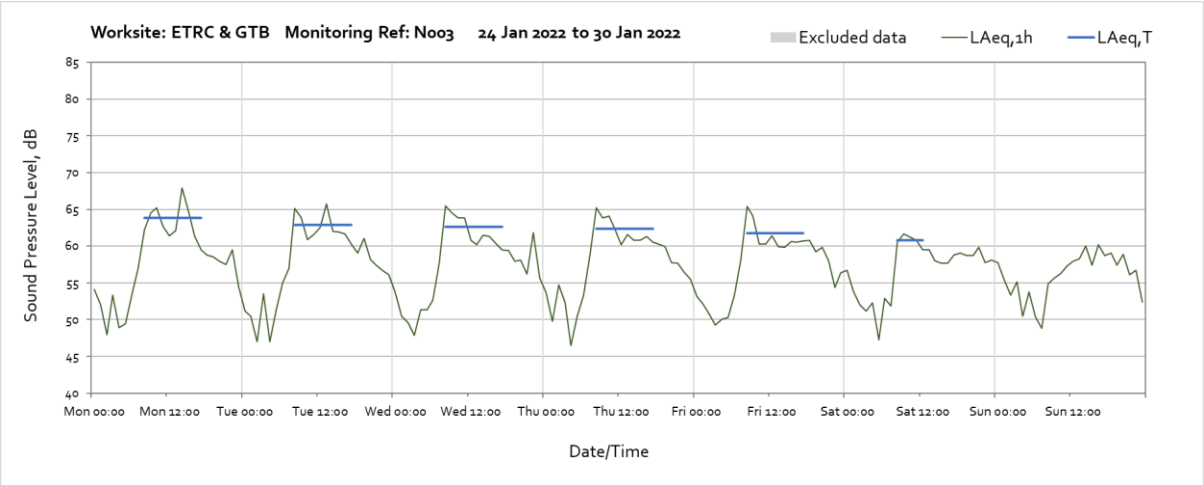
Sun 12:00
Date/Time


Worksite: ETRC & GTB Monitoring Ref: No03 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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60
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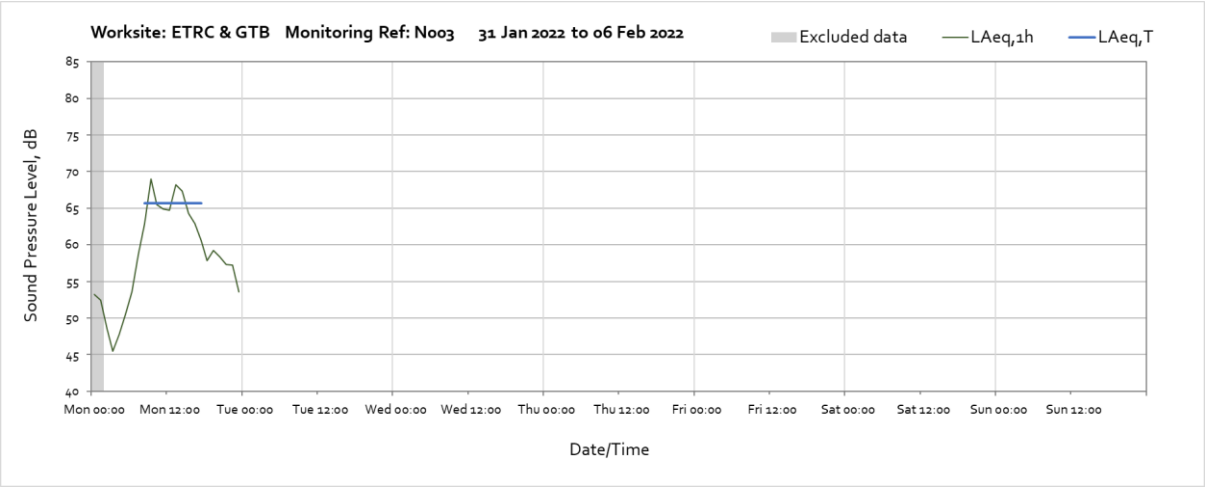
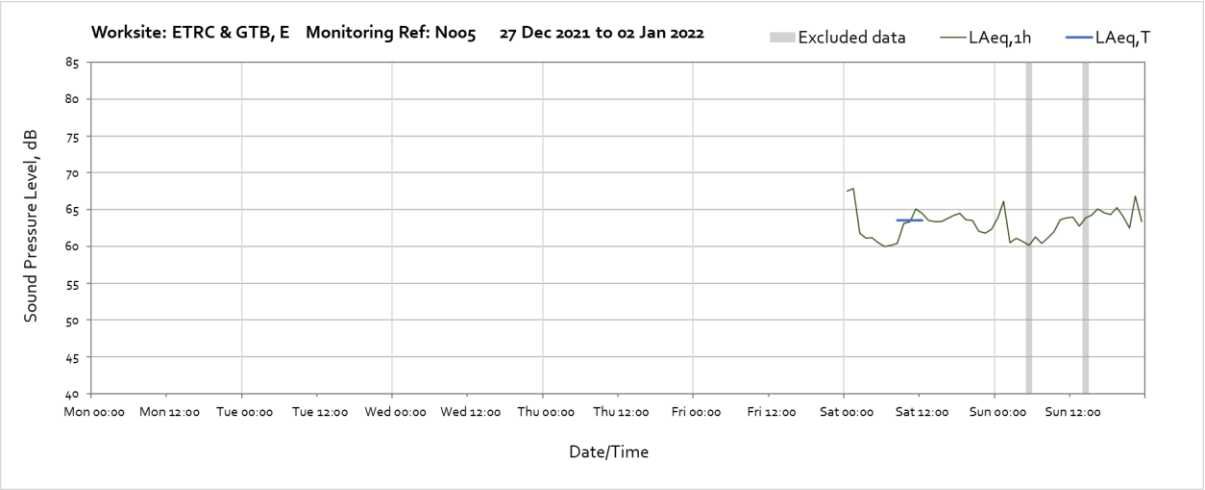
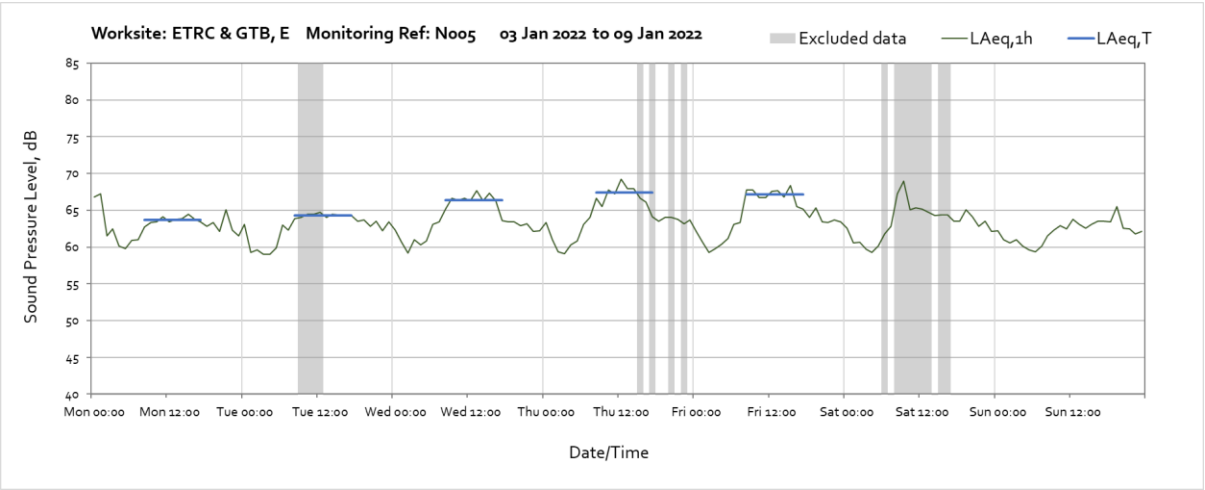
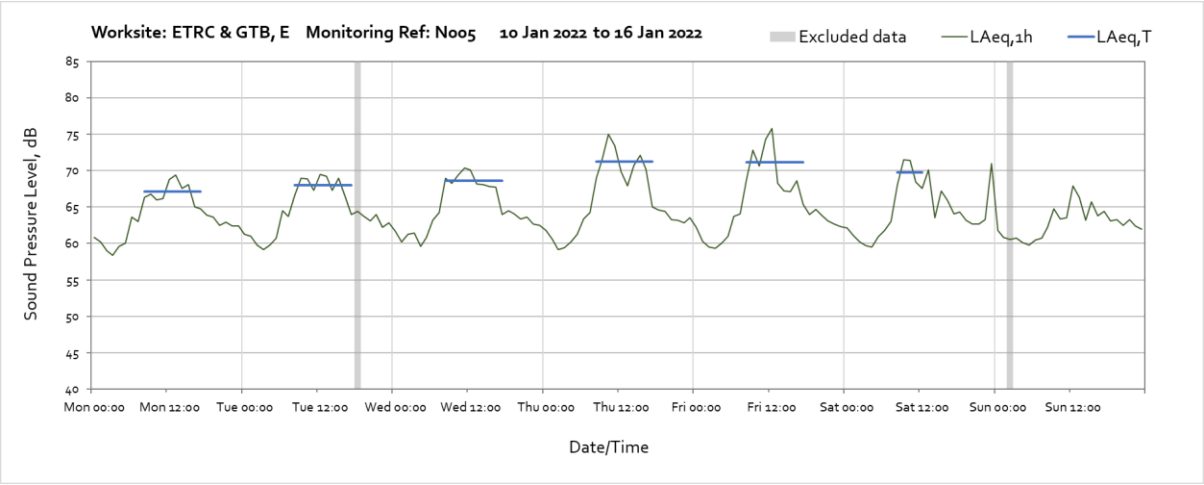
Sun 12:00
Date/Time



Worksite: ETRC & GTB, E – Monitoring Ref: N005






Worksite: ETRC & GTB, E Monitoring Ref: No05 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 12:00
Tue 00:00
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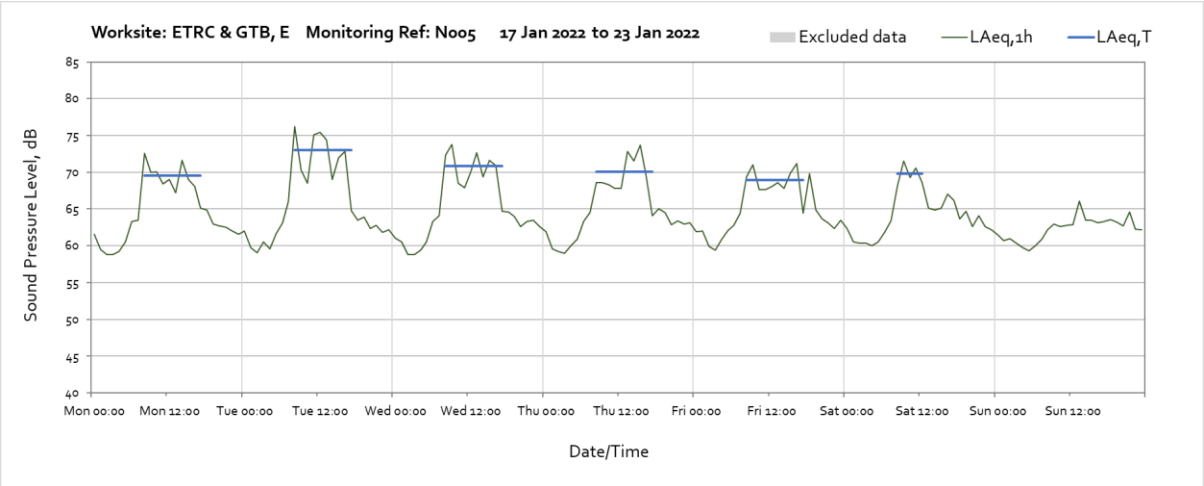
Date/Time


Worksite: ETRC & GTB, E Monitoring Ref: No05 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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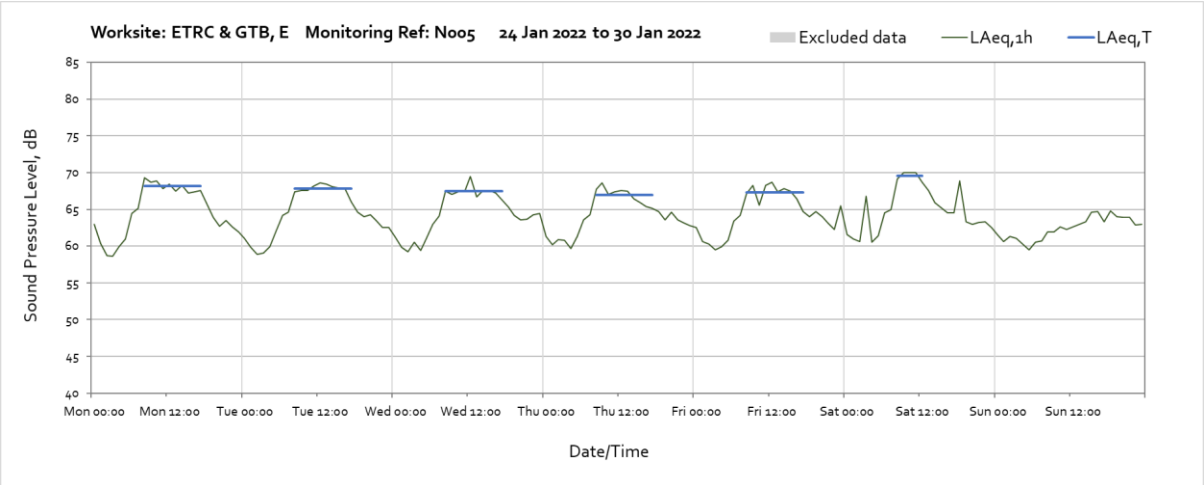
Date/Time


Worksite: ETRC & GTB, E Monitoring Ref: No05 24 Jan 2022 to 30 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
85
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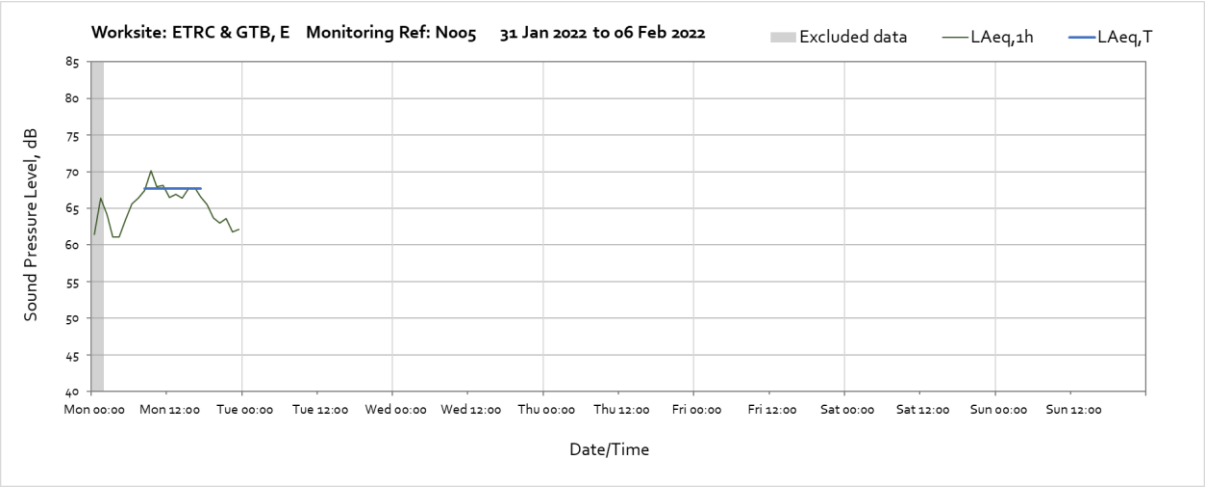
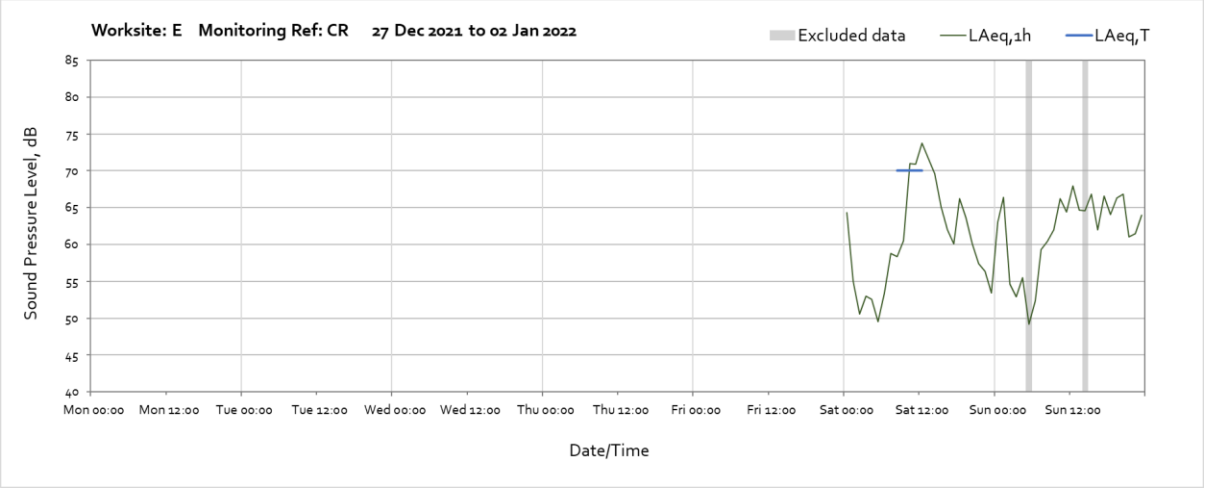
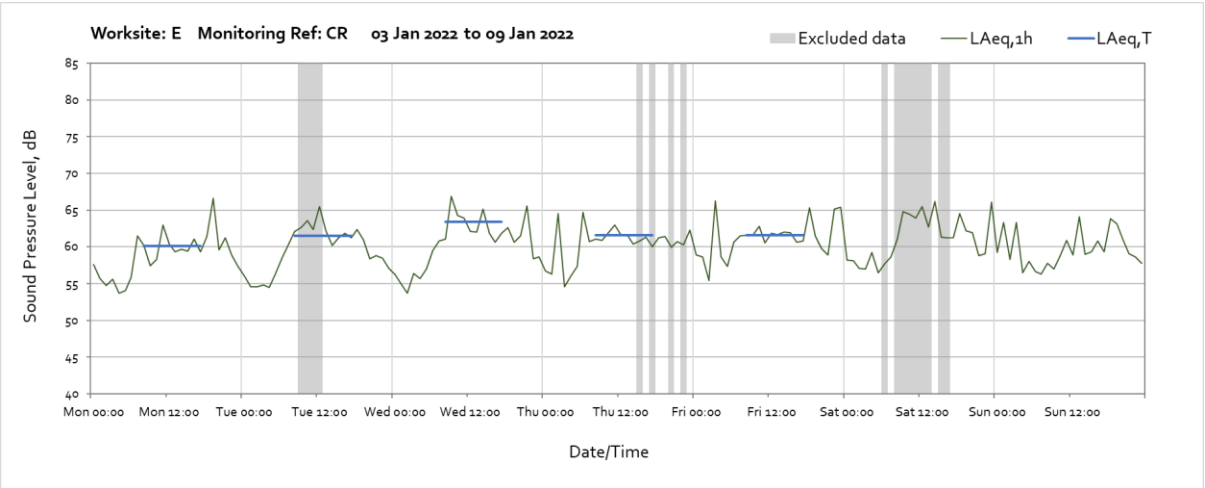
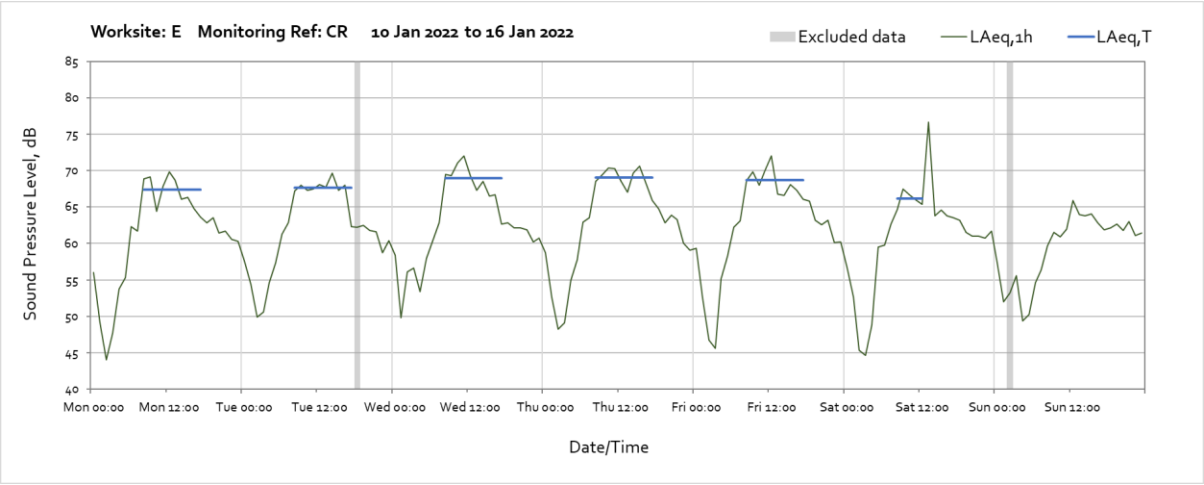
Date/Time



Worksite: E – Monitoring Ref: CR






Worksite: E Monitoring Ref: CR 10 Jan 2022 to 16 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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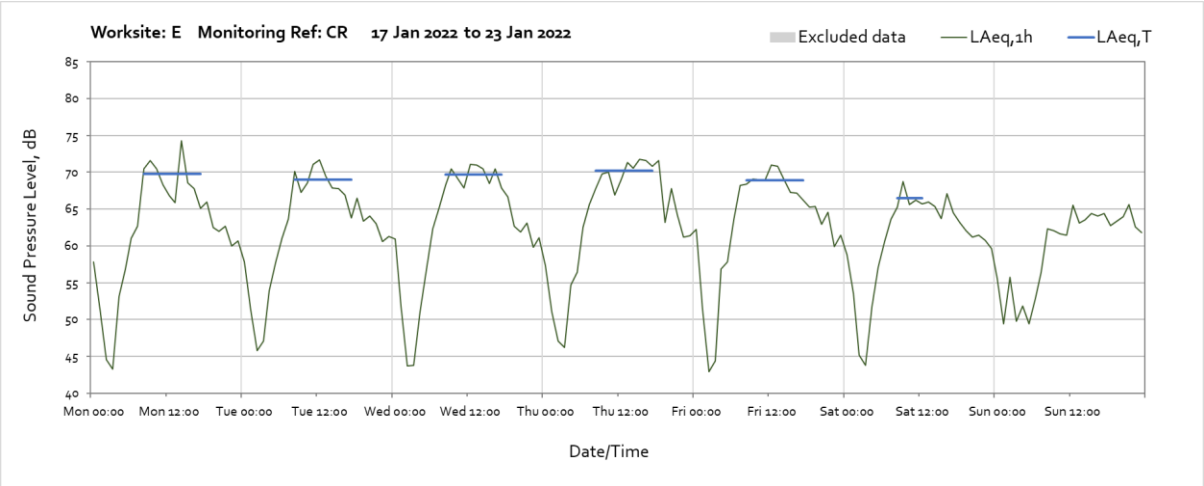
Worksite: E Monitoring Ref: CR 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
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Sound Pressure Level, dB
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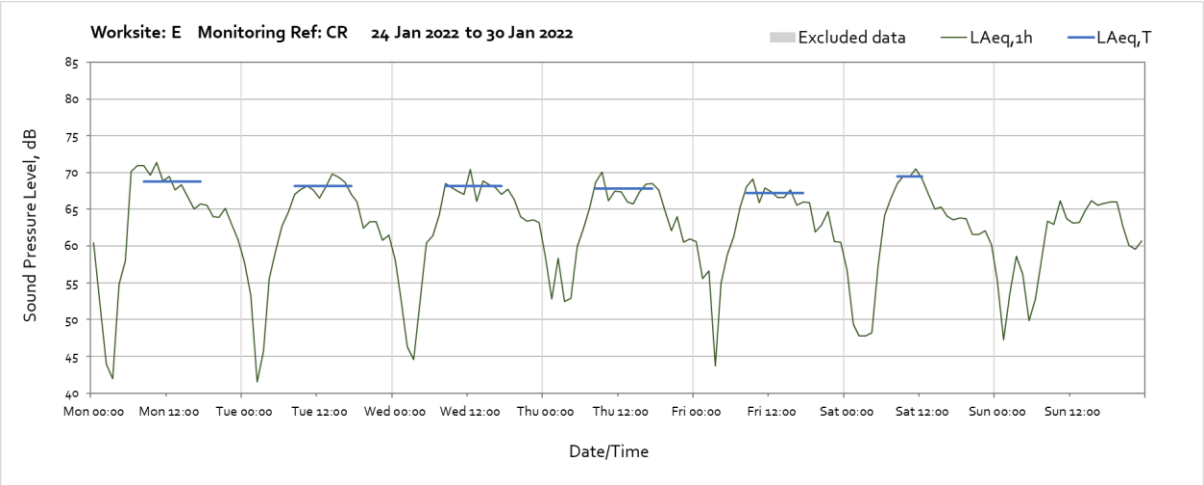
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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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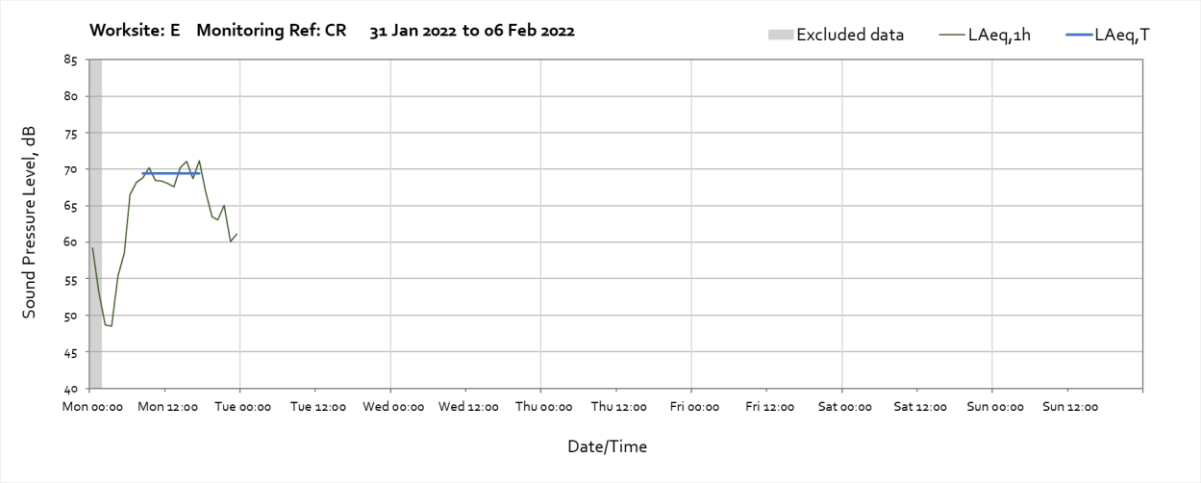
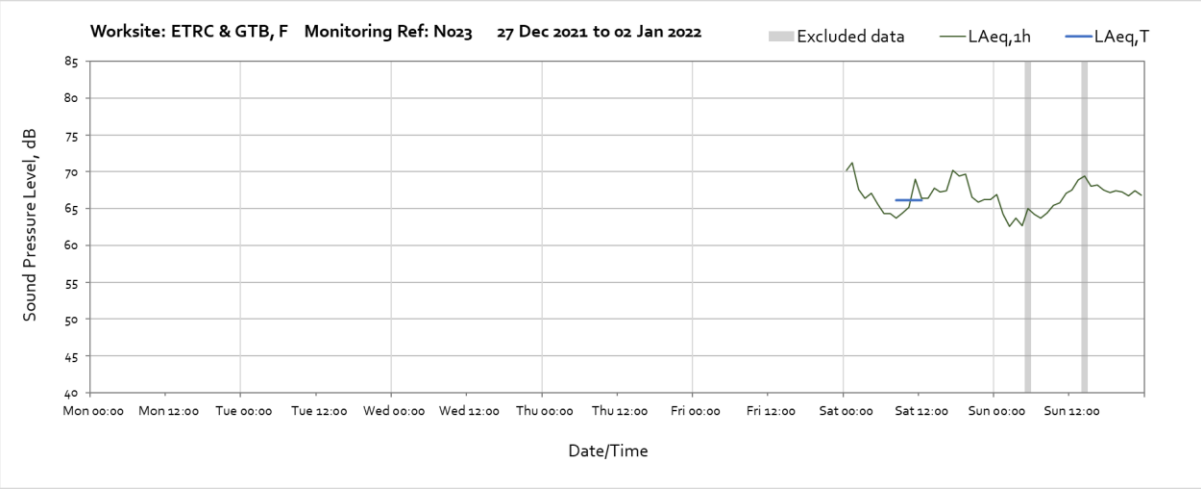
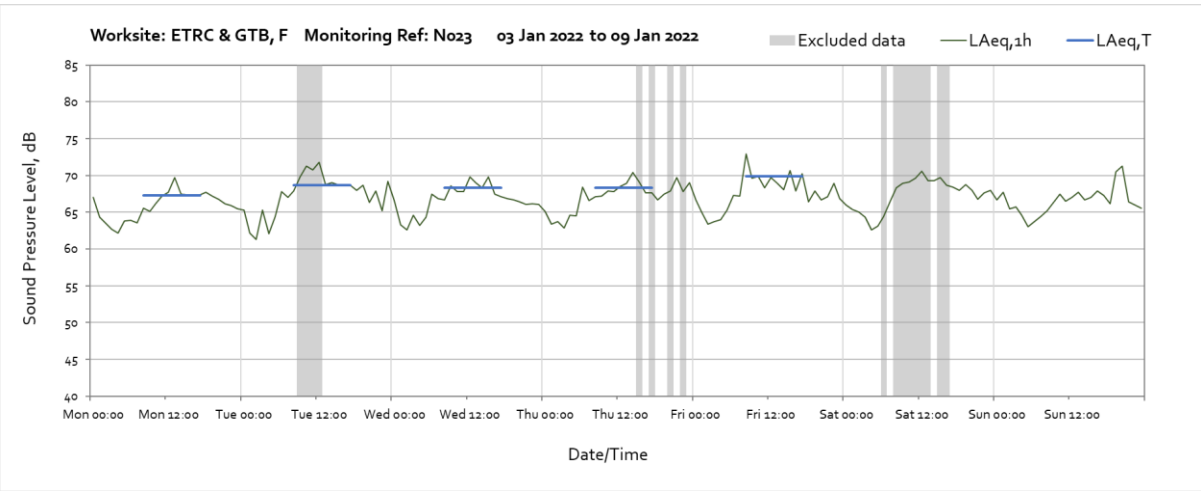
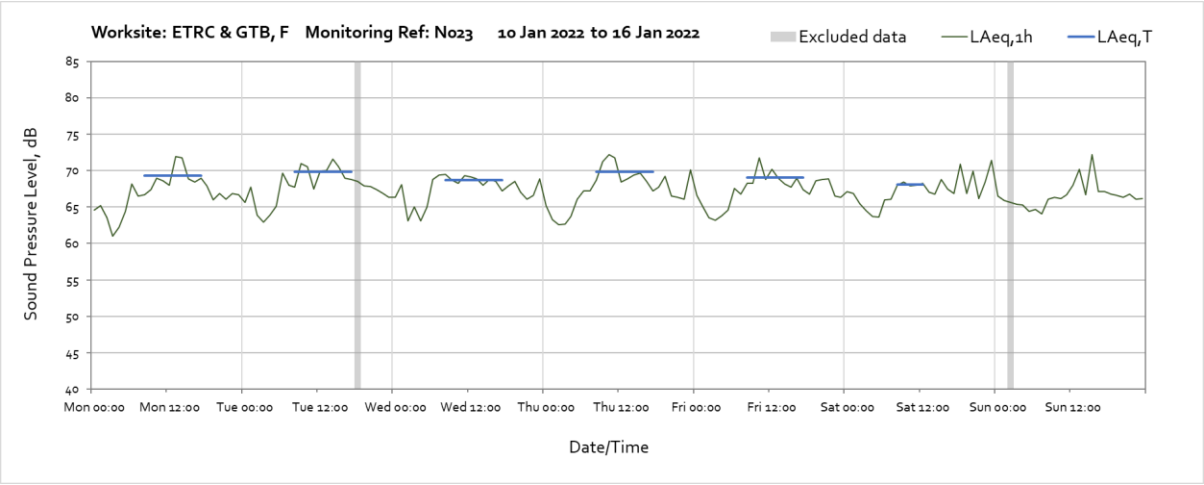


Worksite: ETRC & GTB, F – Monitoring Ref: N023






Worksite: ETRC & GTB, F Monitoring Ref: No23 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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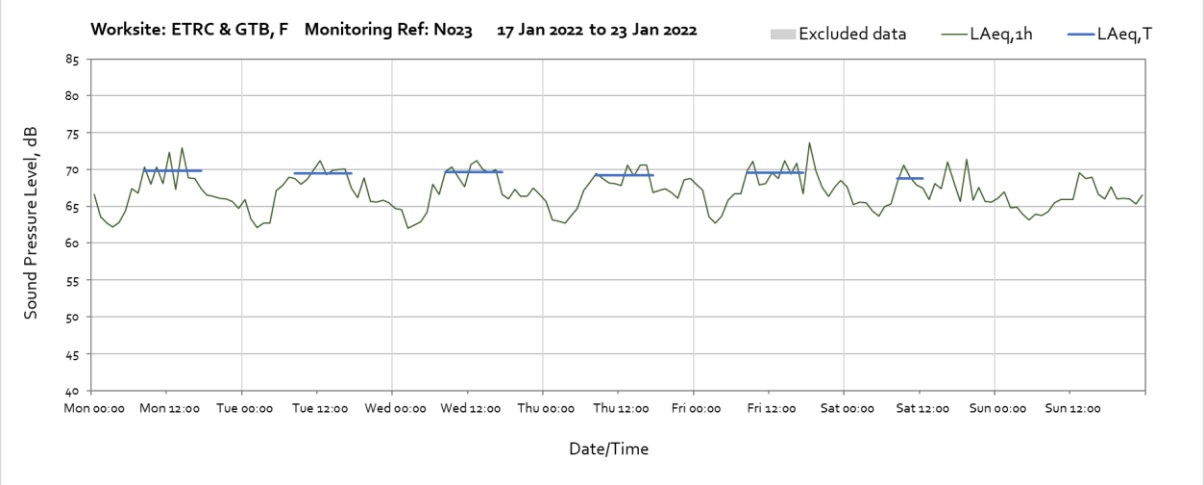
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Excluded data
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Sound Pressure Level, dB
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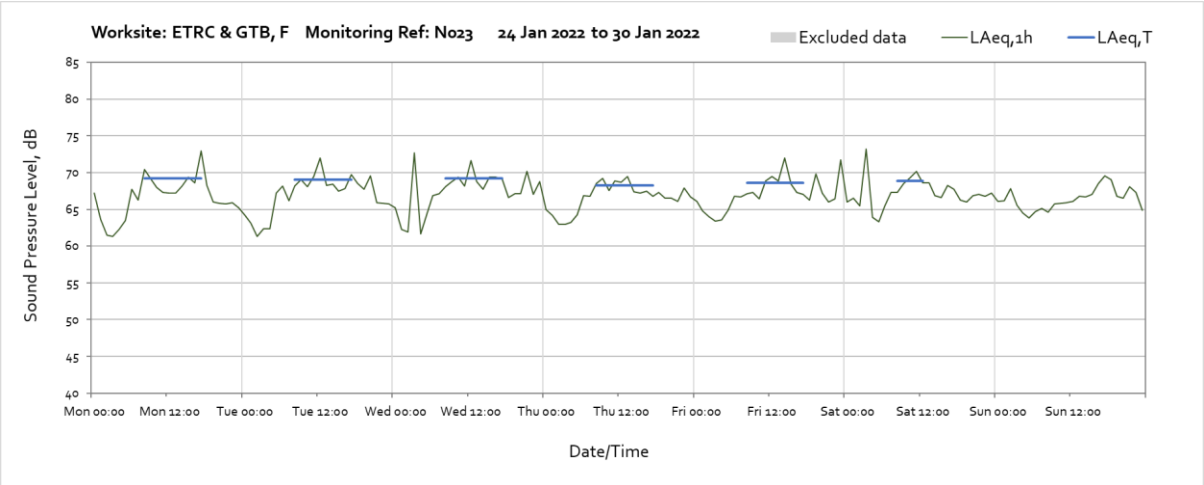
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Sound Pressure Level, dB
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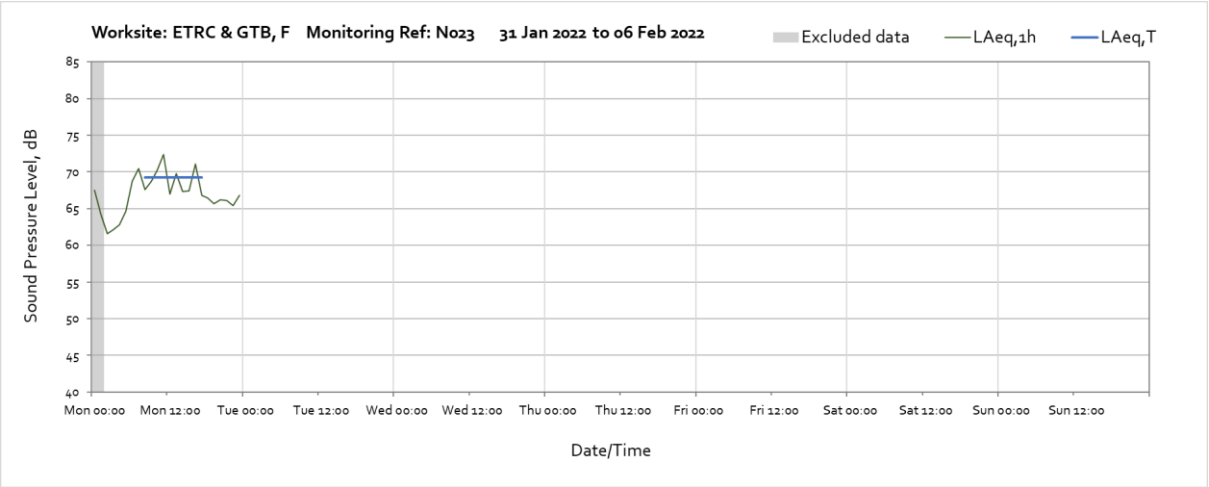

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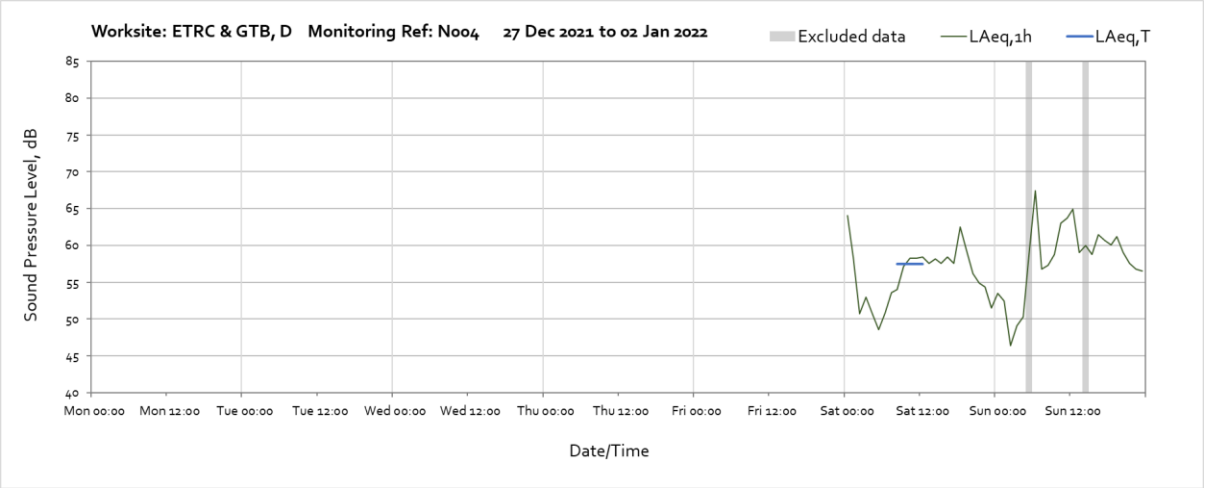

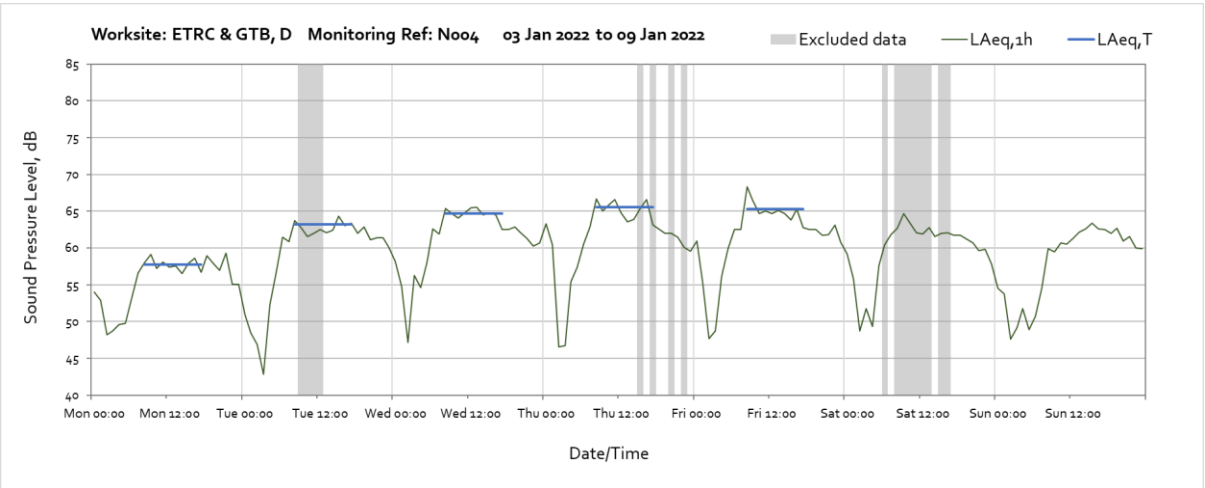

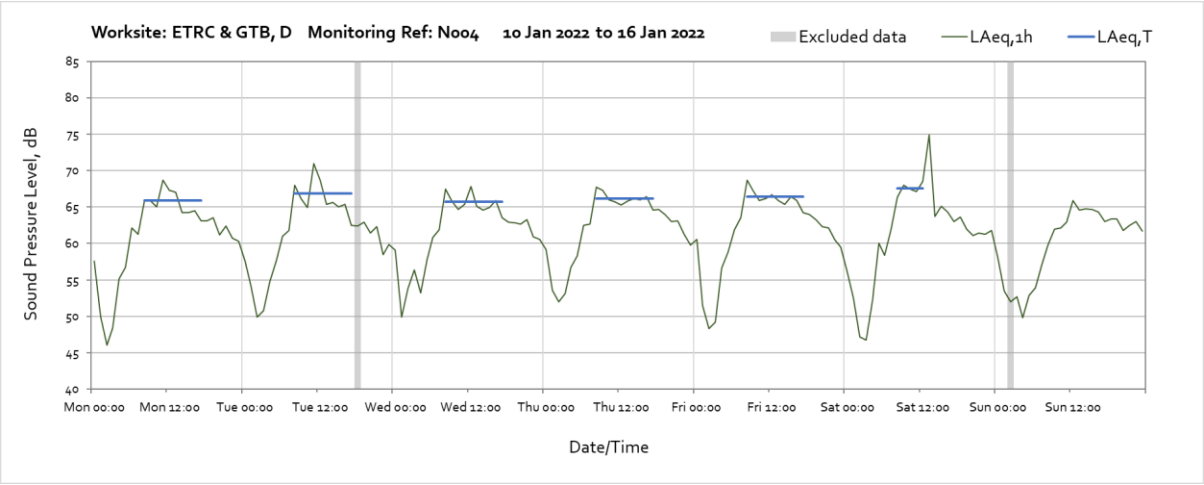
Worksite: ETRC & GTB, D Monitoring Ref: No04 10 Jan 2022 to 16 Jan 2022
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Sound Pressure Level, dB
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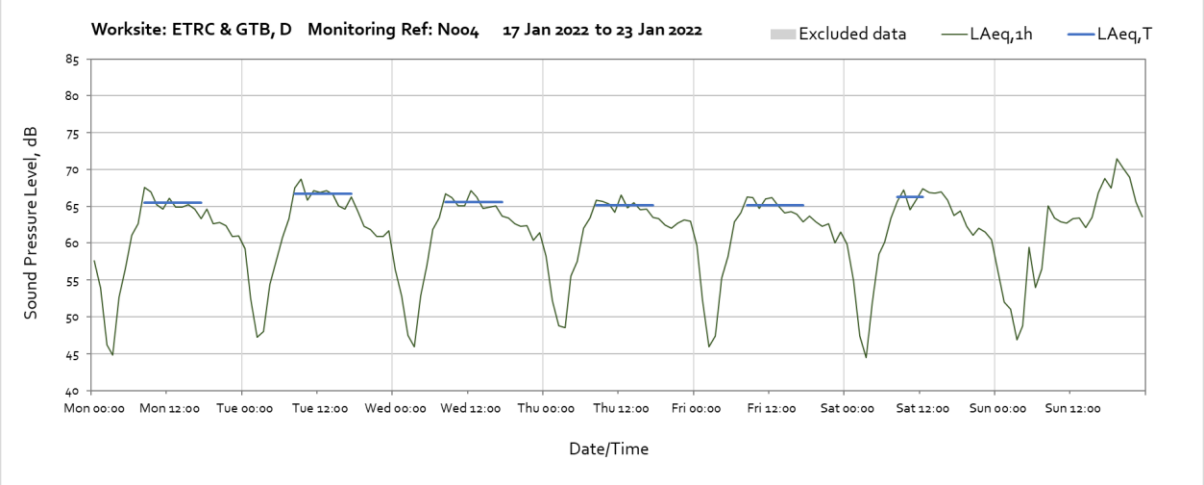
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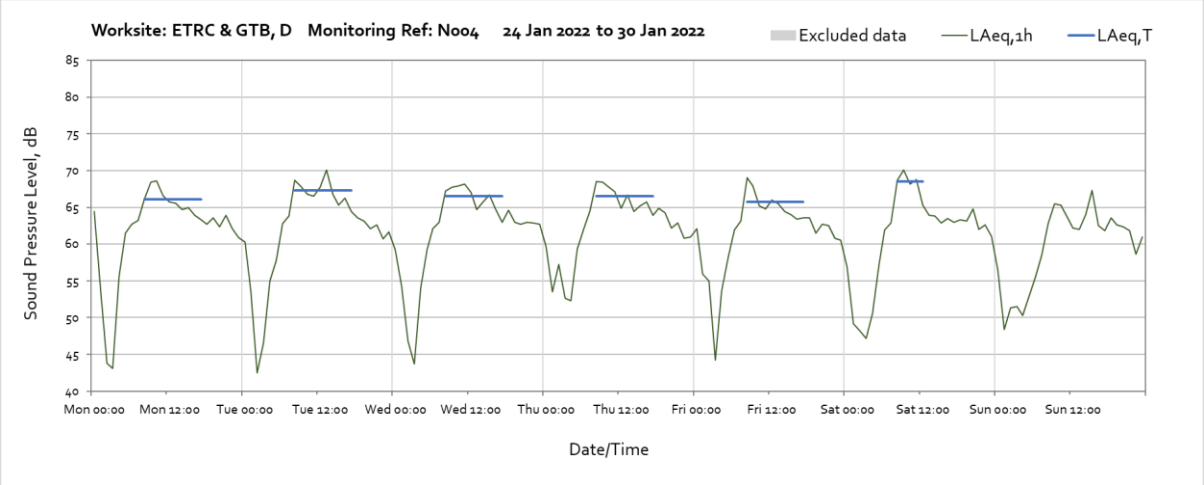
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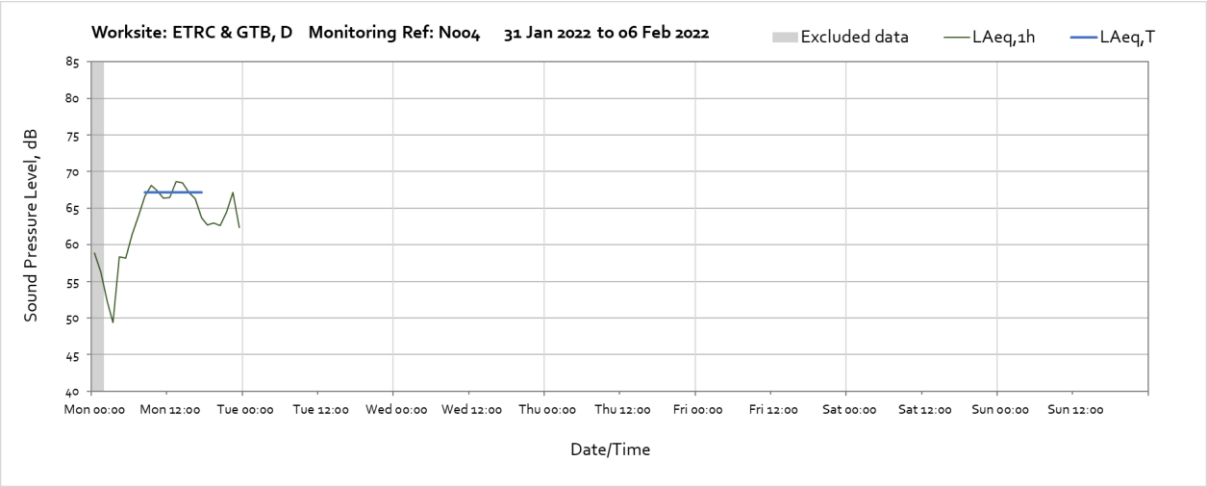
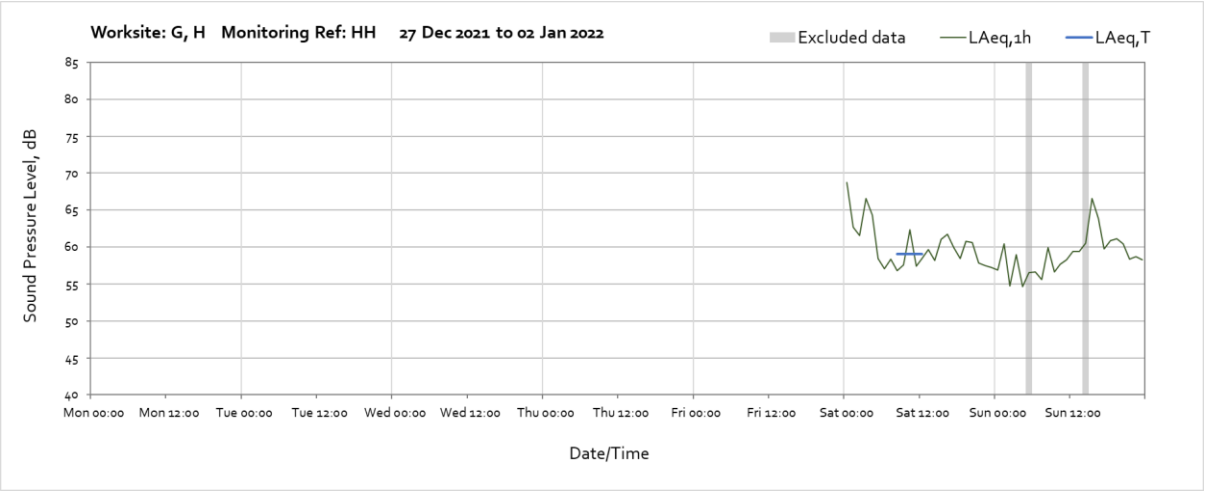
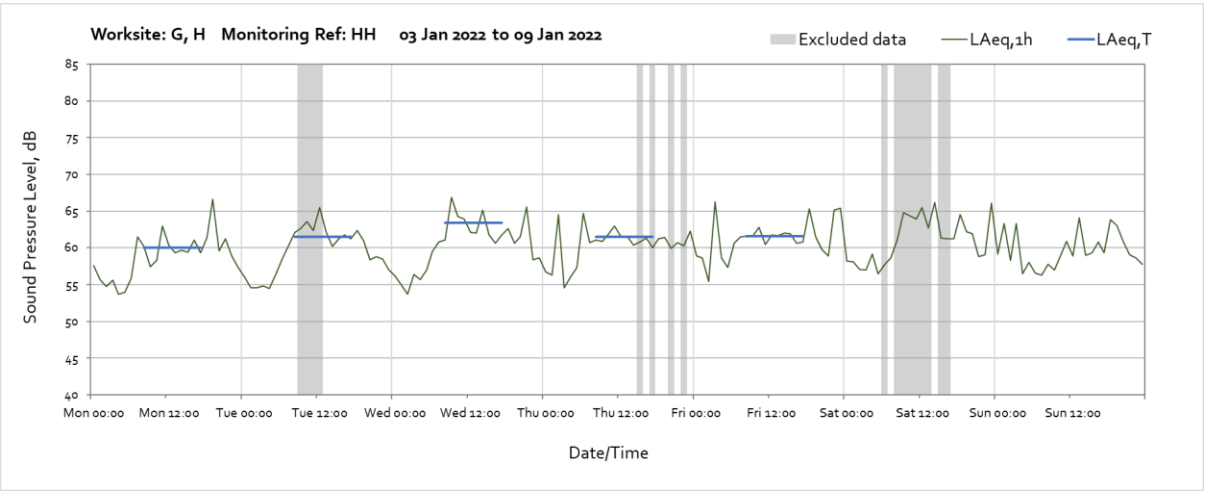
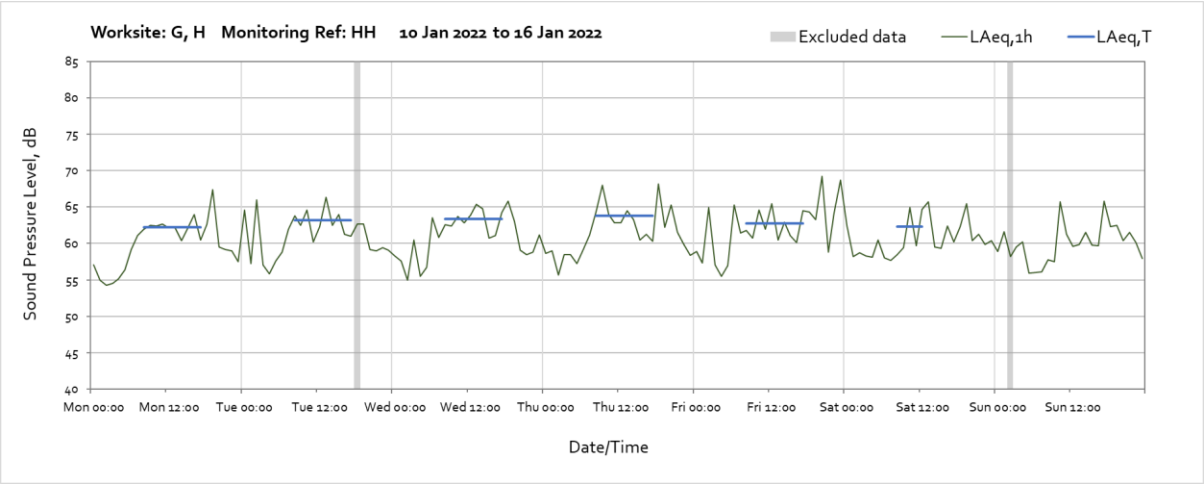


Worksite: G, H – Monitoring Ref: HH






Worksite: G, H Monitoring Ref: HH 10 Jan 2022 to 16 Jan 2022
Excluded data
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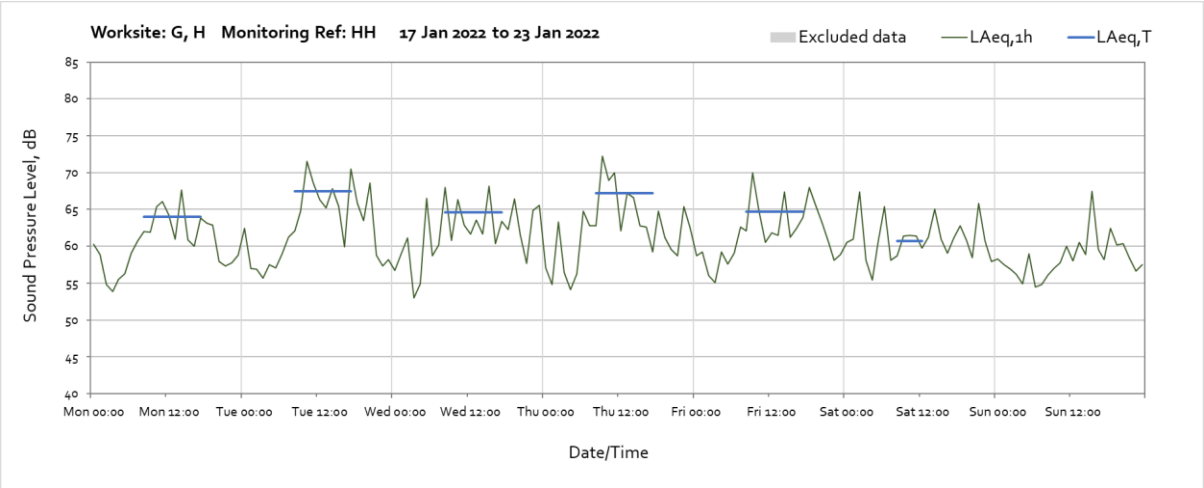
Worksite: G, H Monitoring Ref: HH 17 Jan 2022 to 23 Jan 2022
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Sound Pressure Level, dB
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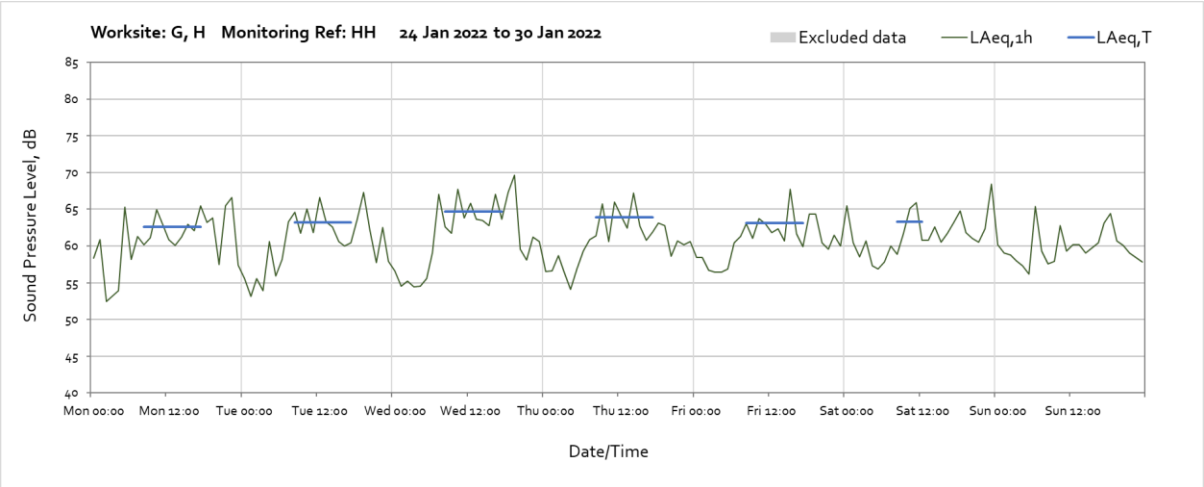
Worksite: G, H Monitoring Ref: HH 24 Jan 2022 to 30 Jan 2022
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Sound Pressure Level, dB
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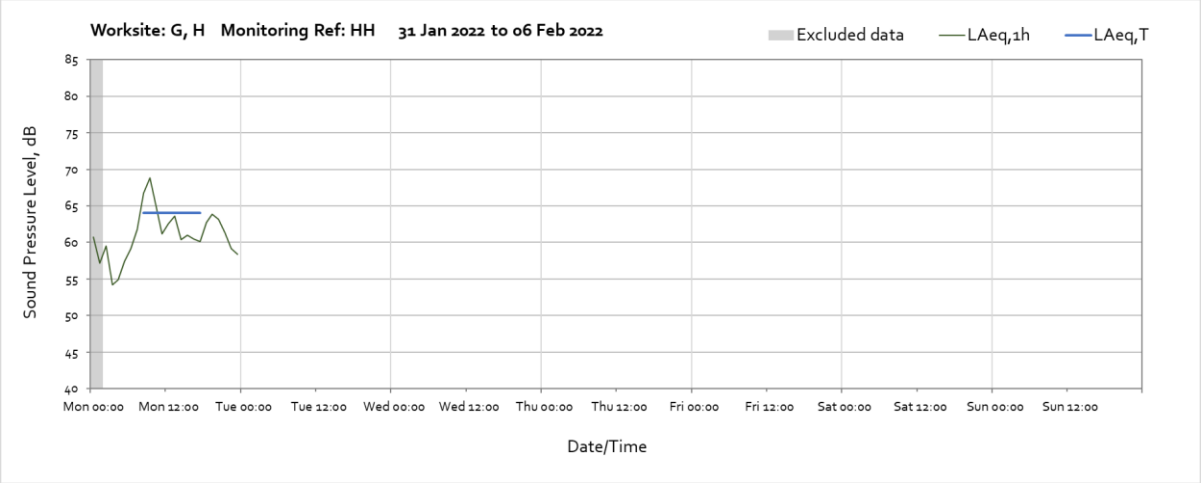
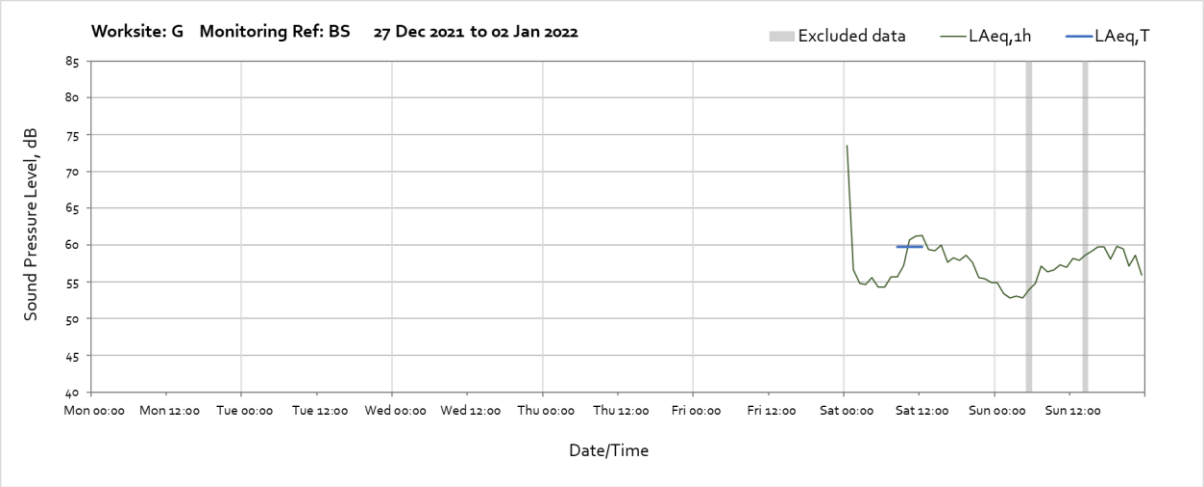
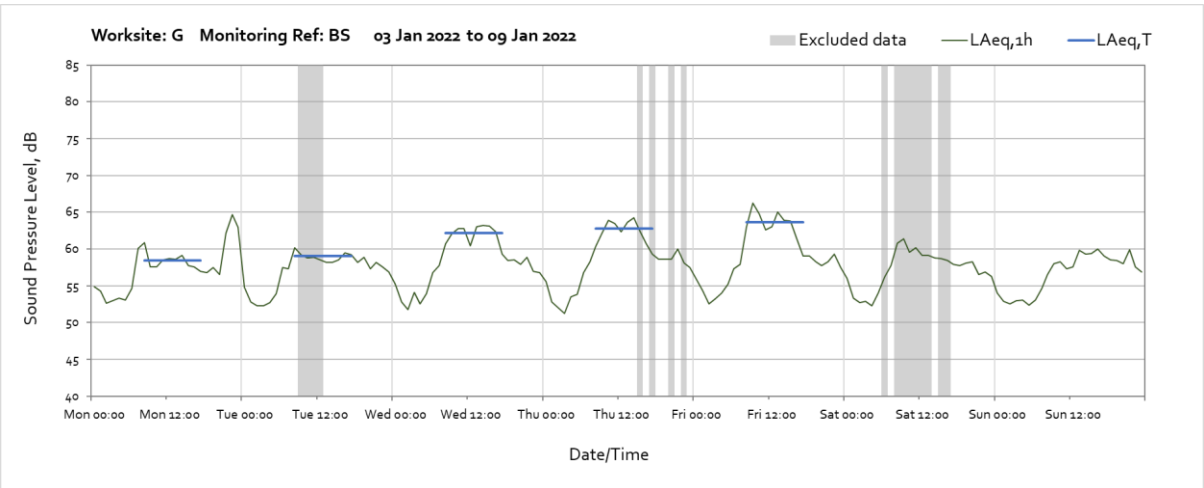
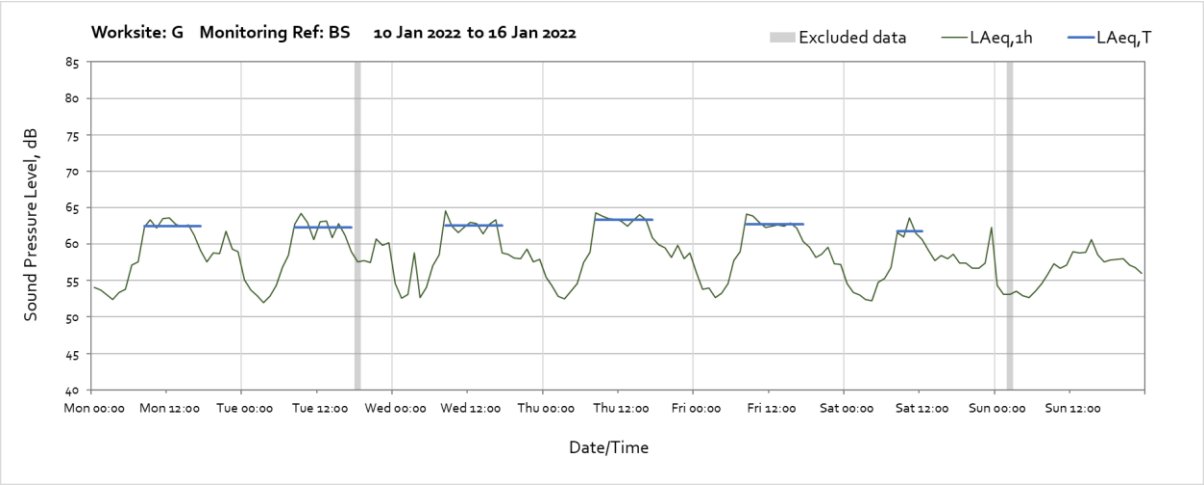


Worksite: G – Monitoring Ref: BS



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LAeq,T
Sound Pressure Level, dB
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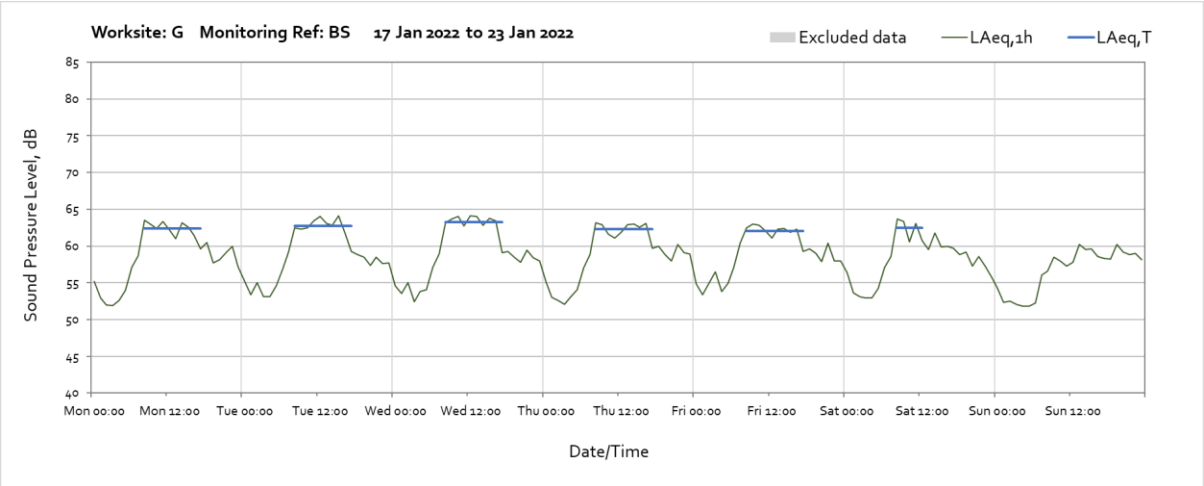
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Sound Pressure Level, dB
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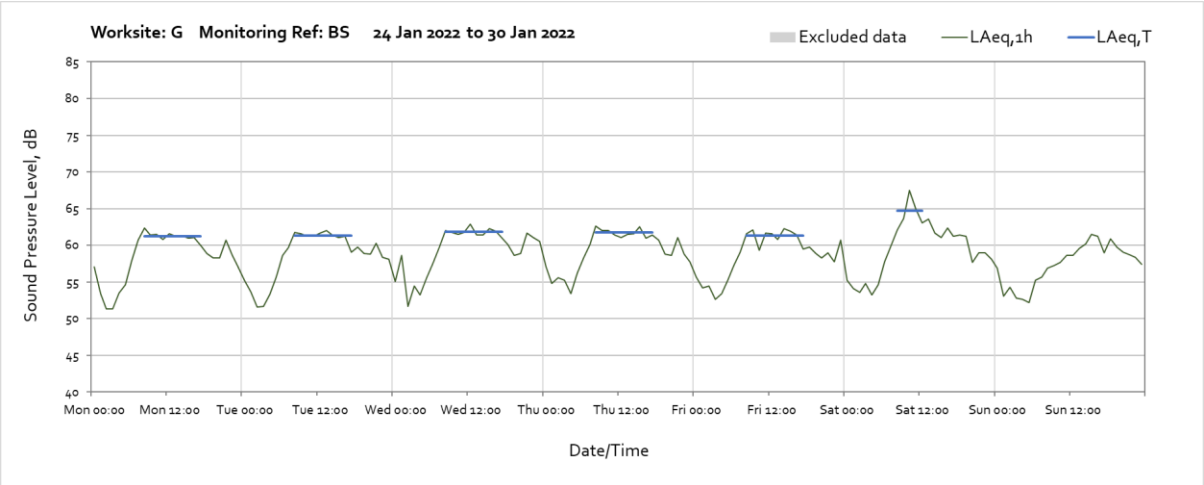
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Excluded data
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LAeq,T
Sound Pressure Level, dB
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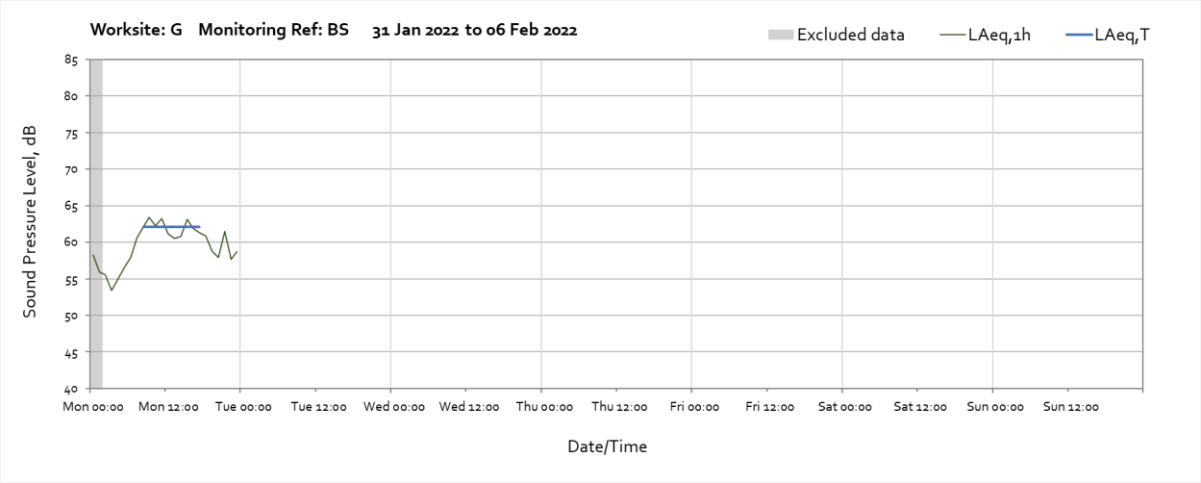
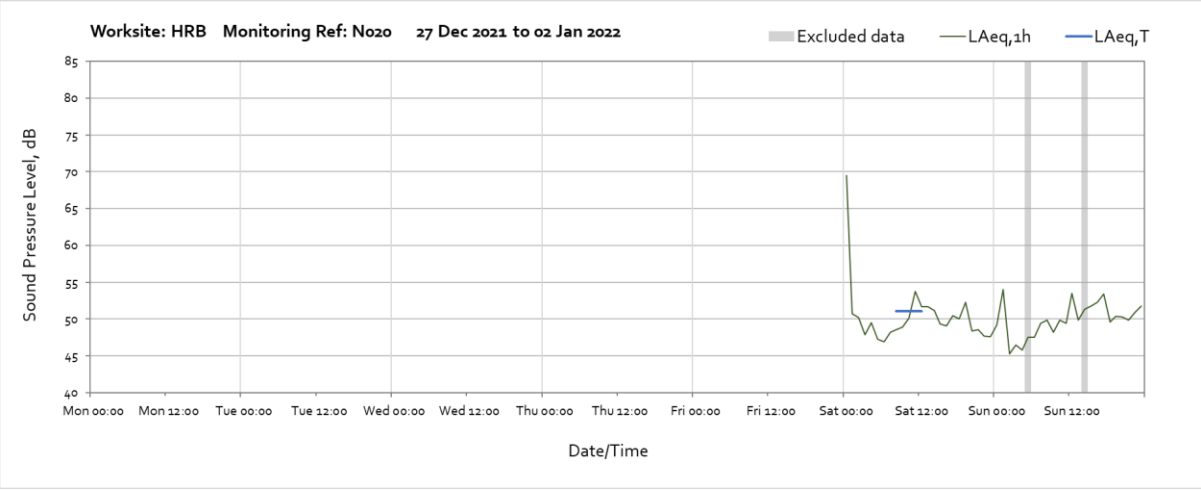
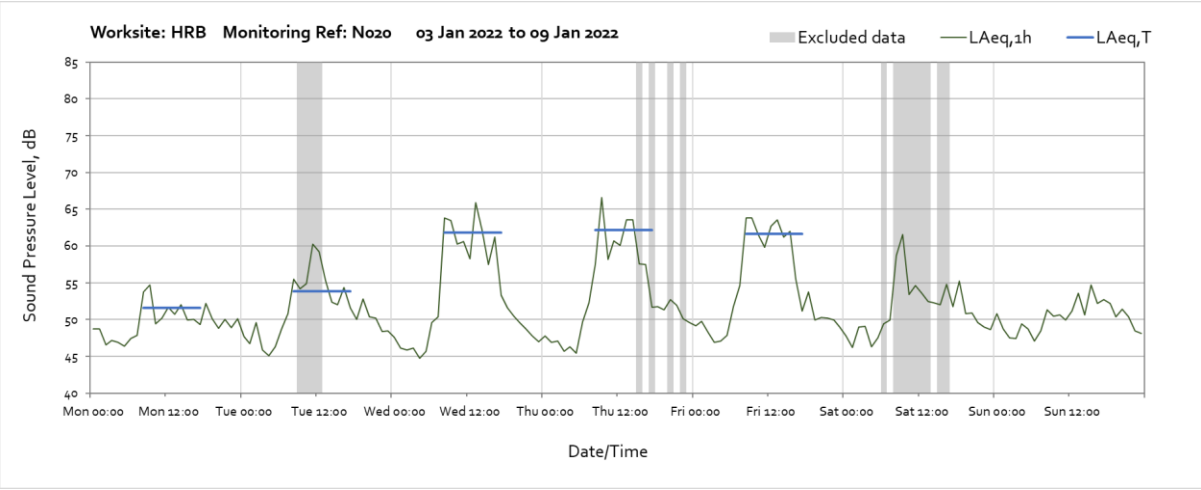
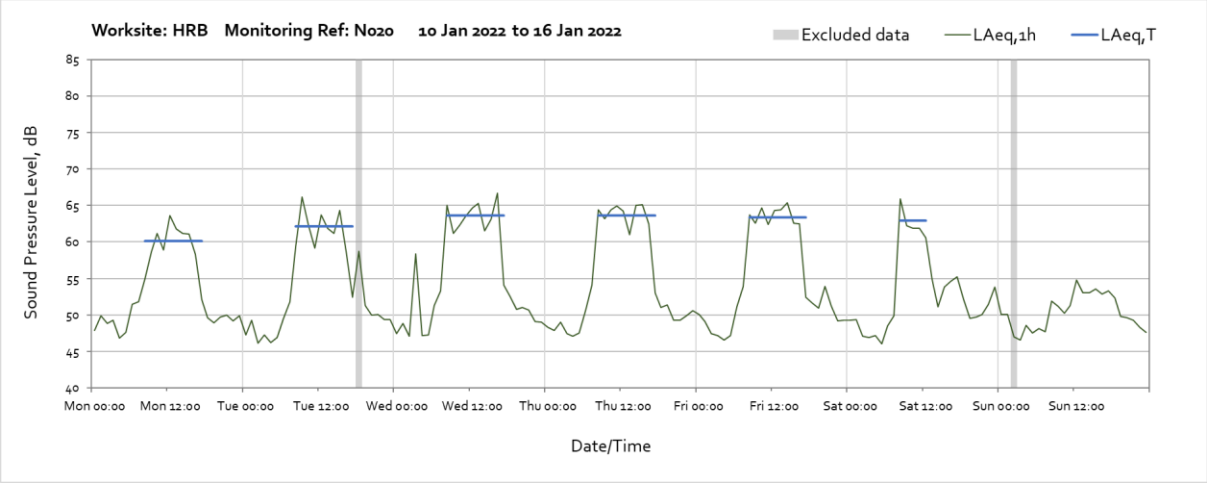


Worksite: HRB – Monitoring Ref: N020



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LAeq,T
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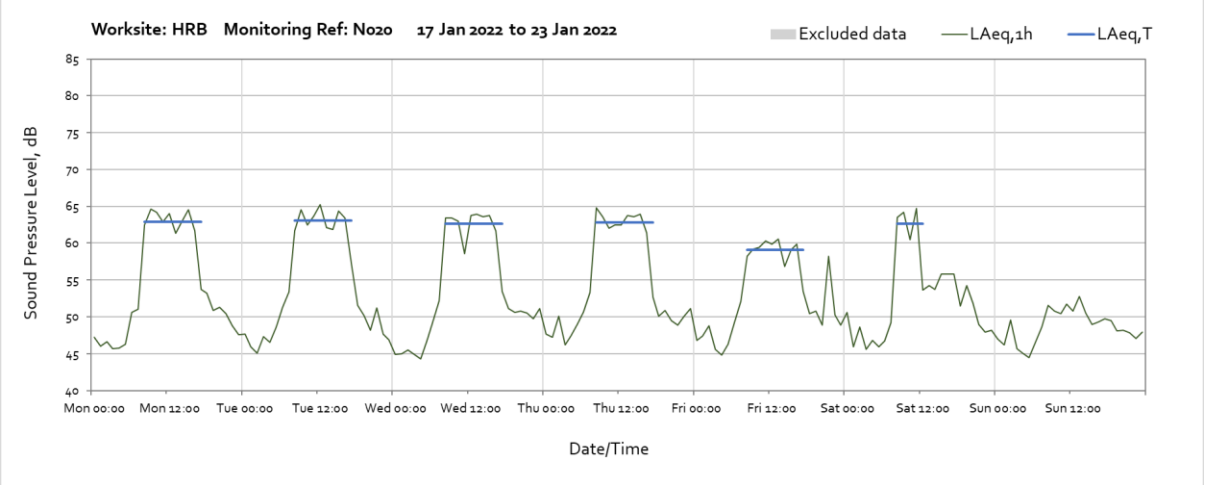
Date/Time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Sound Pressure Level, dB
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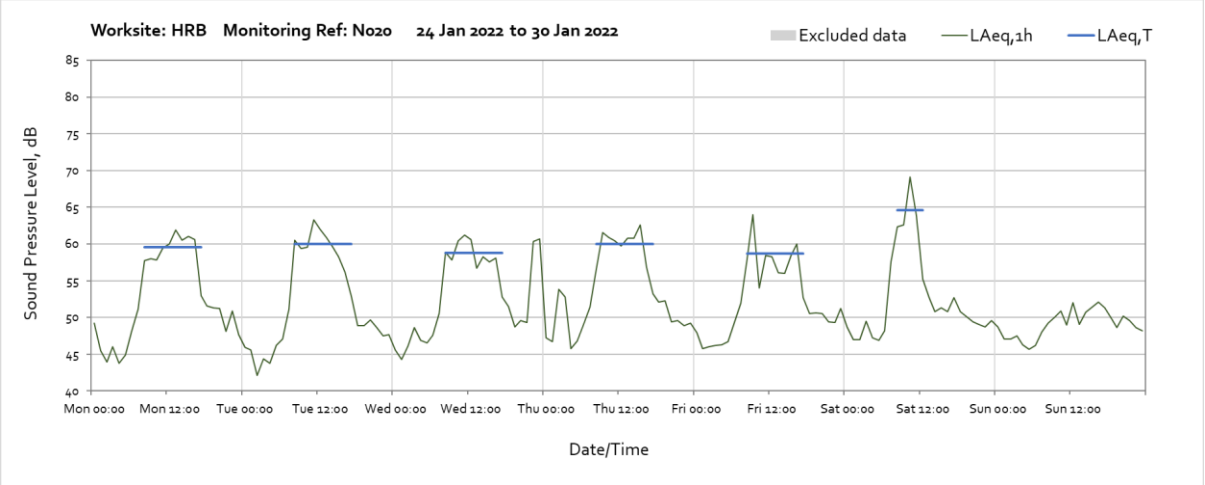
Worksite: HRB Monitoring Ref: N020 24 Jan 2022 to 30 Jan 2022
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Sound Pressure Level, dB
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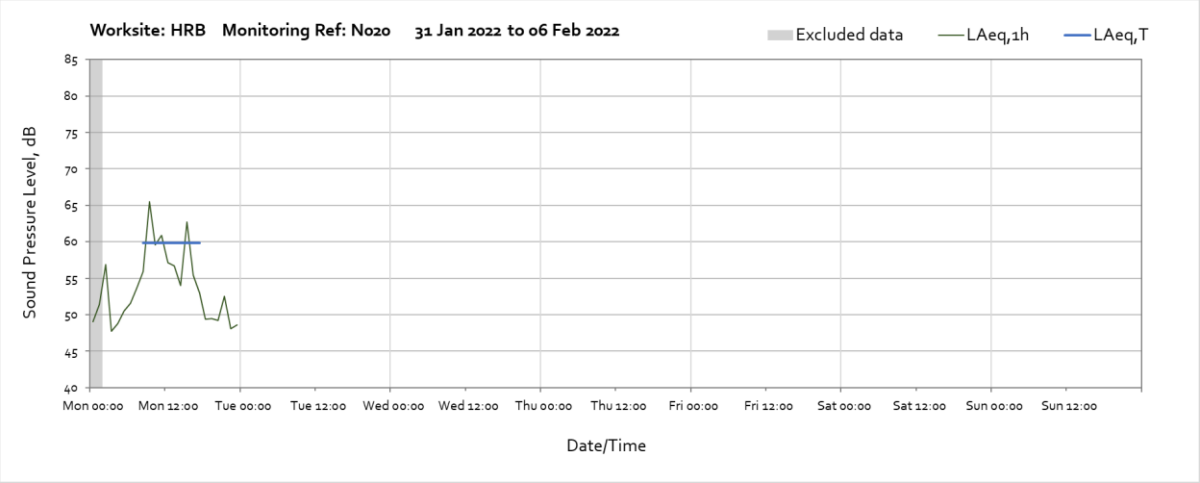
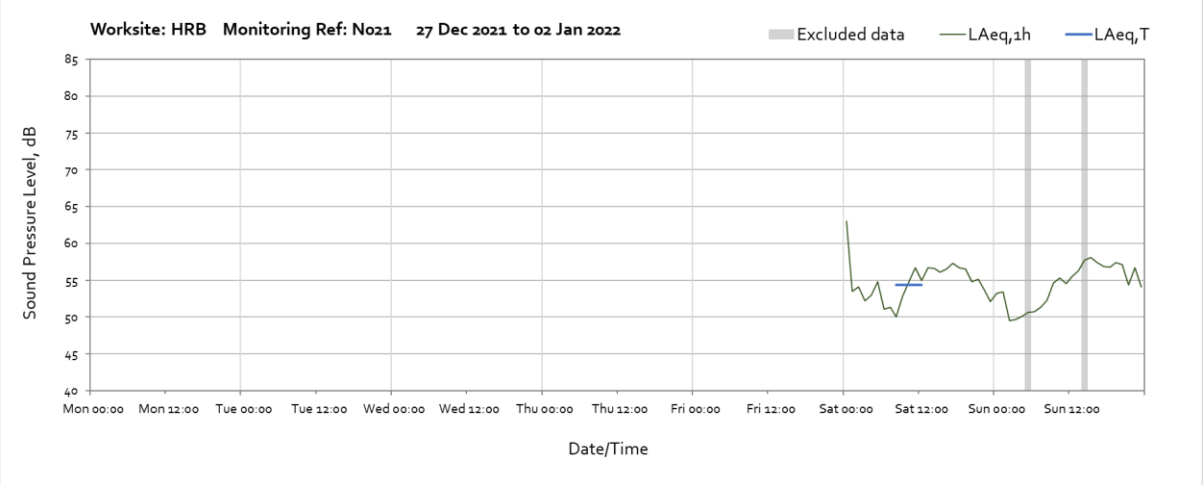
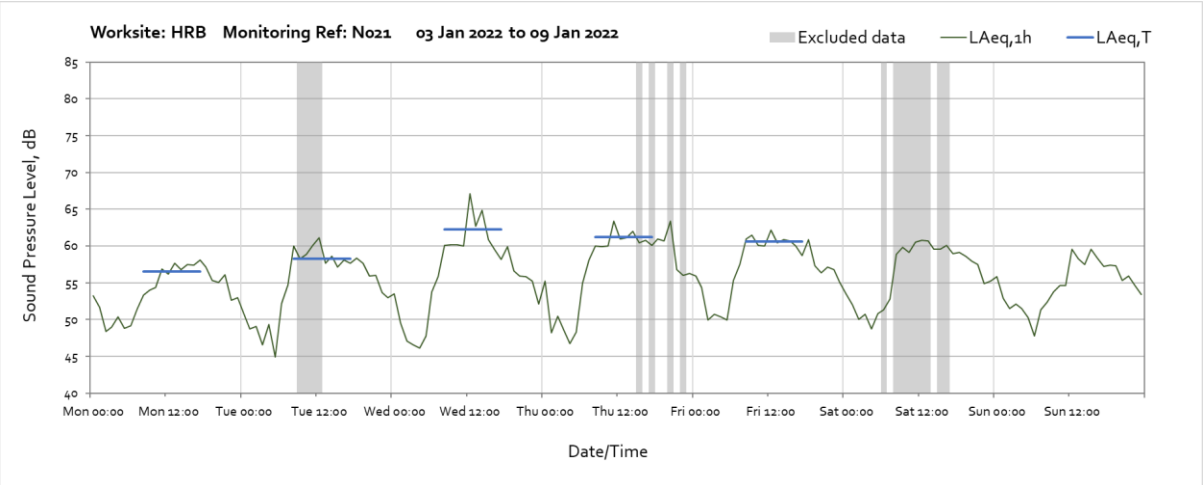
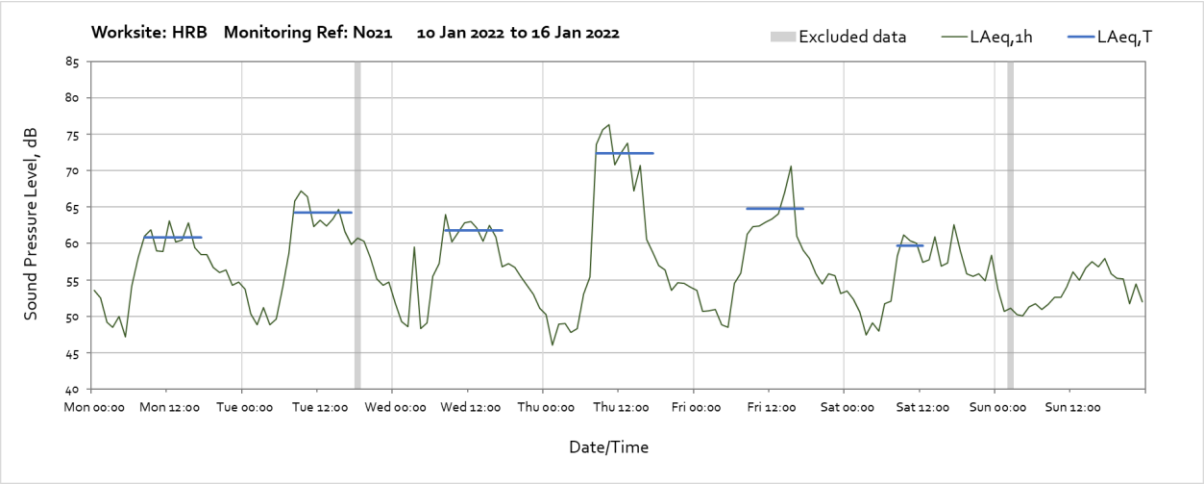


Worksite: HRB – Monitoring Ref: N021






Worksite: HRB Monitoring Ref: N021 10 Jan 2022 to 16 Jan 2022
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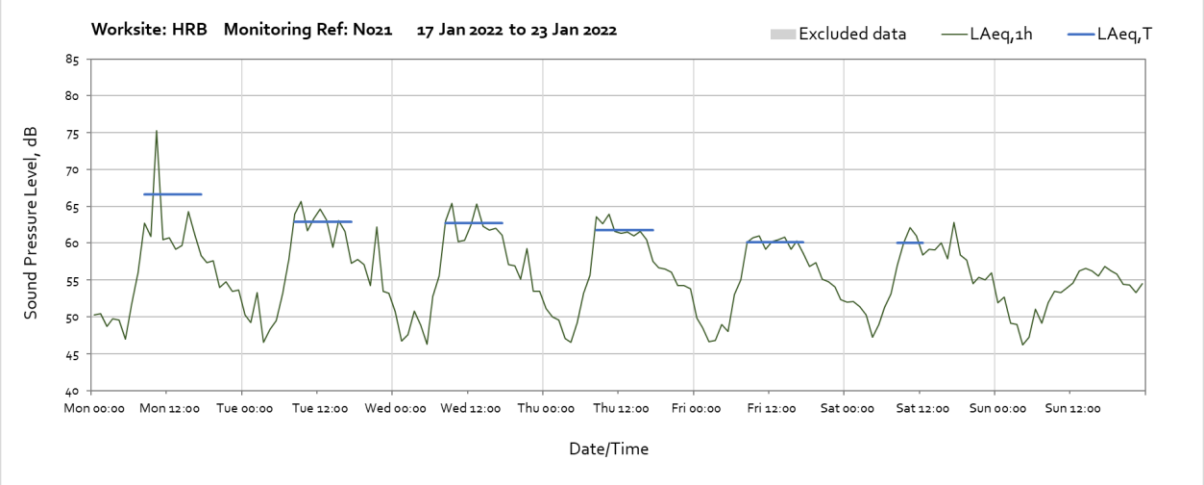
Worksite: HRB Monitoring Ref: N021 17 Jan 2022 to 23 Jan 2022
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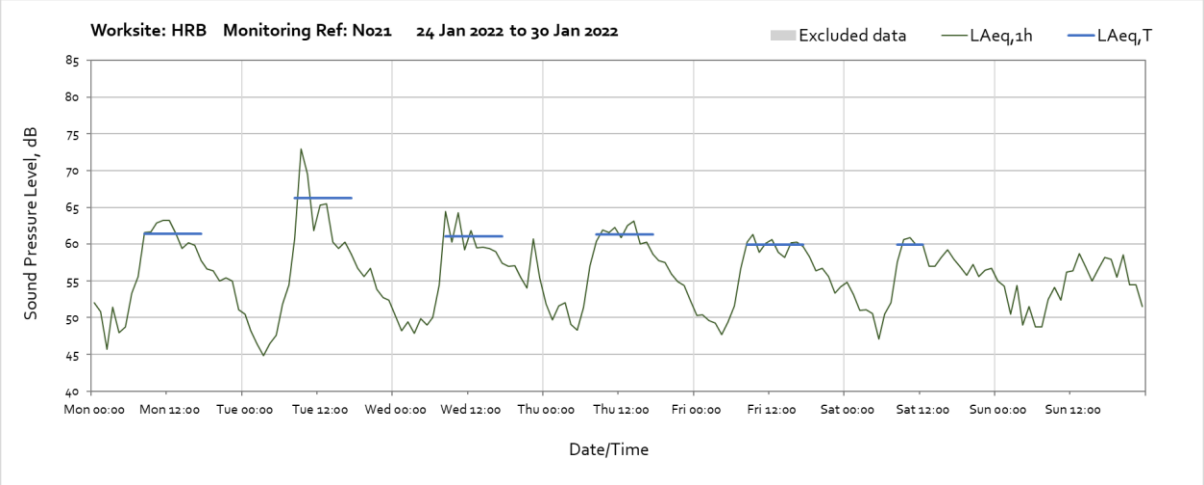
Worksite: HRB Monitoring Ref: N021 24 Jan 2022 to 30 Jan 2022
Excluded data
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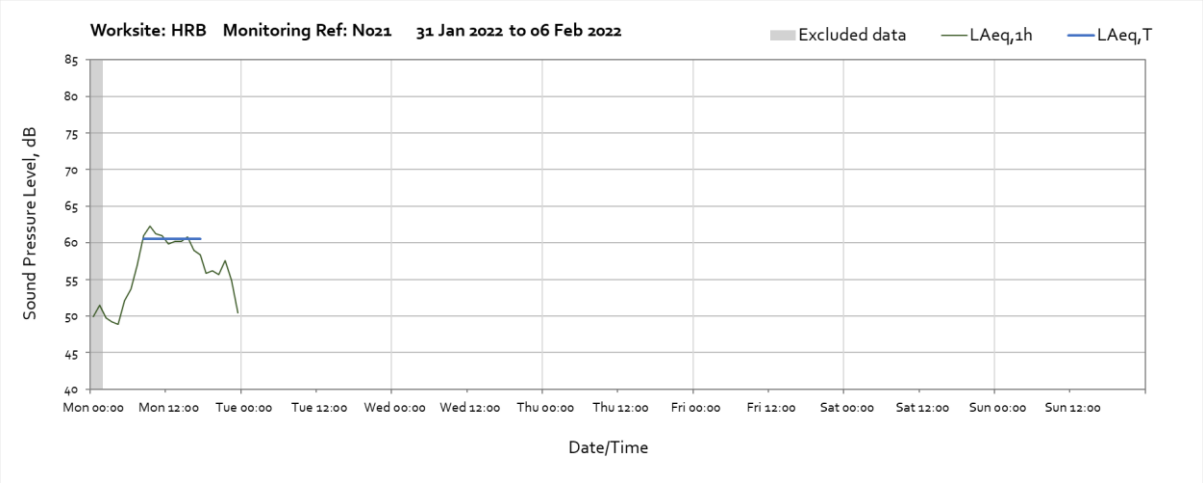
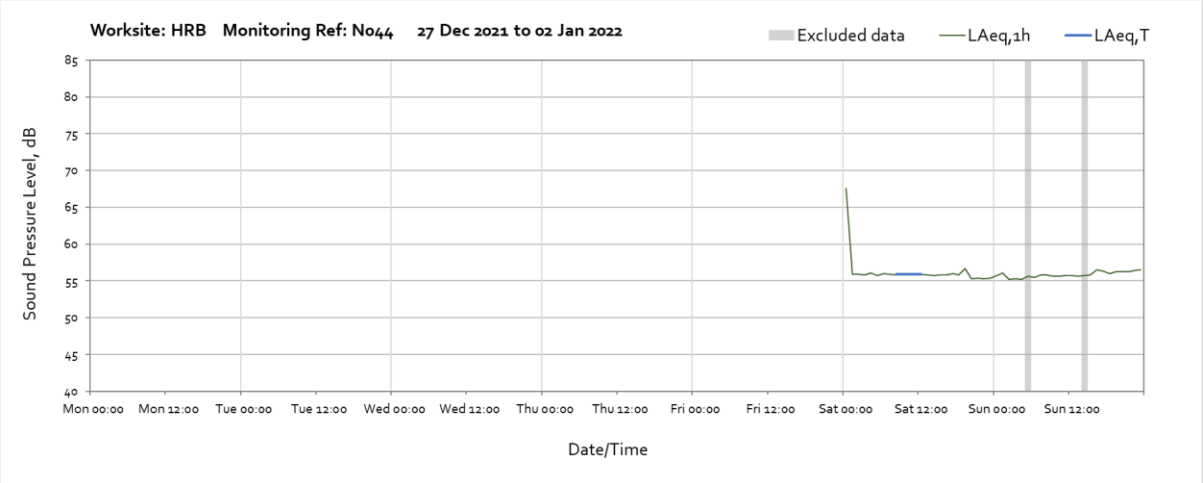
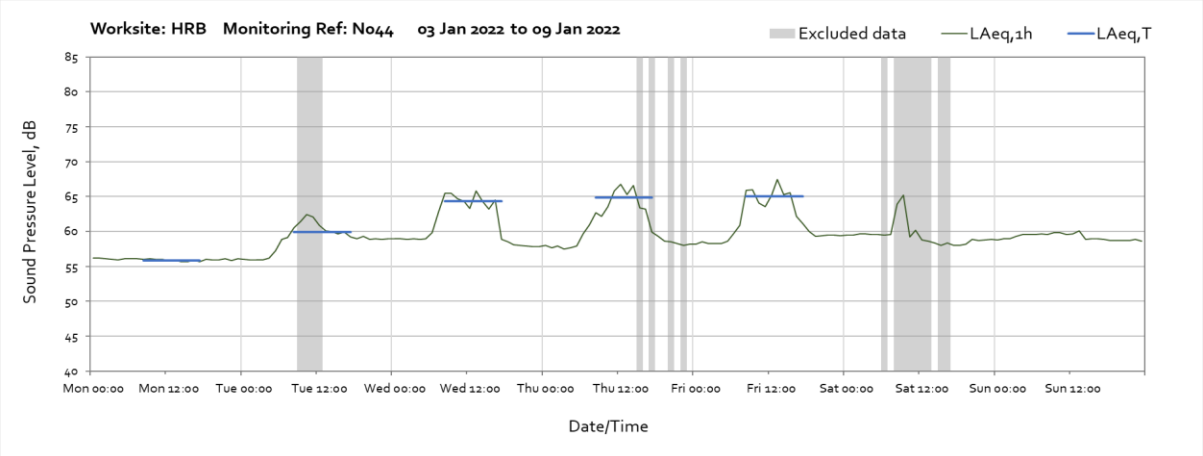


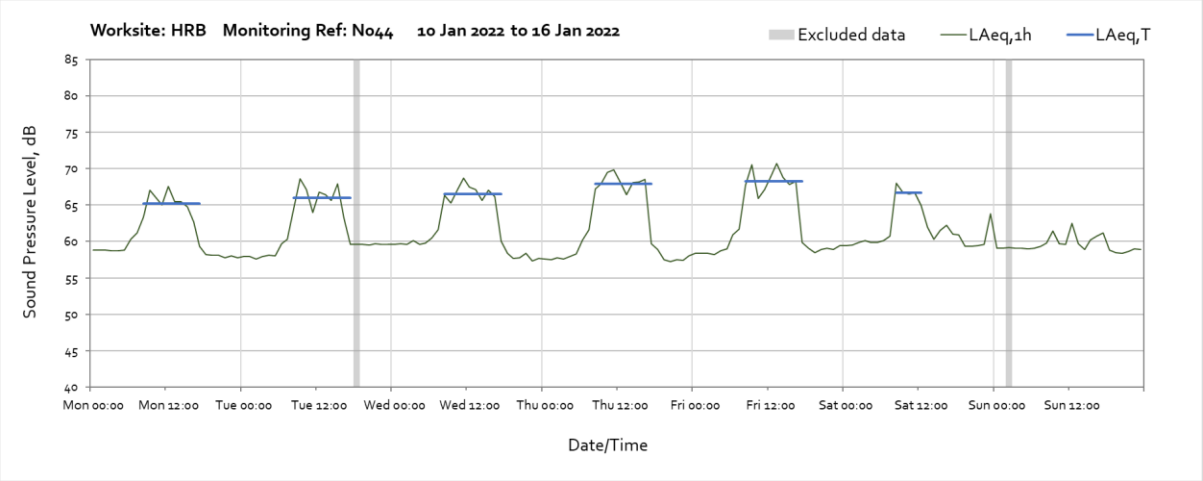
Worksite: HRB – Monitoring Ref: N044



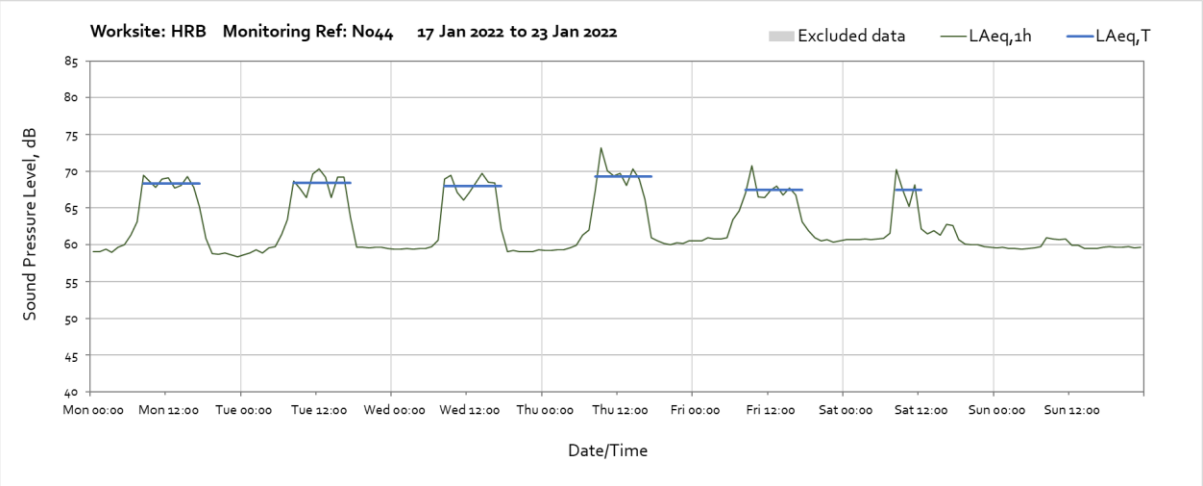
Note: Continuous noise levels measured throughout the week were caused by an operational generator near to the monitor. The nearest receptor is located further from the generator and will therefore experience lower noise levels.



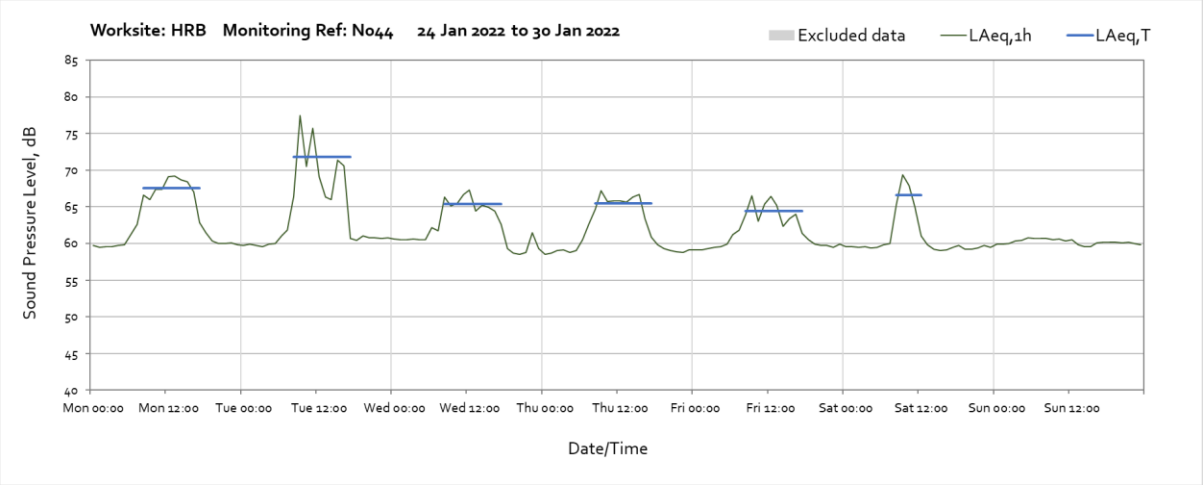
Note: Continuous noise levels measured throughout the week were caused by an operational generator near to the monitor. The nearest receptor is located further from the generator and will therefore experience lower noise levels.



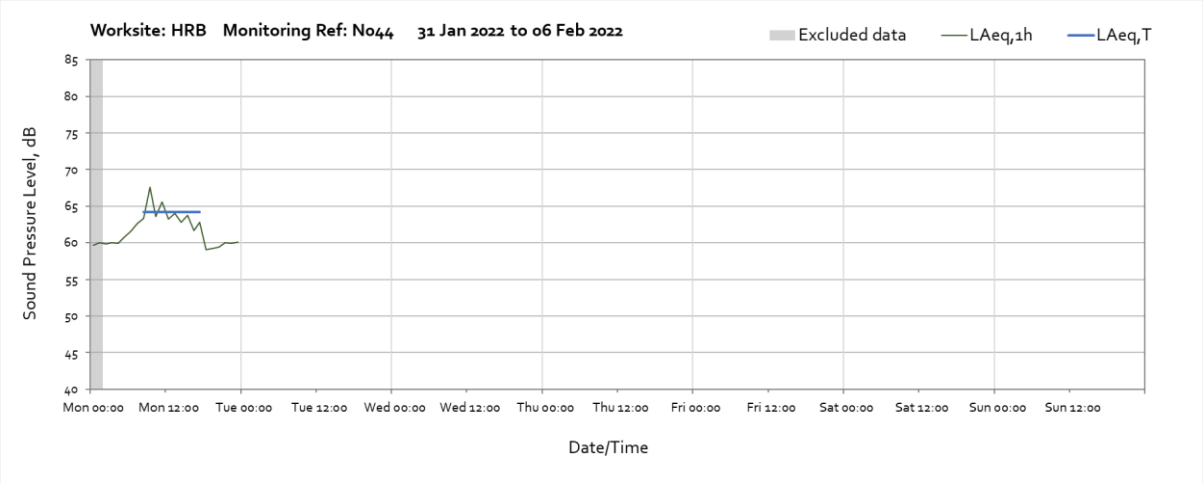
Note: Continuous noise levels measured throughout the week were caused by an operational generator near to the monitor. The nearest receptor is located further from the generator and will therefore experience lower noise levels.



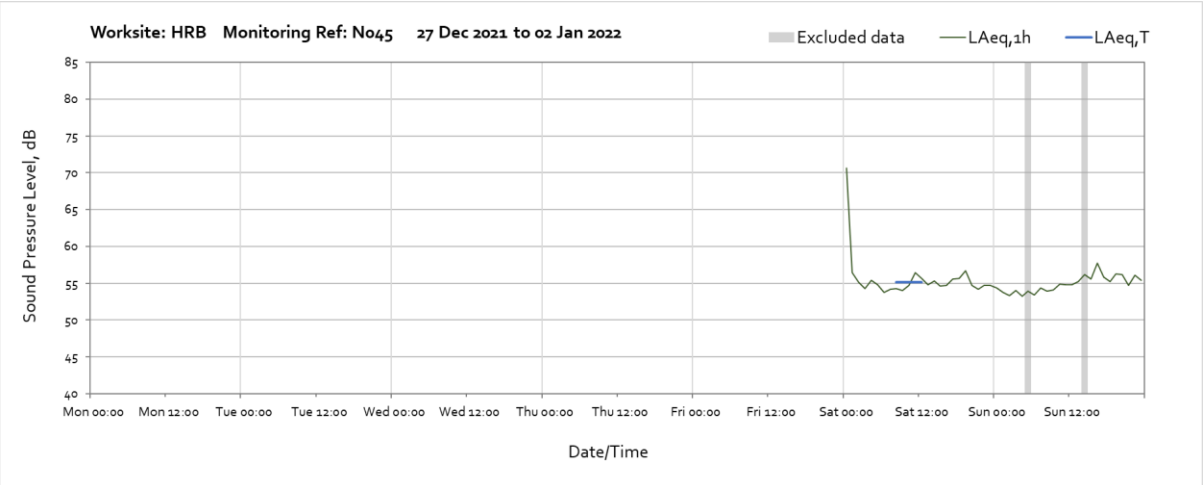
Note: Continuous noise levels measured throughout the week were caused by an operational generator near to the monitor. The nearest receptor is located further from the generator and will therefore experience lower noise levels.

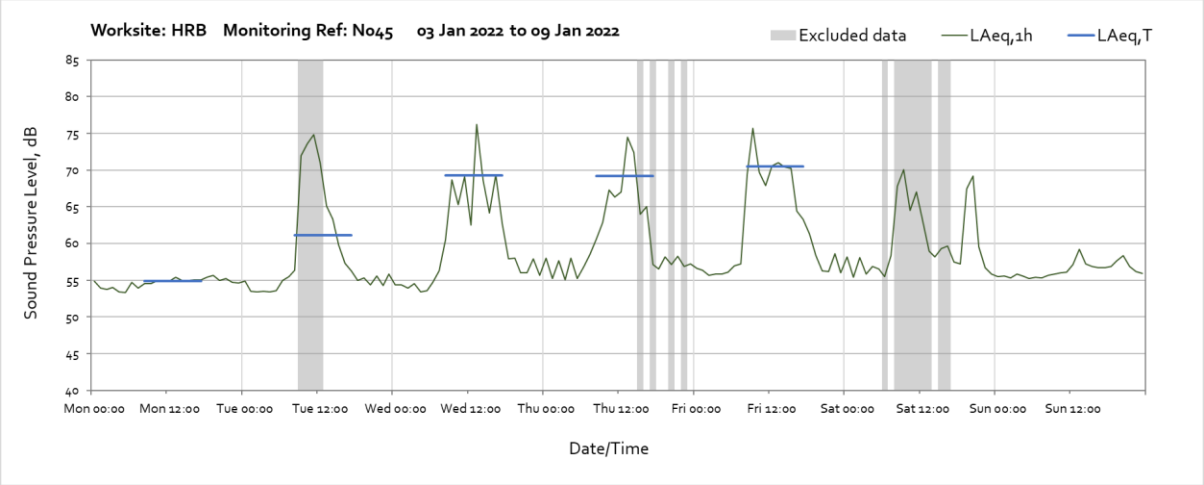


Note: Continuous noise levels measured throughout the week were caused by an operational generator near to the monitor. The nearest receptor is located further from the generator and will therefore experience lower noise levels.



Worksite: HRB – Monitoring Ref: N045




Worksite: HRB Monitoring Ref: N045 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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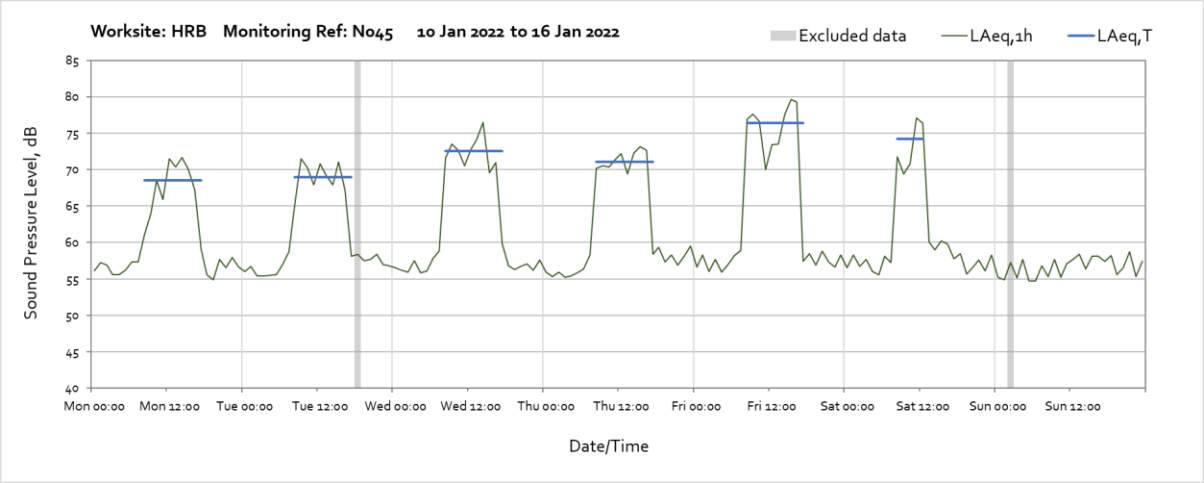
Date/Time


Worksite: HRB Monitoring Ref: N045 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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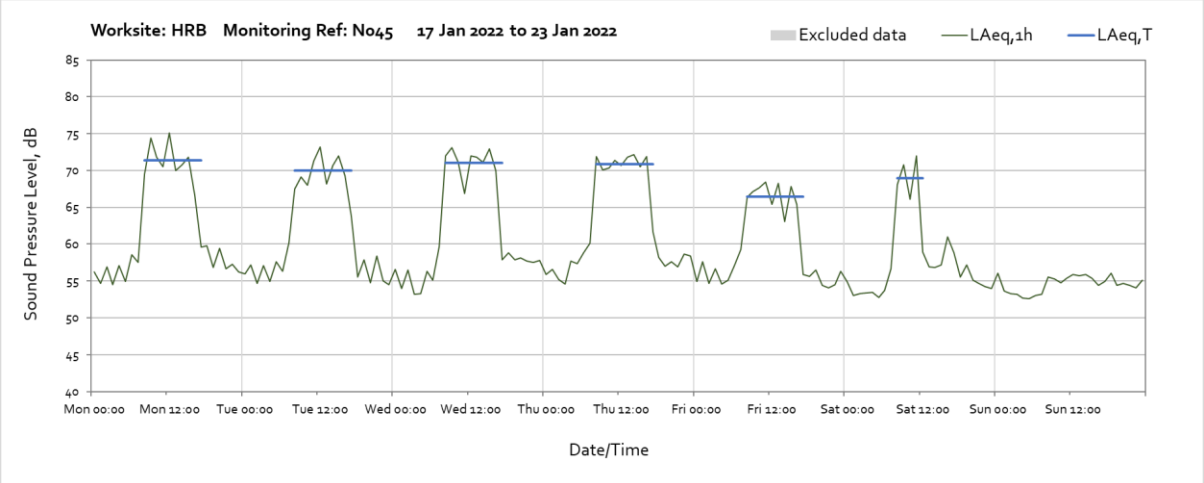
Date/Time


Worksite: HRB Monitoring Ref: N045 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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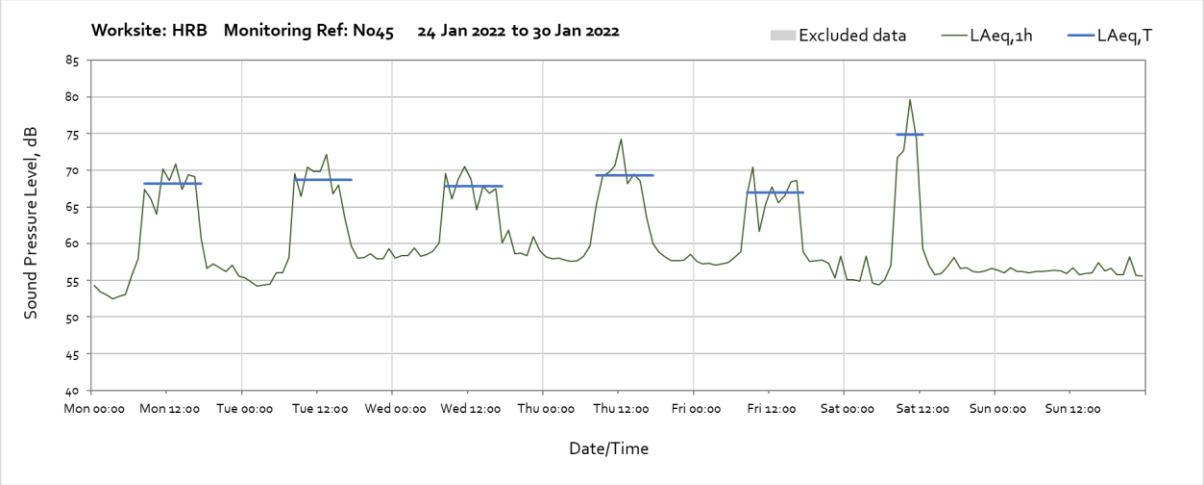
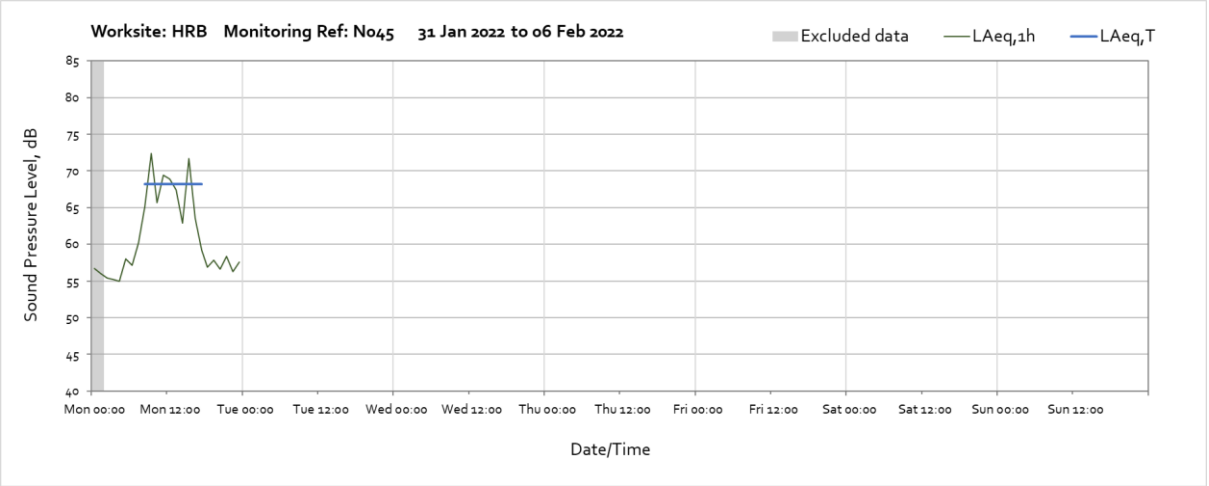
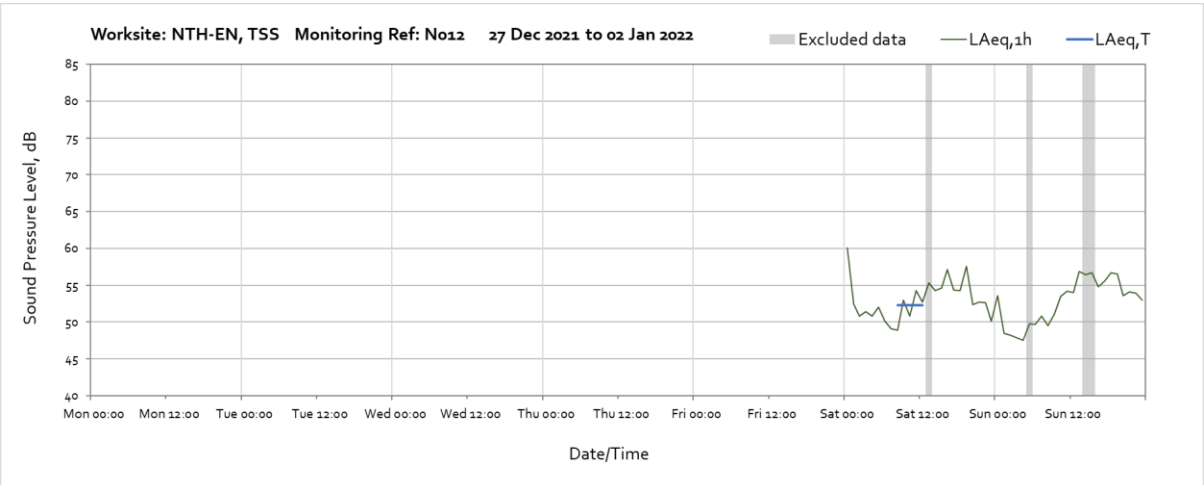
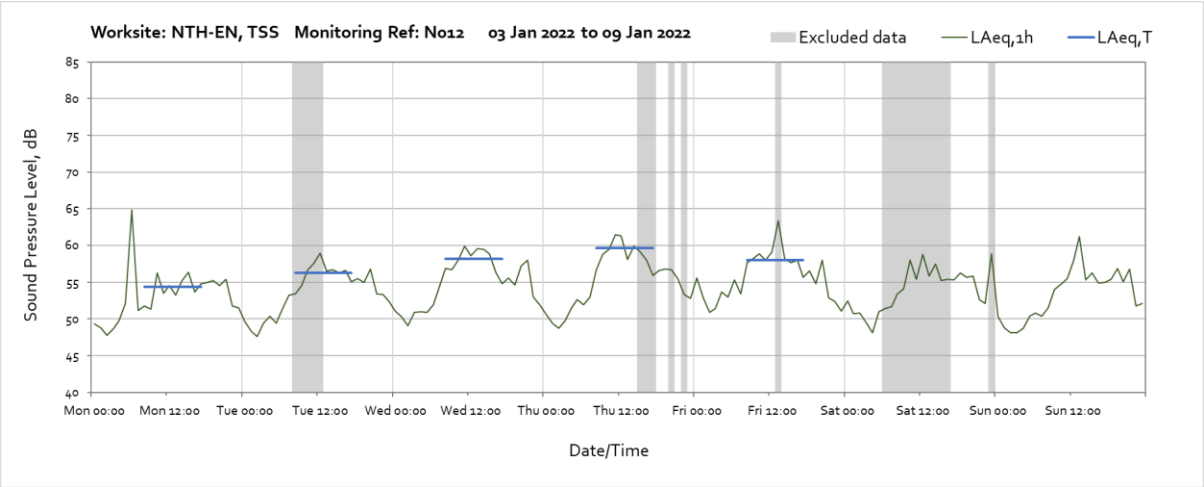
Date/Time





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




Worksite: NTH-EN, TSS Monitoring Ref: No12 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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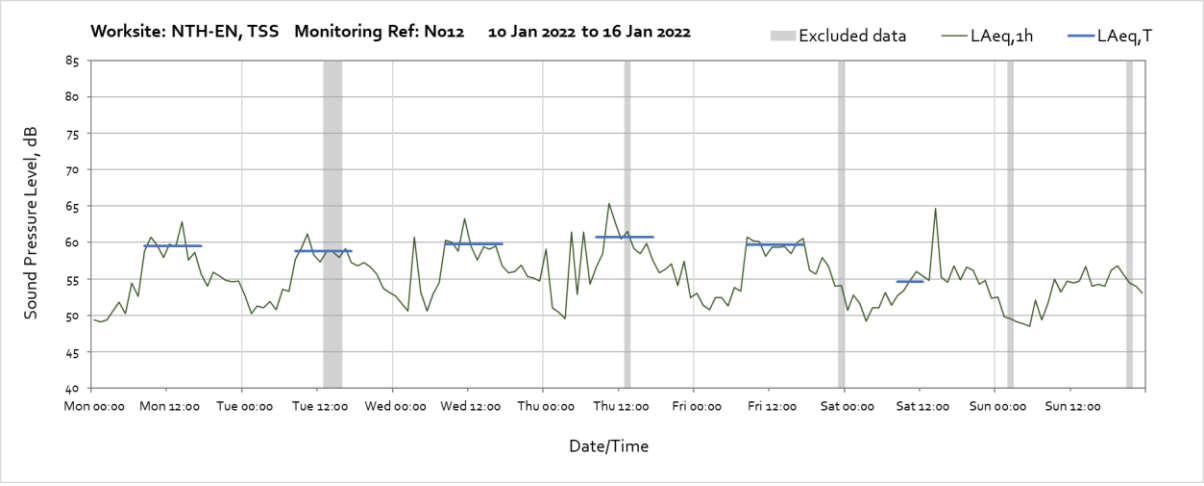
Date/Time


Worksite: NTH-EN, TSS Monitoring Ref: No12 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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Sun 00:00
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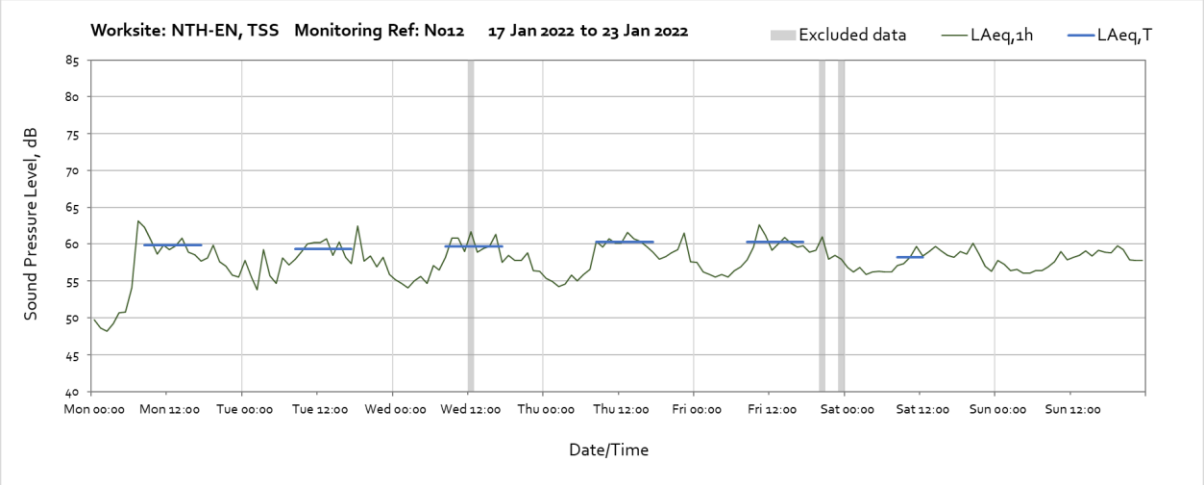
Date/Time


Worksite: NTH-EN, TSS Monitoring Ref: No12 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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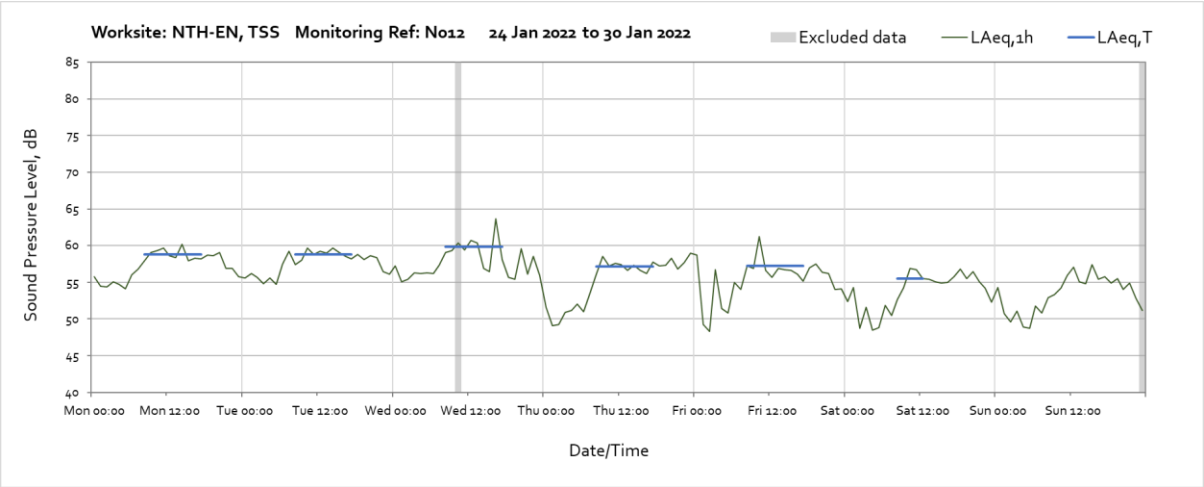
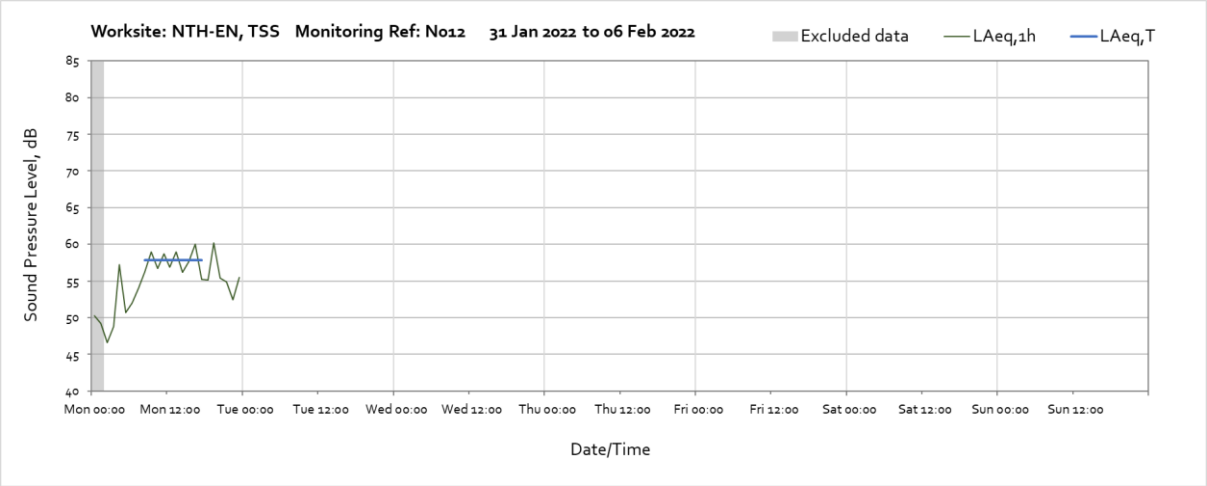
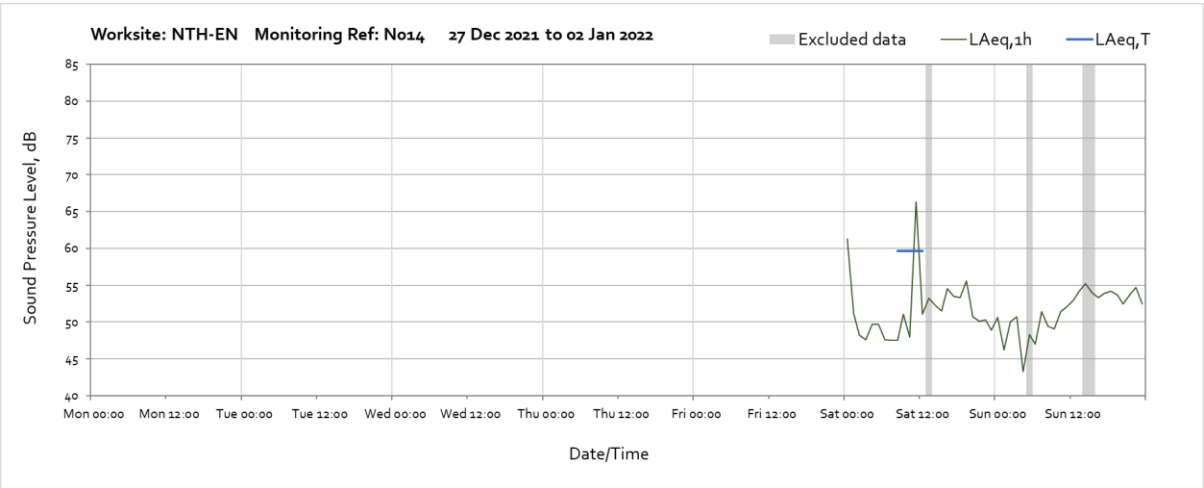
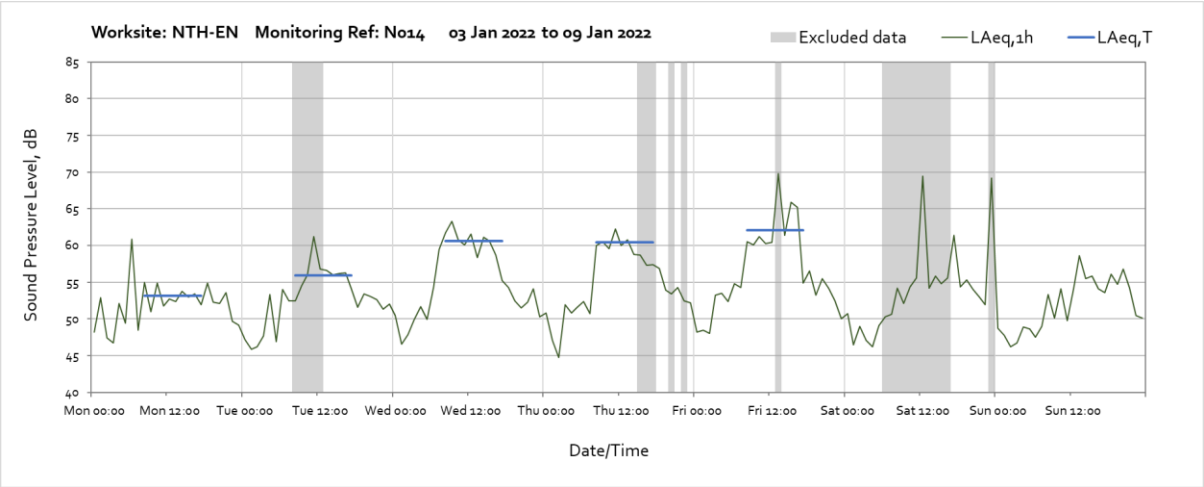
Date/Time





Worksite: NTH-EN – Monitoring Ref: N014




Worksite: NTH-EN Monitoring Ref: No14 03 Jan 2022 to 09 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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Mon 00:00
Mon 12:00
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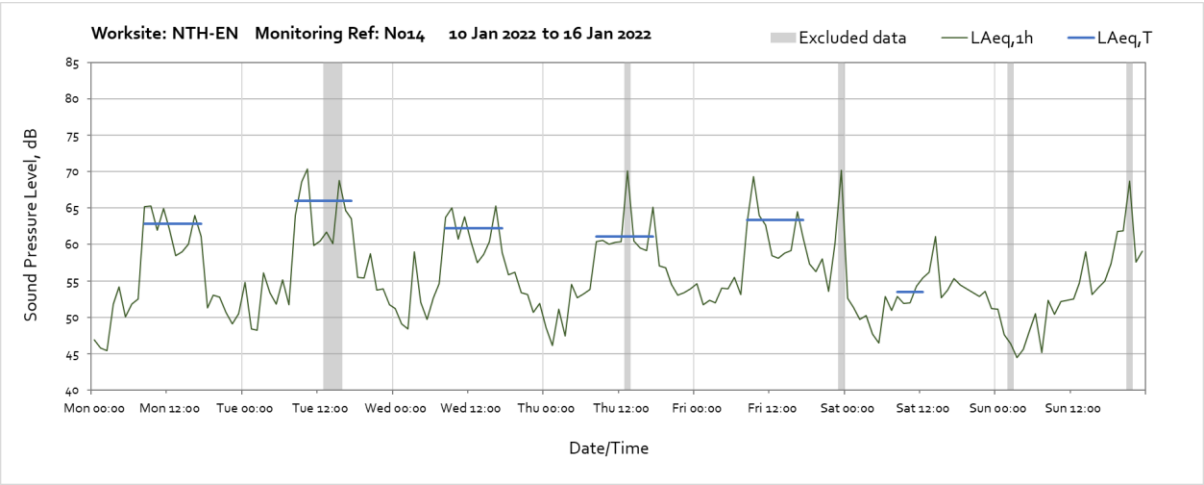
Date/Time


Worksite: NTH-EN Monitoring Ref: No14 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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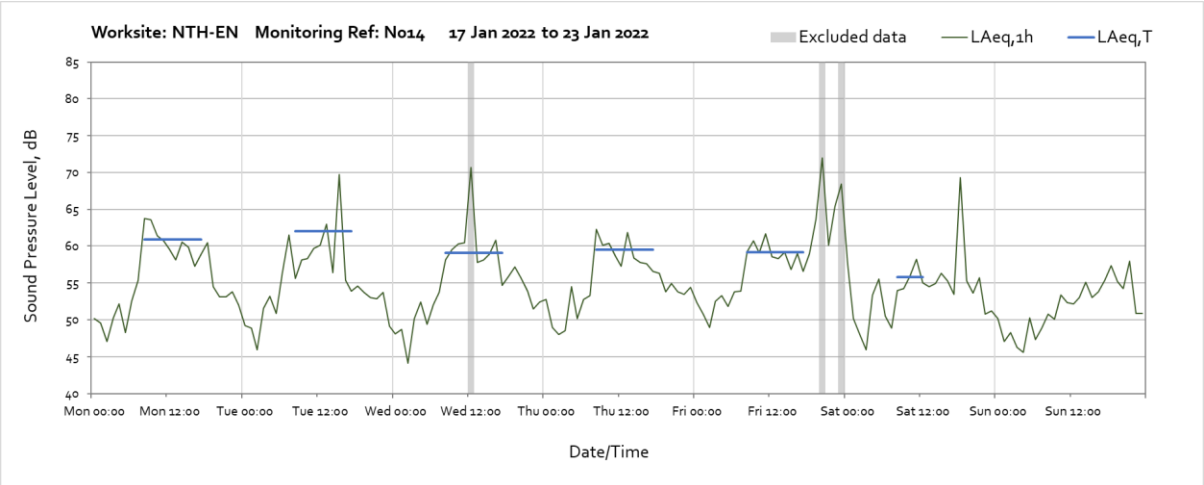
Date/Time


Worksite: NTH-EN Monitoring Ref: No14 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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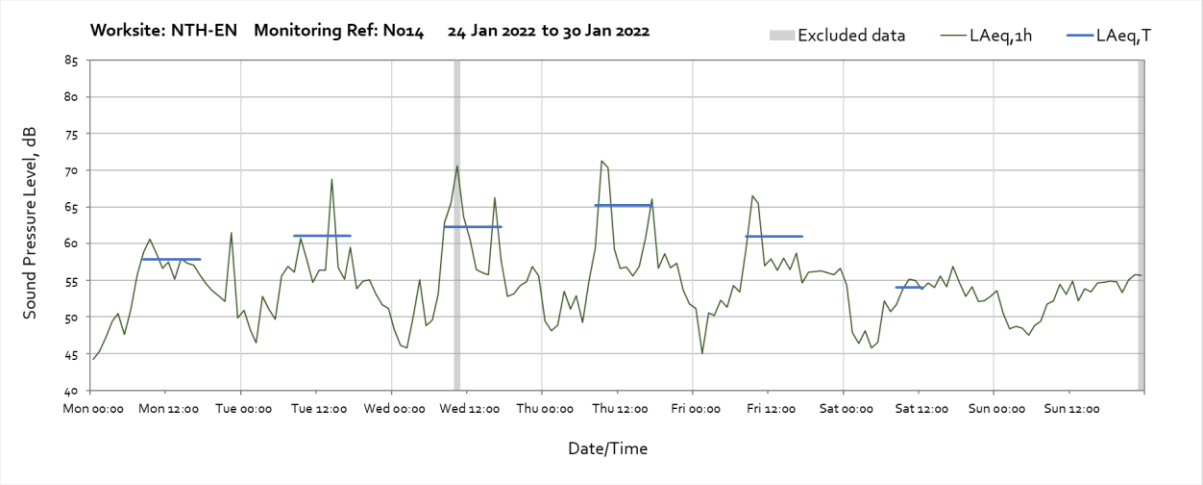
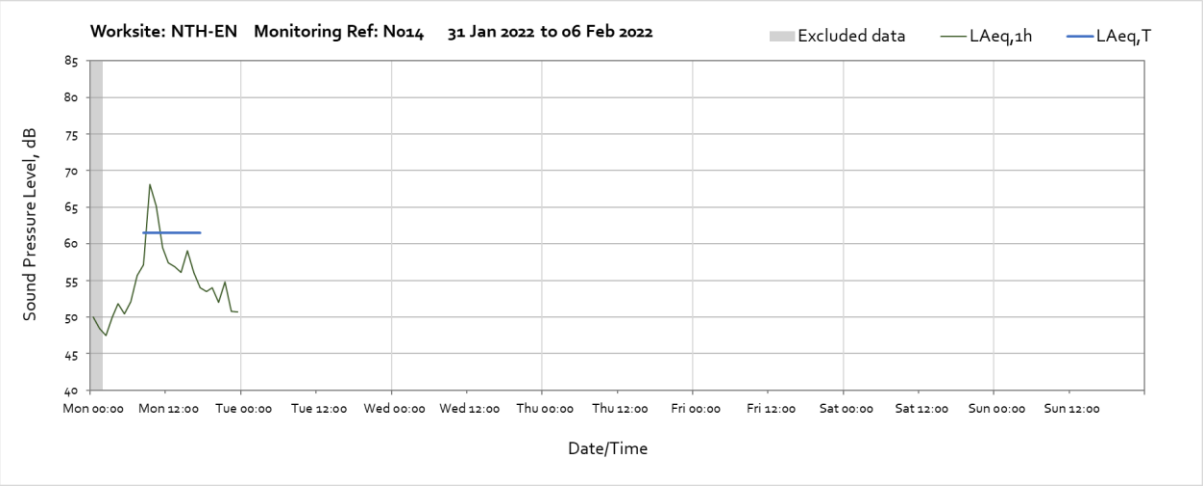
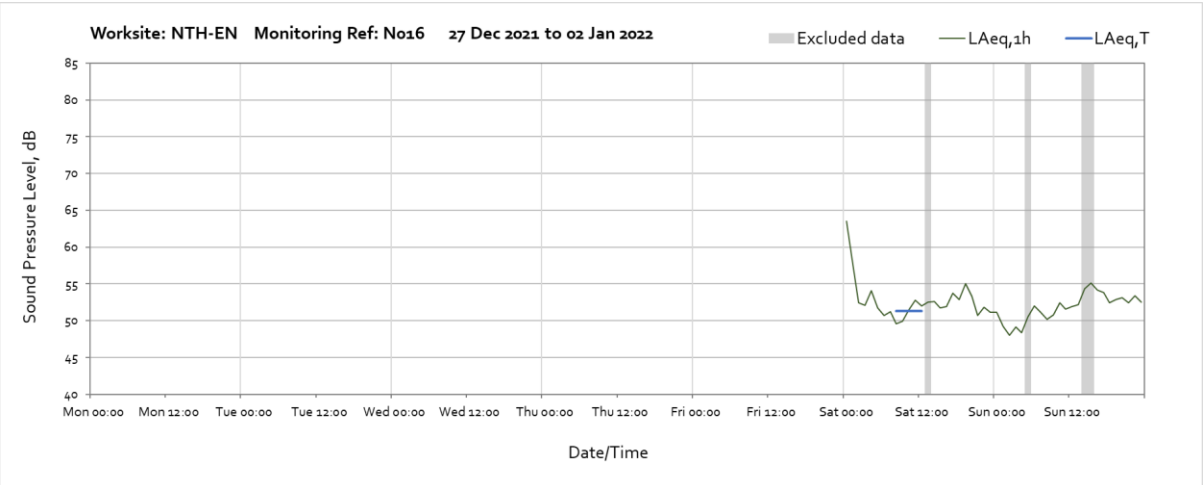
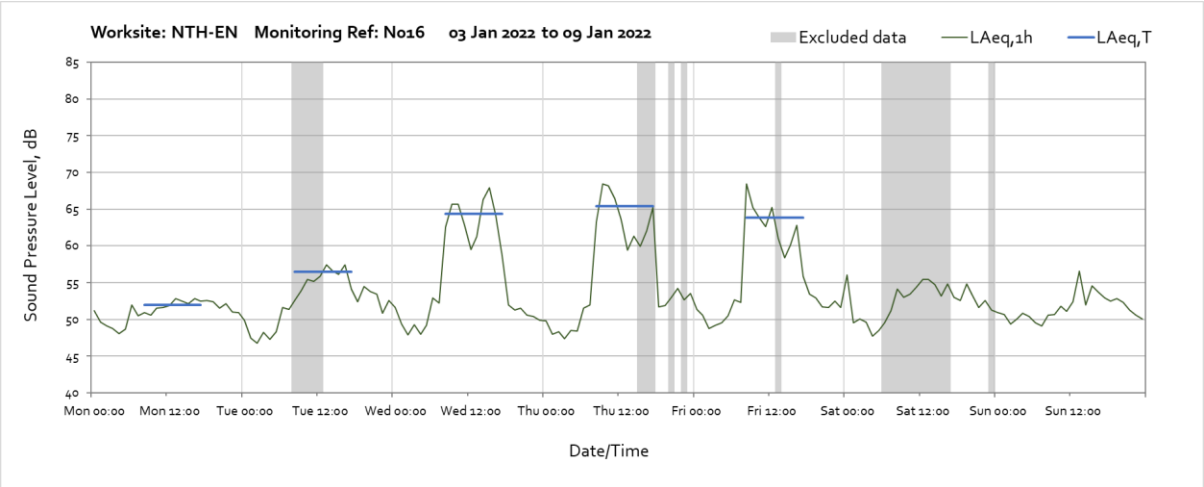
Date/Time





Worksite: NTH-EN – Monitoring Ref: N016




Worksite: NTH-EN Monitoring Ref: No16 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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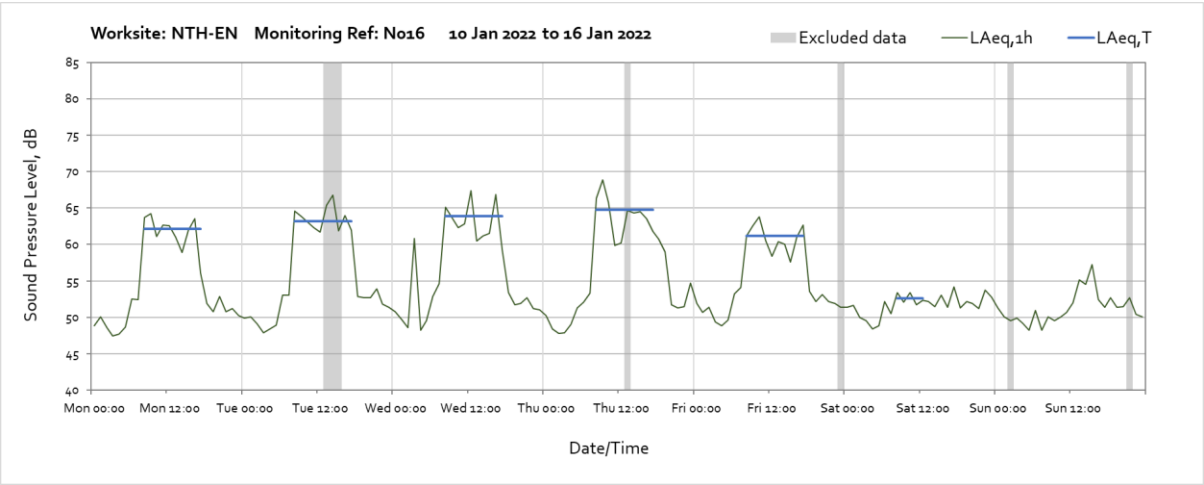
Date/Time


Worksite: NTH-EN Monitoring Ref: No16 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
Mon 12:00
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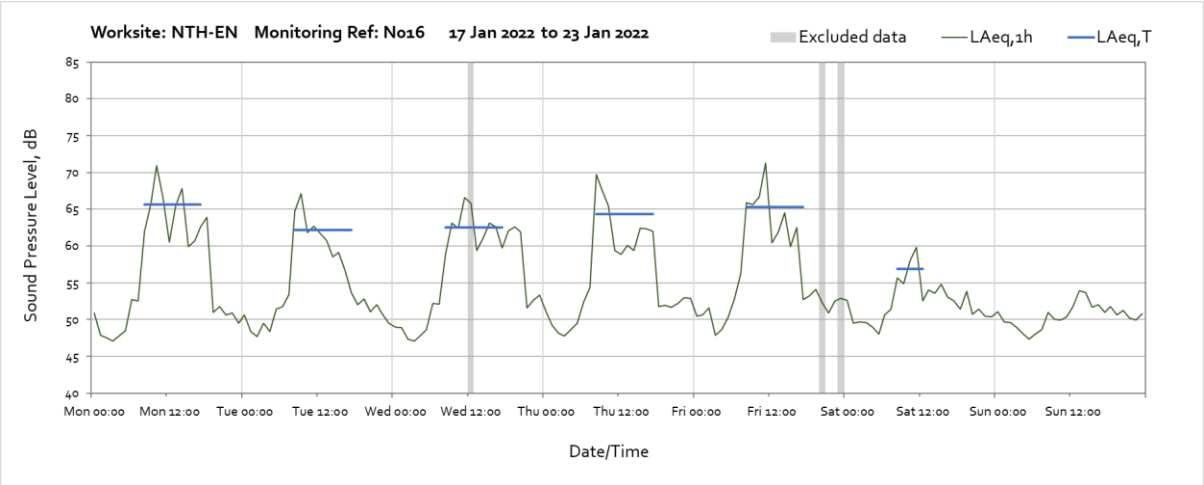
Date/Time


Worksite: NTH-EN Monitoring Ref: No16 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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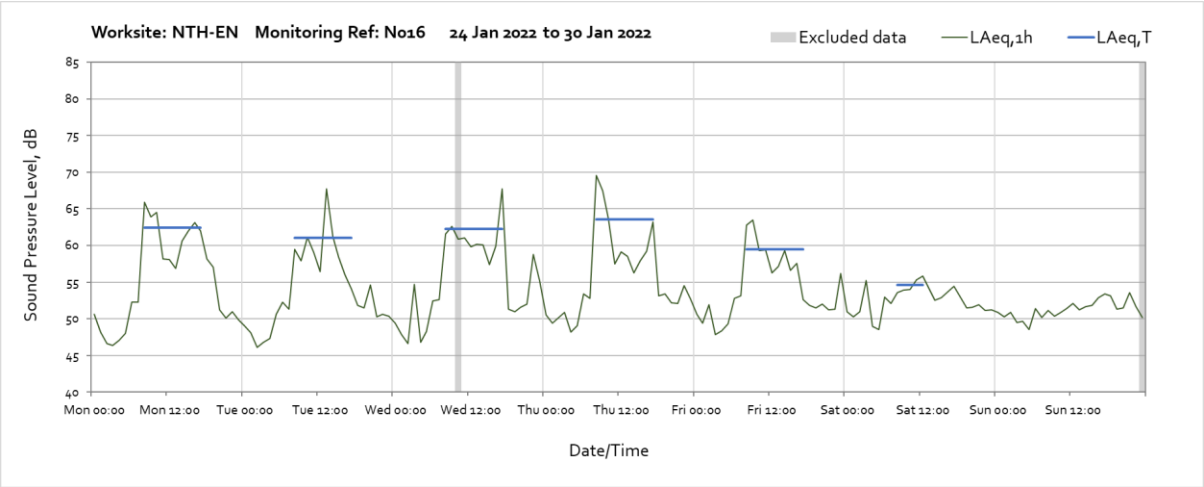
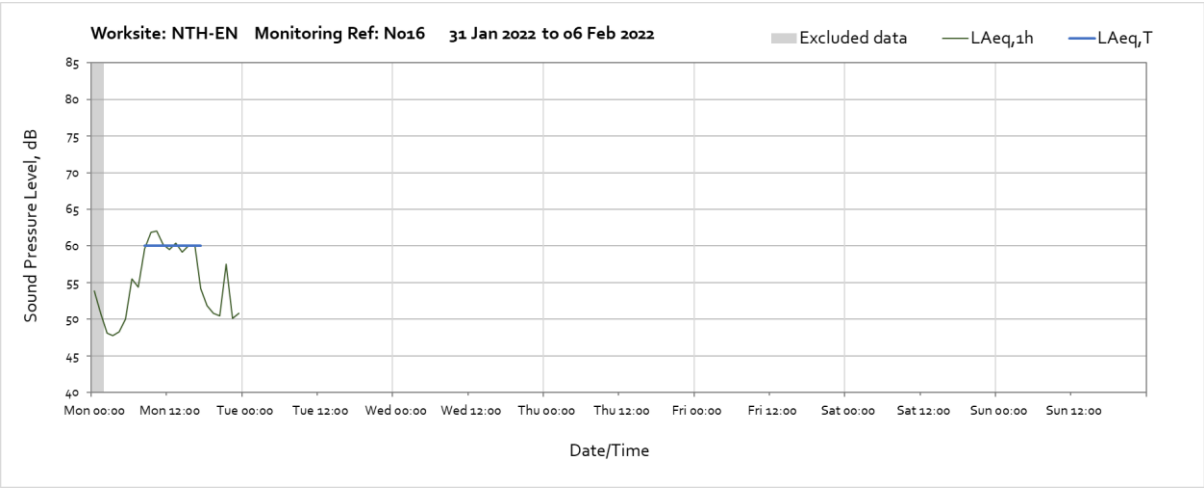
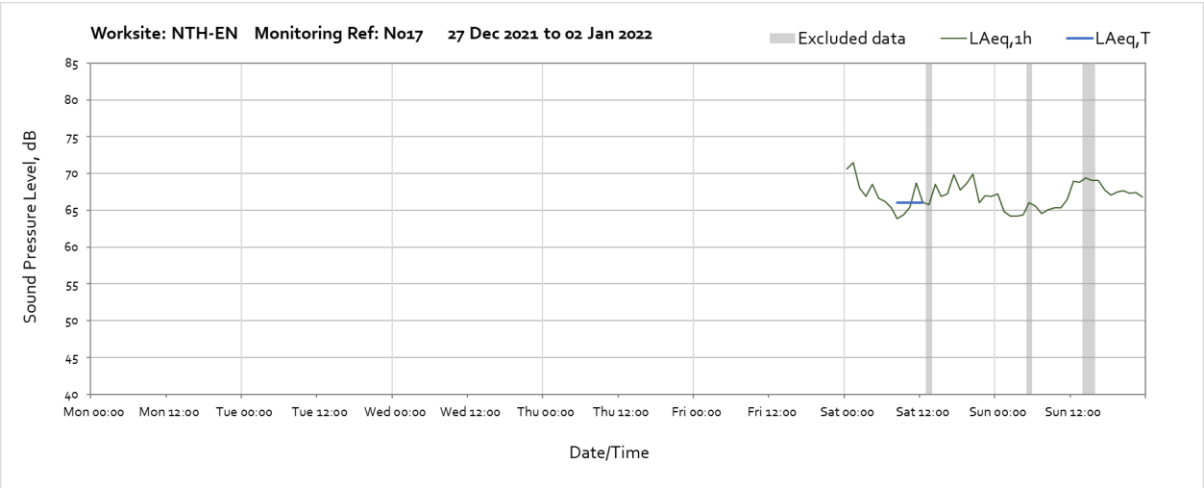
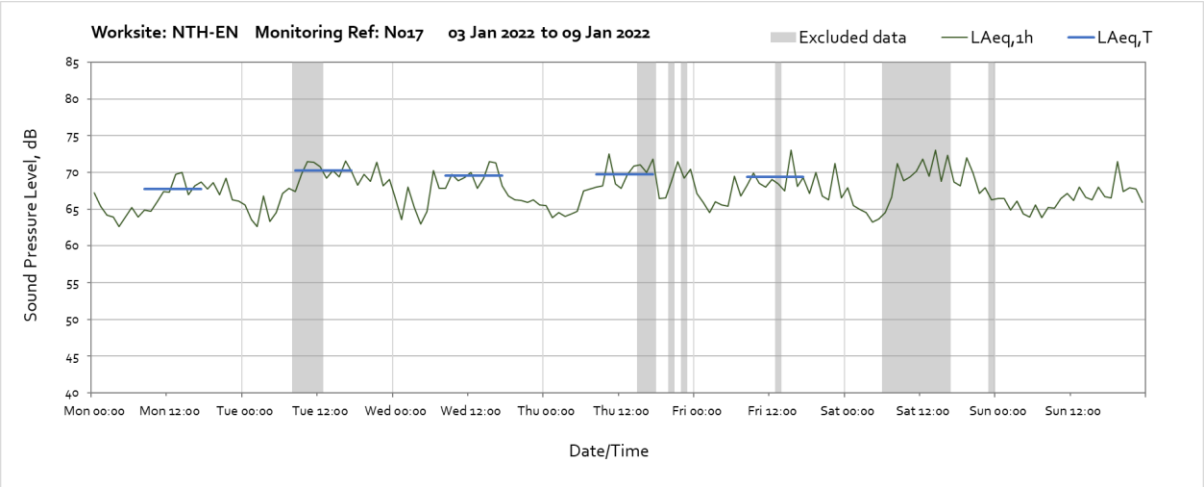
Date/Time





Worksite: NTH-EN – Monitoring Ref: N017




Worksite: NTH-EN Monitoring Ref: No17 03 Jan 2022 to 09 Jan 2022
Excluded data
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Sound Pressure Level, dB
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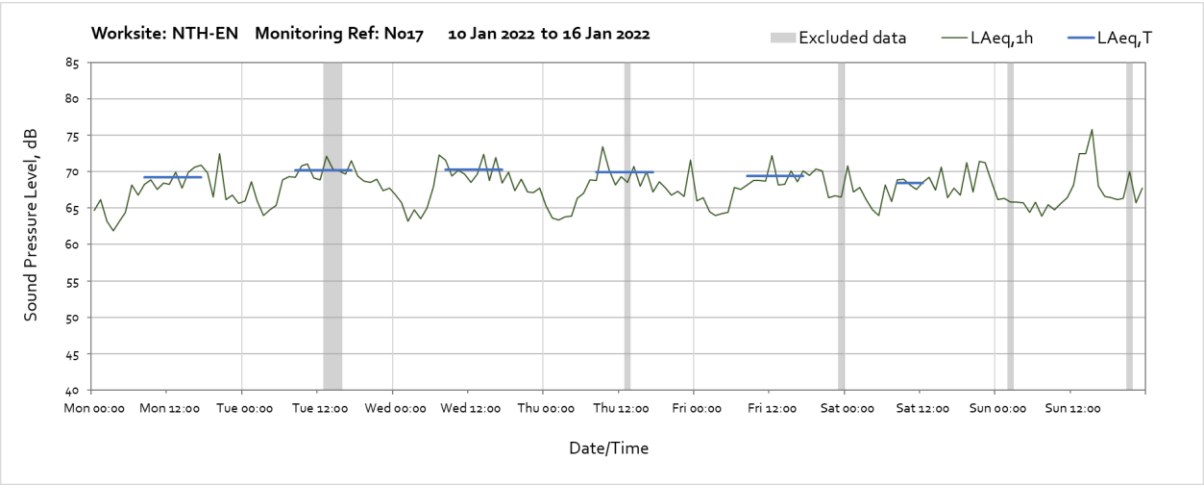
Worksite: NTH-EN Monitoring Ref: No17 10 Jan 2022 to 16 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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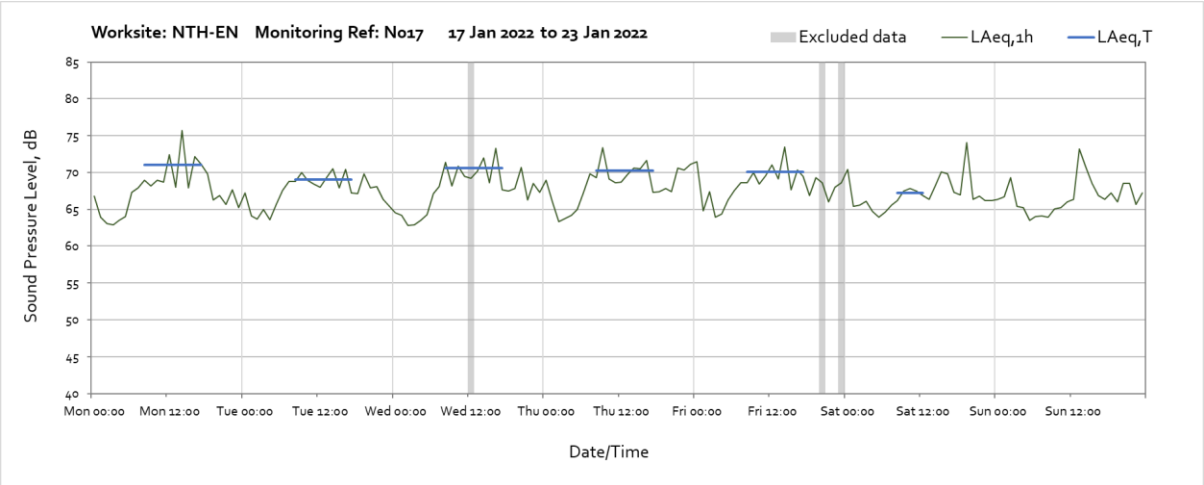
Date/Time


Worksite: NTH-EN Monitoring Ref: No17 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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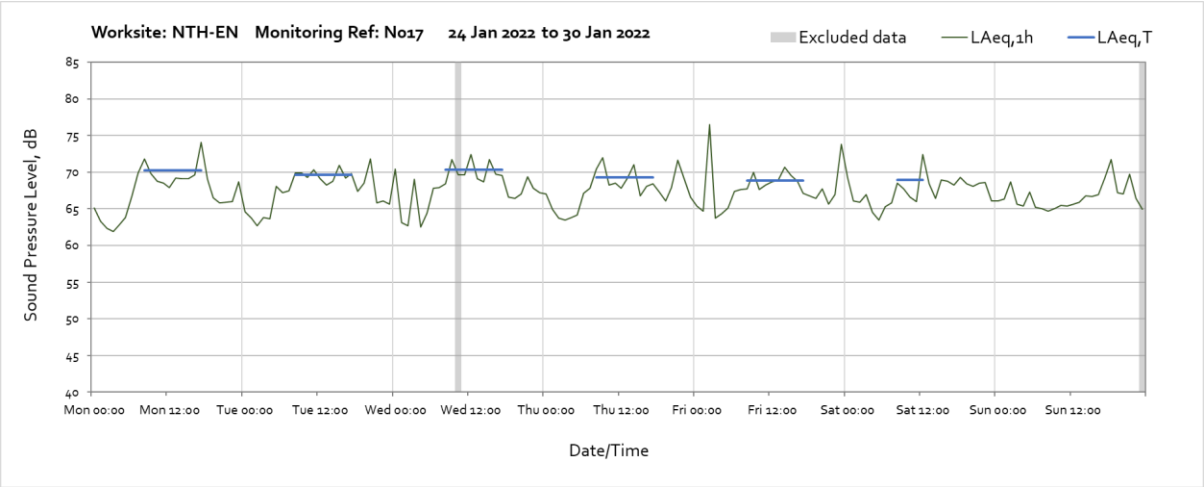
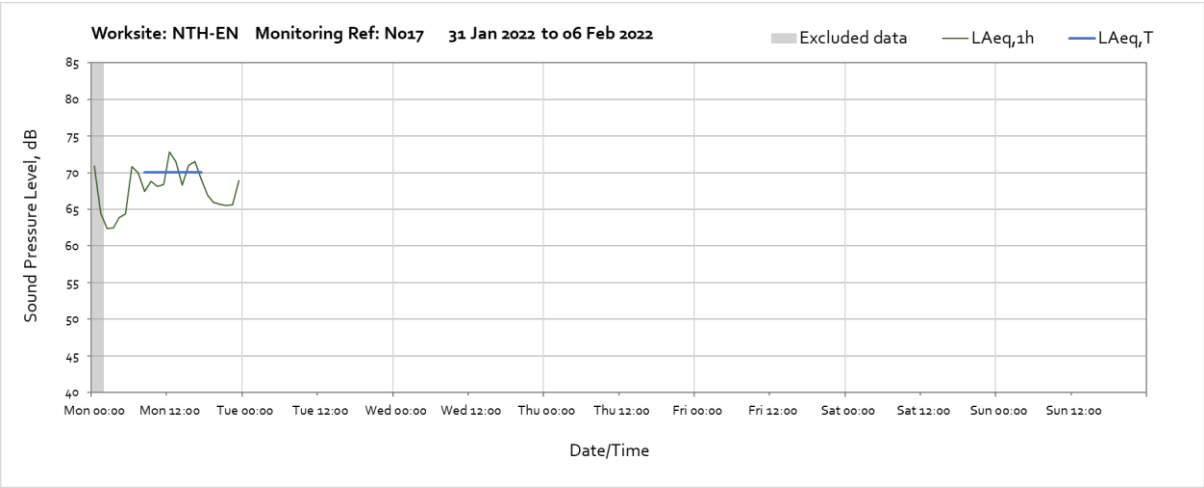
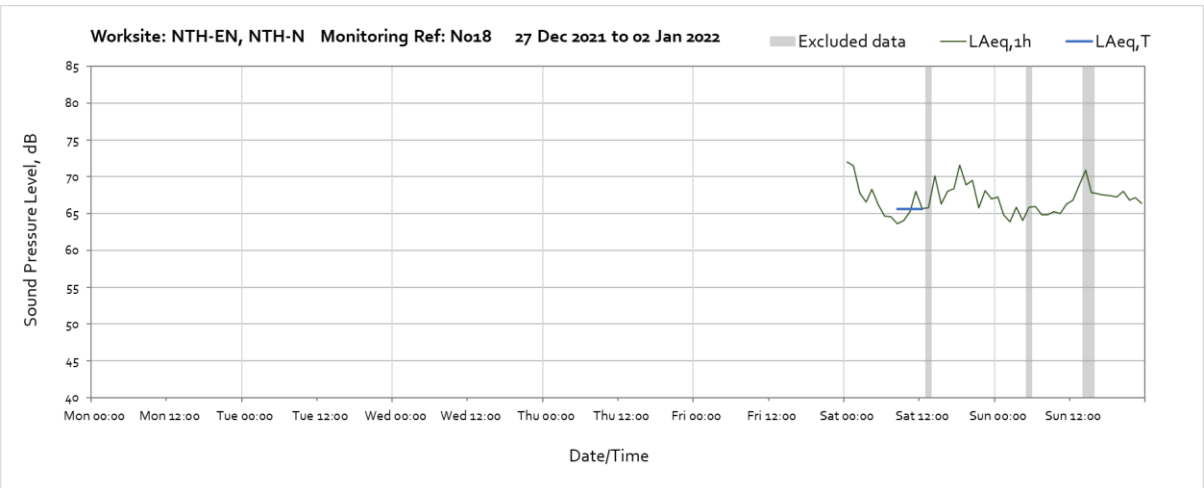
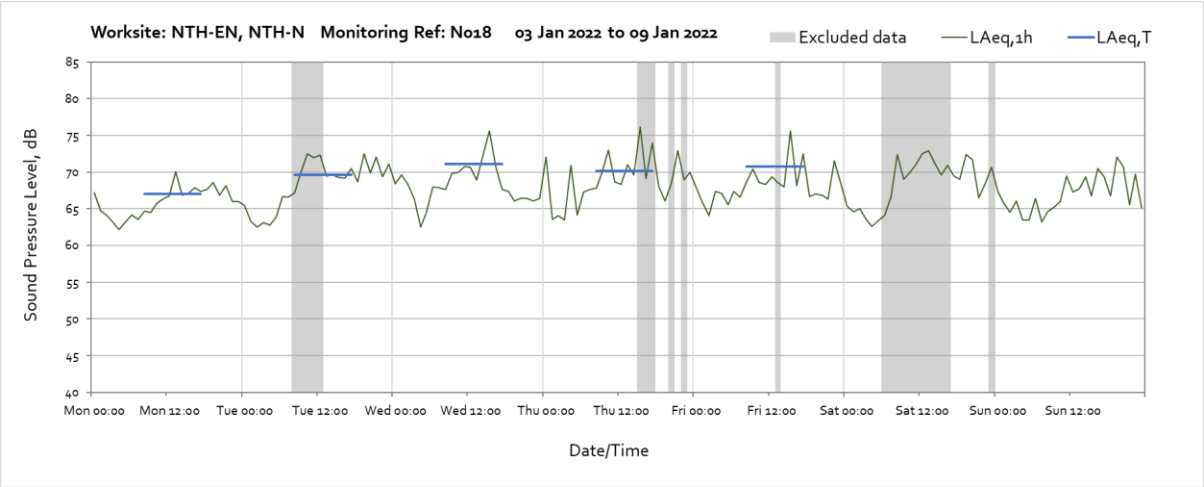
Date/Time





Worksite: NTH-EN, NTH-N – Monitoring Ref: N018




Worksite: NTH-EN, NTH-N Monitoring Ref: No18 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
Mon 12:00
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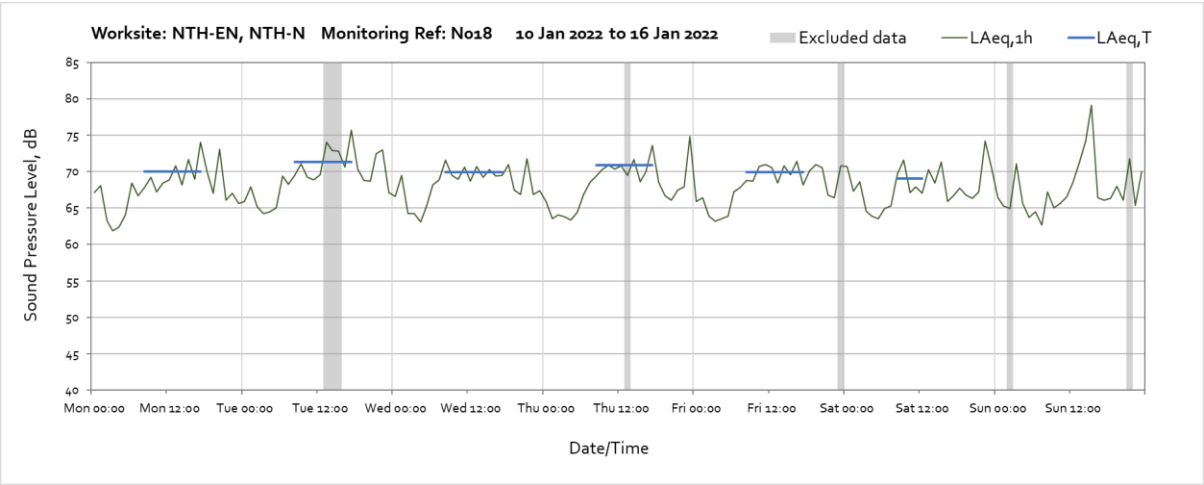
Date/Time


Worksite: NTH-EN, NTH-N Monitoring Ref: No18 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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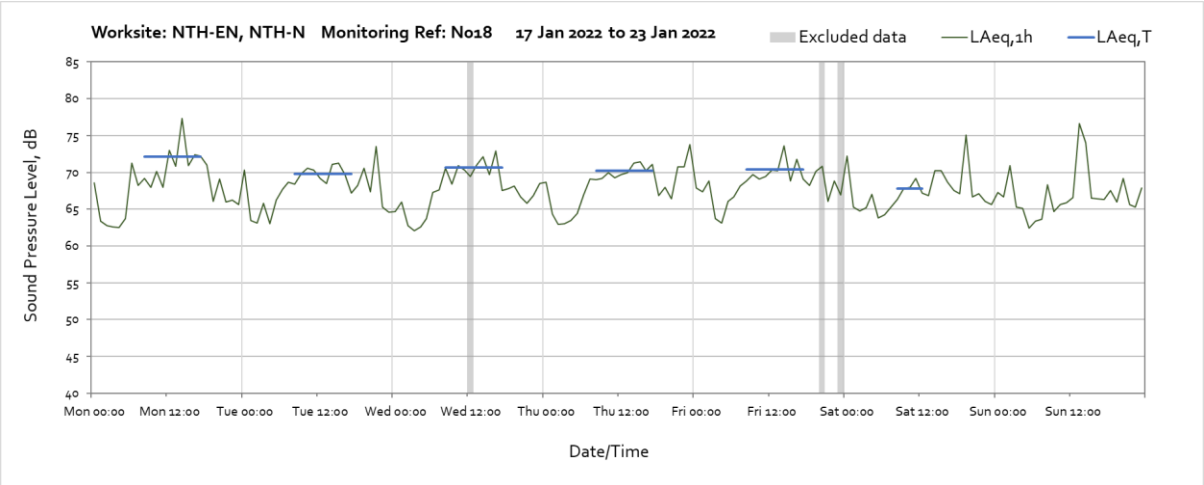
Date/Time


Worksite: NTH-EN, NTH-N Monitoring Ref: No18 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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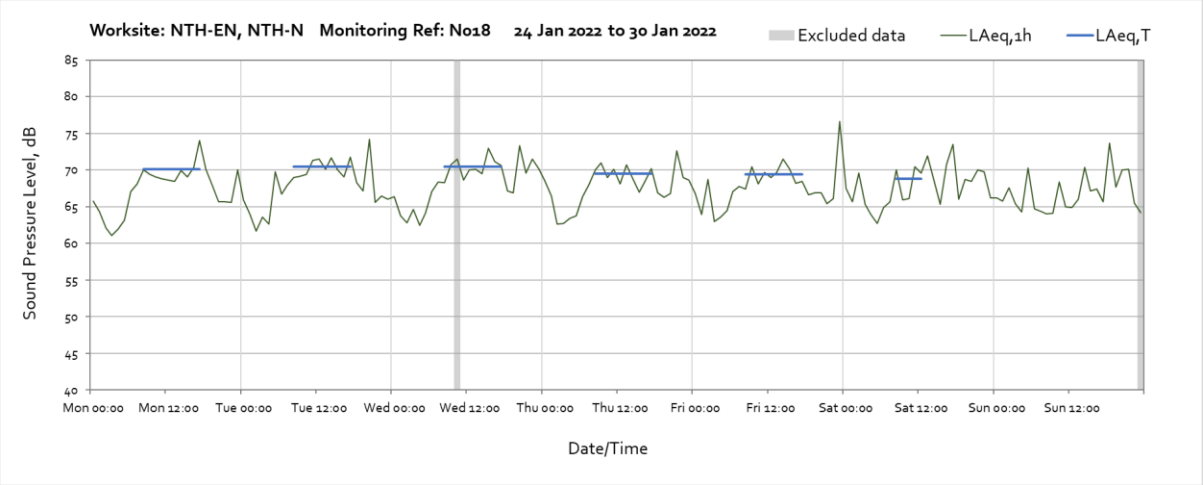
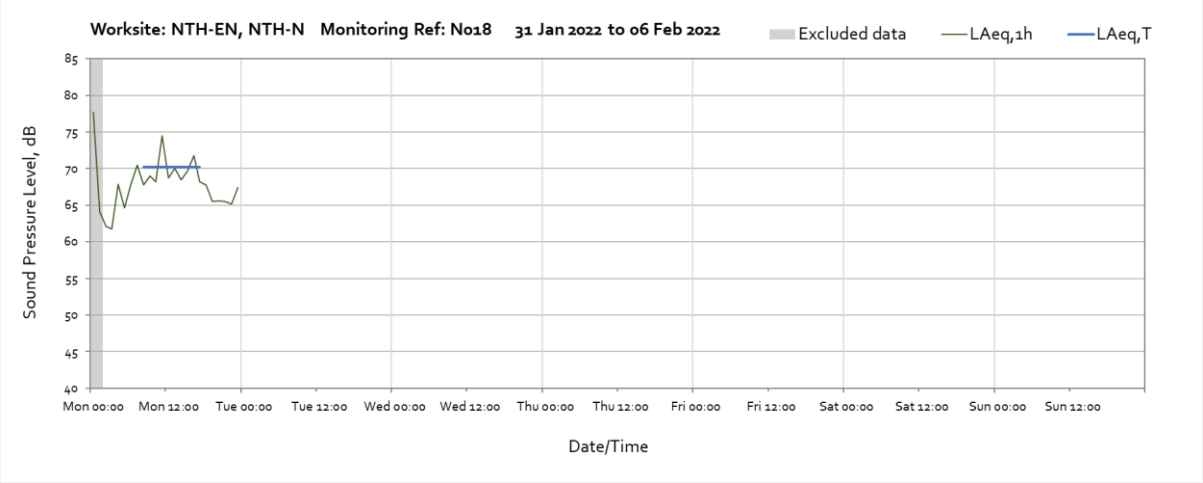
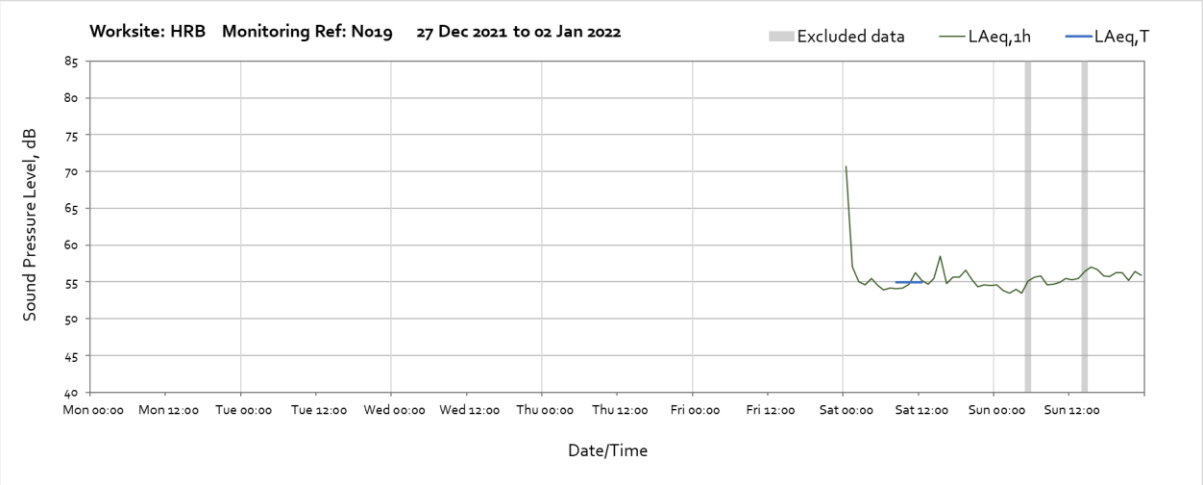
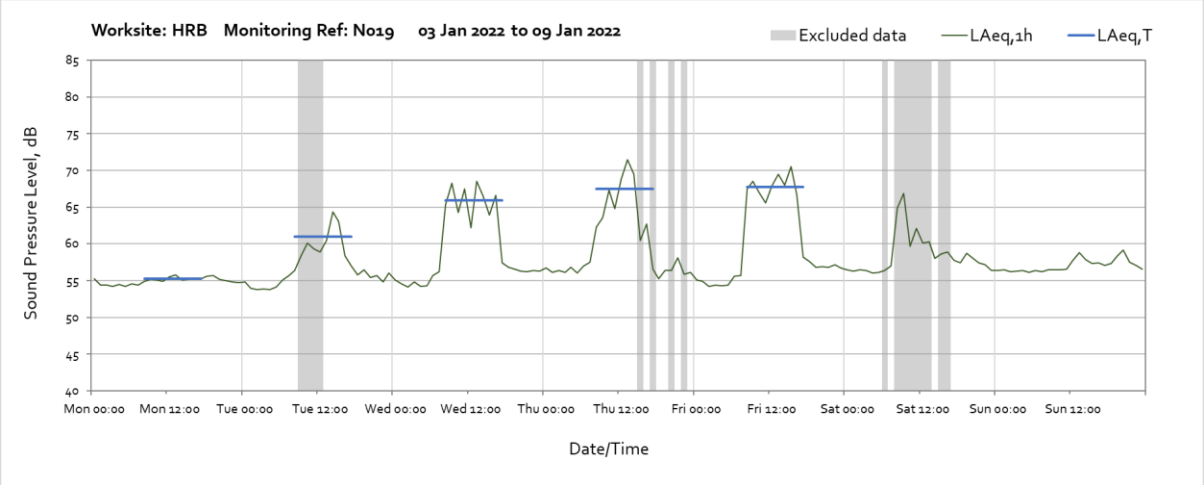
Sun 12:00
Date/Time





Worksite: NTH-EN – Monitoring Ref: N019




Worksite: HRB Monitoring Ref: No19 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
Mon 12:00
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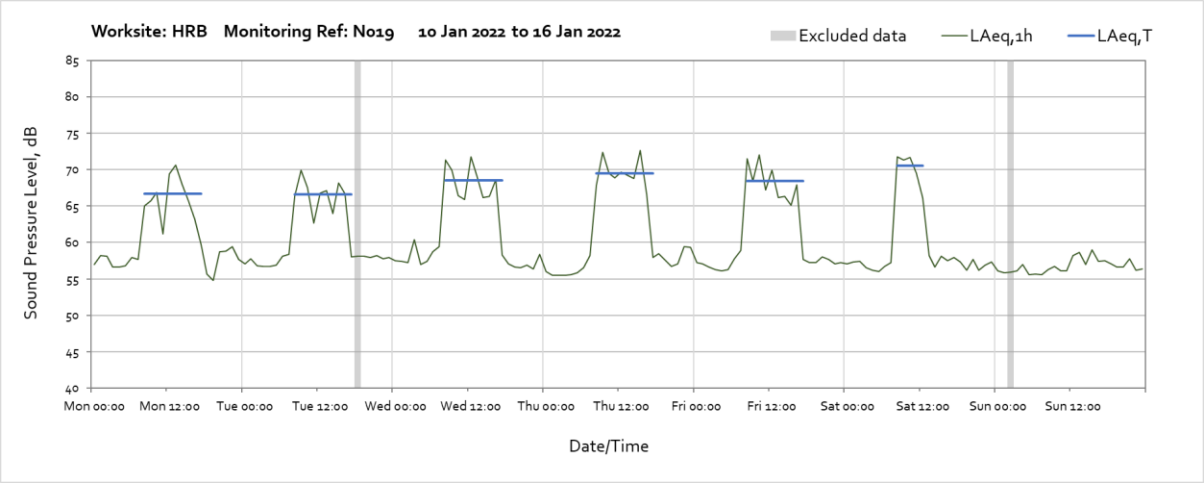
Date/Time


Worksite: HRB Monitoring Ref: No19 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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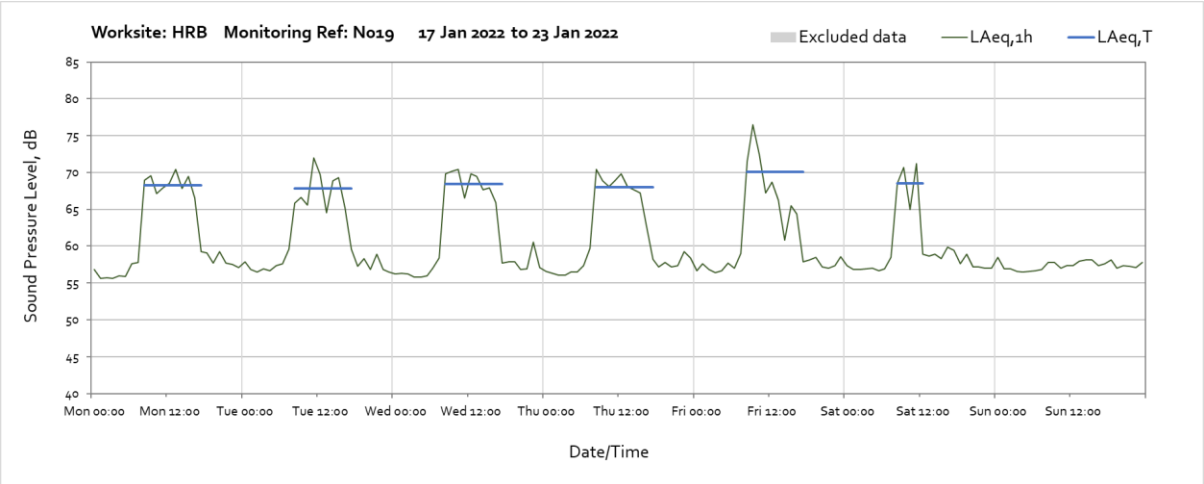
Date/Time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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
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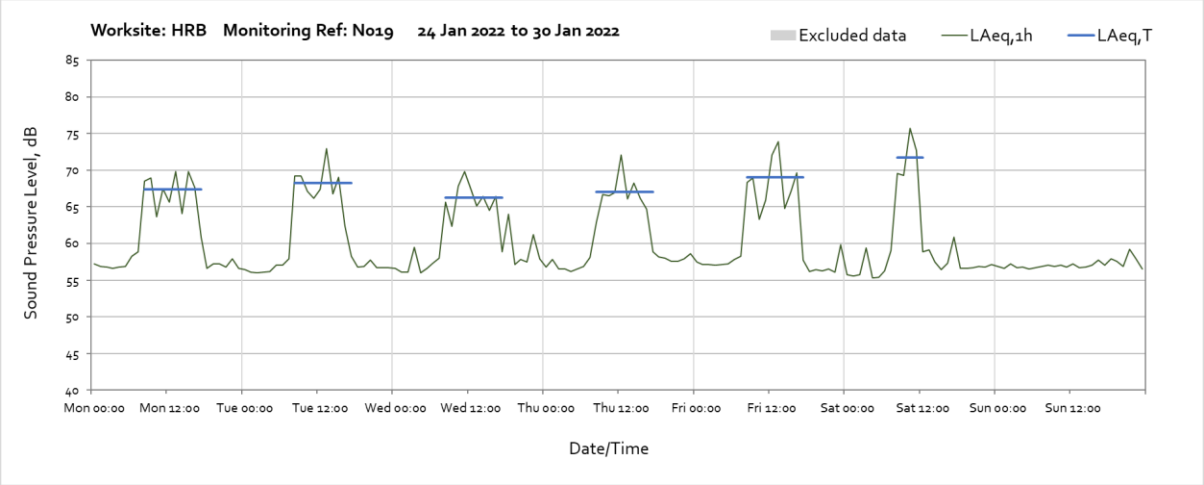
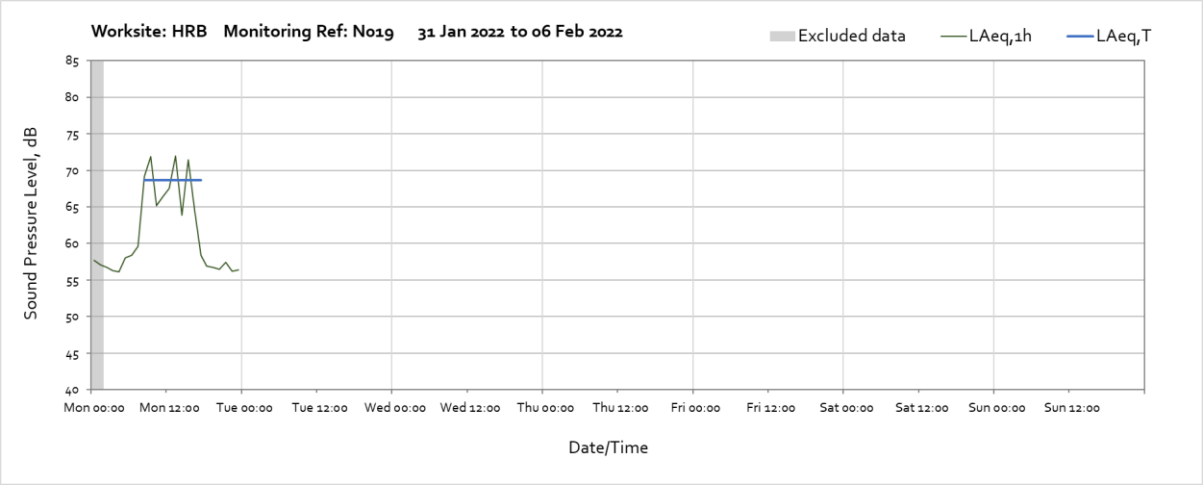
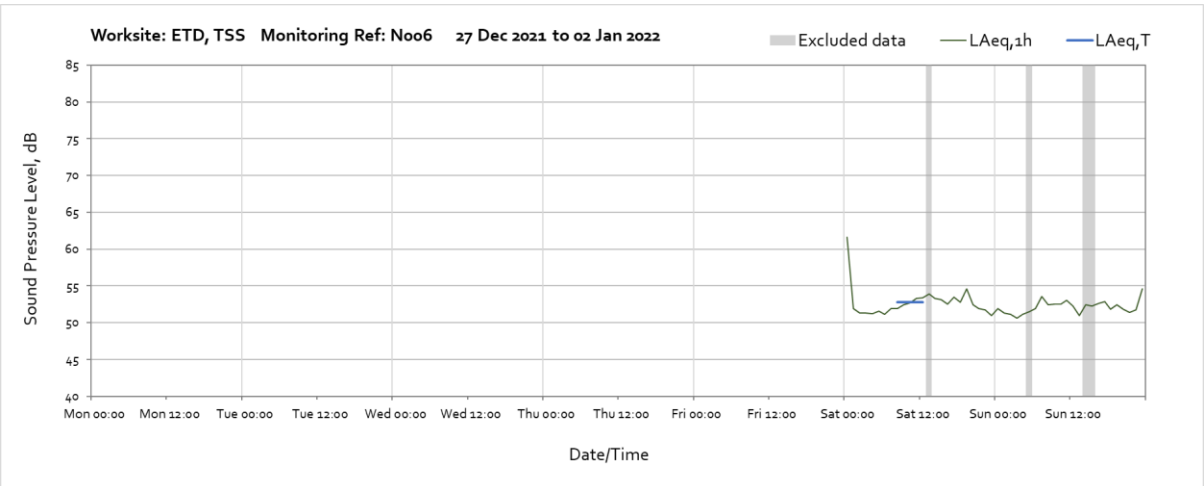
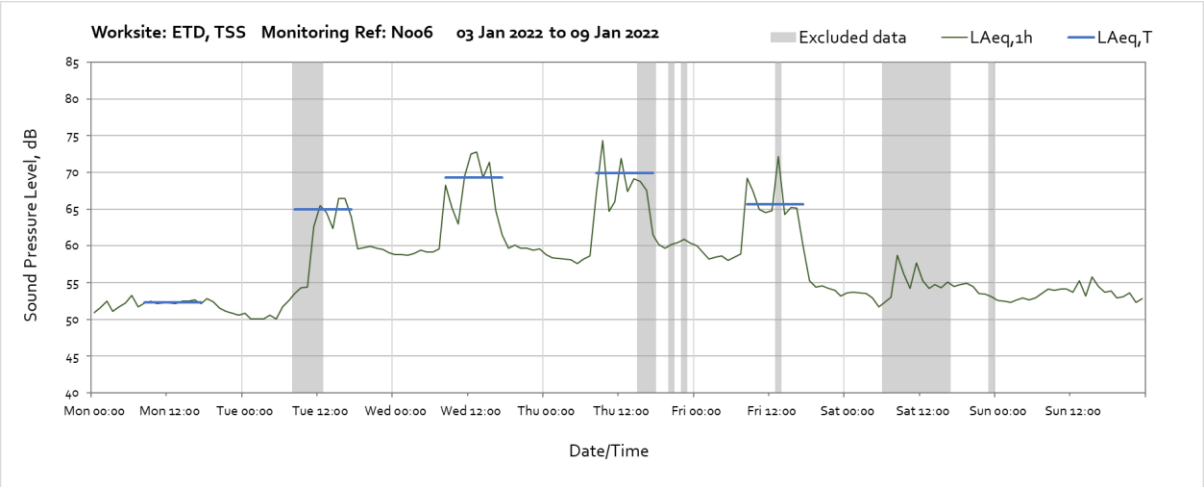
Date/Time





Worksite: ETD, TSS – Monitoring Ref: N006




Worksite: ETD, TSS Monitoring Ref: No06 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
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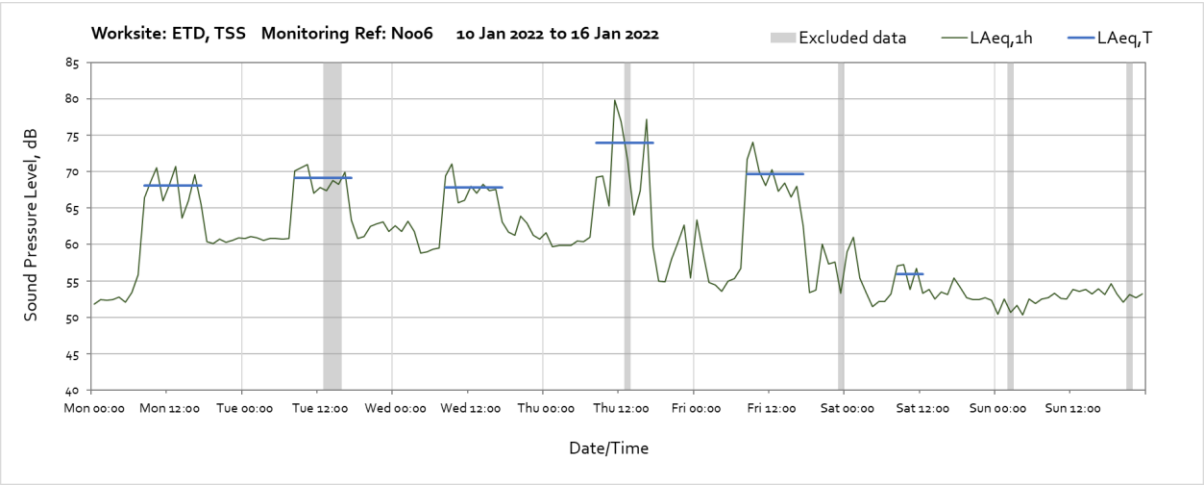
Date/Time


Worksite: ETD, TSS Monitoring Ref: No06 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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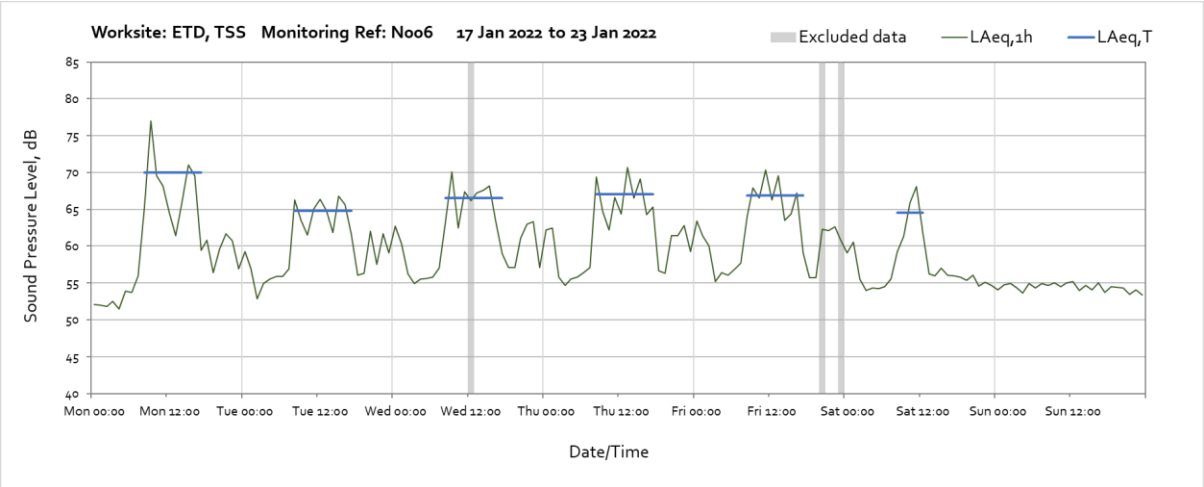
Date/Time


Worksite: ETD, TSS Monitoring Ref: No06 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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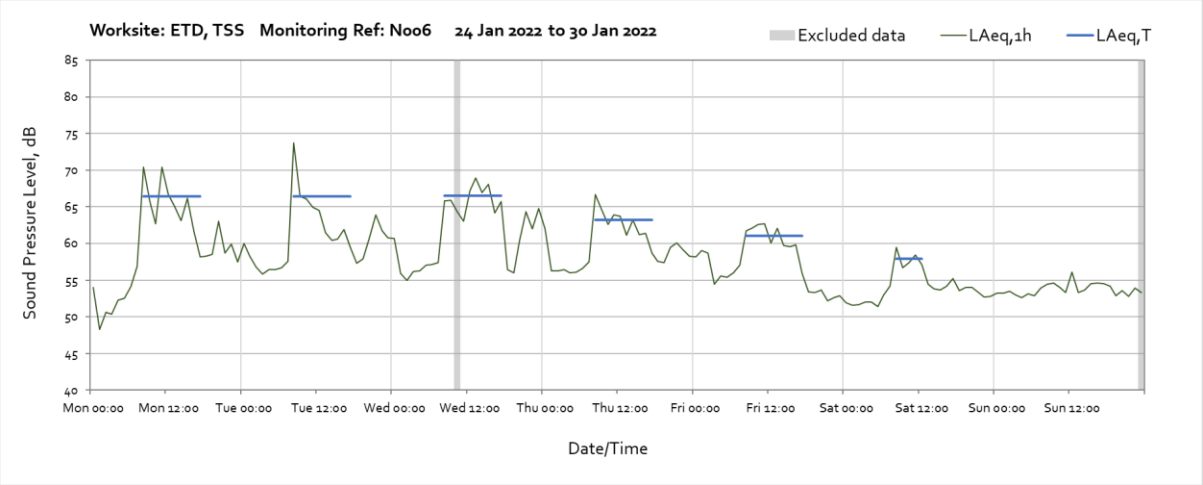
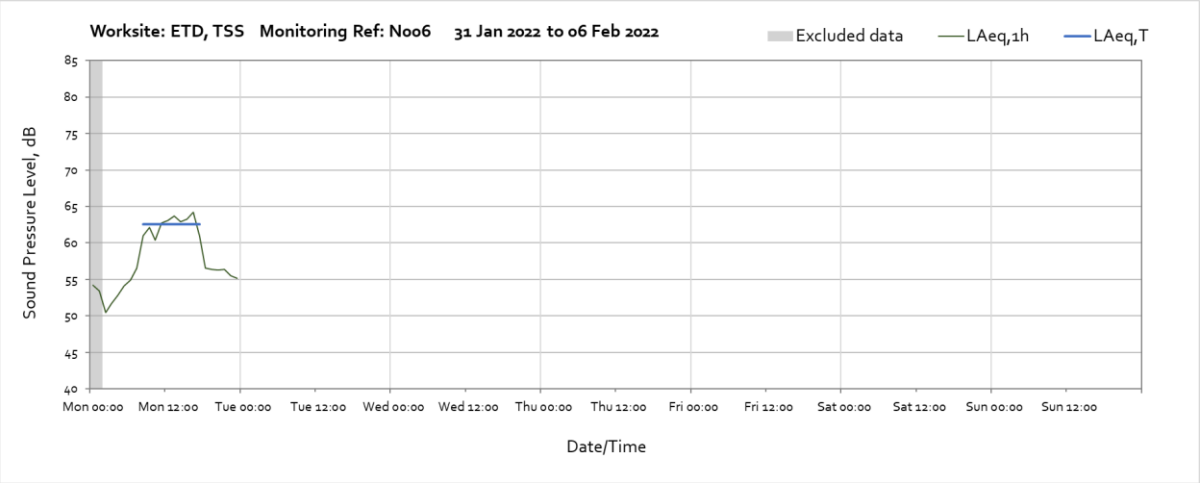
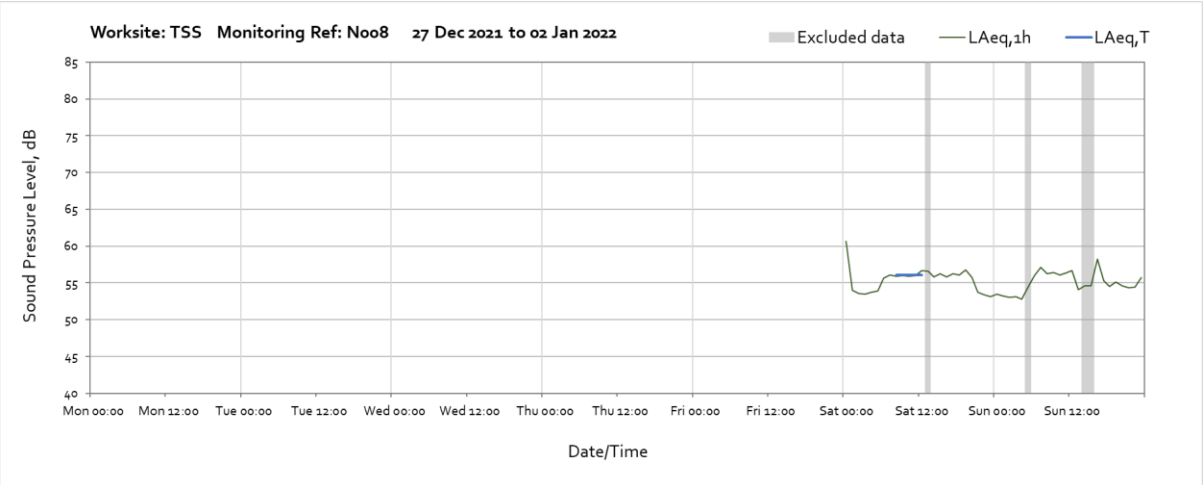
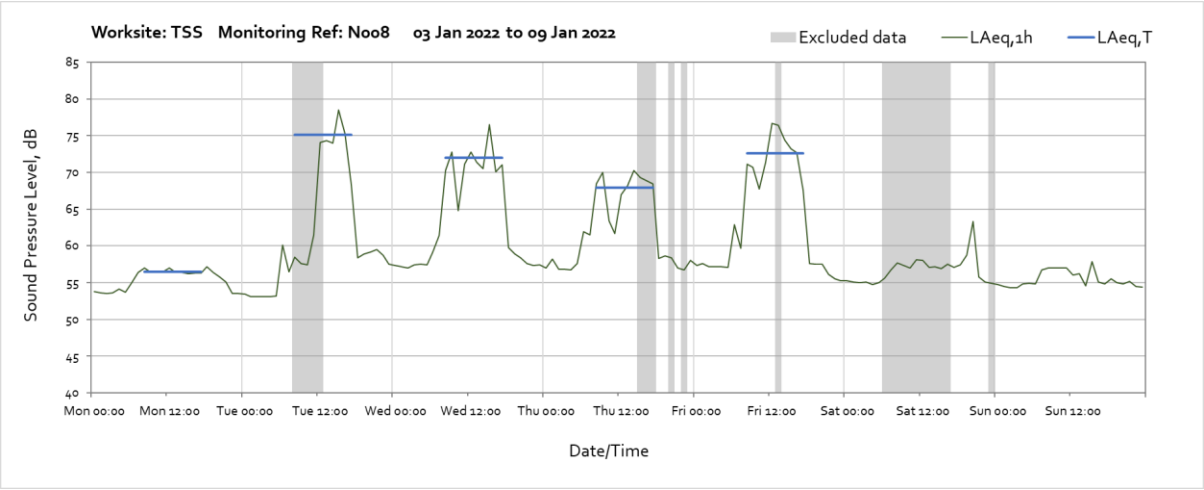




Worksite: TSS – Monitoring Ref: N008




Worksite: TSS Monitoring Ref: No08 03 Jan 2022 to 09 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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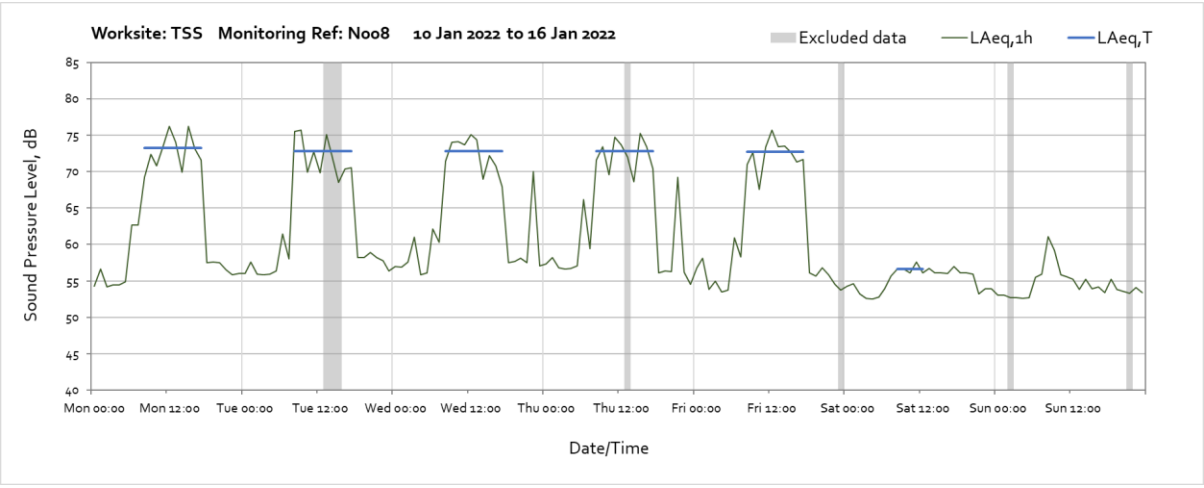
Date/Time


Worksite: TSS Monitoring Ref: No08 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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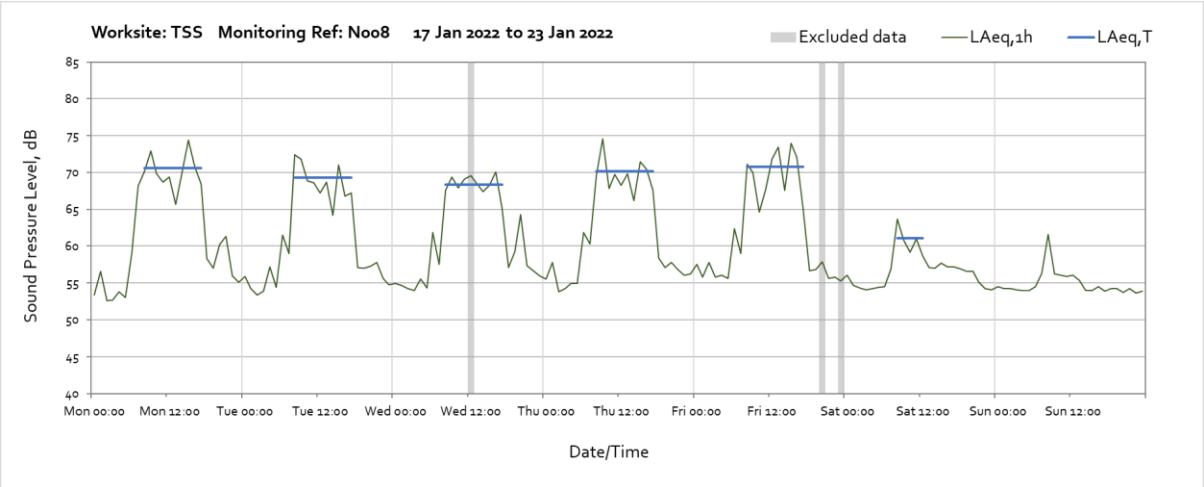
Date/Time


Worksite: TSS Monitoring Ref: No08 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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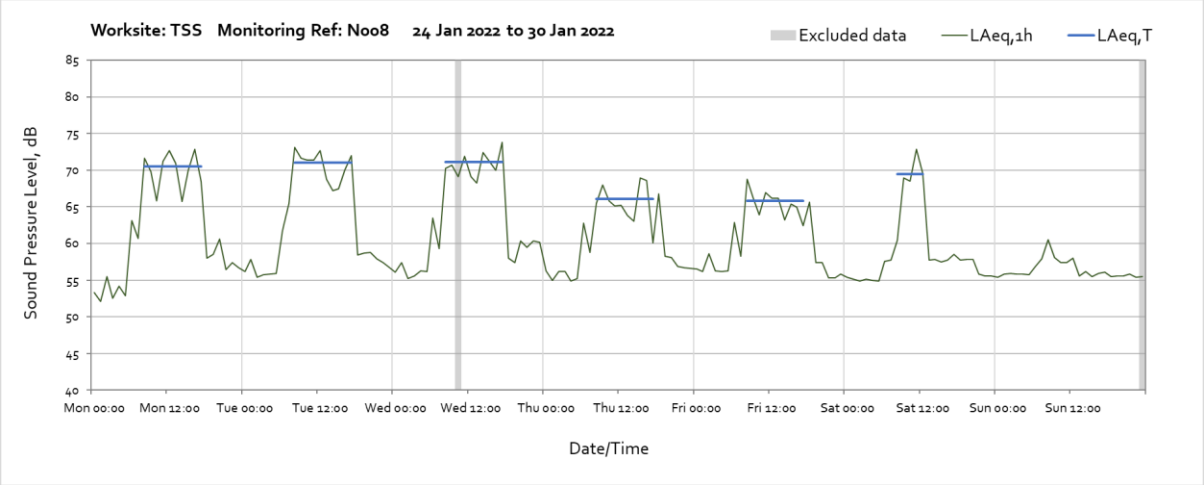
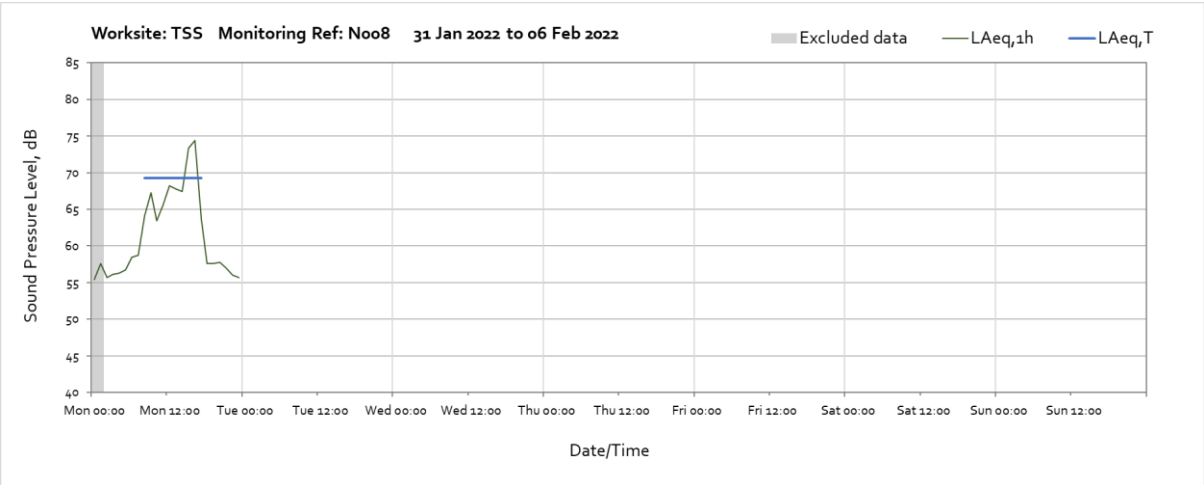
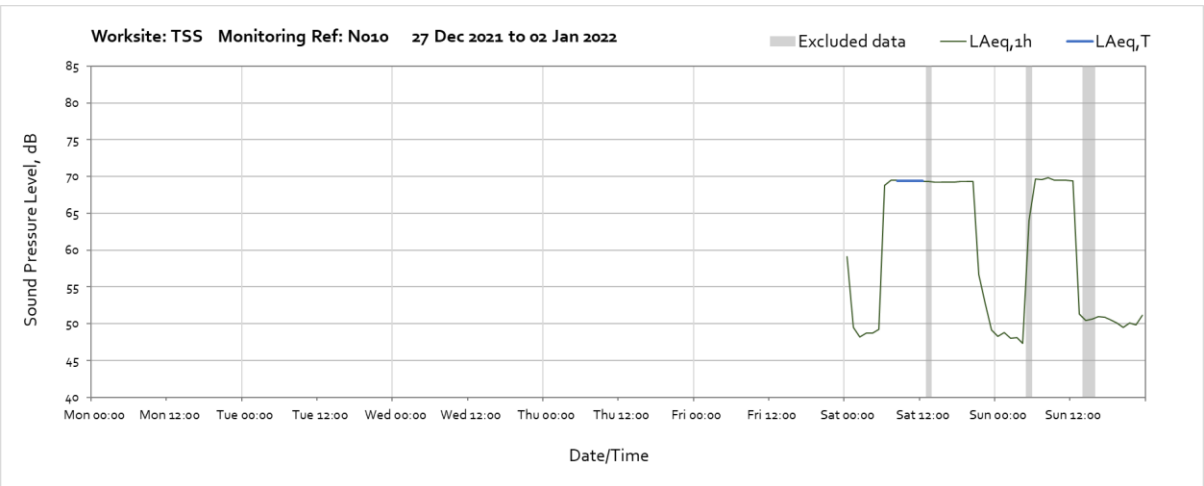
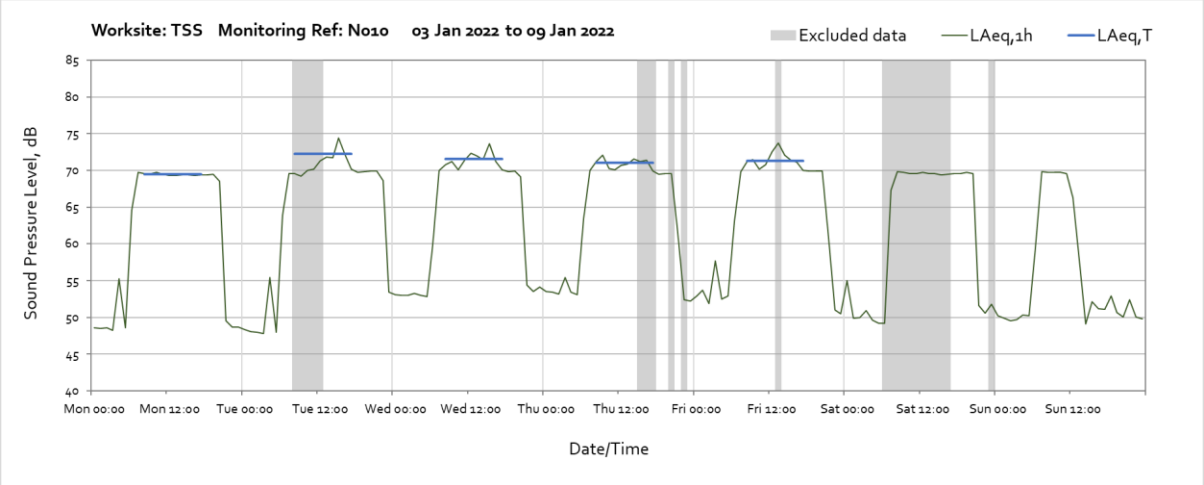
Date/Time





Worksite: TSS – Monitoring Ref: N010




Worksite: TSS Monitoring Ref: No10 03 Jan 2022 to 09 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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Mon 00:00
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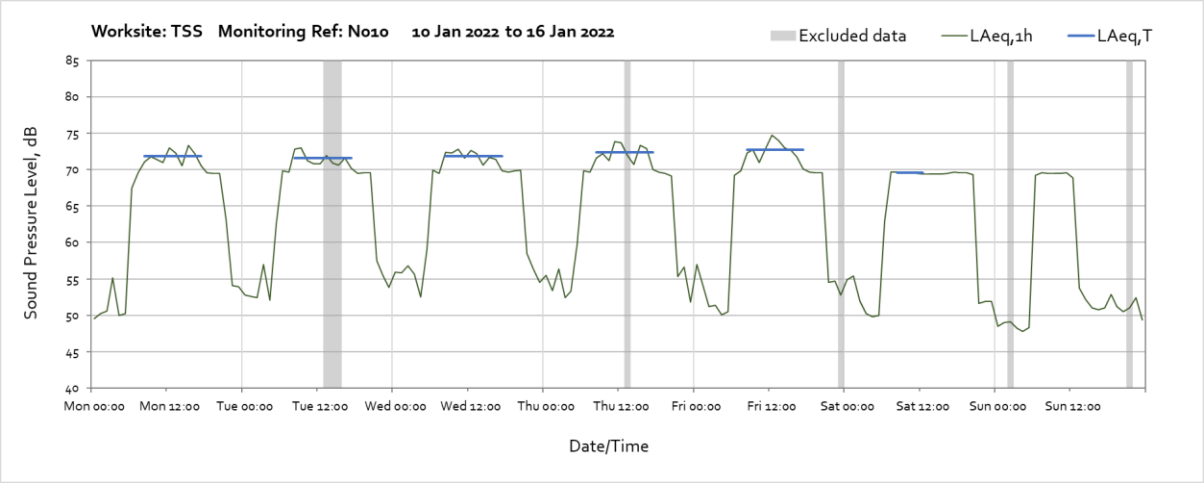
Date/Time


Worksite: TSS Monitoring Ref: No10 10 Jan 2022 to 16 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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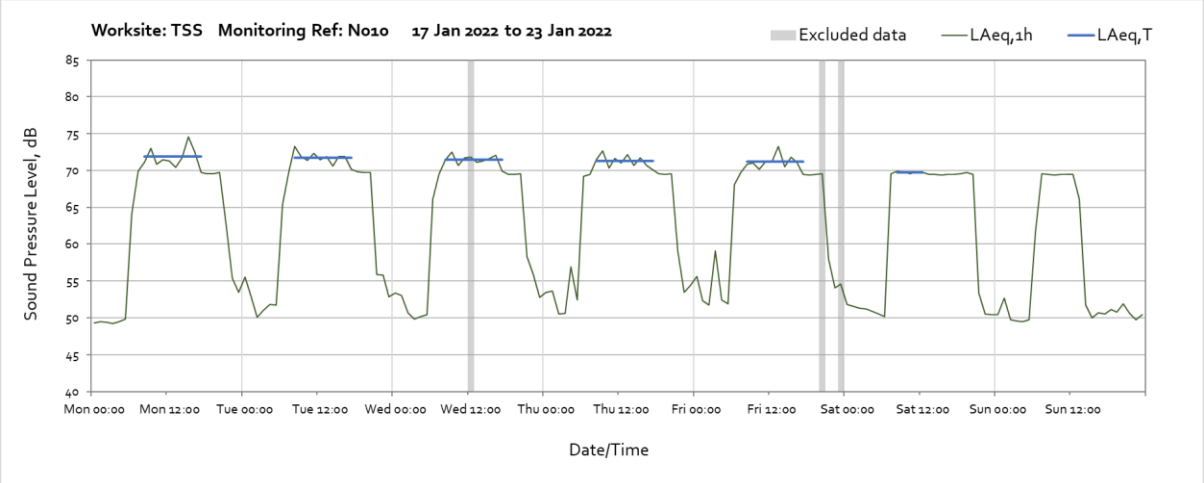
Date/Time


Worksite: TSS Monitoring Ref: No10 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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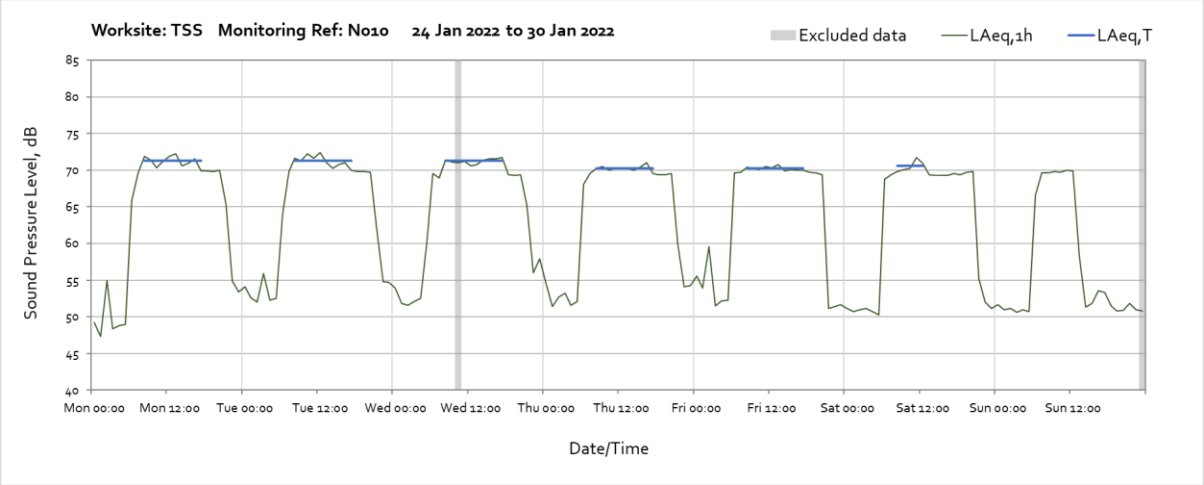
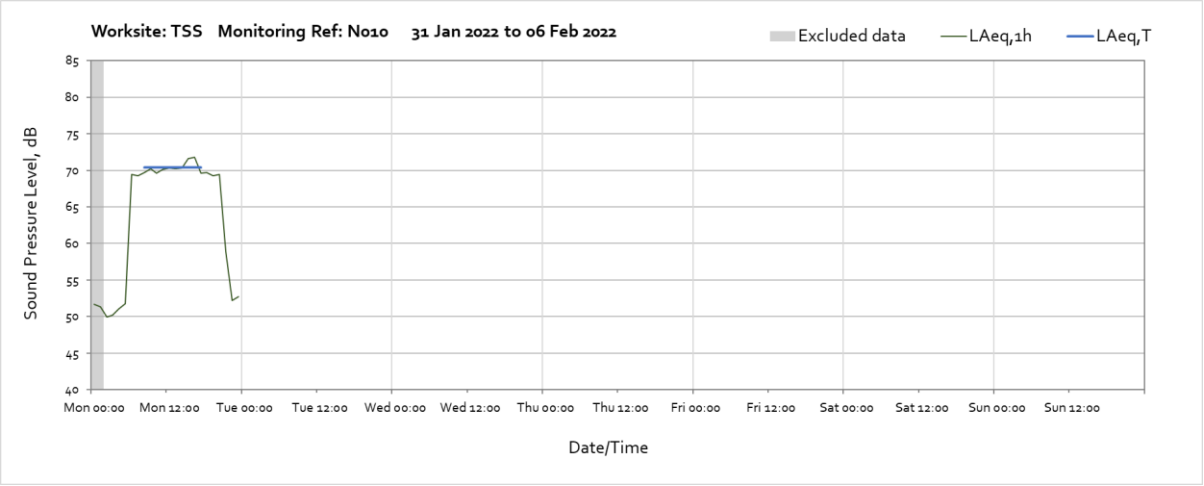
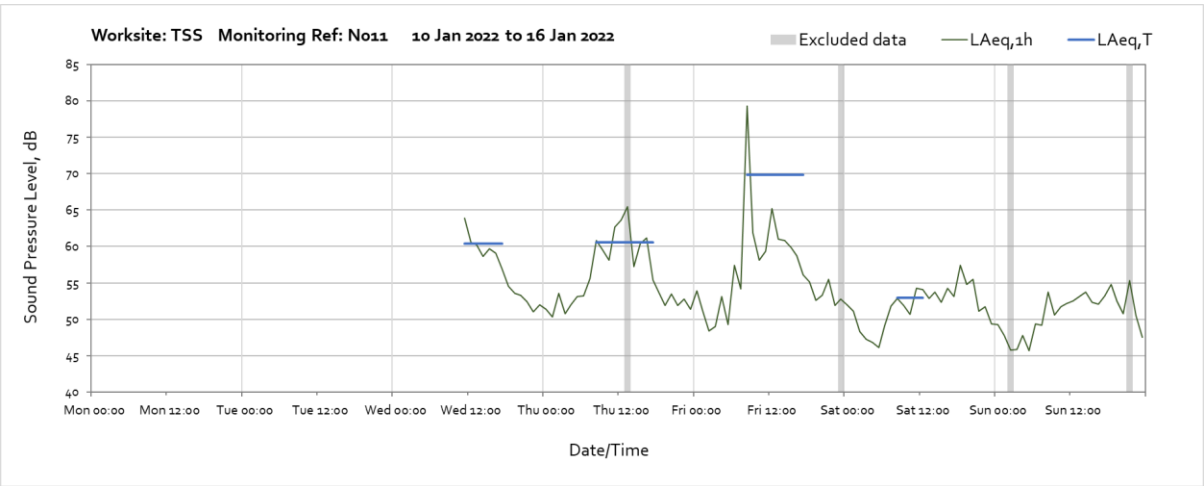
Date/Time

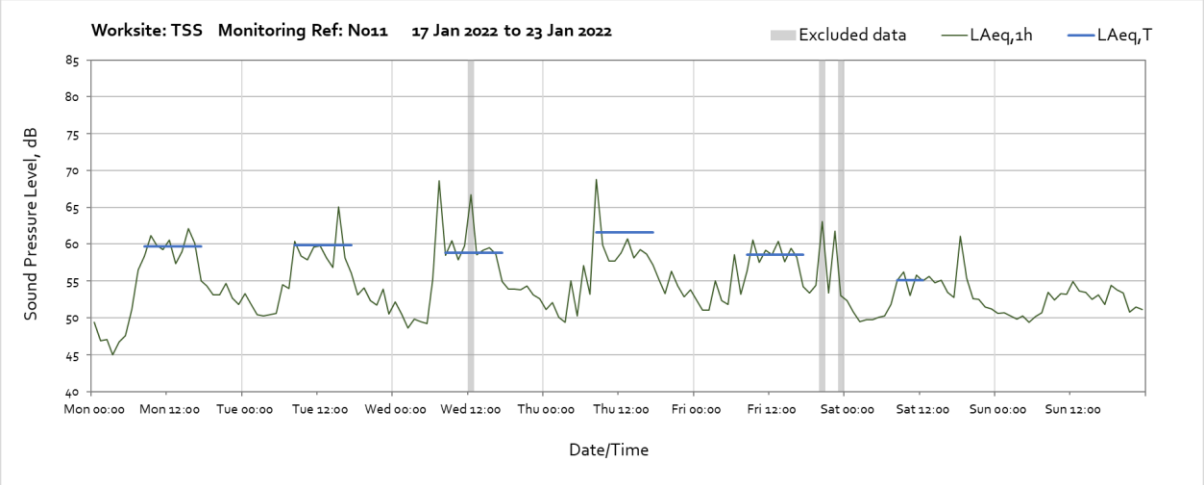




Worksite: TSS – Monitoring Ref: N011



Note: Missing data from the start of the month until 11:00 on Wednesday 12th January was due to a monitoring station storage fault.


Worksite: TSS Monitoring Ref: No11 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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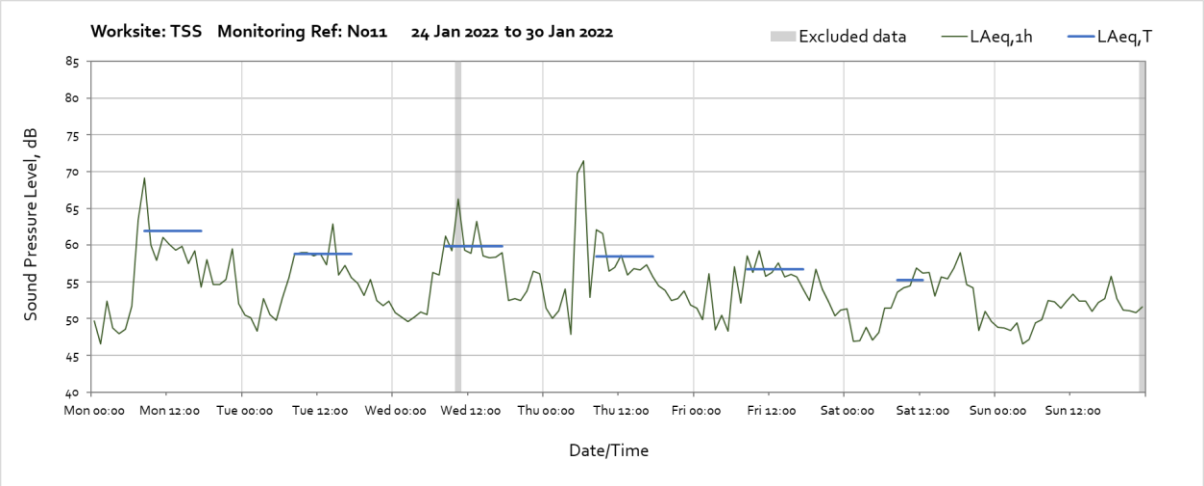
Date/Time


Worksite: TSS Monitoring Ref: No11 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
Mon 12:00
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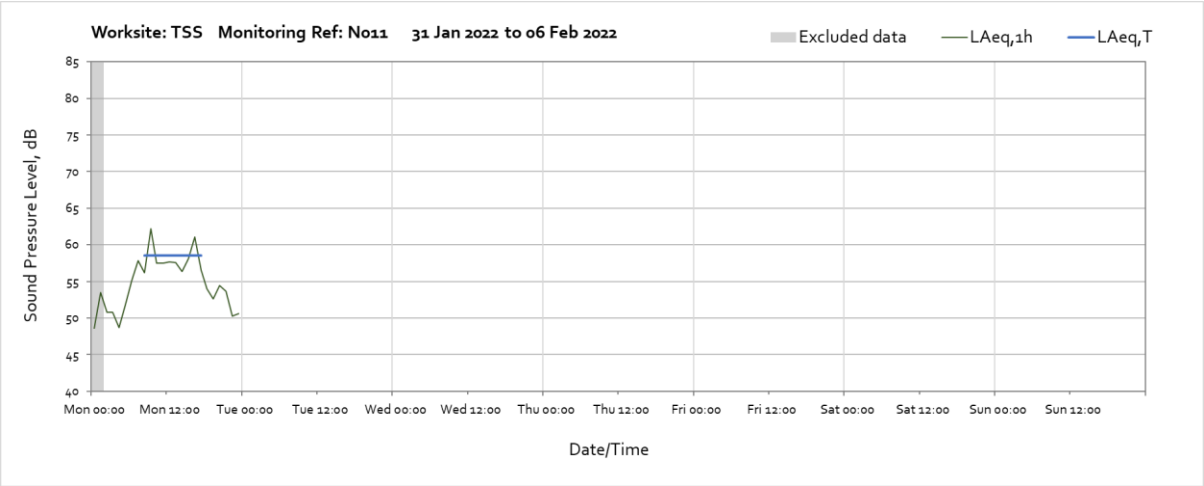
Date/Time


Worksite: TSS Monitoring Ref: No11 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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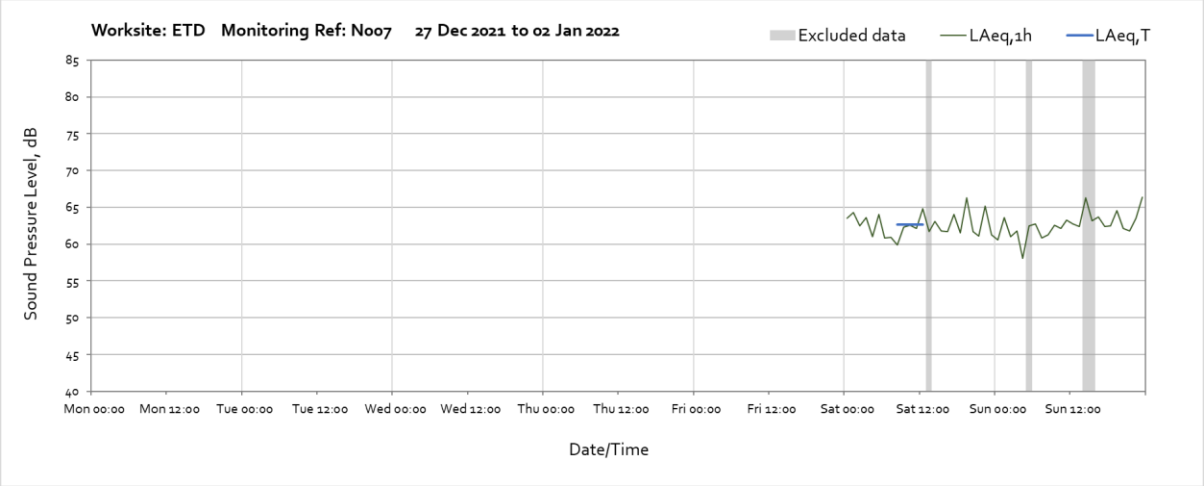
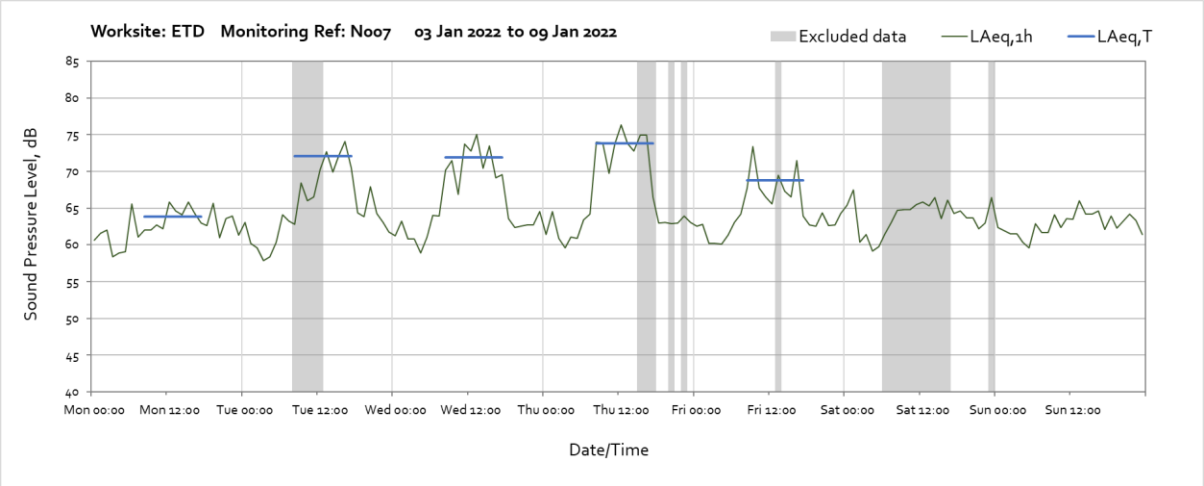
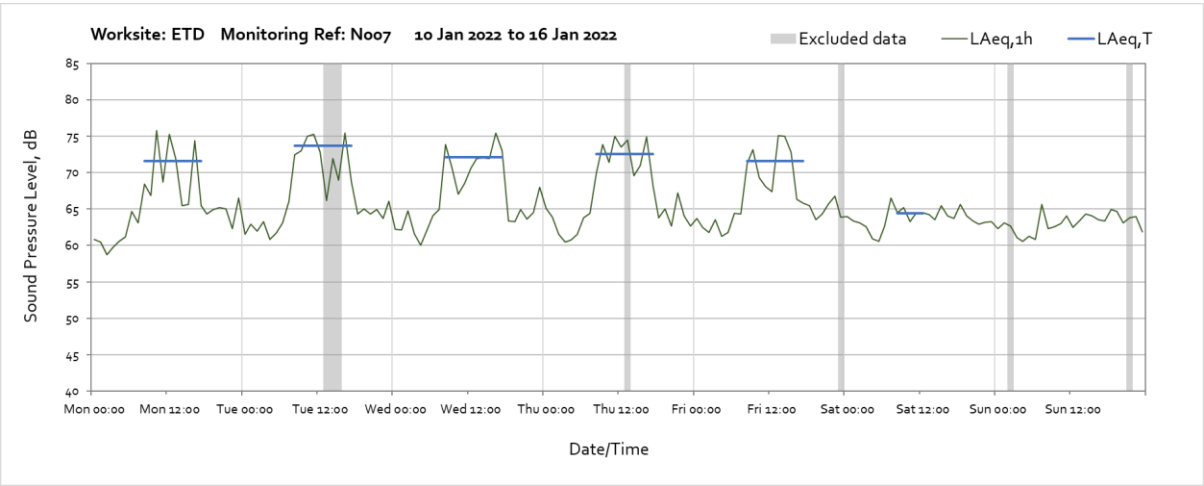
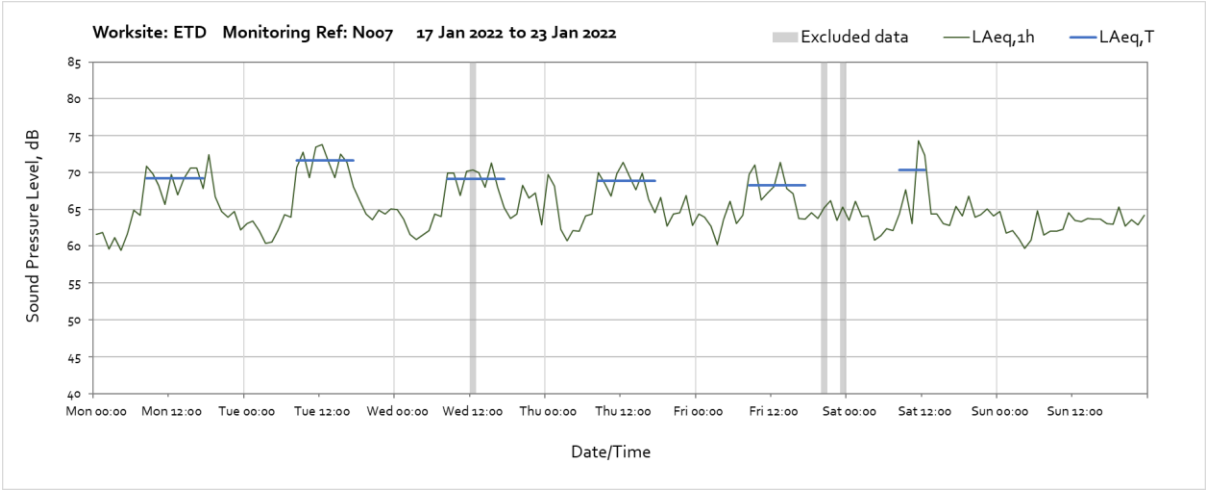
Date/Time

Worksite: ETD – Monitoring Ref: N007








Worksite: ETD Monitoring Ref: N007 17 Jan 2022 to 23 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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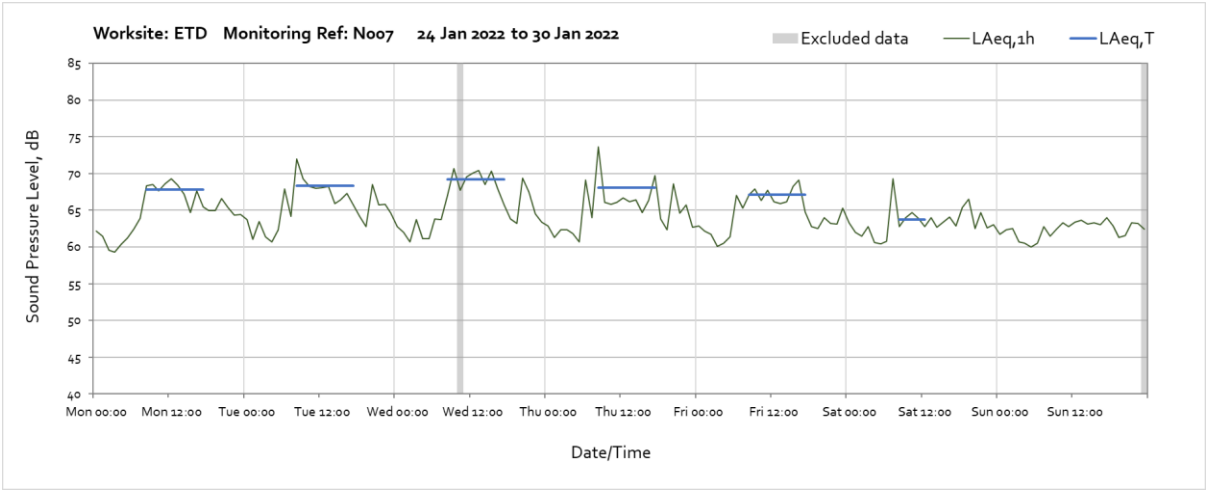
Date/Time


Worksite: ETD Monitoring Ref: N007 24 Jan 2022 to 30 Jan 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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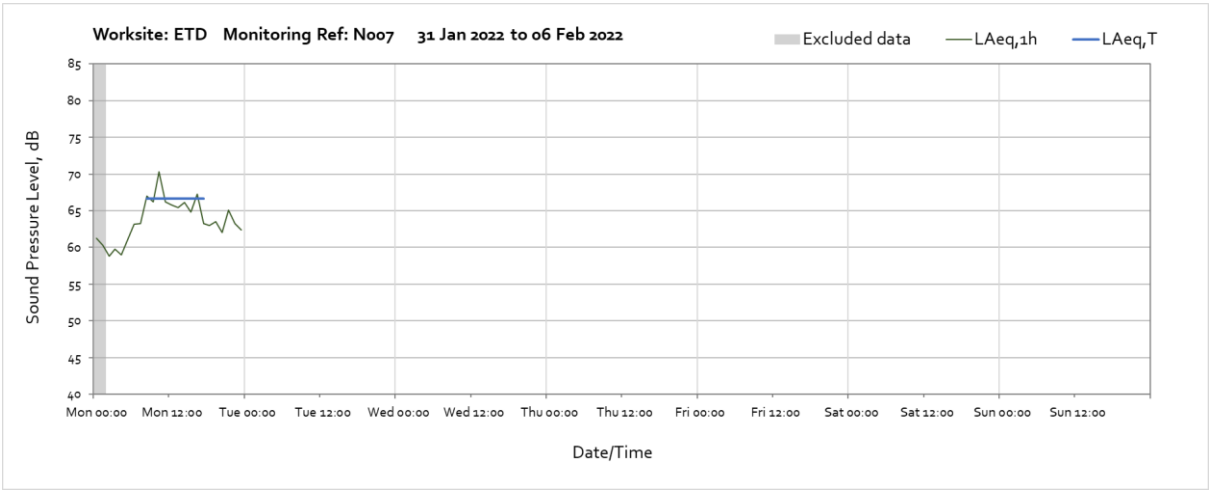
Date/Time


Worksite: ETD Monitoring Ref: N007 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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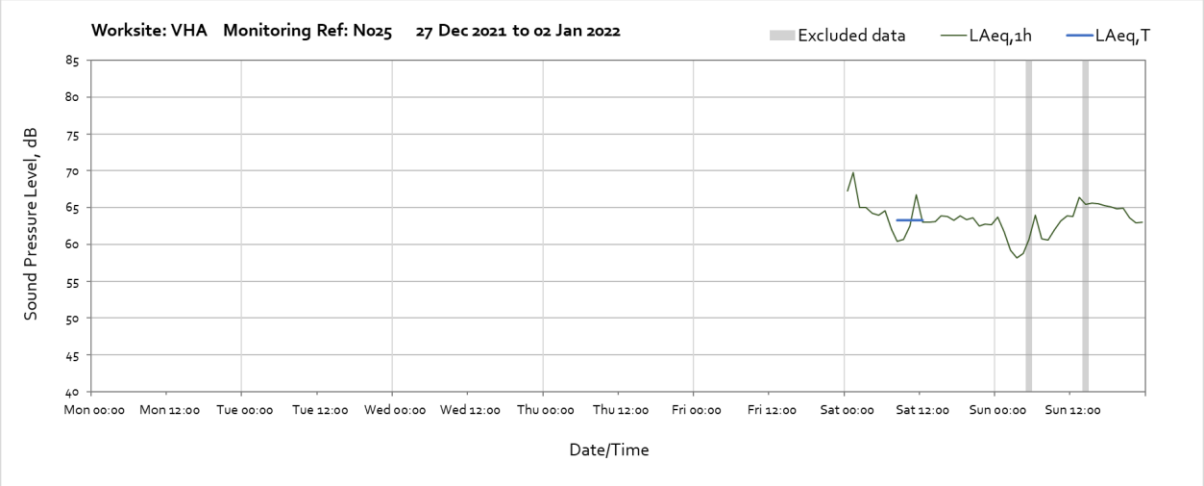
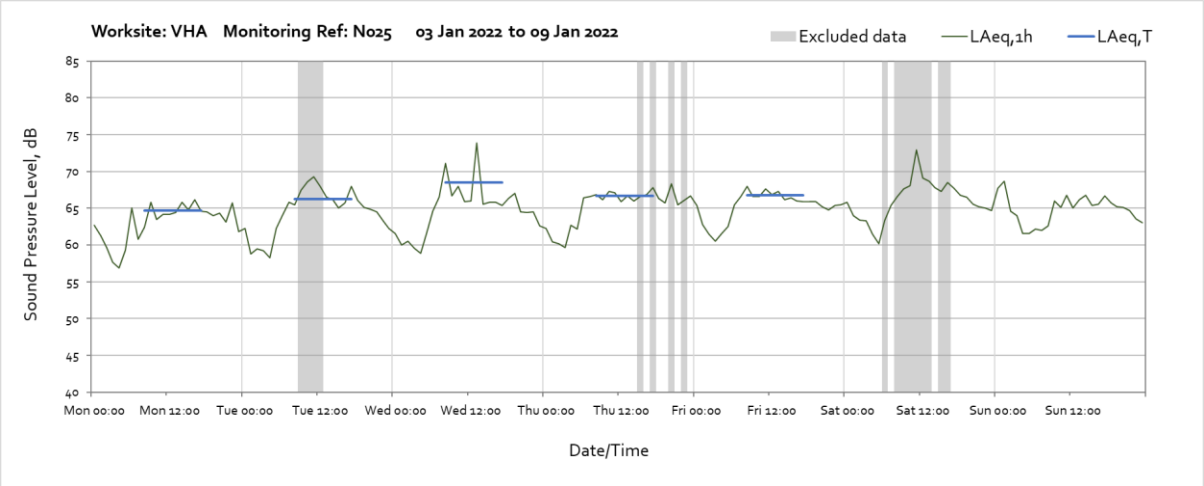
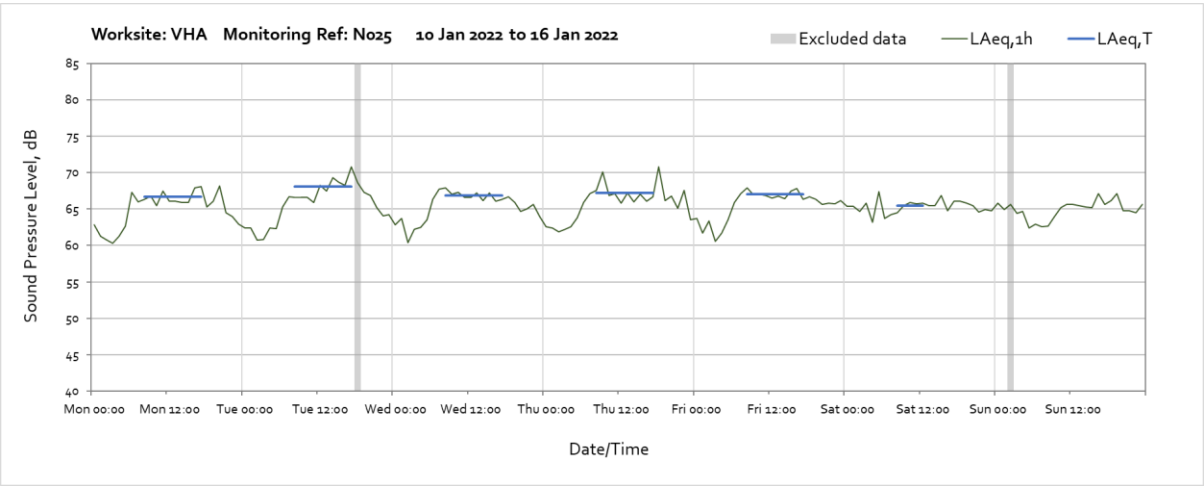
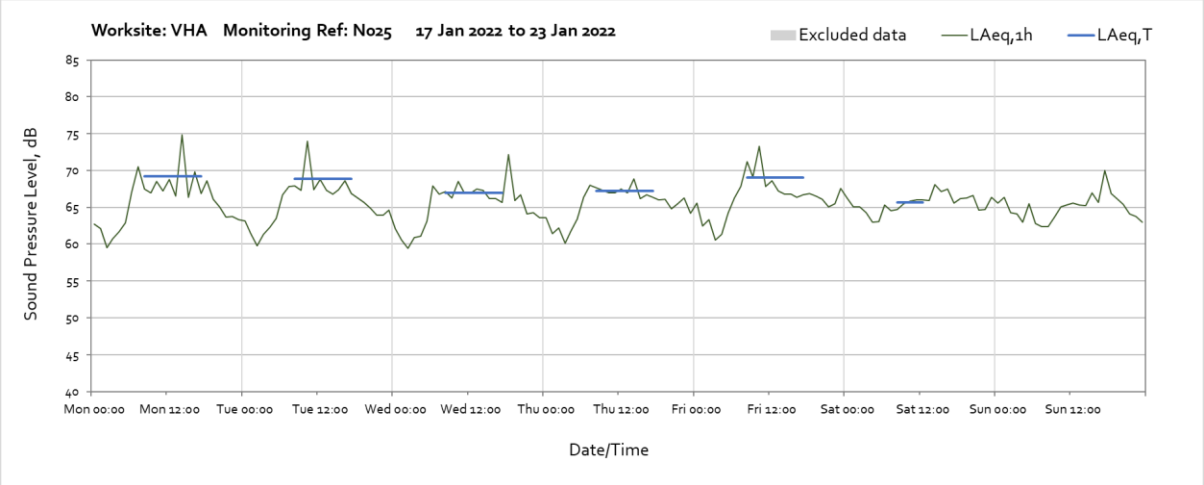
Date/Time

Vehicle Holding Area (VHA) – Monitoring Ref: N025

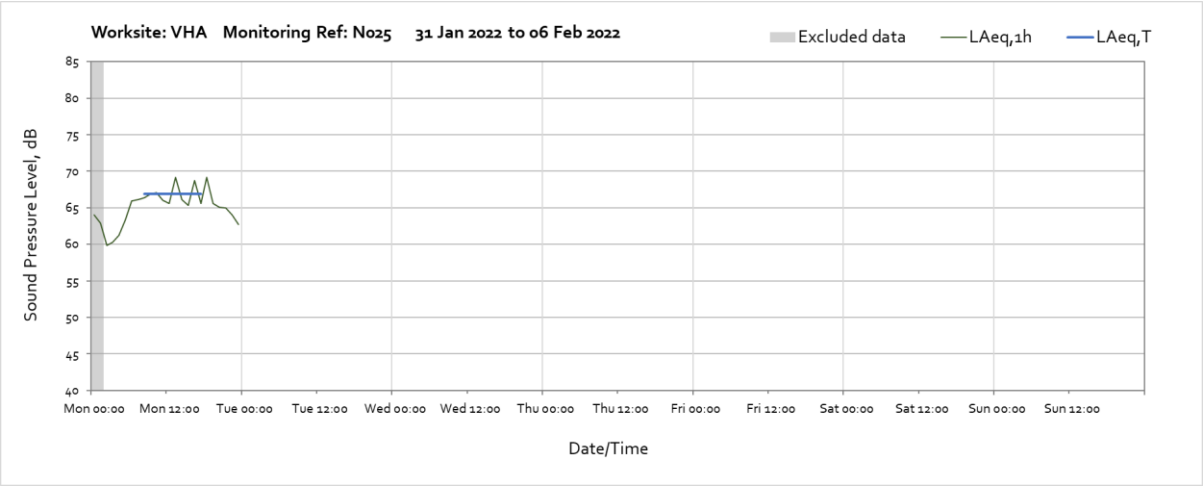




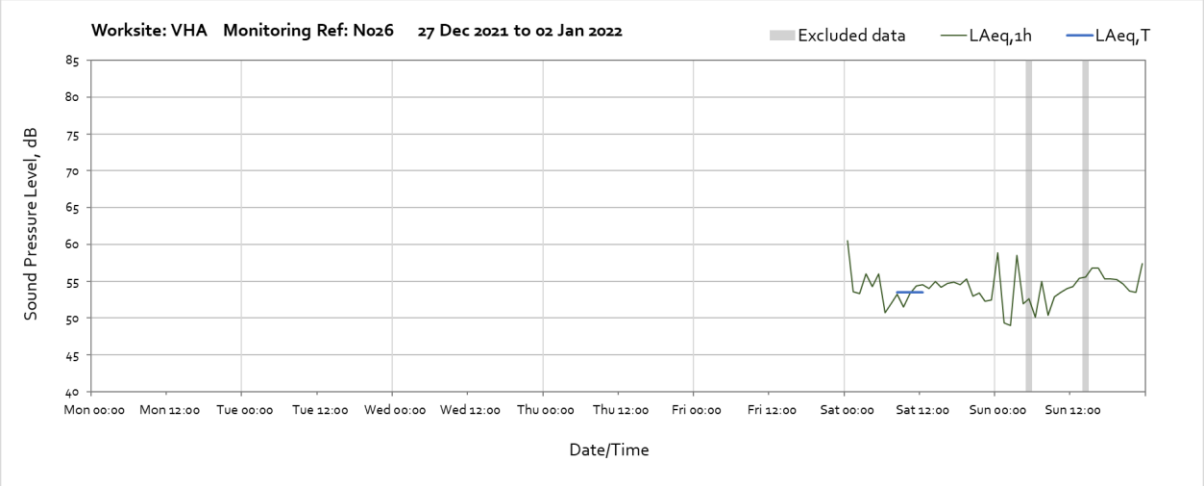


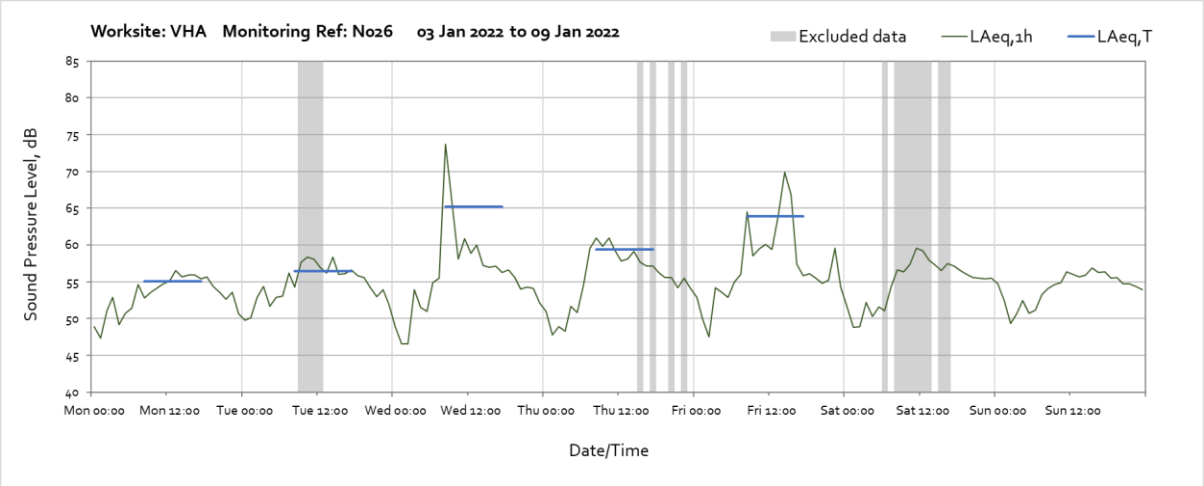

Worksite: VHA Monitoring Ref: No25 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

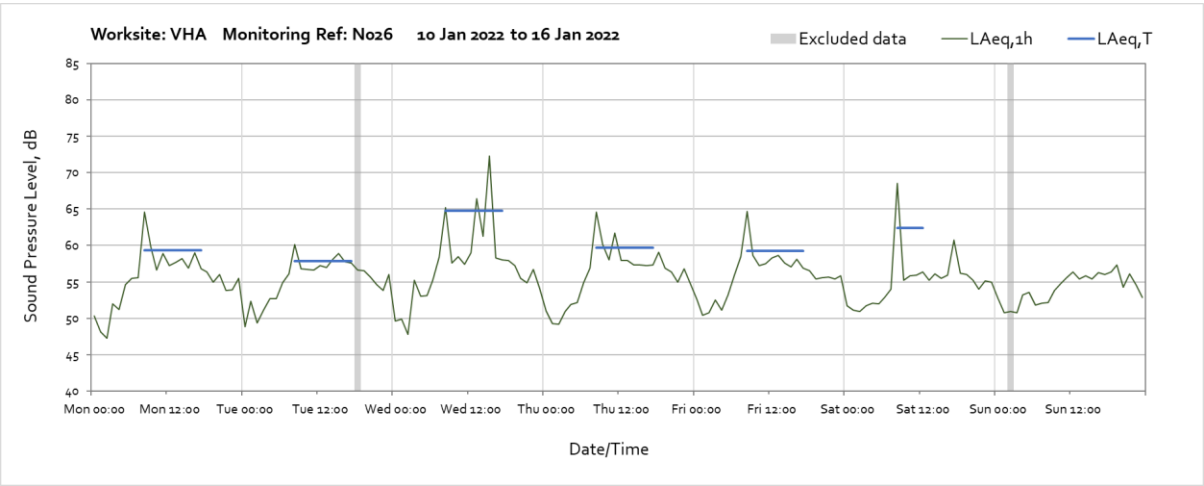

Worksite: VHA Monitoring Ref: No25 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

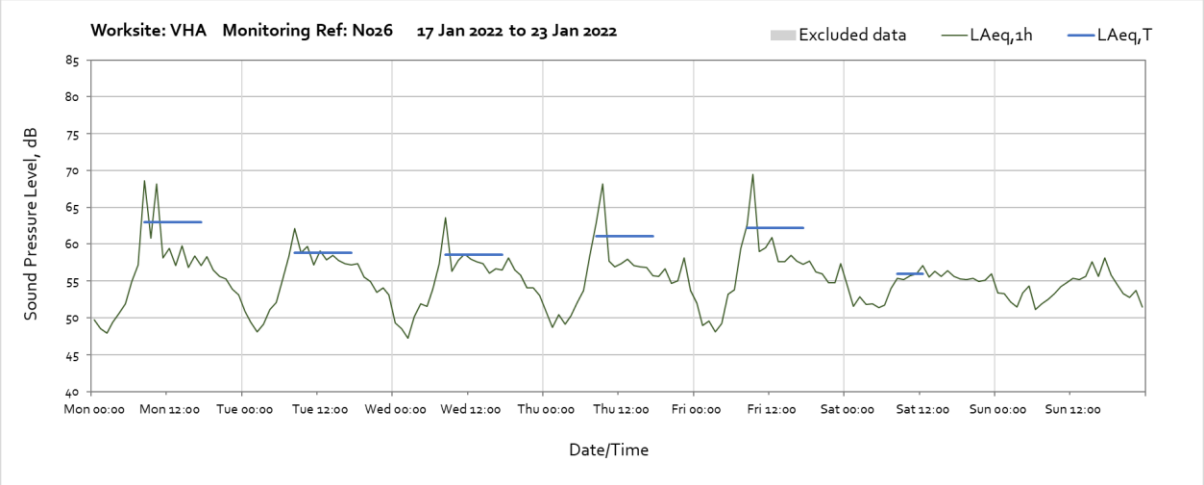

Worksite: VHA Monitoring Ref: No25 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

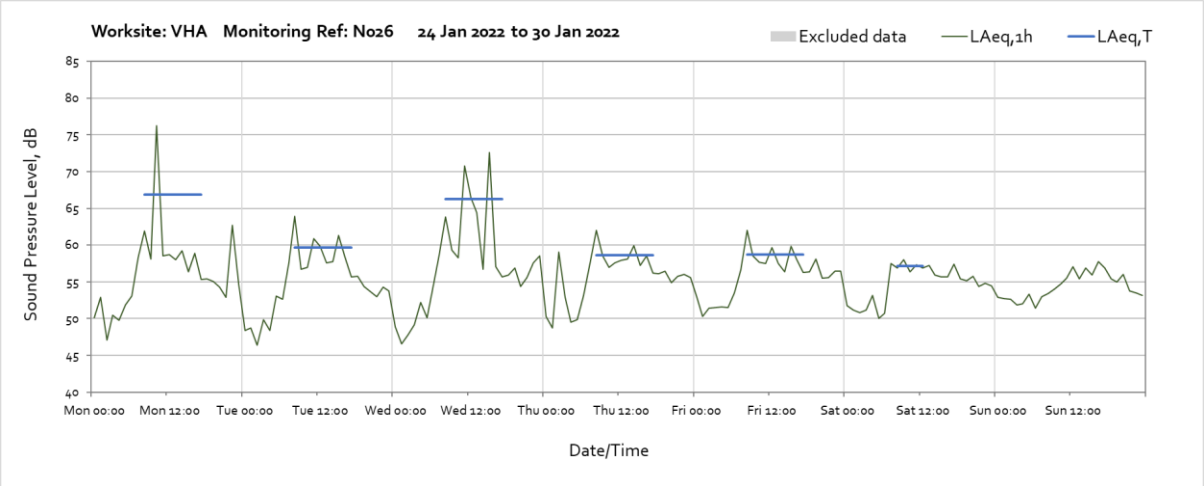
Vehicle Holding Area (VHA) – Monitoring Ref: N026

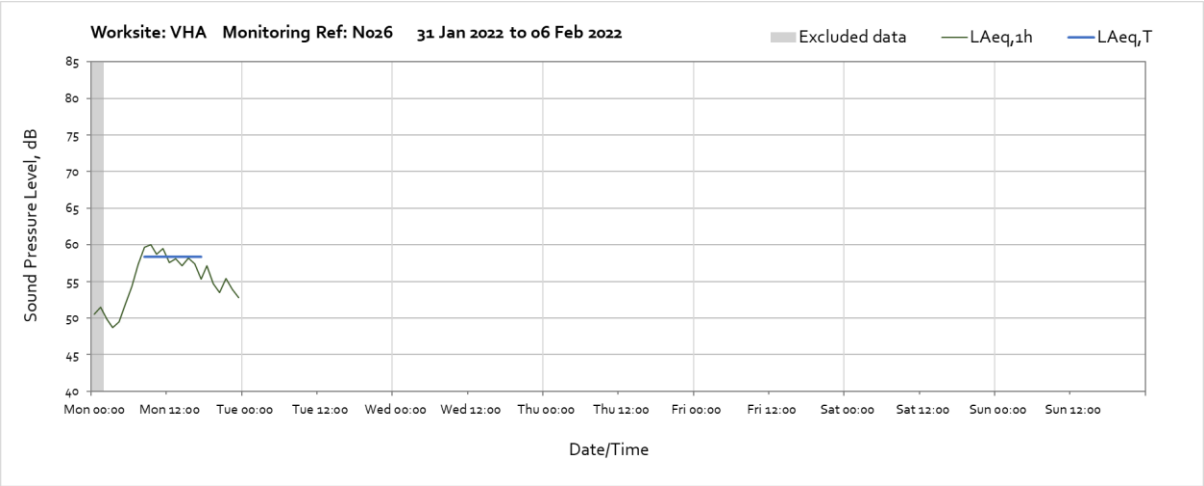




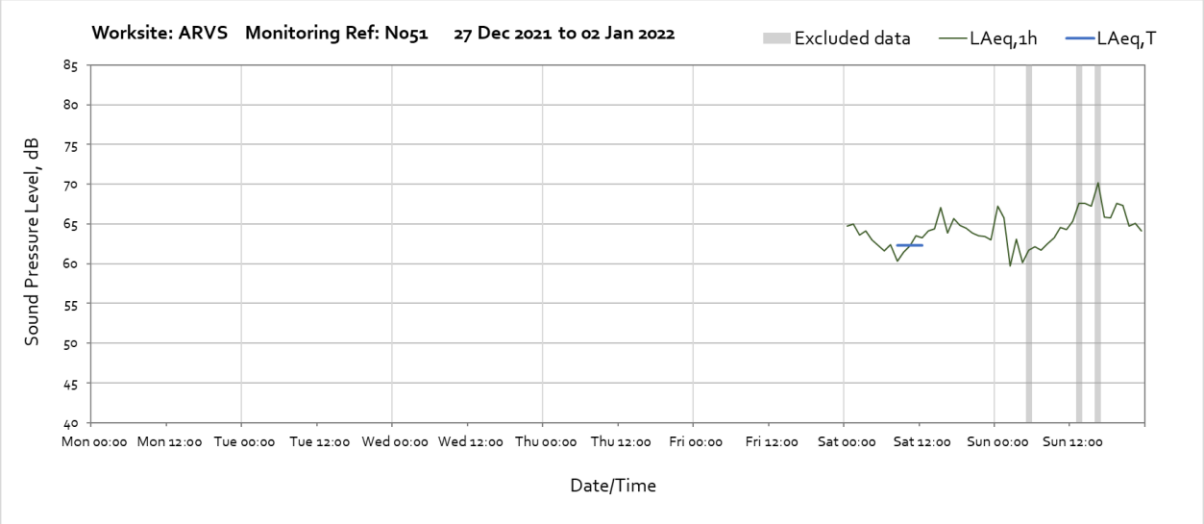


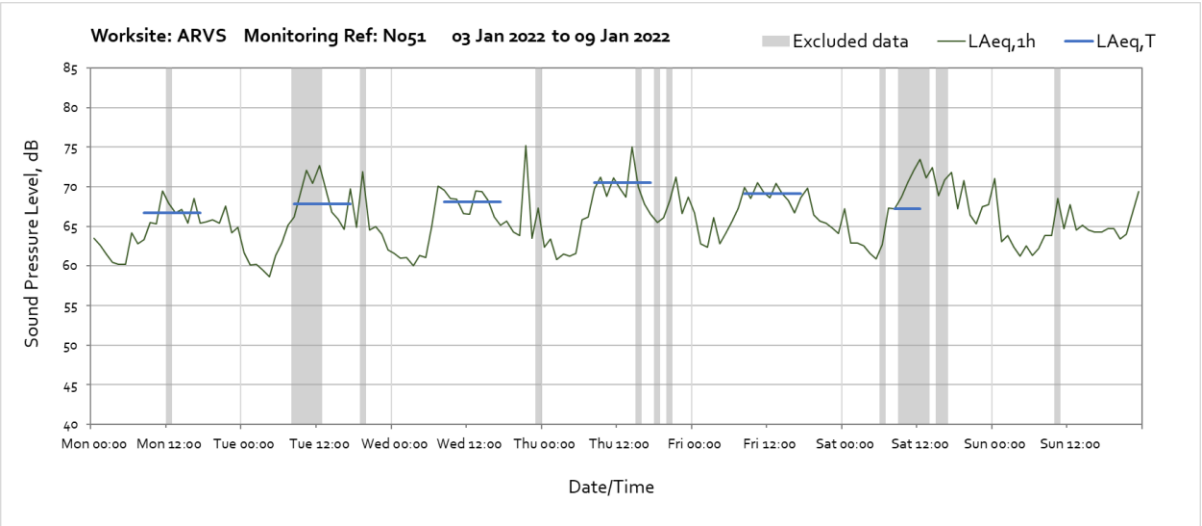

Worksite: VHA Monitoring Ref: No26 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

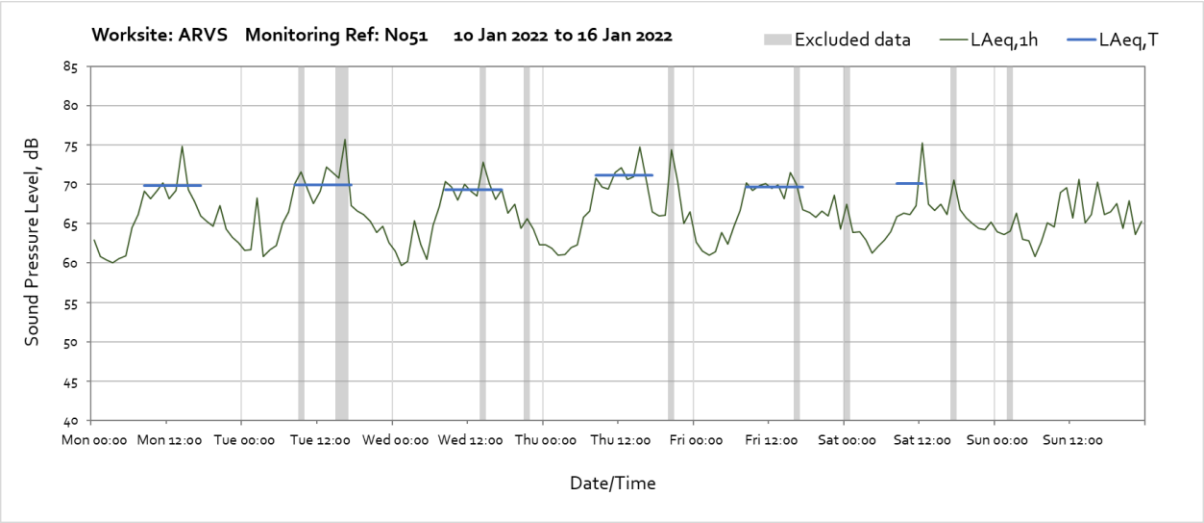

Worksite: VHA Monitoring Ref: No26 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

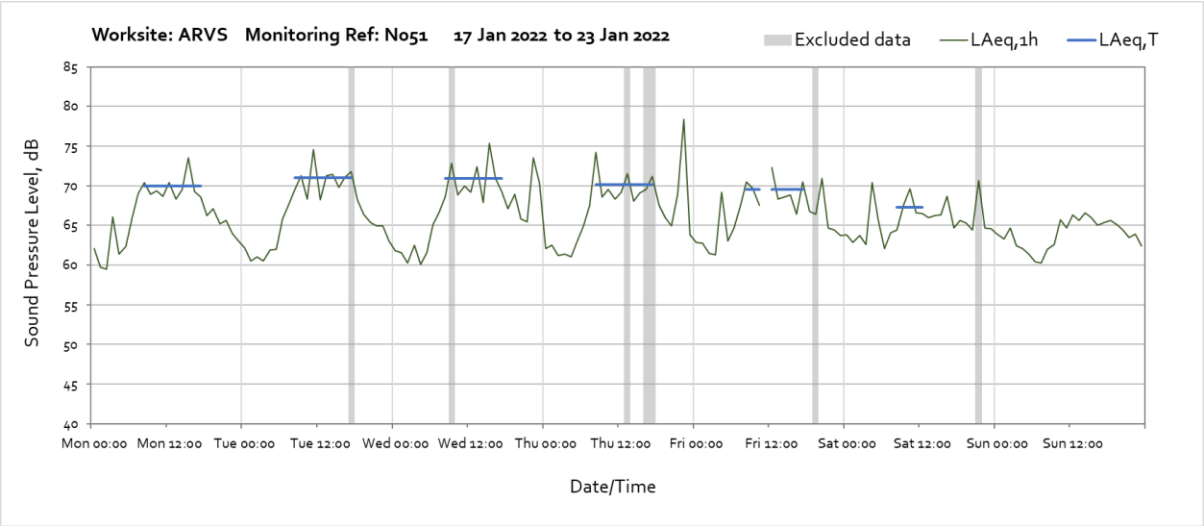

Worksite: VHA Monitoring Ref: No26 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

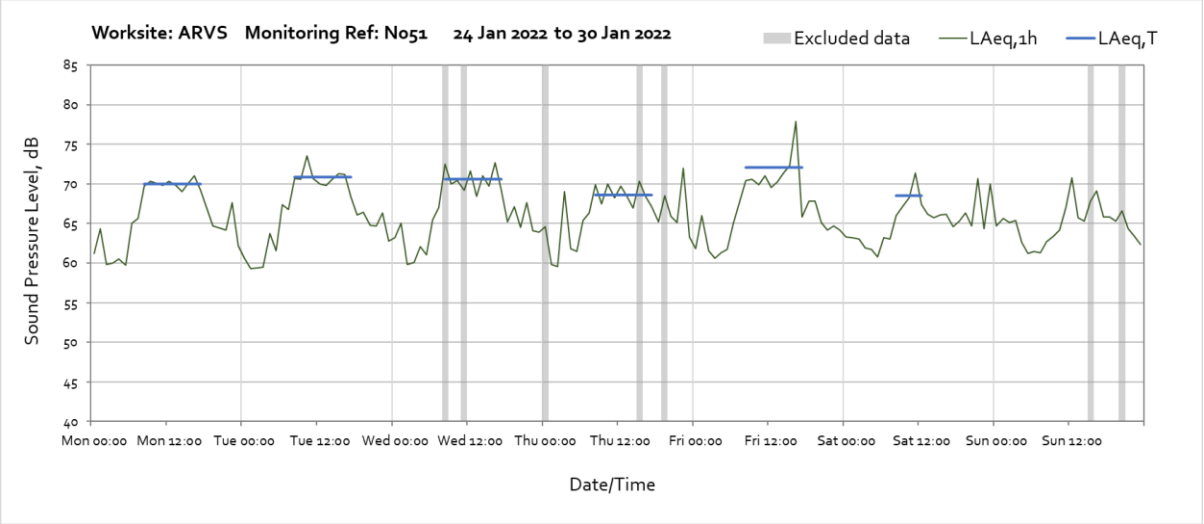
Adelaide Road Ventilation Shaft (ARVS) – Monitoring Ref: N051

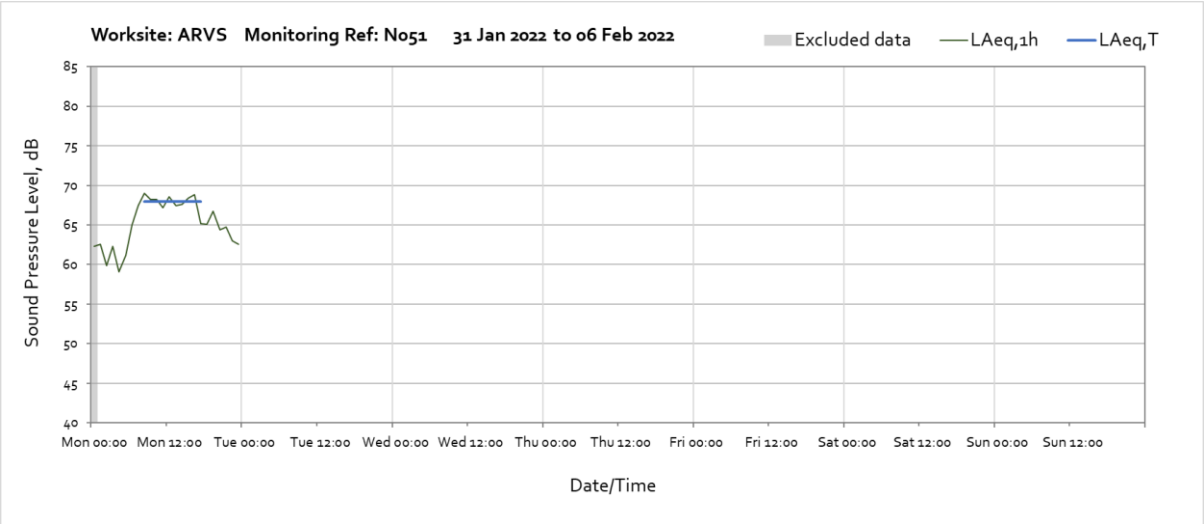




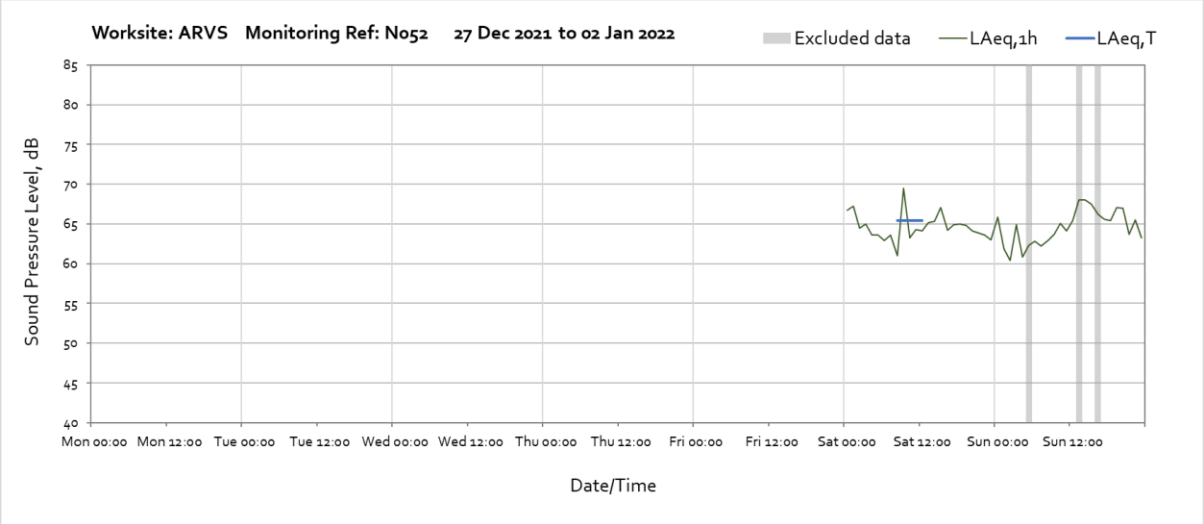


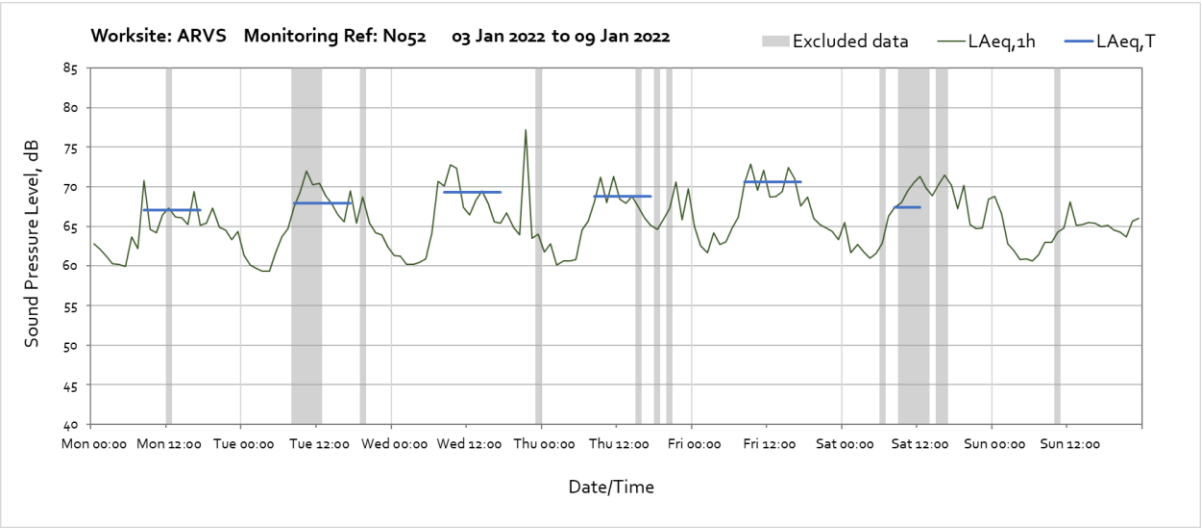

Worksite: ARVS Monitoring Ref: No51 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

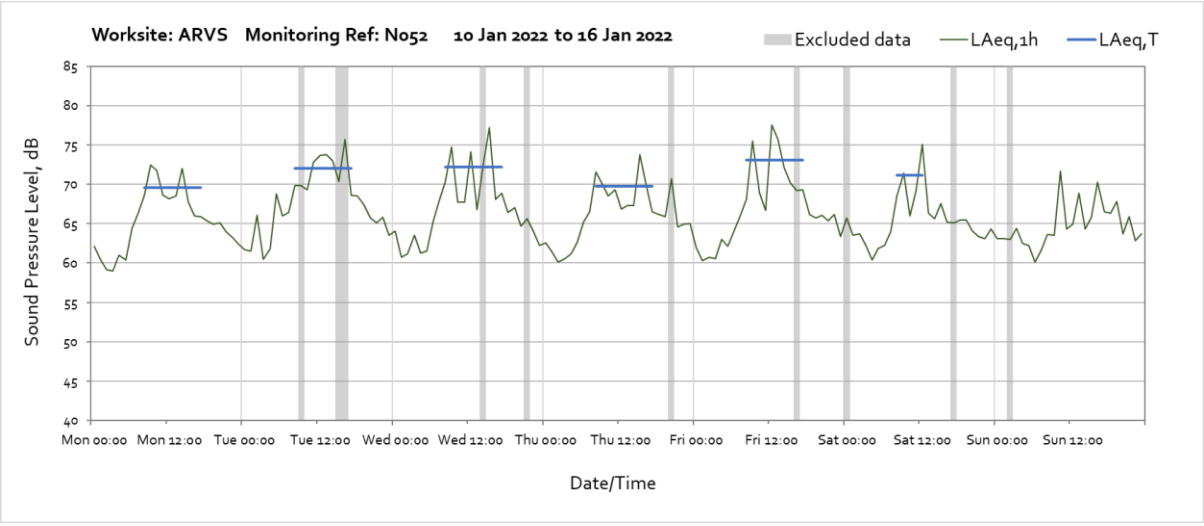

Worksite: ARVS Monitoring Ref: No51 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

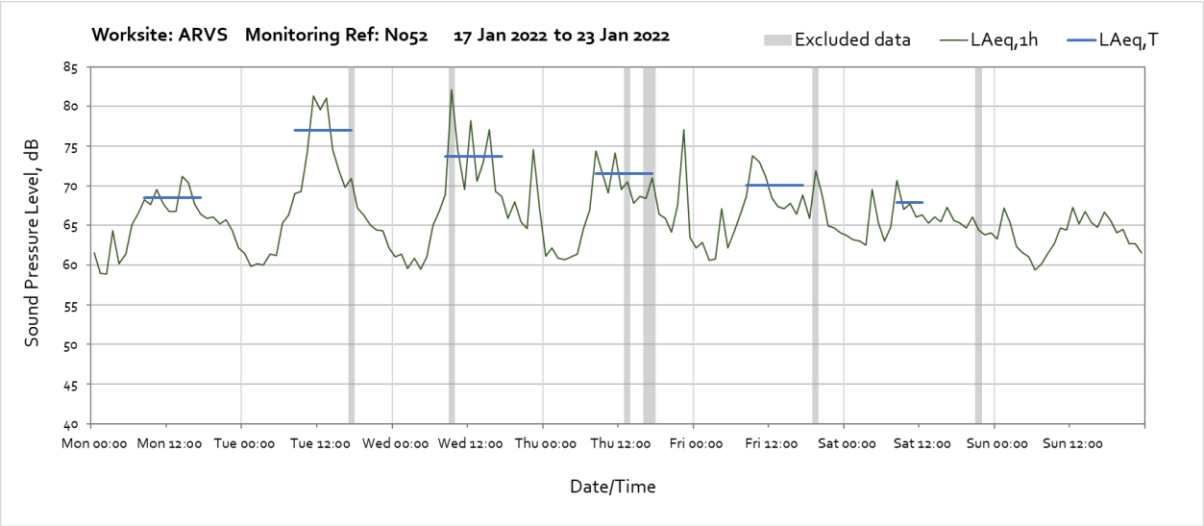

Worksite: ARVS Monitoring Ref: No51 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

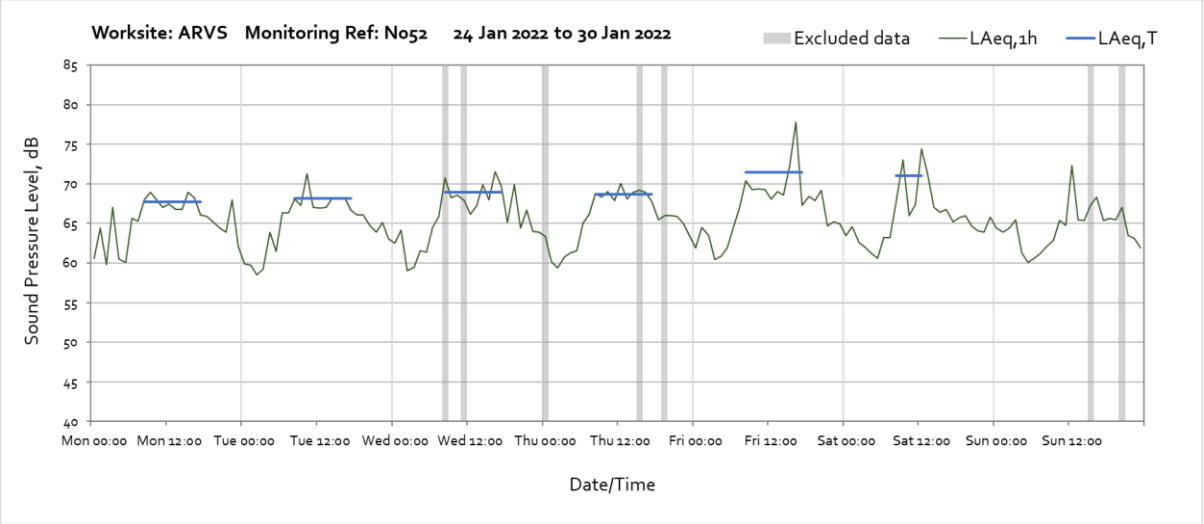
Adelaide Road Ventilation Shaft (ARVS) – Monitoring Ref: N052

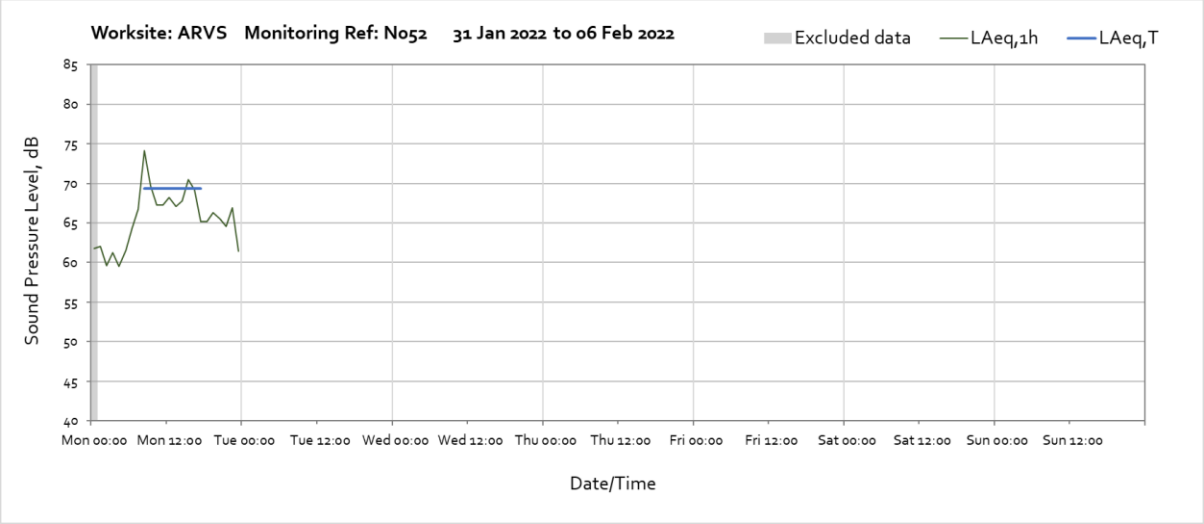







Worksite: ARVS Monitoring Ref: No52 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00 Mon 12:00 Tue 00:00 Tue 12:00 Wed 00:00 Wed 12:00 Thu 00:00 Thu 12:00 Fri 00:00 Fri 12:00 Sat 00:00 Sat 12:00 Sun 00:00 Sun 12:00
Date/Time

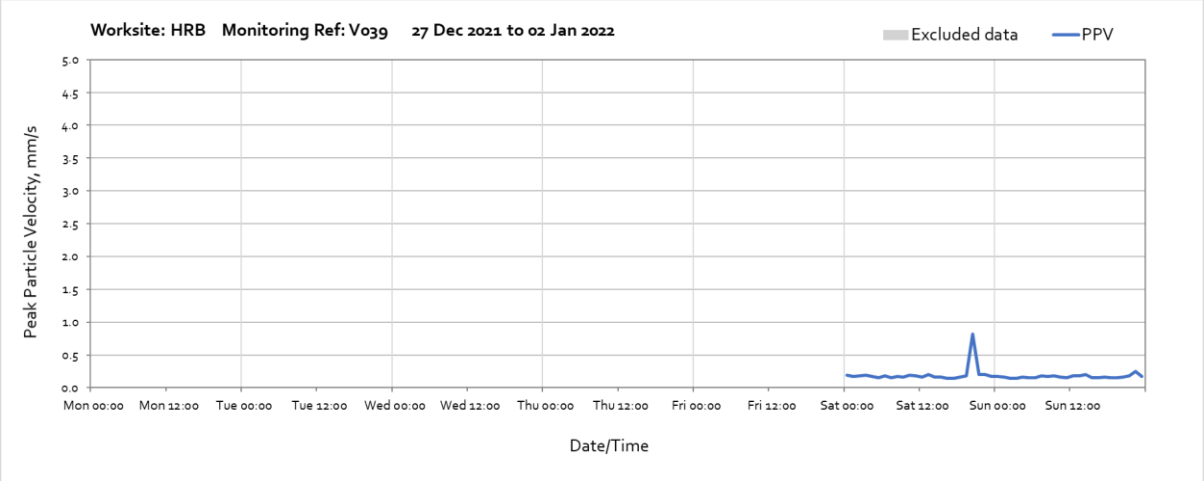

Worksite: ARVS Monitoring Ref: No52 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00 Mon 12:00 Tue 00:00 Tue 12:00 Wed 00:00 Wed 12:00 Thu 00:00 Thu 12:00 Fri 00:00 Fri 12:00 Sat 00:00 Sat 12:00 Sun 00:00 Sun 12:00
Date/Time

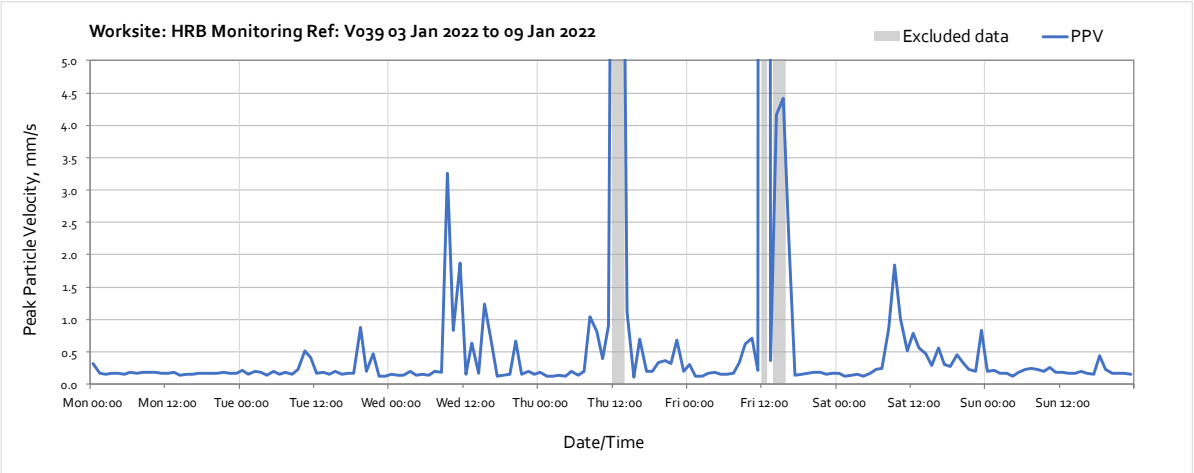

Worksite: ARVS Monitoring Ref: No52 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00 Mon 12:00 Tue 00:00 Tue 12:00 Wed 00:00 Wed 12:00 Thu 00:00 Thu 12:00 Fri 00:00 Fri 12:00 Sat 00:00 Sat 12:00 Sun 00:00 Sun 12:00
Date/Time

Vibration

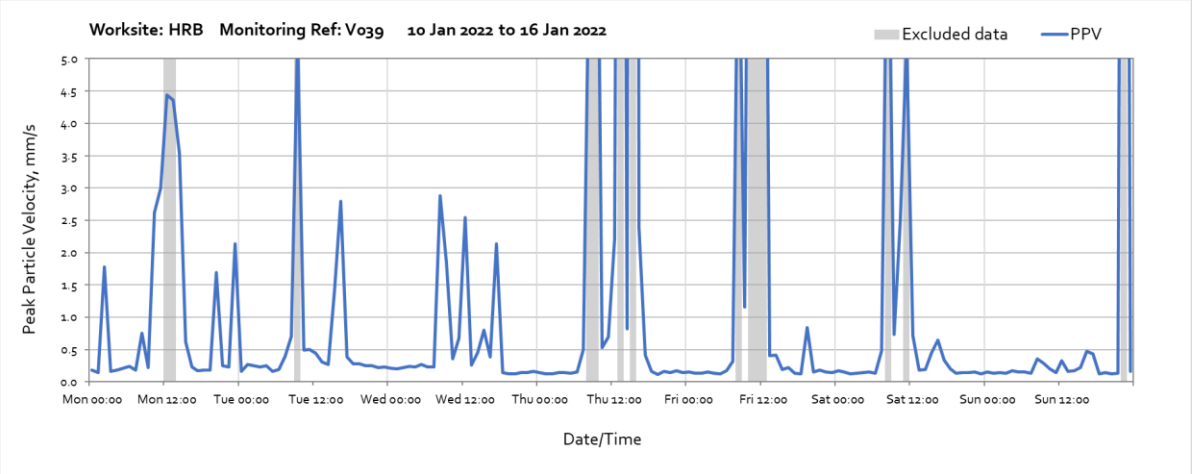
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axes x, y and z. Where resultant PPV data is not available (monitors V039 and V043), the highest vibration component in either of the three axes is presented for each 1hr measurement period respectively. 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: HRB – Monitoring Ref: V039

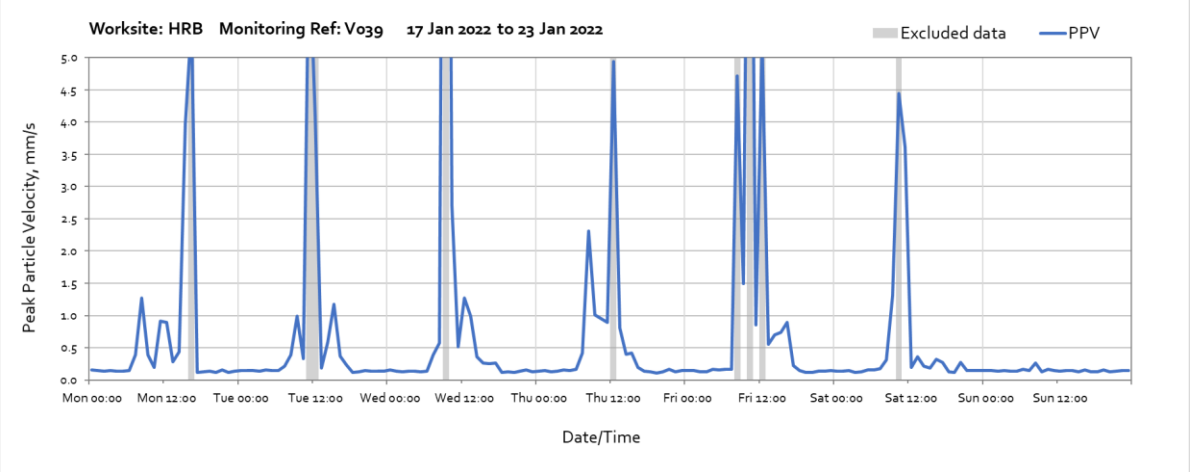




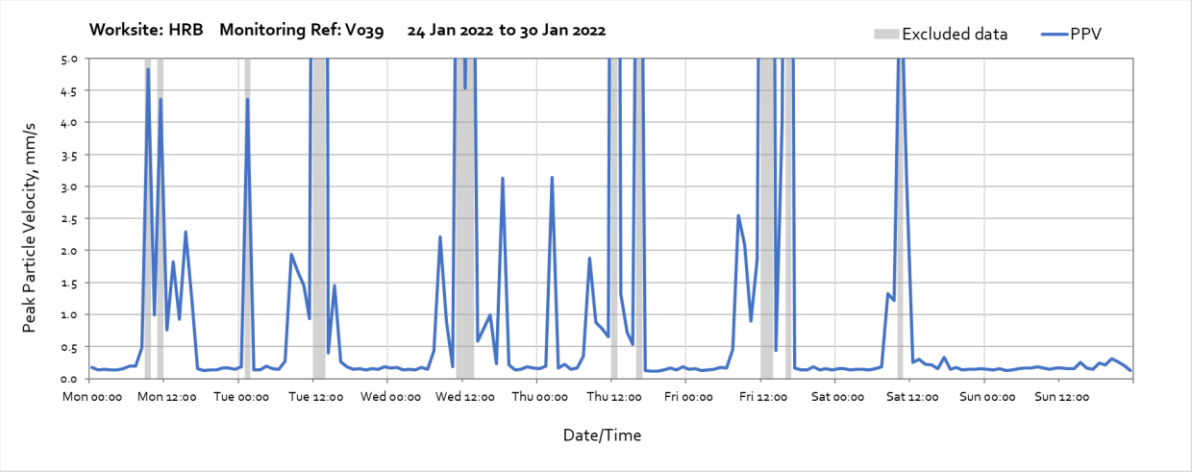
Note: High vibraton levels measured throughout the week were due plant movements next to the monitor and are not representative of HS2 vibration levels at the receptor.



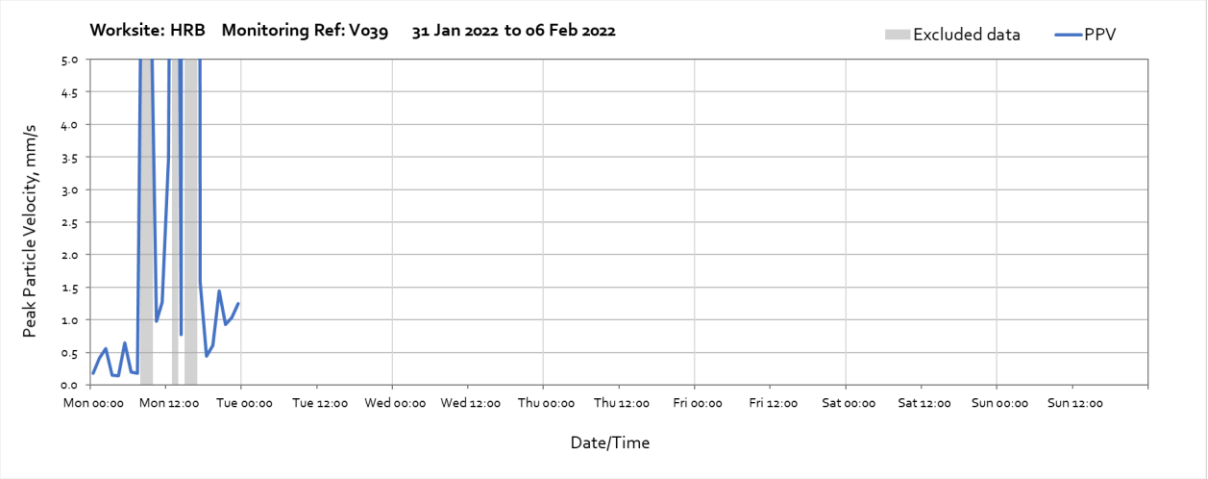
Note: High vibraton levels measured throughout the week were due plant movements next to the monitor and are not representative of HS2 vibration levels at the receptor.



Note: High vibraton levels measured throughout the week were due plant movements next to the monitor and are not representative of HS2 vibration levels at the receptor.

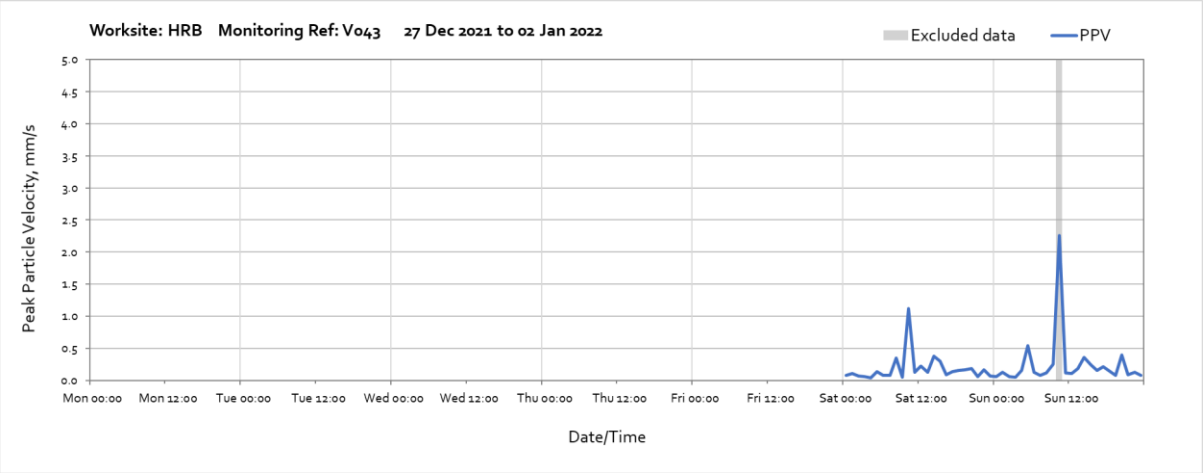


Note: High vibraton levels measured throughout the week were due plant movements next to the monitor and are not representative of HS2 vibration levels at the receptor.

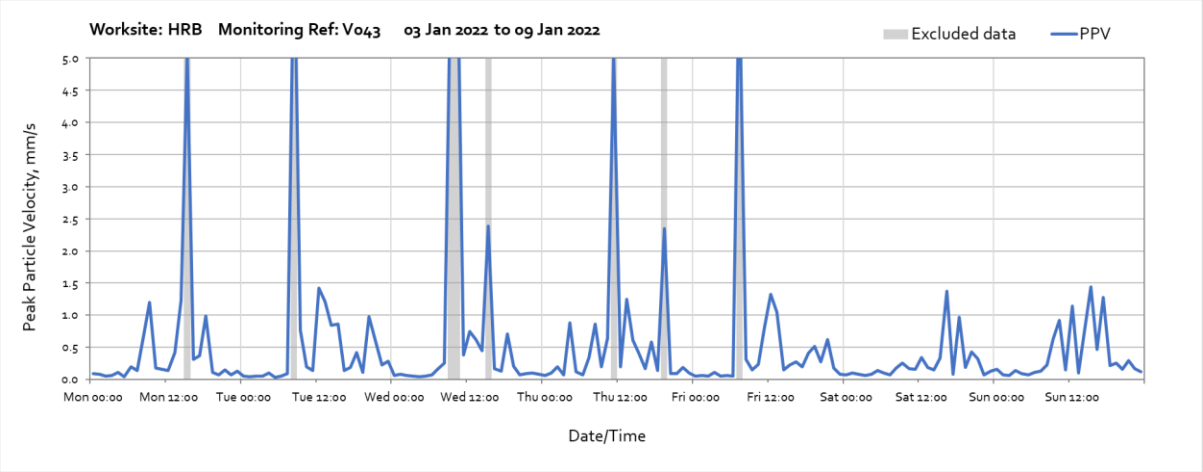


Note: High vibraton levels measured throughout Monday 31st January were due plant movements next to the monitor and are not representative of HS2 vibration levels at the receptor.

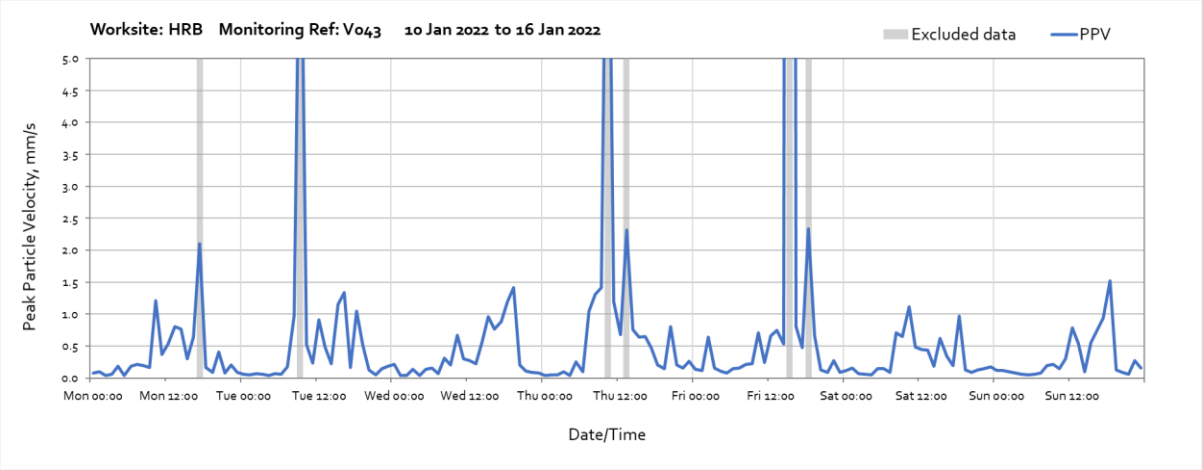
Worksite: HRB – Monitoring Ref: V043



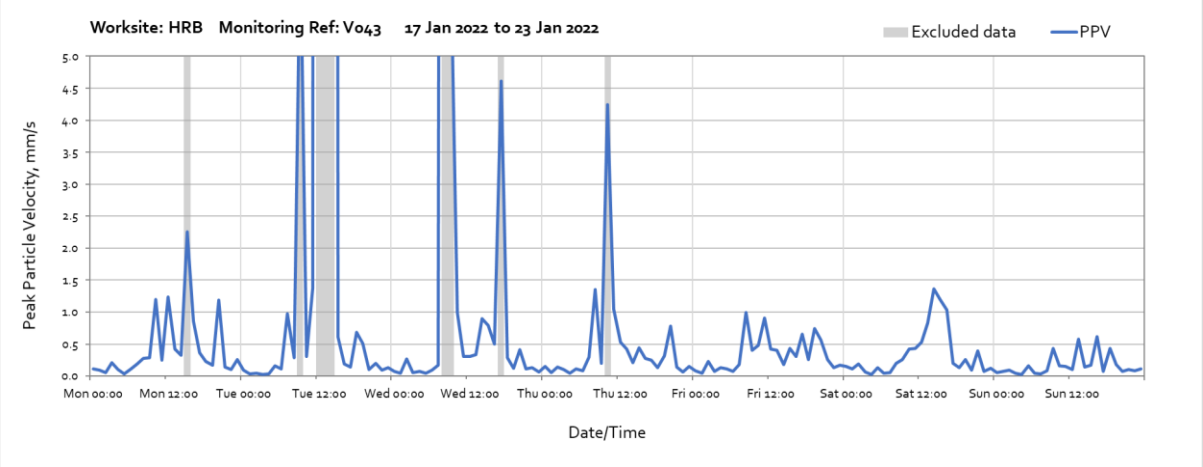
Note: High vibraton levels measured from 10:00 until 11:00 on Sunday 2nd January were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



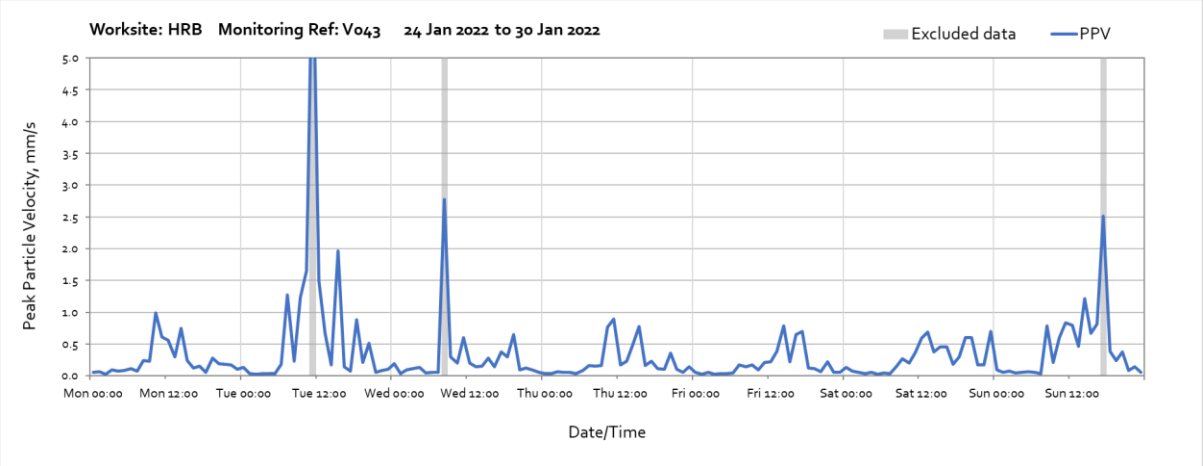
Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



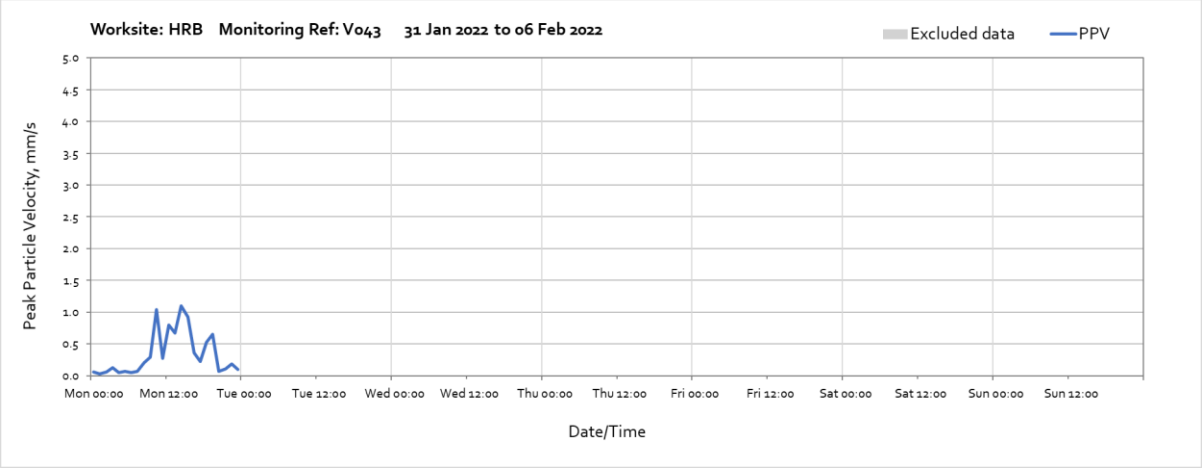
Note: High vibration levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



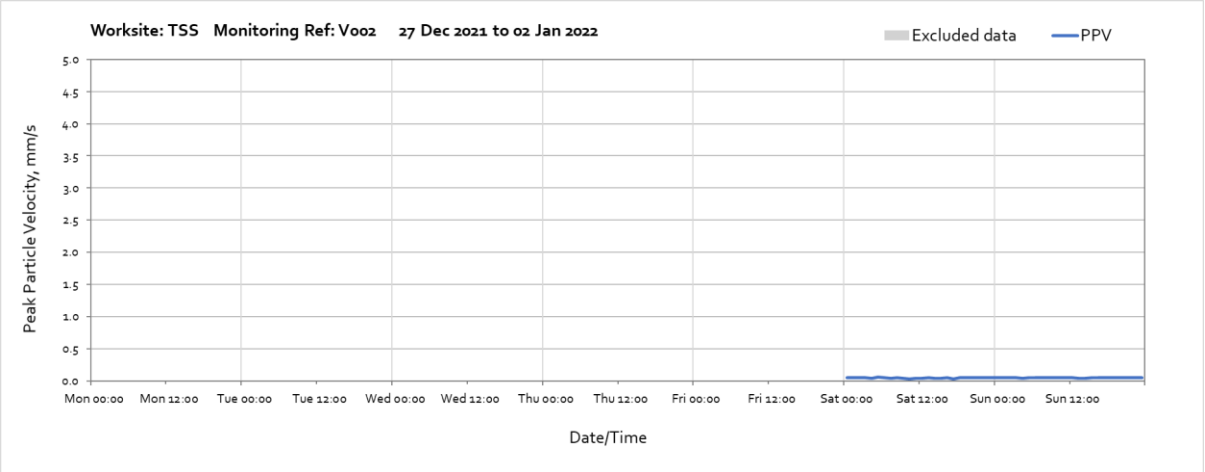
Note: High vibration levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

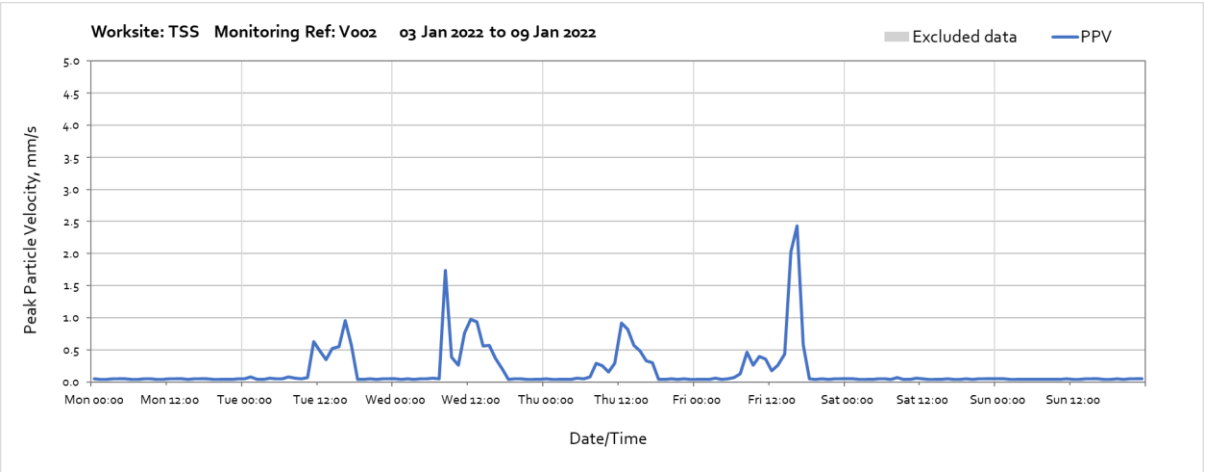


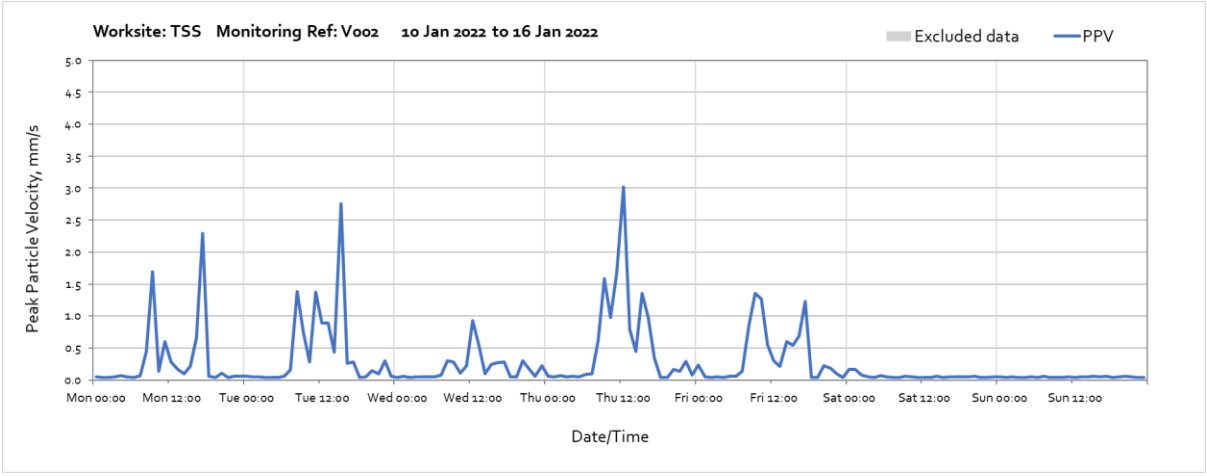
Note: High vibration levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

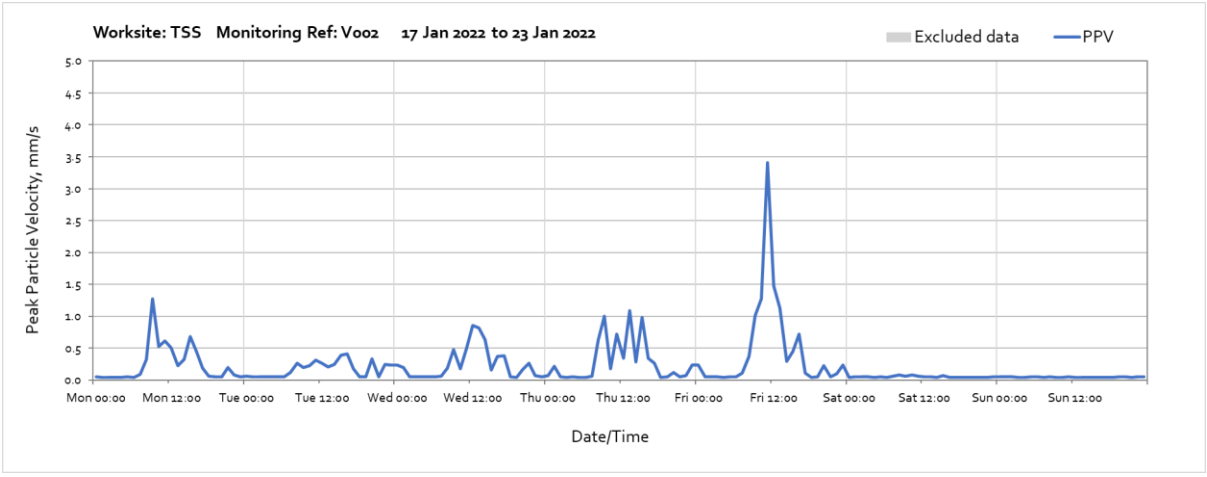


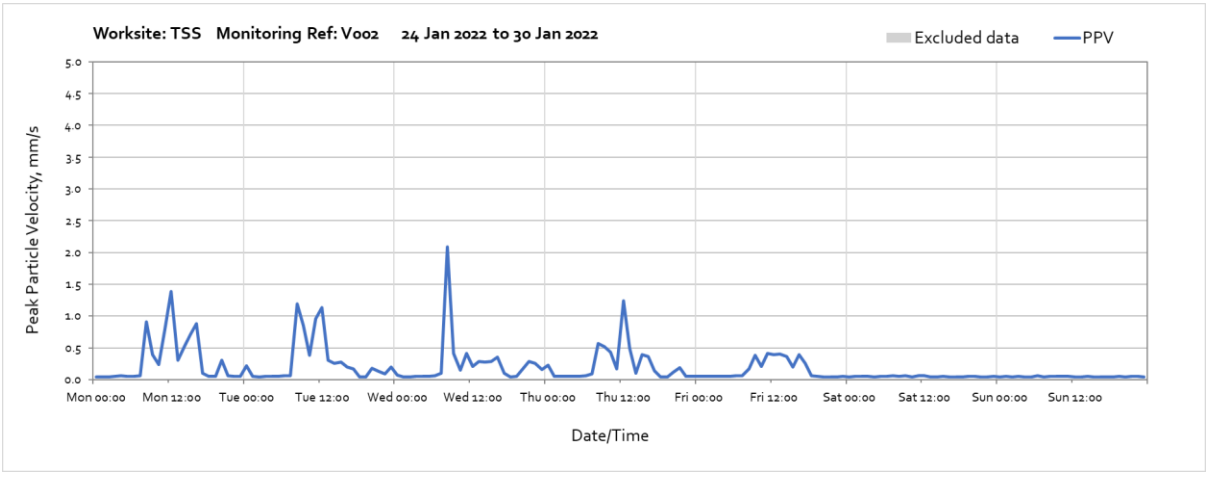
Worksite: TSS – Monitoring Ref: V002






Worksite: TSS Monitoring Ref: V002 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: TSS Monitoring Ref: V002 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: TSS Monitoring Ref: V002 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
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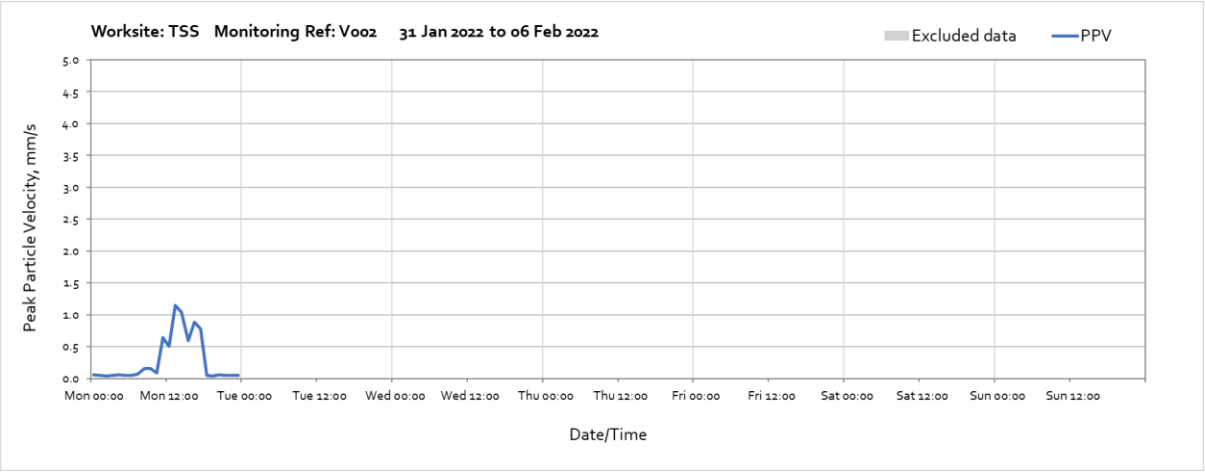
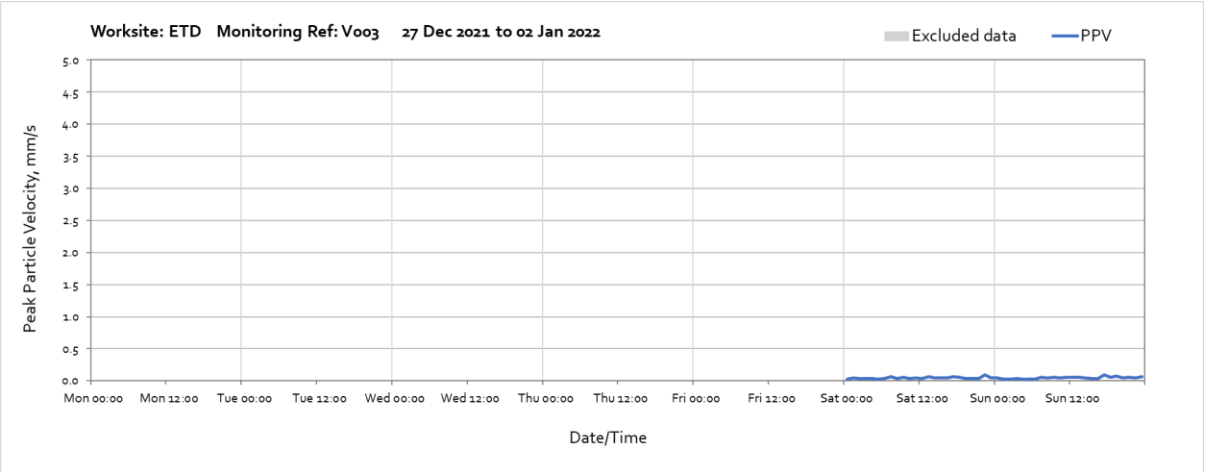
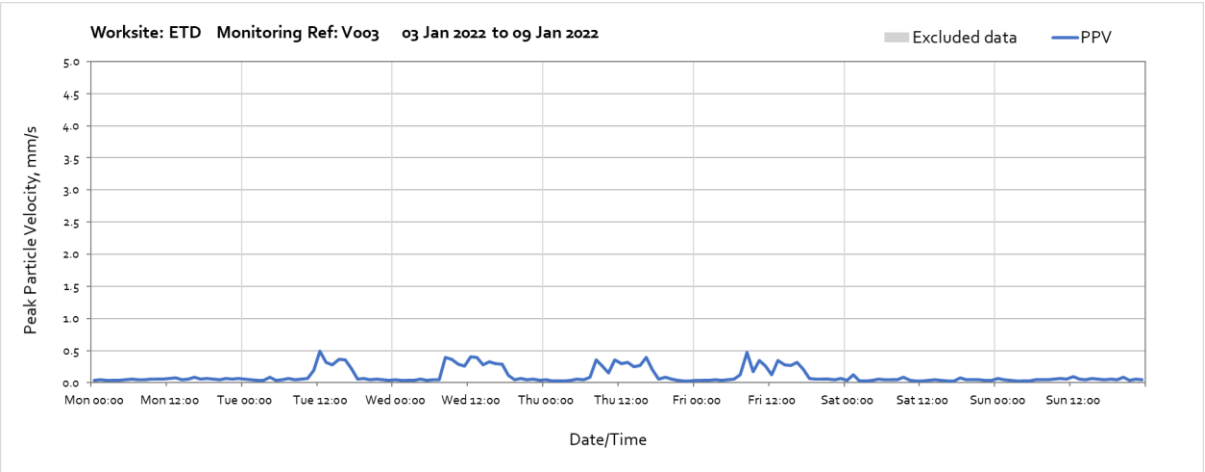
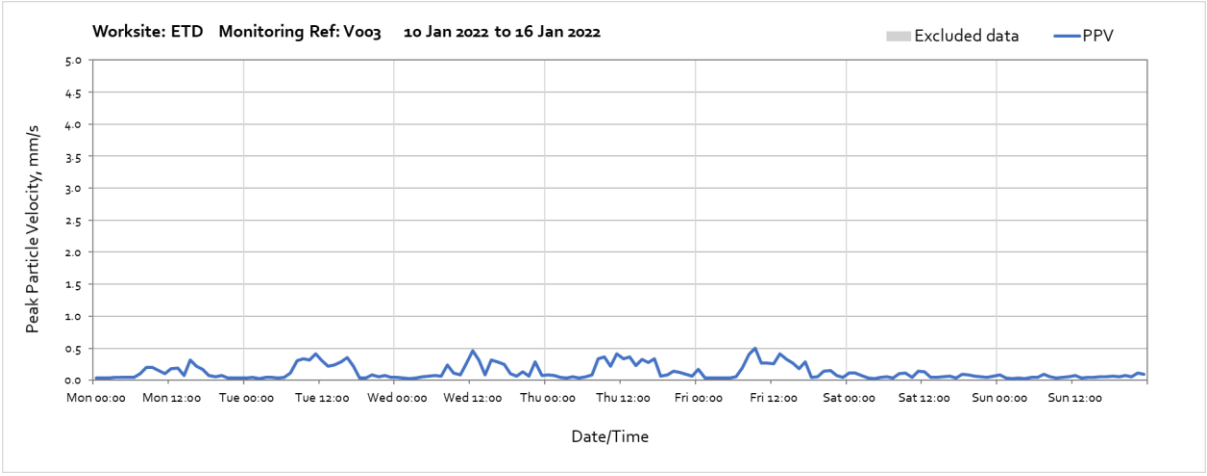
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

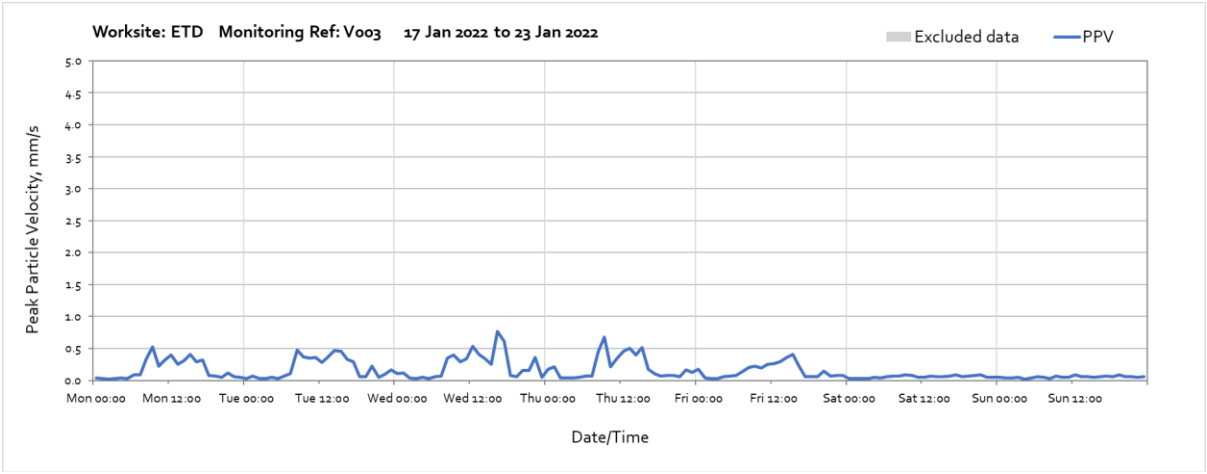


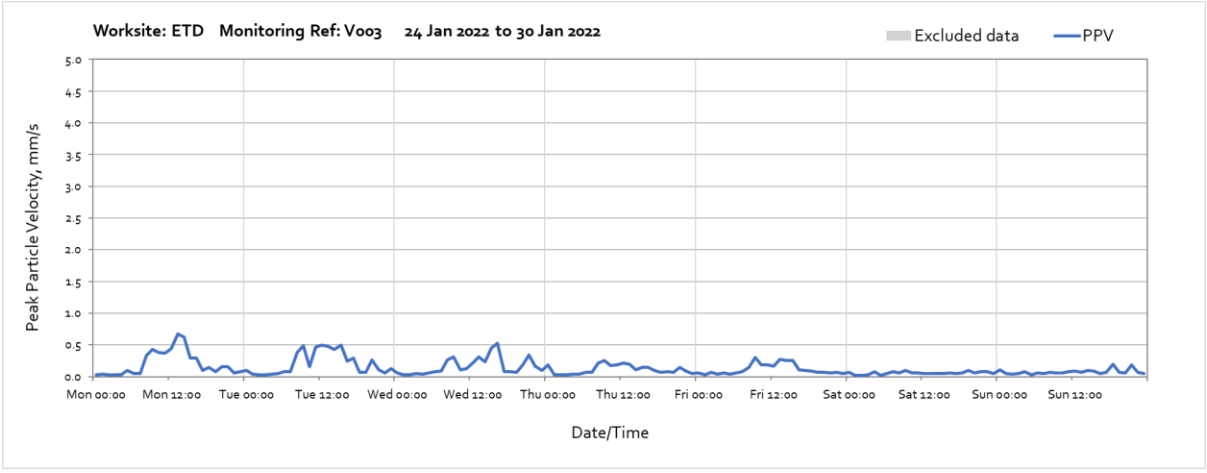
Worksite: ETD, TSS – Monitoring Ref: V003






Worksite: ETD Monitoring Ref: V003 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: ETD Monitoring Ref: V003 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: ETD Monitoring Ref: V003 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
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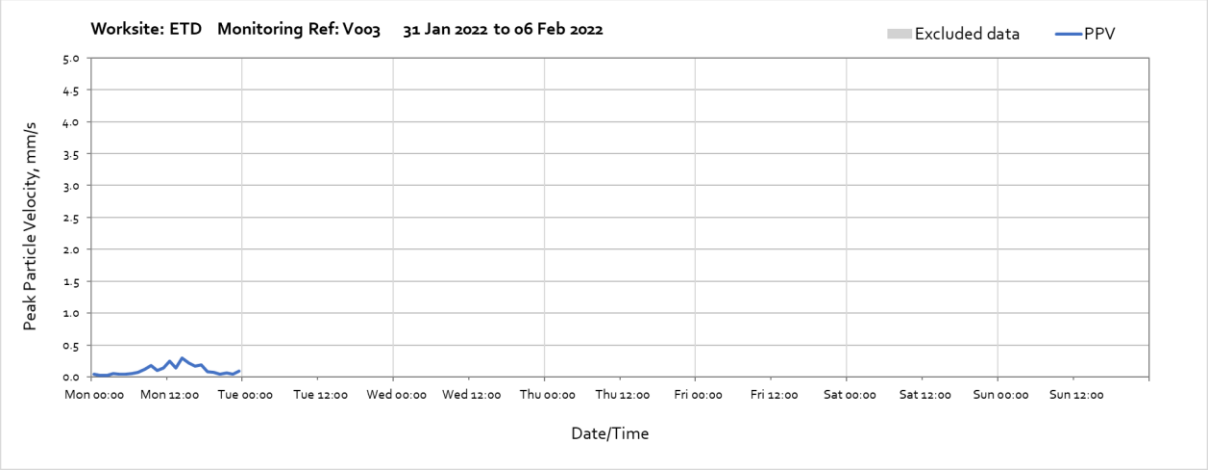
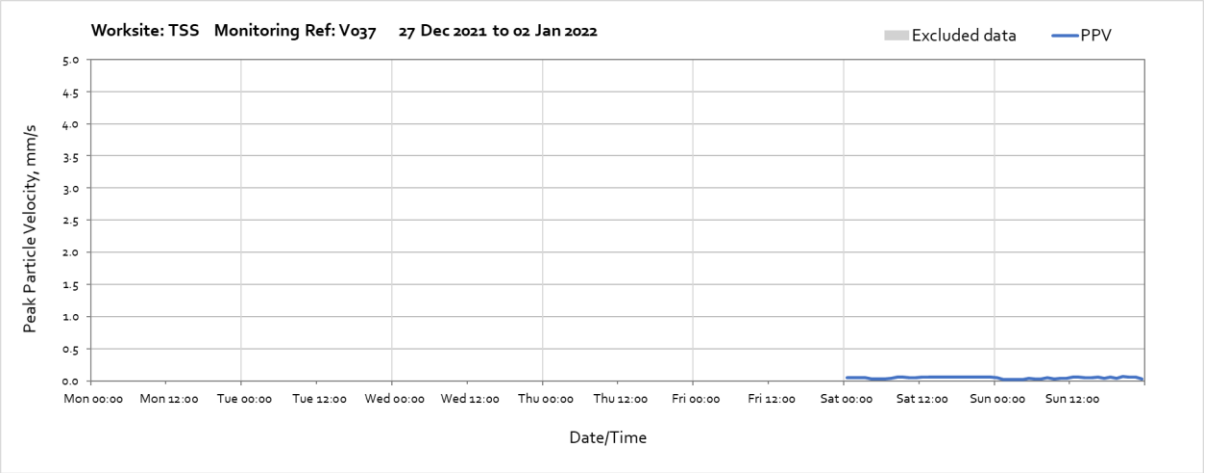
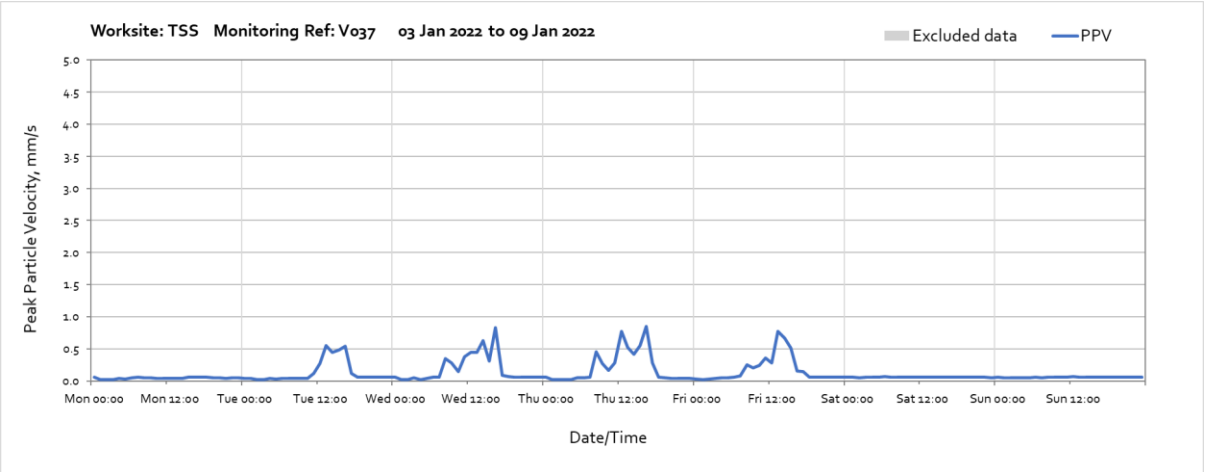
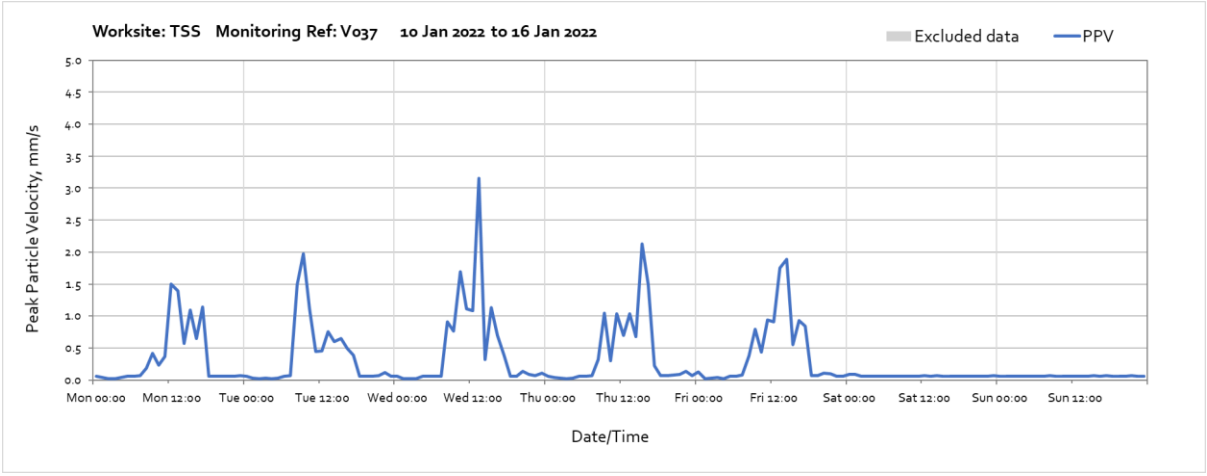
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

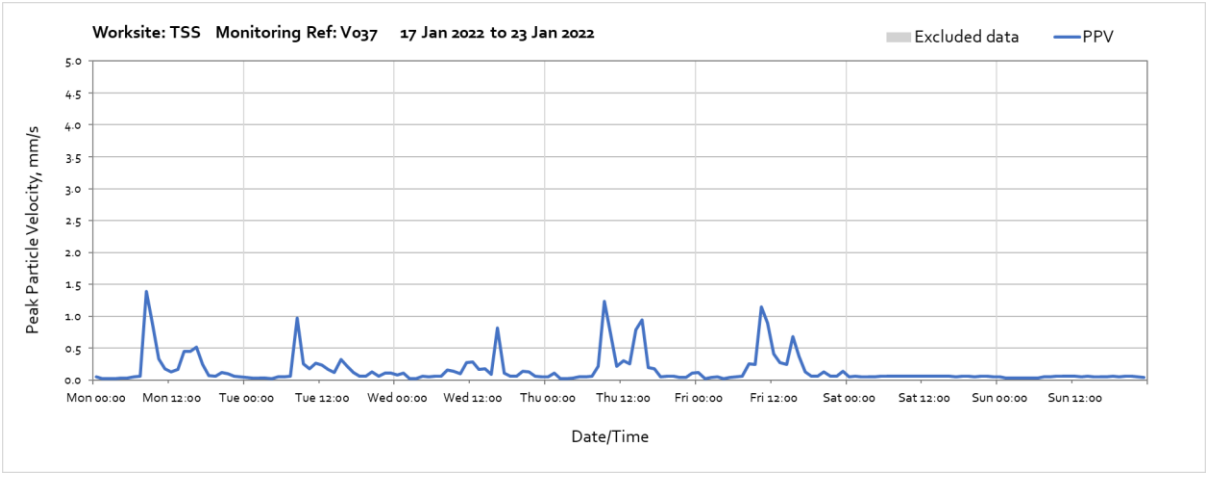


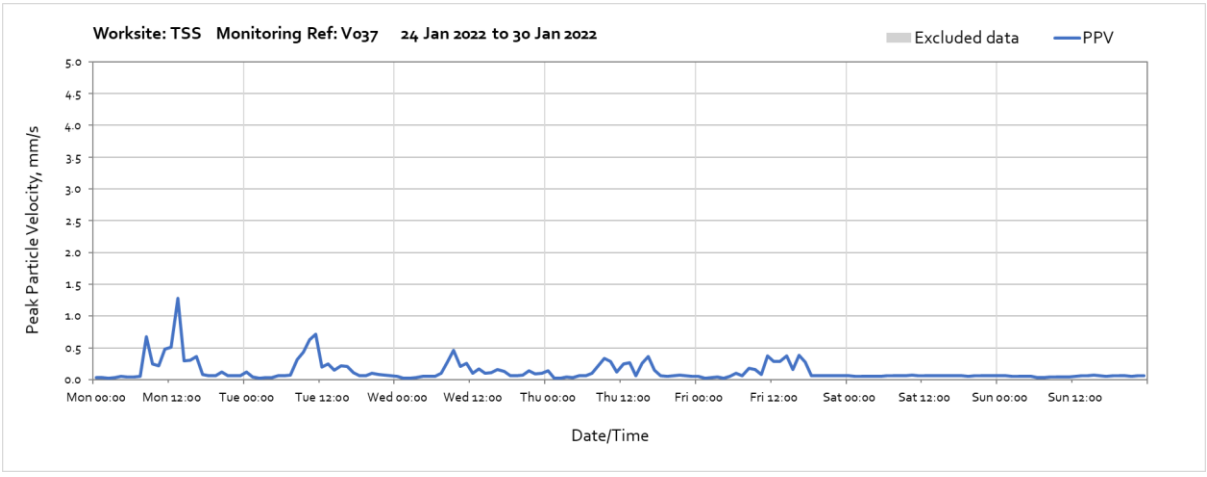
Worksite: TSS – Monitoring Ref: V037






Worksite: TSS Monitoring Ref: V037 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: TSS Monitoring Ref: V037 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: TSS Monitoring Ref: V037 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
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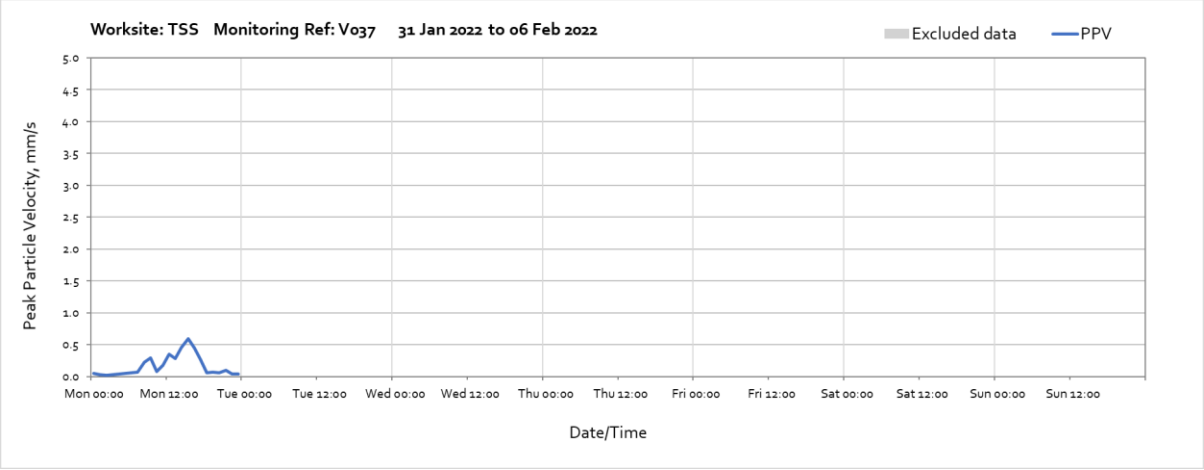
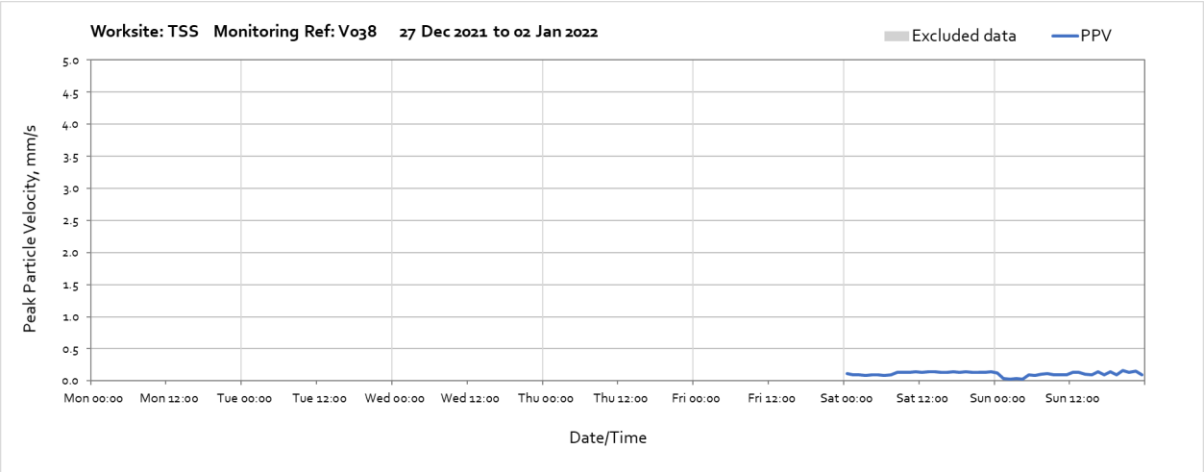
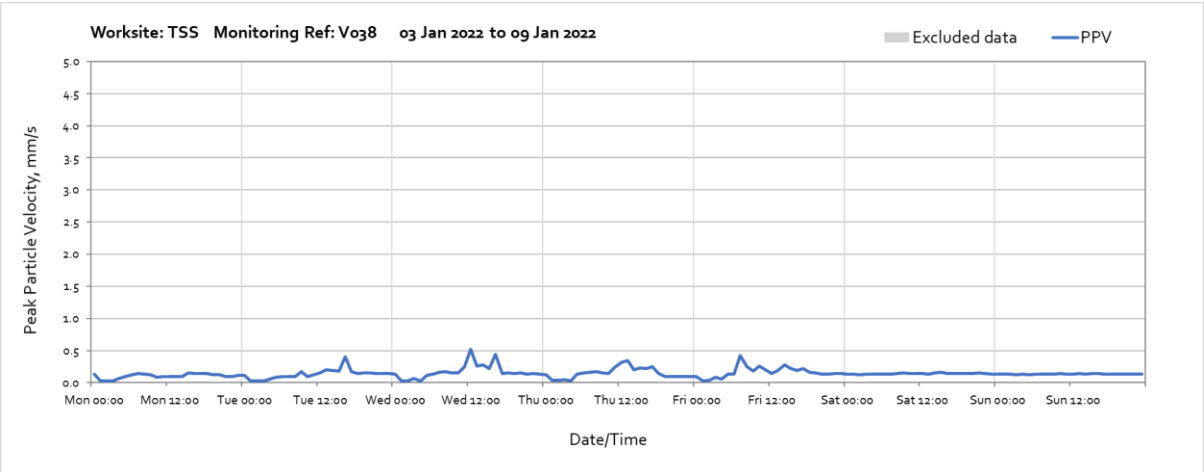
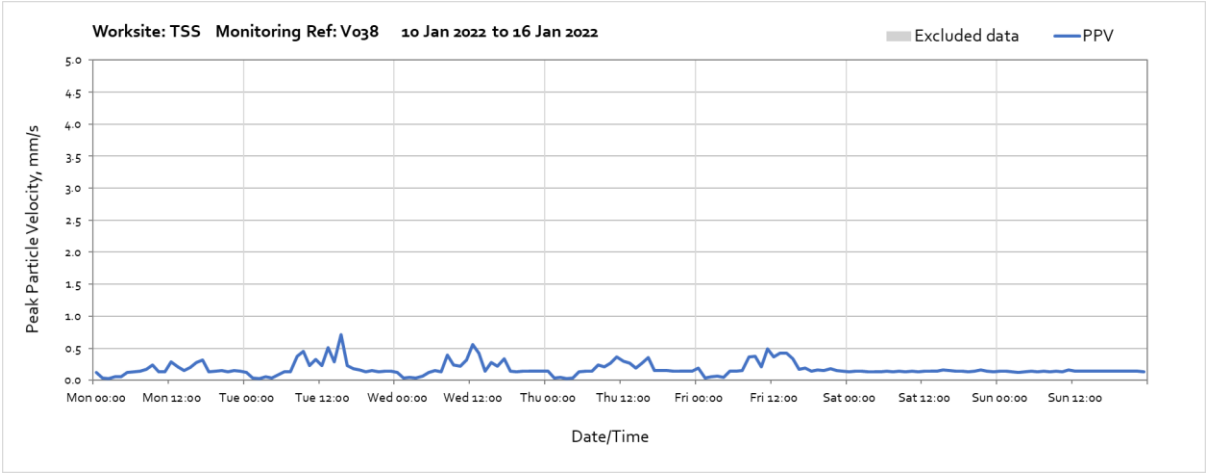
Sun 12:00
Date/Time

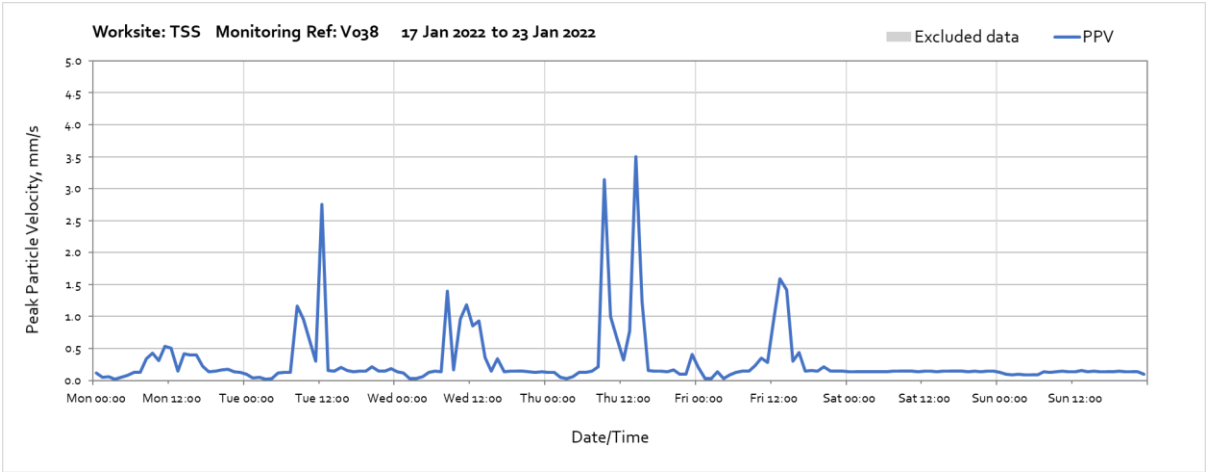


Worksite: TSS – Monitoring Ref: V038






Worksite: TSS Monitoring Ref: Vo38 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: TSS Monitoring Ref: Vo38 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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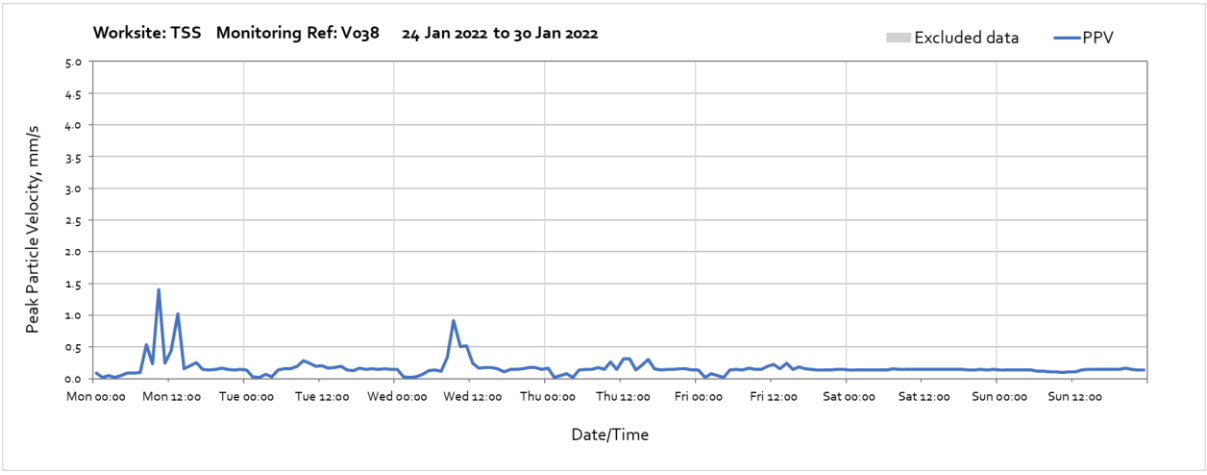
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: TSS Monitoring Ref: Vo38 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
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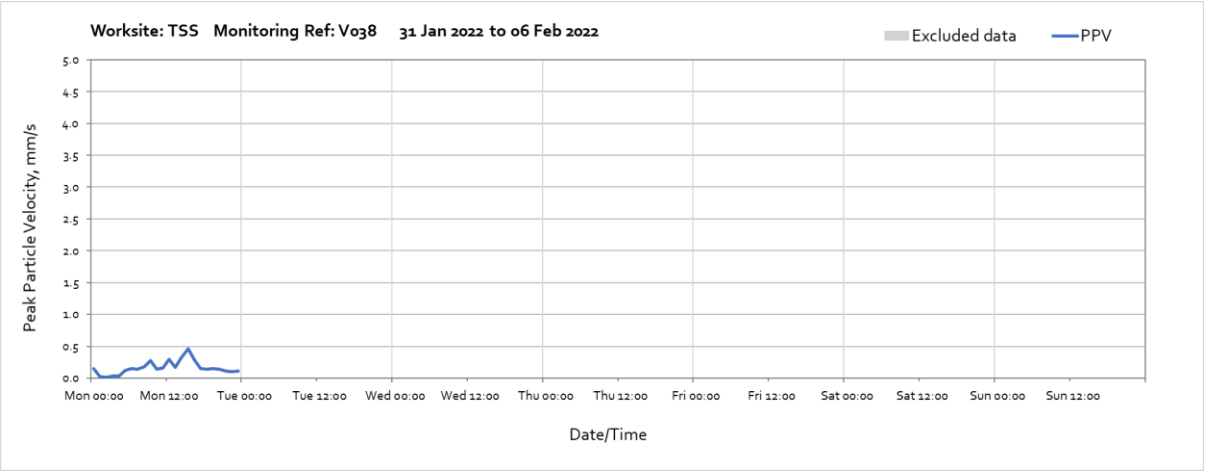
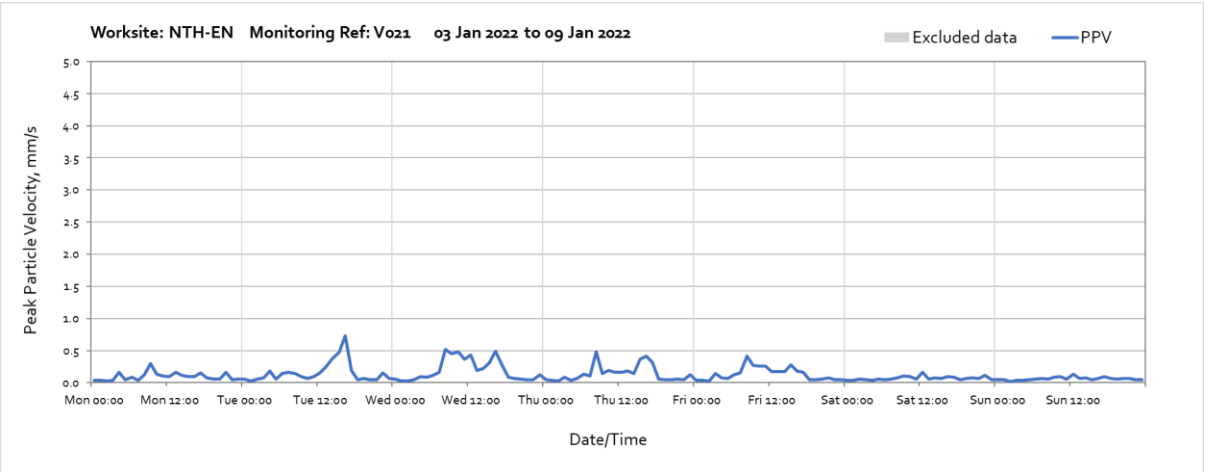
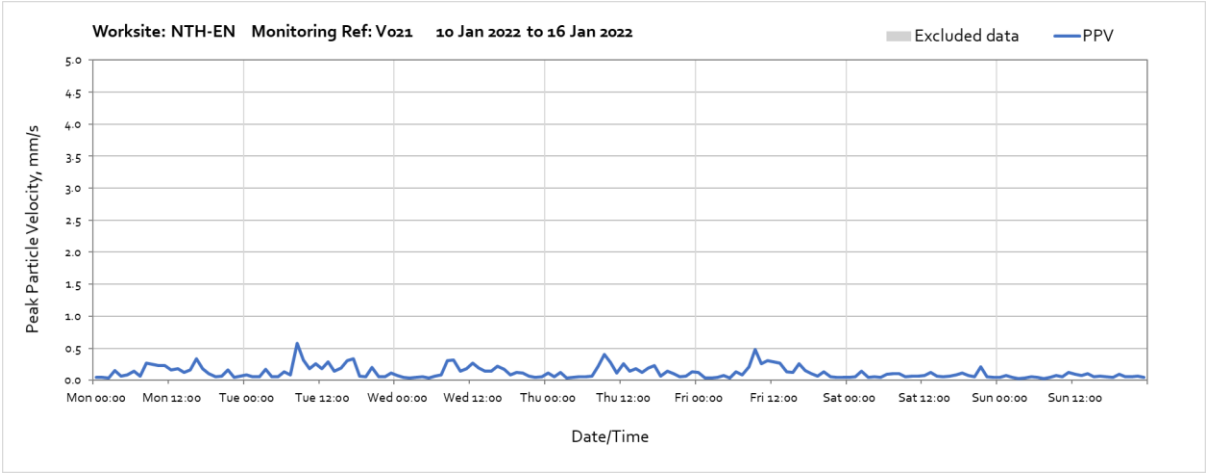
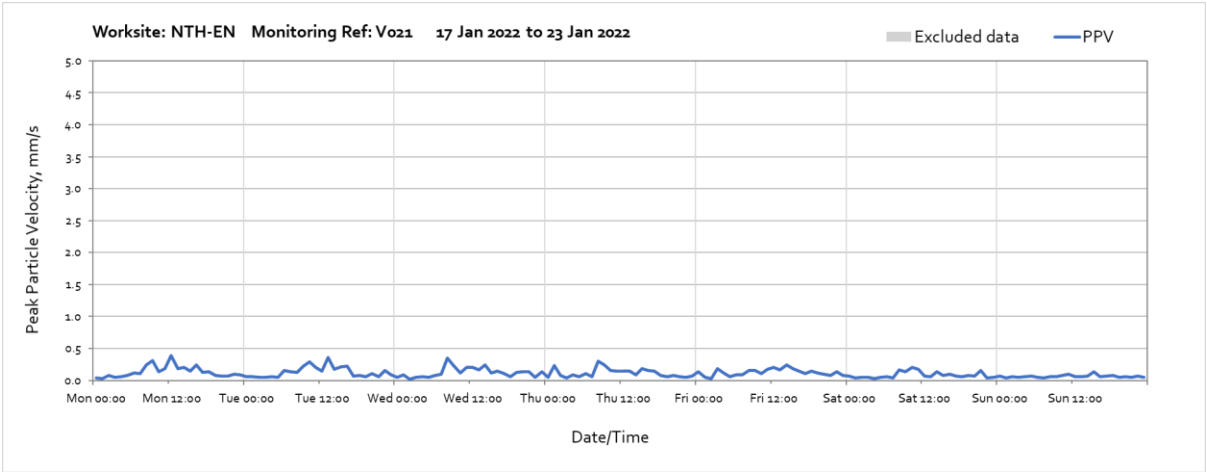
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time



Worksite: NTH-EN – Monitoring Ref: V021




Worksite: NTH-EN Monitoring Ref: V021 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: NTH-EN Monitoring Ref: V021 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
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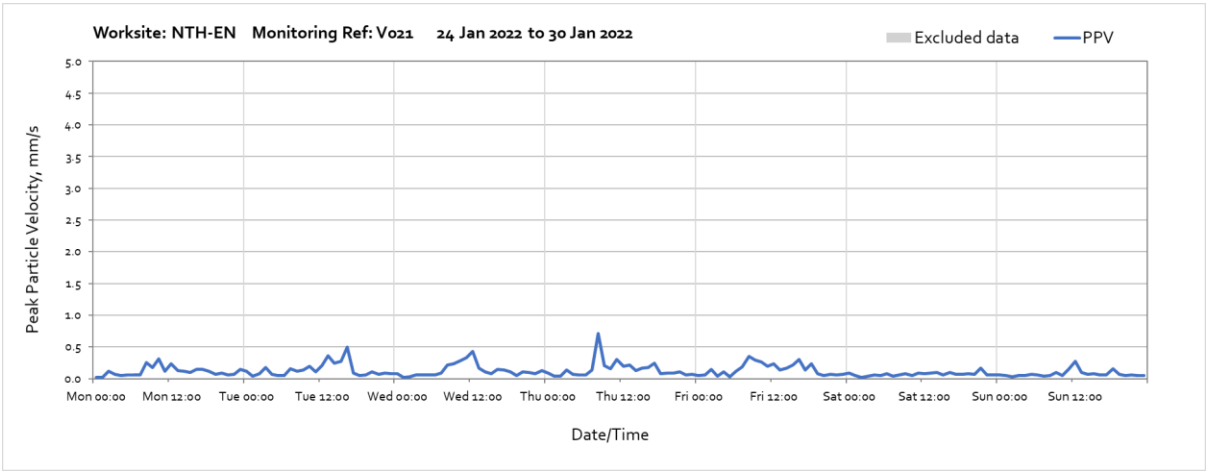
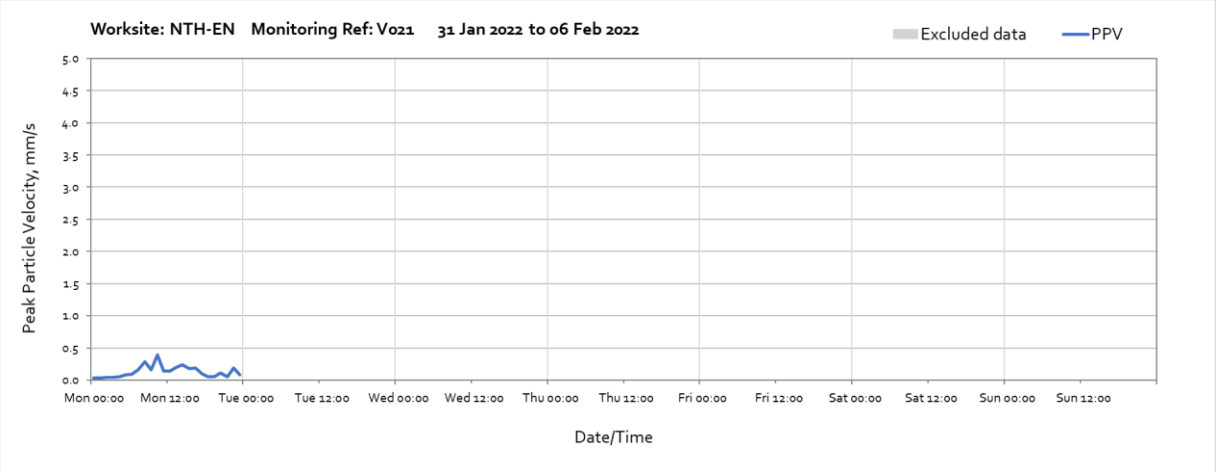
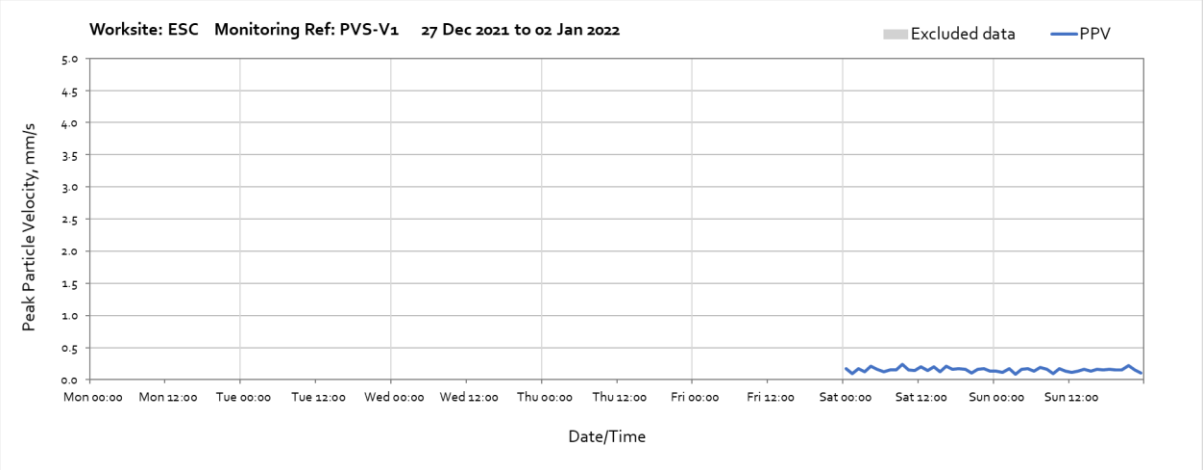
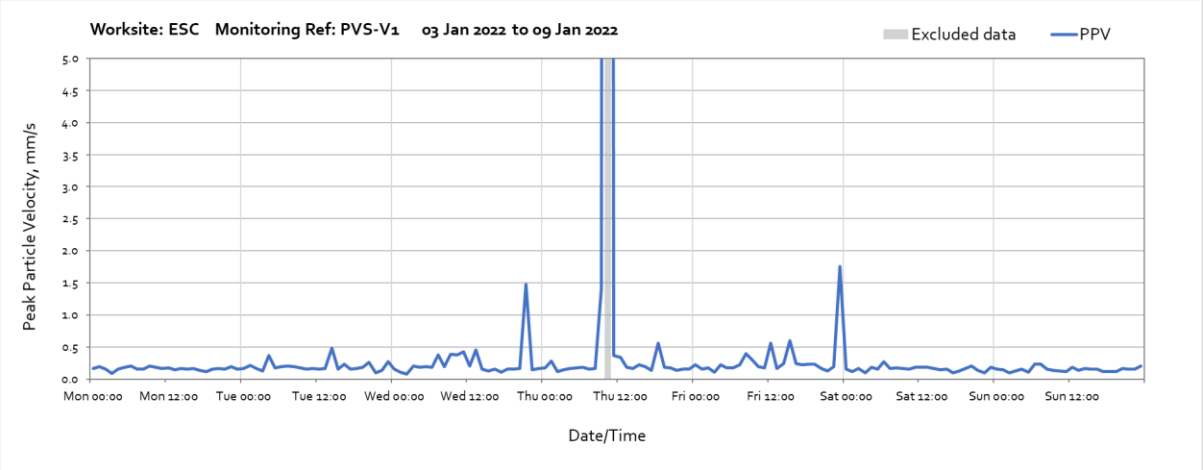
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: NTH-EN Monitoring Ref: V021 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

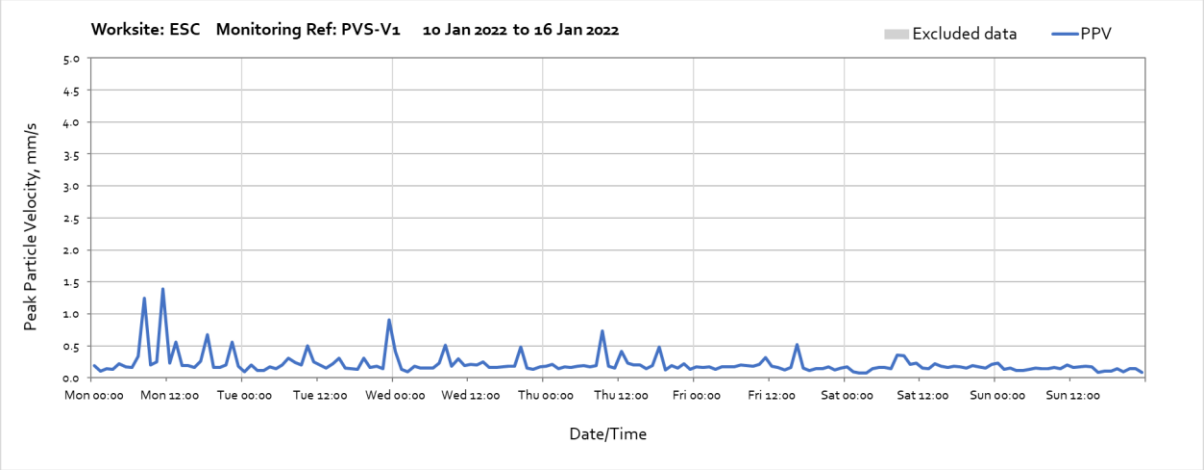


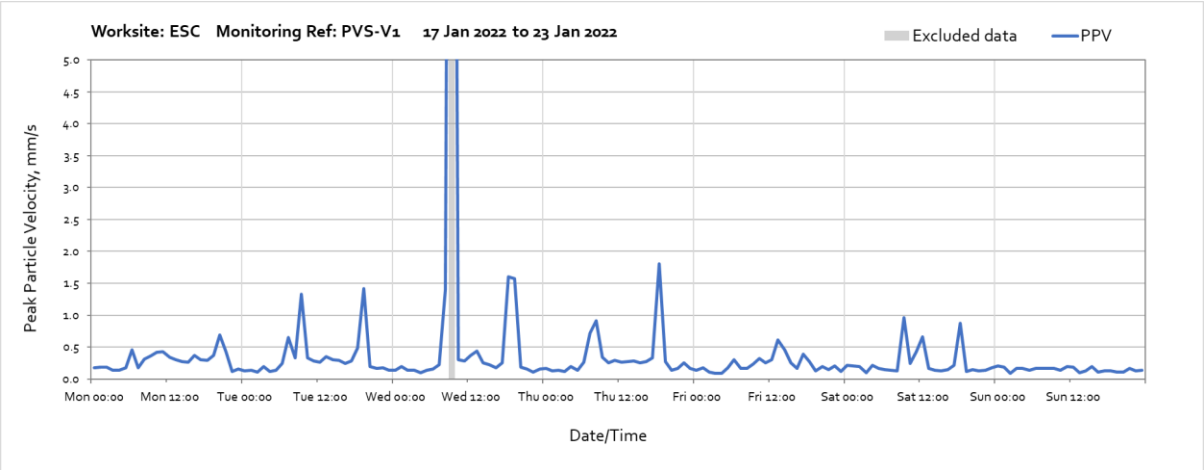
Worksite: ESC – Monitoring Ref: PVS-V1



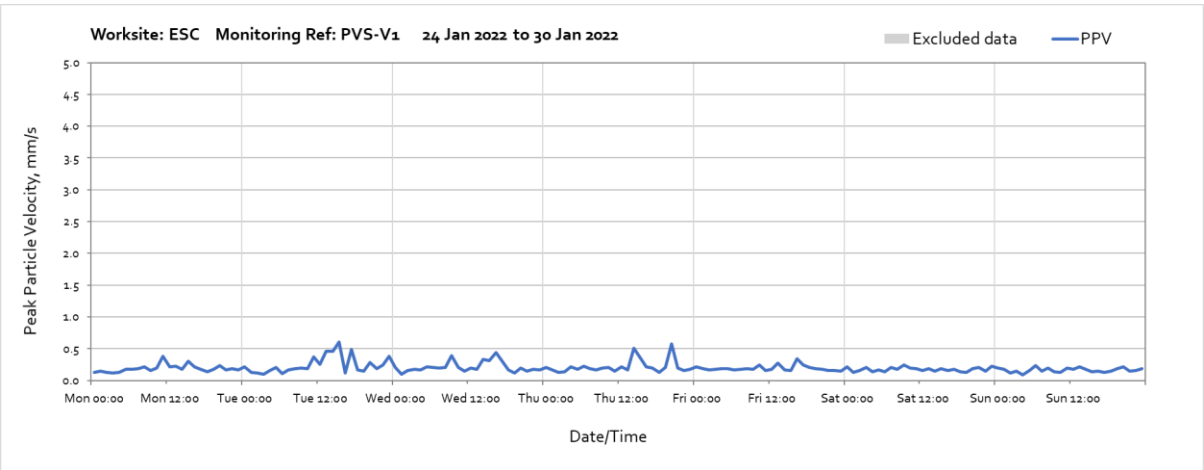


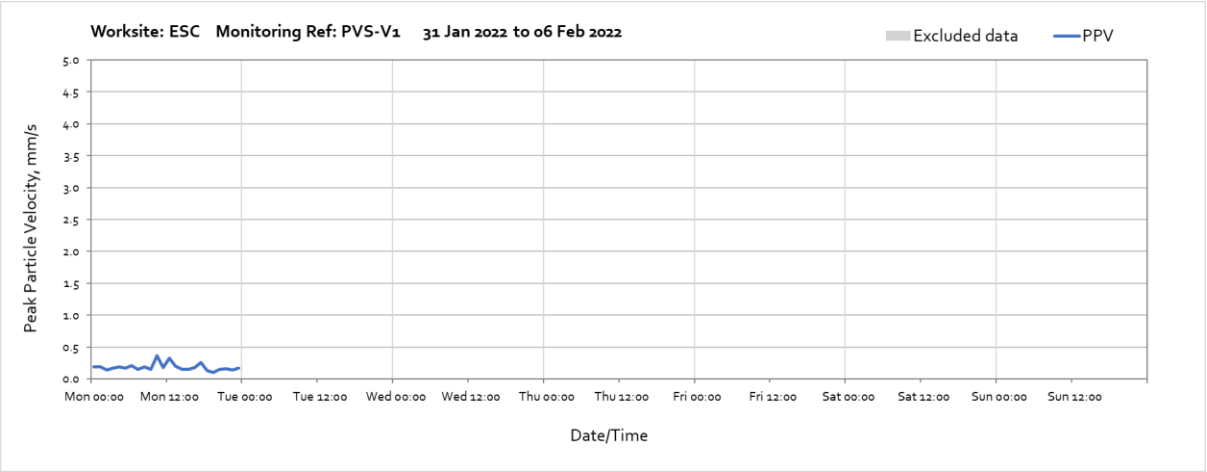
Note: High vibraton levels measured between 10:00 until 11:00 on Thursday 6th January were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



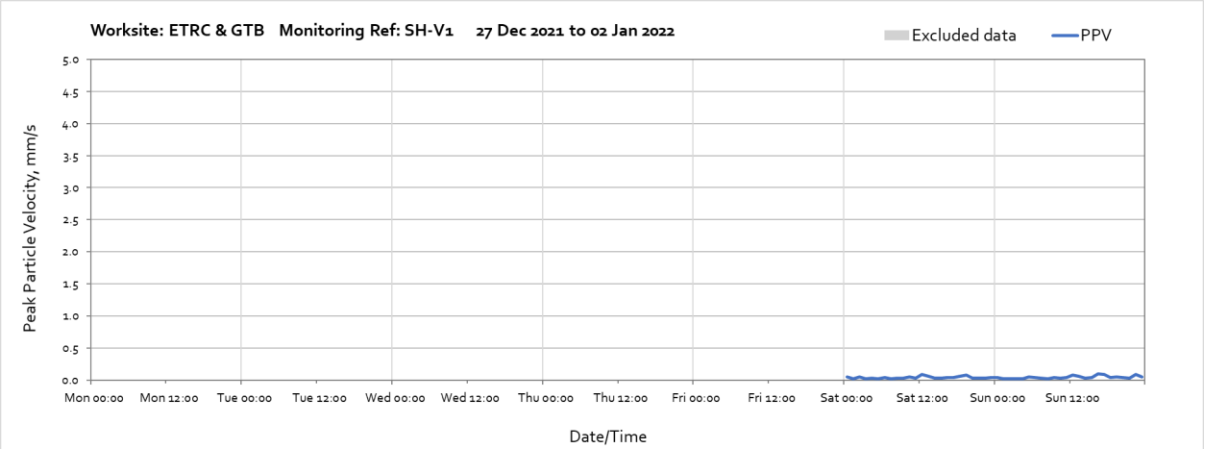


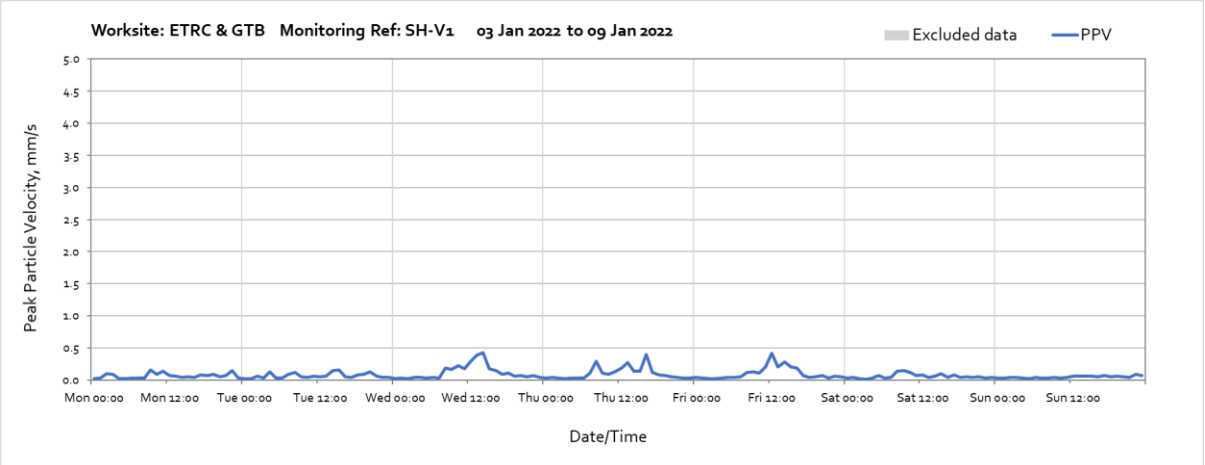
Note: High vibraton levels measured between 09:00 until 10:00 on Wednesday 19th January were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

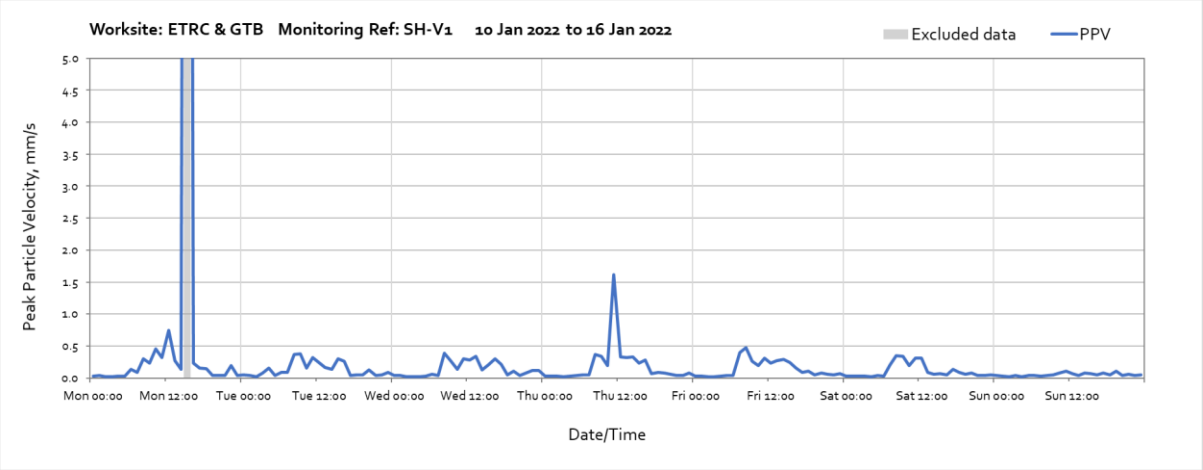




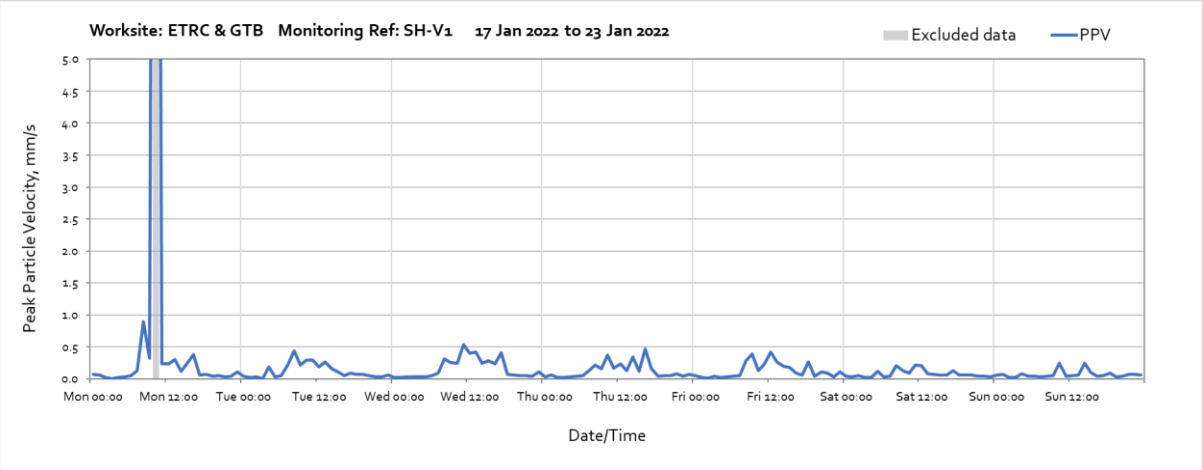
Worksite: ETRC & GTB – Monitoring Ref: SH-V1



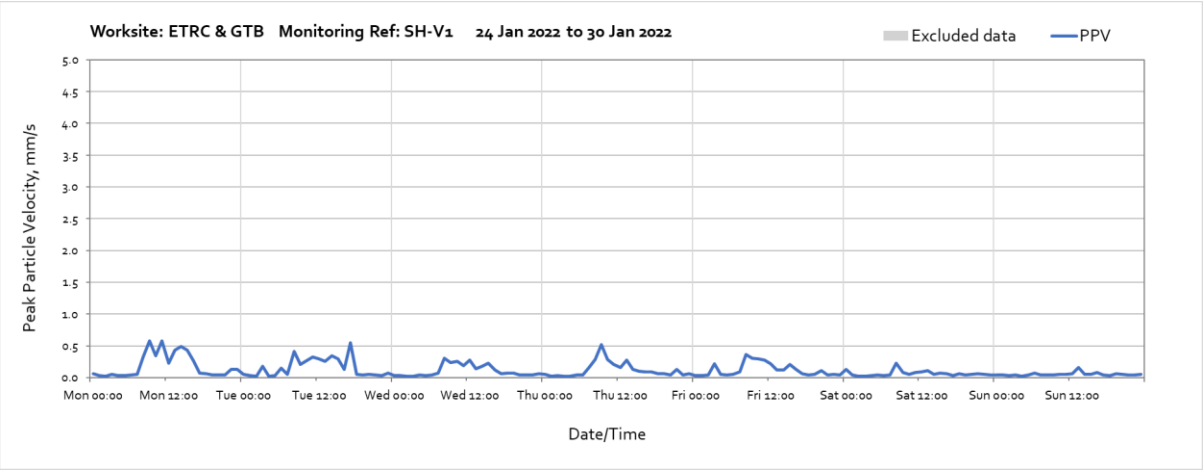


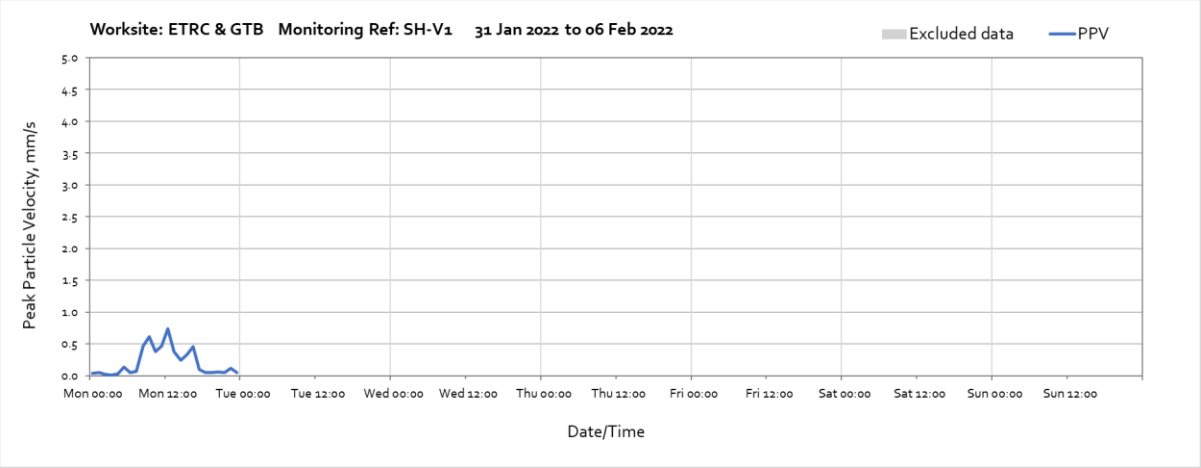


Note: High vibation levels measured from 15:00 until 16:00 on Monday 10th January was due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

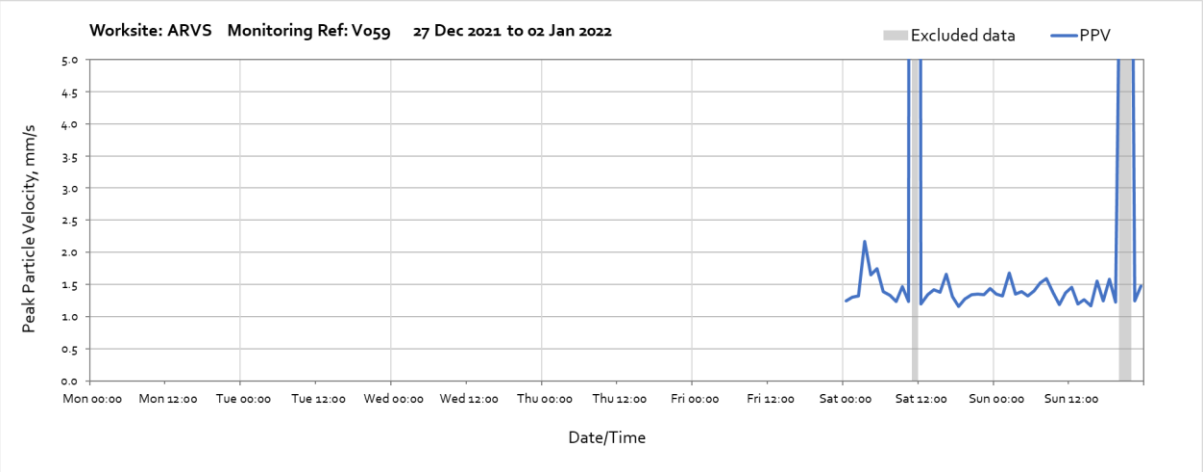


Note: High vibation levels measured from 10:00 until 11:00 on Monday 17th Janaury was due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

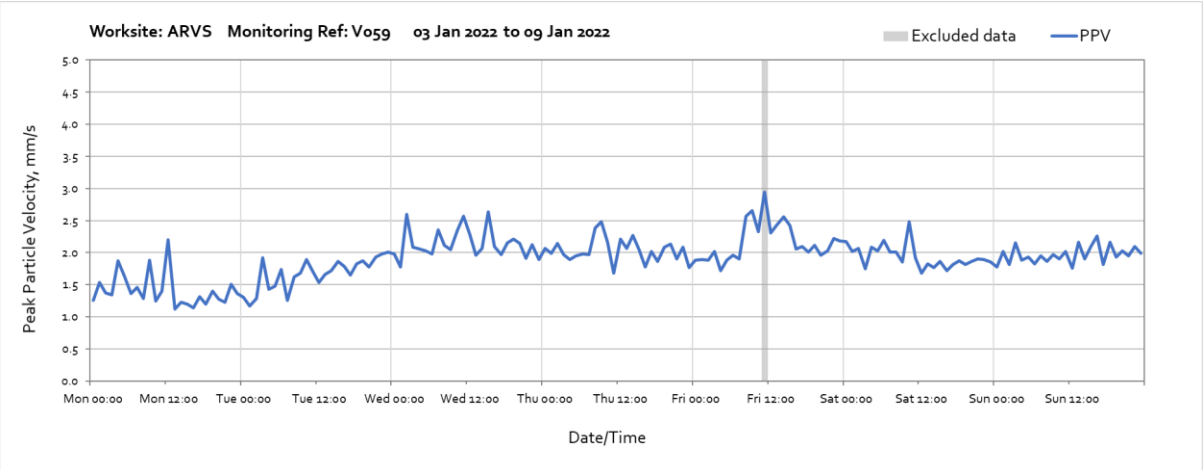




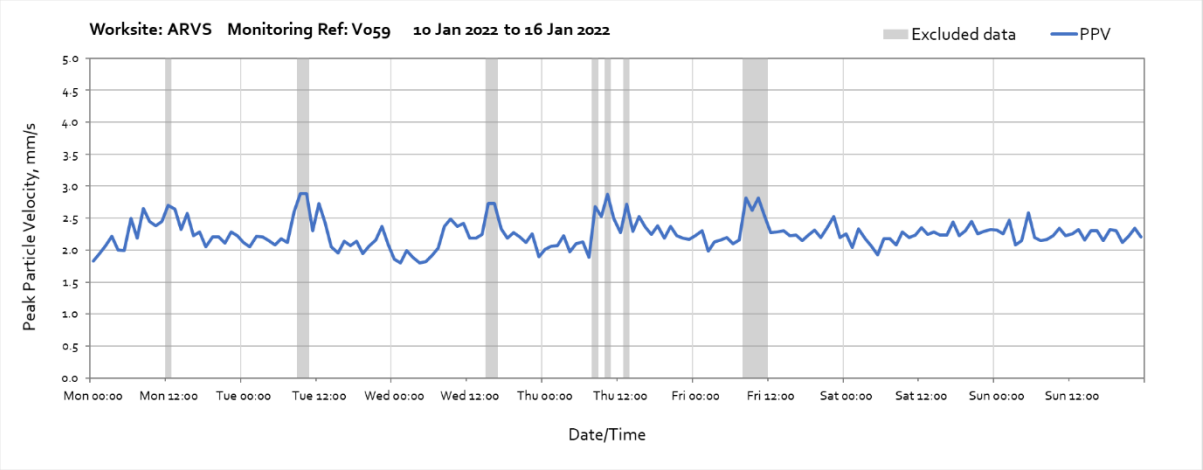
Worksite: ARVS – Monitoring Ref: V059



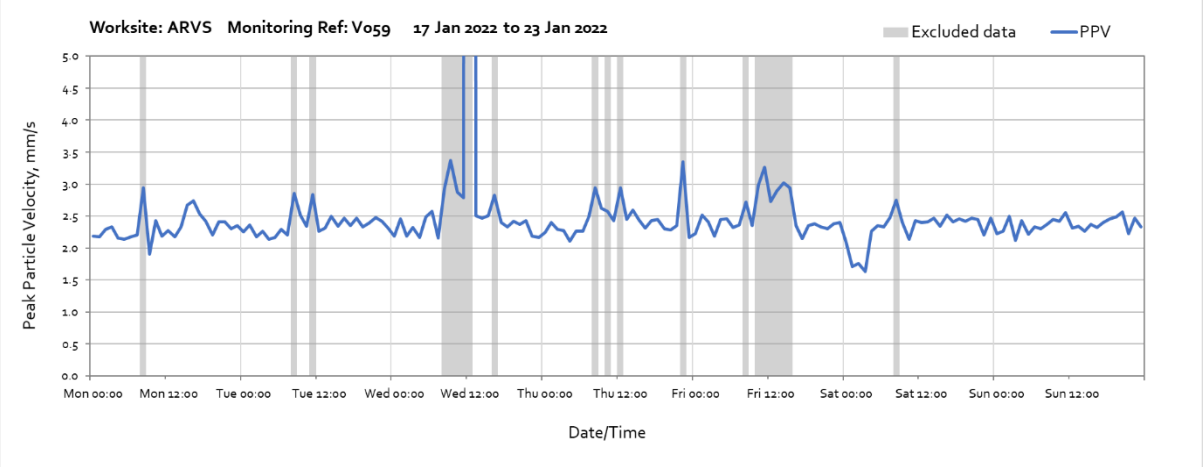
Note: High vibraton levels measured from 11:00 until 12:00 on Saturday 1st January and from 20:00 until 22:00 on Sunday 2nd January were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



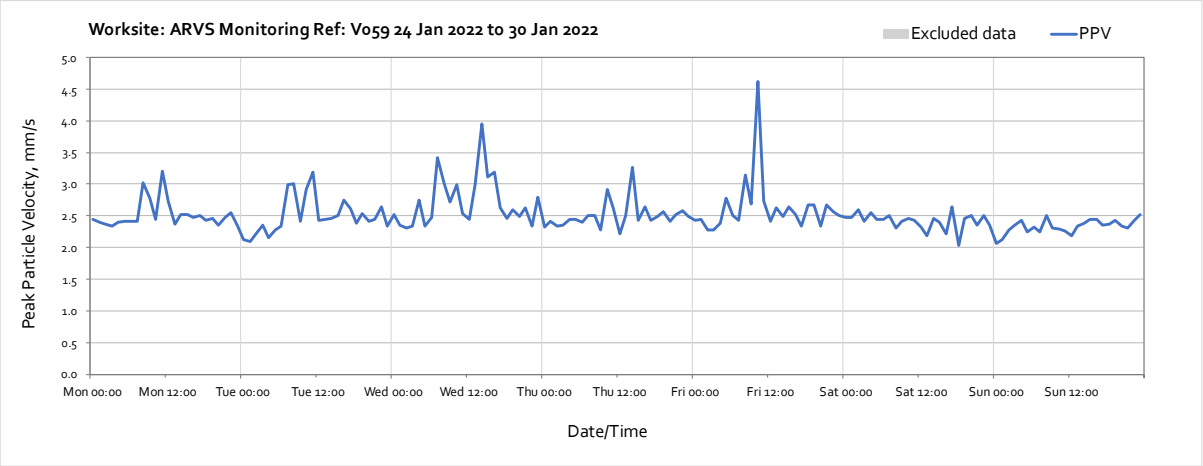
Note: High vibraton levels measured from 11:00 until 12:00 on Friday 7th January was due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

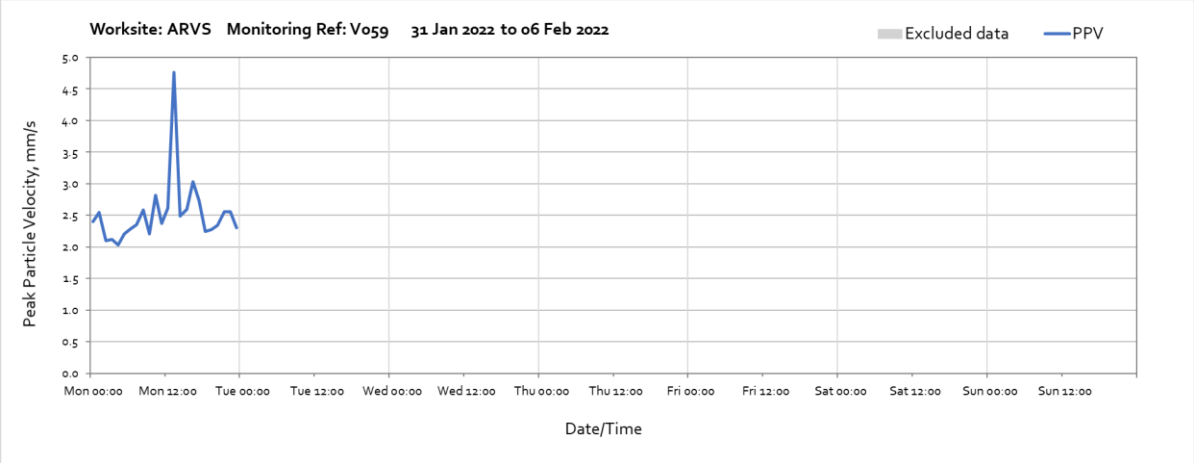


Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

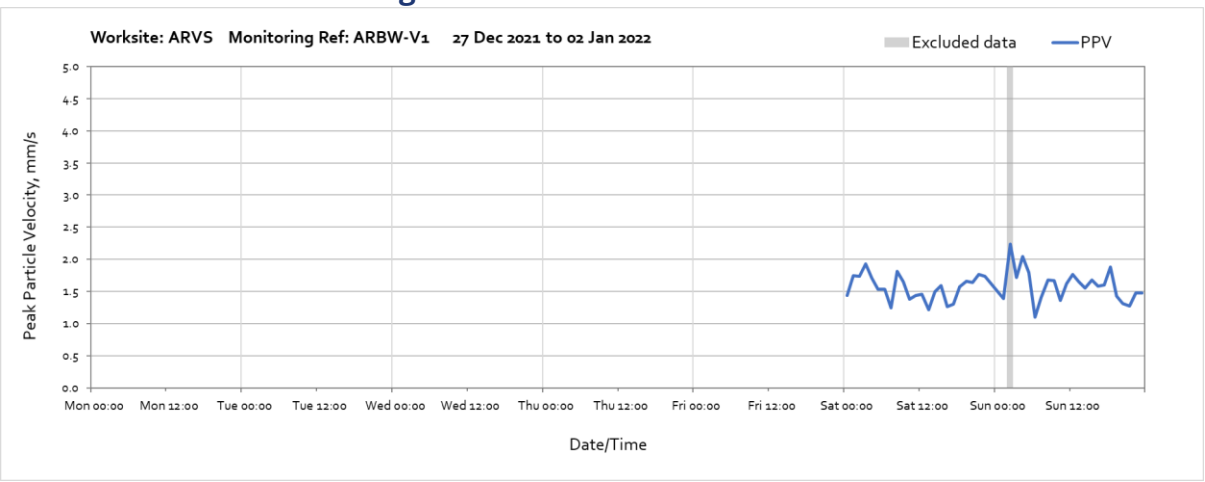


Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.

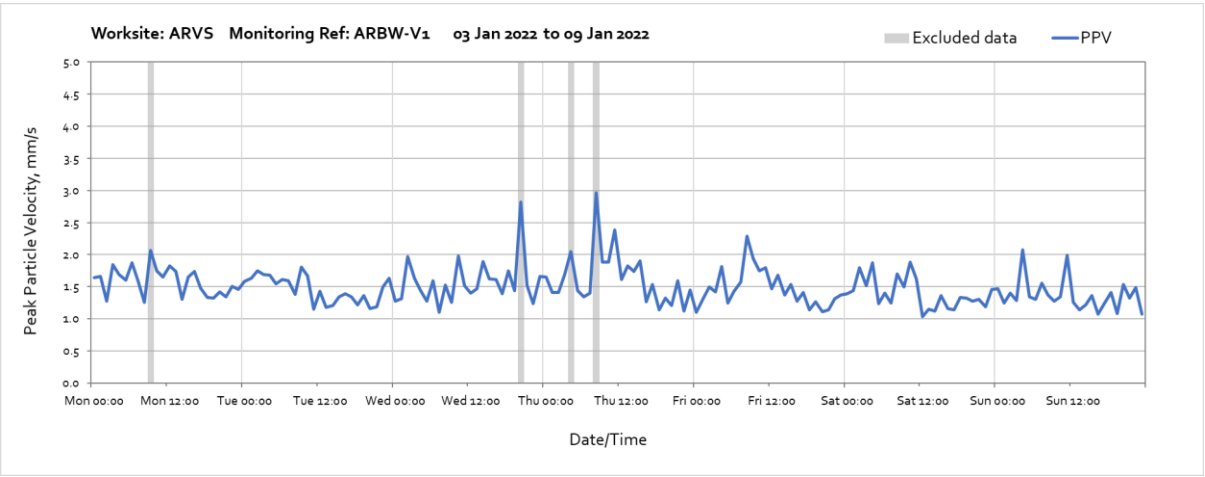




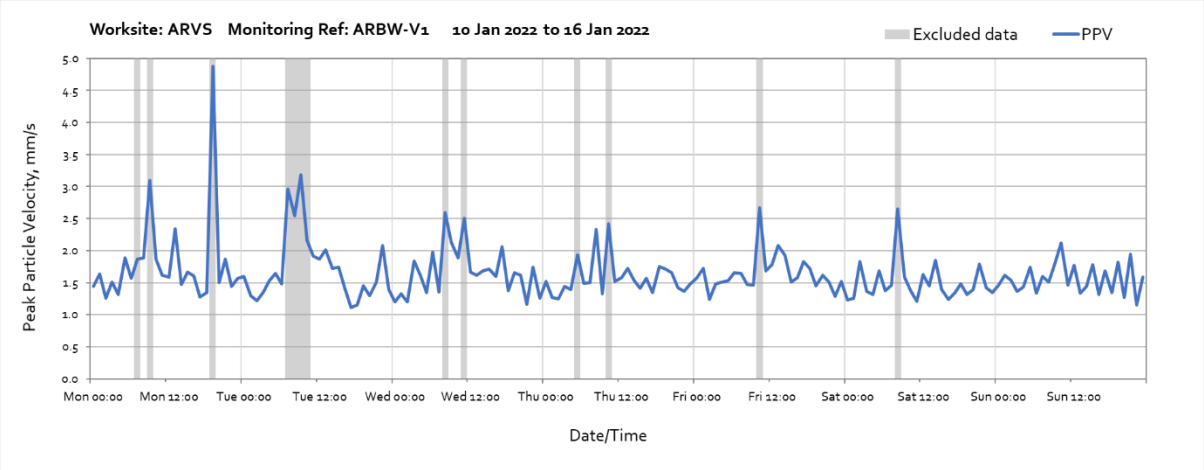
Worksite: ARVS – Monitoring Ref: ABRW-V1



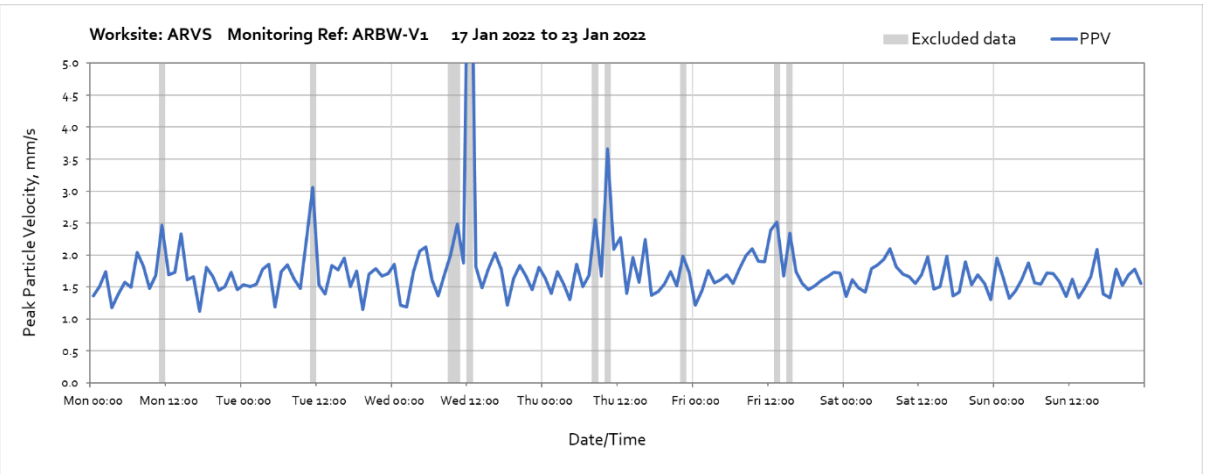
Note: High vibration levels measured from 02:00 until 03:00 on Sunday 2nd January was due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



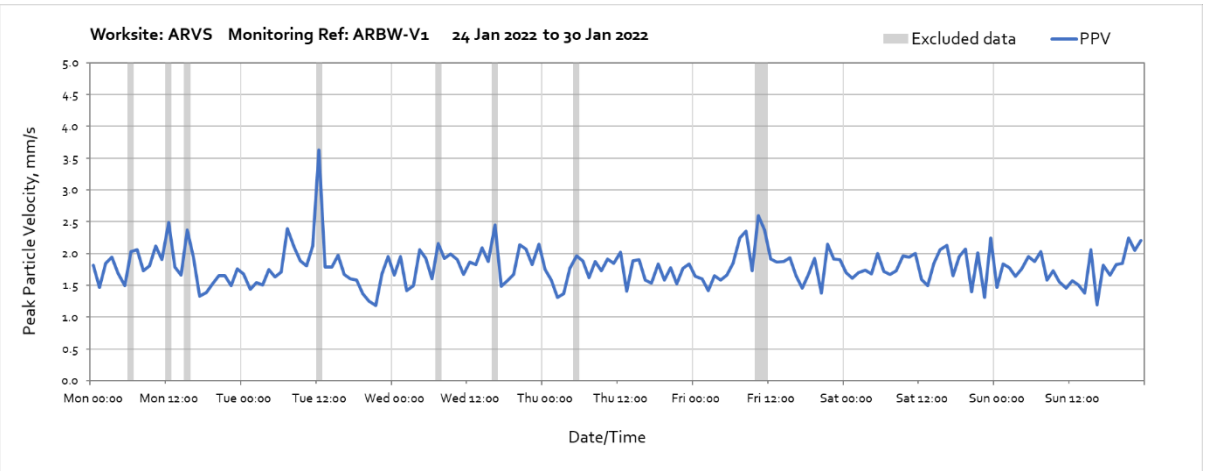
Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



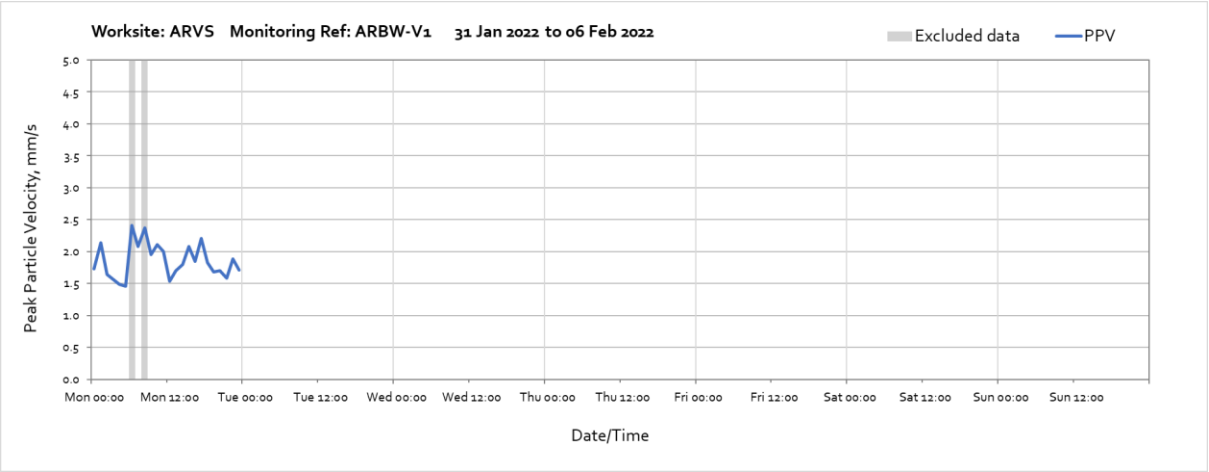
Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



Note: High vibraton levels measured throughout the week were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.



Note: High vibraton levels measured from 06:00 until 07:00 and 08:00 until 09:00 on Monday 31st January were due to local interference of the monitor and are not representative of HS2 vibration levels at the receptor.