HS2

December 2025

Construction Noise and Vibration Monthly Report – October 2025

Warwick District Council

List of Tables

Non-Technical Summary

This Noise and Vibration Monitoring Report fulfils HS2 Limited's commitment detailed in the Environmental Minimum Requirements (EMRs), Annex 1, Code of Construction Practice, to present the results of noise and vibration monitoring carried out within Warwick District Council (WDC) area during the month of October 2025.

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

- Burton Green Tunnel worksite (ref.: BGT), where steel fixing, tunnel works, demolition, and concrete pours were underway.
- Burton Green Tunnel South Portal worksite (ref.: BSP), where landscape filling and structural works were underway.
- Bockenden Cutting worksite (ref.: BC), where site maintenance and fire structural works were underway.
- Kenilworth Road Overbridge worksite (ref.: A429), where cutting works, dig and replace, excavation and concrete crushing were underway.
- A46 Compound and Dalehouse Lane worksite (ref.: A46C & DHL) where construction of glass house and footbridge, road sweeping and vehicle movements were underway.
- Stoneleigh Village worksite (ref.: SV), where road realignment works were underway.
- Stoneleigh Park worksite (ref.: SP), where overbridge construction, deck reinforcement, fence relocation and shutter prefabrication were underway.
- Cubbington Road worksite (ref.: C), where formwork, shutter installation, wingwall works, gabion basket installation, wall reinforcement and vegetation clearance were underway.
- Offchurch Cutting worksite (ref.: OC), where earthworks, and deliveries were underway.

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

There were no exceedance(s) of trigger levels as defined in section 61 consents during the reporting period.

One (1) complaint regarding noise and vibration was received by HS2 during the monitoring period.

Abbreviations and Descriptions

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

Table 1: Table of Abbreviations

Acronym/Term	Definition
$L_{Aeq,T}$	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 June 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.

1.1.2 Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the Warwick District Council (WDC) area for the period 1st to 31st October 2025.

1.1.3 Construction sites in the local authority area where noise and vibration monitoring were undertaken during this period include:

- Burton Green Tunnel worksite (ref.: BGT, see plan 1 in Appendix A) where work activities included:
  - Steel fixing.
  - Tunnel works.
  - Concrete pours.
  - Hydro demolition.
- Burton Green Tunnel Southern Portal worksite (ref.: BSP, see plan 1 in Appendix A) where work activities included:
  - Landscape filling.
  - Structural works.
- Bockenden Cutting worksite (ref.: BC, see plan 1 in Appendix A), where work activities included:
  - Site maintenance.

    - Fire tank structure works.
- A429 Kenilworth Road Overbridge worksite (ref.: A429, see plan 2 in Appendix A), where work activities included:
    - Dig and replace.
    - Concrete crushing.
    - Excavation.
    - Mainline cutting.
- A46 Compound and Dalehouse Lane worksite (ref.: A46C & DHL, see plan 3 in Appendix A), where work activities included:
    - Construction of glass house cutting and footbridge, including earthworks.
    - Earthworks.
    - Vehicle movements.
    - Road sweeping.
- Stoneleigh Village worksite (ref.: SV, see plan 3 in Appendix A), where work activities included:
    - Road realignment works including excavations and road sweeping.
- Stoneleigh Park worksite (ref.: SP, see plan 3 in Appendix A), where work activities included:
    - Overbridge construction.
    - Deck reinforcement.
    - Shutter prefabrication.
    - Fence relocation.
- Cubbington Road worksite (ref.: C, see plan 4 in Appendix A), where work activities included:
    - Formwork.
    - Deck spans fixing.
    - Vegetation clearance.
    - Wall reinforcement.
    - Shutter installation.
    - Wingwalls works including steel fixing, scaffolding and installation of soffits.
    - Installation of gabion basket.

- Offchurch Cutting worksite (ref.: OC, see plan 5 in Appendix A), where work activities included:
    - Earthworks.
    - Deliveries.

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

1.2 Measurement Locations

1.2.1 Nineteen (19) noise and six (6) vibration monitoring installations were installed in June in the WDC area. Table 2 summarises the location of the noise and vibration monitoring installations within the WDC area in October 2025.

1.2.2 An additional noise monitor, ref.: C-N2, was installed at Heathfield, Stonehouse Farm, worksite ref.: C on Tuesday 21st of October.

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

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green
	BGT-N8	301 Cromwell Lane, Burton Green
	BGT-V3	Alms House, Cromwell Lane, Burton Green
	BGT-V11	301 Cromwell Lane, Burton Green
BSP	BSP-N1	33 Broadwell Woods, Red Lane, Burton Green, Kenilworth
BC	BC-N1	Thistle Estate, Red Lane, Burton Green

Worksite Reference	Measurement Reference	Address
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth
	A429-N3	16 Kenilworth Road, Kenilworth
DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth
	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry
SP	SP-N1	Stoneleigh, Kenilworth
	SP-N2	Stoneleigh Park, Kenilworth
	SP-V1	Stoneleigh, Kenilworth
C	C-N1	Wychwood, Cubbington Road, Leamington Spa
	C-N2	Heathfield, Stonehouse Farm, Cubbington
	C-V1	Wychwood, Cubbington Road, Leamington Spa
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch, Leamington Spa
	OC-N2	Valley Fields, Offchurch, Leamington Spa
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch
	FOS-N1	Long Itchington Road, Offchurch
	FOS-V1	Long Itchington Road, Offchurch

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
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green	Free-field	51.4 (54.0)	52.8 (70.0)	48.1 (50.2)	44.3 (59.2)	39.7 (50.2)	49.2 (49.8)	50.9 (51.9)	47.3 (47.6)	48.6 (59.8)	39.1 (47.0)	47.5 (55.0)	38.9 (50.9)
BGT	BGT-N8	301 Cromwell Lane, Burton Green	Free-field	45.3 (49.3)	54.3 (59.8)	44.2 (52.1)	41.4 (51.8)	37.3 (58.6)	41.6 (44.7)	53.9 (55.7)	42.6 (46.2)	49.4 (72.9)	38.3 (46.1)	43.2 (49.6)	37.3 (45.1)
BSP	BSP-N1	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	Free-field	46.1 (50.5)	55.2 (61.5)	45.3 (54.8)	41.2 (53.5)	38.2 (53.7)	41.7 (44.7)	50.0 (52.9)	42.2 (45.2)	48.1 (65.9)	38.9 (47.1)	43.5 (49.9)	38.5 (44.9)
BC	BC-N1	Thistle Estate, Red Lane, Burton Green	Free-field	42.1 (50.0)	45.1 (66.6)	41.0 (47.0)	38.3 (71.7)	35.4 (49.2)	41.1 (44.4)	40.8 (44.8)	40.9 (42.5)	43.0 (52.8)	36.3 (45.2)	40.7 (46.5)	35.4 (45.1)

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
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth	Free-field	51.1 (54.4)	53.7 (63.2)	53.4 (56.0)	51.2 (56.2)	48.6 (58.2)	47.8 (49.5)	52.0 (53.6)	55.6 (62.1)	50.1 (52.8)	42.0 (50.8)	49.3 (58.0)	44.4 (52.8)
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	Free-field	50.3 (53.7)	52.2 (55.2)	50.7 (53.1)	48.6 (53.2)	45.2 (54.0)	47.2 (48.4)	51.1 (52.2)	50.0 (51.3)	52.5 (71.1)	41.9 (48.8)	48.1 (53.6)	42.9 (48.7)
	A429-N3	16 Kenilworth Road, Kenilworth	Free-field	59.5 (61.4)	59.2 (62.1)	59.4 (62.0)	57.6 (61.1)	51.8 (58.8)	56.0 (56.4)	59.8 (60.7)	59.5 (60.2)	58.1 (60.5)	52.3 (59.3)	58.2 (62.8)	51.4 (59.4)
DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth.	Free-field	54.3 (57.3)	57.2 (61.1)	52.4 (55.4)	51.4 (61.2)	46.5 (54.3)	47.1 (48.9)	49.5 (50.0)	50.0 (50.6)	49.6 (53.8)	44.8 (47.9)	48.7 (55.8)	45.4 (54.1)
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	Free-field	61.2 (65.0)	62.3 (66.7)	59.7 (64.6)	58.5 (62.9)	55.2 (63.6)	57.3 (59.0)	62.5 (63.4)	60.6 (63.2)	56.9 (63.8)	52.8 (58.2)	57.6 (64.9)	54.1 (63.2)
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth	Free-field	55.9 (60.9)	55.6 (61.7)	54.8 (60.9)	53.5 (59.0)	50.4 (59.7)	50.6 (54.4)	53.1 (57.9)	51.1 (57.6)	51.4 (58.2)	46.9 (54.3)	52.7 (64.4)	48.5 (59.4)

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
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry	Free-field	60.9 (65.5)	60.6 (73.2)	58.6 (67.8)	55.8 (68.9)	52.0 (62.0)	56.7 (58.3)	59.4 (61.5)	59.7 (62.2)	58.4 (63.0)	54.2 (65.1)	59.4 (69.2)	55.9 (65.2)
SP	SP-N1	Stoneleigh, Kenilworth	Free-field	53.2 (56.0)	58.2 (61.1)	50.5 (58.3)	48.0 (52.9)	44.9 (53.4)	50.2 (52.9)	55.2 (57.7)	54.6 (57.1)	51.0 (58.4)	43.6 (50.7)	49.8 (54.3)	44.3 (49.9)
	SP-N2	Stoneleigh Park, Kenilworth	Façade	55.5 (57.0)	58.0 (66.8)	50.4 (54.4)	46.7 (52.8)	44.5 (54.3)	47.2 (49.2)	53.1 (55.3)	50.9 (52.9)	49.7 (59.9)	41.4 (46.4)	51.7 (65.5)	44.0 (53.8)
C	C-N1	Wychwood, Cubbington Road, Lillington	Free-field	48.3 (53.7)	58.7 (64.5)	43.2 (57.0)	40.1 (54.1)	38.2 (58.8)	45.2 (53.3)	55.6 (59.8)	53.7 (64.4)	47.7 (57.4)	38.1 (48.1)	46.6 (55.0)	39.4 (49.5)
	C-N2	Heathfield, Stonehouse Farm, Cubbington	Free-field	66.9 (68.1)	67.2 (68.3)	64.7 (65.3)	61.7 (63.7)	57.5 (64.5)	62.3 (62.3)	65.6 (65.6)	65.4 (65.4)	62.6 (63.9)	56.0 (59.7)	63.3 (67.1)	56.2 (62.7)

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
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch	Free-field	63.8 (65.3)	63.7 (70.6)	61.0 (62.5)	57.8 (61.1)	52.5 (62.7)	59.2 (60.5)	64.4 (71.8)	61.5 (62.7)	58.9 (61.9)	49.6 (55.1)	58.9 (62.5)	51.9 (59.7)
	OC-N2	Valley Fields, Offchurch	Free-field	52.7 (64.7)	55.4 (65.7)	48.2 (52.2)	47.2 (53.3)	46.4 (56.8)	52.9 (54.7)	55.2 (57.7)	52.1 (58.1)	48.8 (55.3)	45.0 (49.9)	46.1 (51.7)	45.2 (51.3)
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch	Free-field	54.9 (56.5)	54.2 (58.4)	52.5 (58.7)	49.3 (54.8)	45.2 (60.0)	55.7 (69.3)	56.0 (62.5)	58.0 (64.4)	53.5 (61.4)	43.1 (51.1)	54.8 (73.5)	45.0 (52.4)
	FOS-N1	Long Itchington Road, Offchurch	Free-field	47.8 (50.8)	54.3 (65.4)	44.8 (53.1)	43.1 (53.9)	40.1 (53.1)	44.1 (49.2)	56.5 (62.1)	56.4 (67.7)	49.2 (70.8)	38.1 (45.1)	45.4 (53.1)	38.1 (44.2)

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
BGT	BGT-V3	Alms House, Cromwell Lane, Burton Green	5.77 (X-axis)
	BGT-V11	301 Cromwell Lane, Burton Green	2.08 (X-axis)
A46C	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	4.01 (Y-axis)
SP	SP-V1	East Lodge, Stoneleigh	2.02 (Y-axis)
OC	FOS-V1	Long Itchington Road, Offchurch	3.00 (Z-axis)
C	C-V1	Wychwood, Cubbington Road, Lillington	4.77 (X-axis)

2.1.3 Appendix C presents graphs of the noise and vibration monitoring data over the month for each of the measurement locations. Noise data presented consists of the hourly 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 LOAEL and SOAEL

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

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

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

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

2.2.4 Where reported construction noise levels exceed the LOAEL and SOAEL, relevant periods will be identified. Summary statistics to evaluate ongoing qualification for noise insulation and temporary rehousing are also presented where relevant.

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

Table 5: Summary of Exceedances of LOAEL and SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green, Warwick	Weekday	0800-1800	2	No exceedances
	BGT-N8	301 Cromwell Lane, Burton Green, Warwick	All days	All periods	No exceedances	No exceedances
BSP	BSP-N1	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	All days	All periods	No exceedances	No exceedances
BC	BC-N1*	Thistle Estate, Red Lane, Burton Green	Weekday	0800-1800	1	No exceedances

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth	Weekday	0800-1800	1	No exceedances
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	All days	All periods	No exceedances	No exceedances
	A429-N3	16 Kenilworth Road, Kenilworth	All days	All periods	No exceedances	No exceedances
DHL	DHL-N1*	Four Winds, Dalehouse Lane, Kenilworth.	All days	All periods	No exceedances	No exceedances
A46C	A46C-N1*	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	Weekday	0800-1800	1	No exceedances
	A46C-N2*	A46 Barns, Dalehouse Lane, Kenilworth	All days	All periods	No exceedances	No exceedances
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry	Weekday Weekday Weekday Saturday Sunday Night	0800-1800 1800-1900 1900-2200 1400-2200 0700-2200 2200-0700	2 2 2 2 10 4	1 No exceedances 1 No exceedances 3 3
SP	SP-N1*	Stoneleigh Park, Kenilworth	All days	All periods	No exceedances	No exceedances
	SP-N2*	Stoneleigh Park, Kenilworth	All days	All periods	No exceedances	No exceedances
C	C-N1	Wychwood, Cubbington Road, Lillington Spa	Weekday	0800-1800	1	No exceedances
C	C-N2*	Heathfield, Stonehouse Farm, Cubbington	All days	All periods	No exceedances	No exceedances

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
OC	OC-N1*	Welsh Road Farm, Welsh Road, Offchurch	Weekday Saturday	0800-1800 0800-1300	1 1	No exceedances
	OC-N2	Valley Fields, Hunningham Road, Offchurch	Weekday	0800-1800	1	No exceedances
	OC-N3*	Brickyard Cottage, Welsh Road, Offchurch,	All days	All periods	No exceedances	No exceedances
	FOS-N1*	Long Itchington Road, Offchurch	All days	All periods	No exceedances	No exceedances

* Note: A distance correction has been applied while calculating exceedances of the LOAEL and SOAEL.

2.2.6 There were exceedances of the LOAEL due to HS2 construction works at eight (8) monitoring locations during weekday daytime and evening, Saturday morning and afternoon, Sunday and night periods.

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

2.2.8 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
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry	2

2.2.9 There were (2) 24-hour periods where the SOAEL was exceeded due to HS2 construction works during October 2025

2.3 Exceedances of Trigger Level

2.3.1 Table 6 provides a summary of exceedances of the Section 61 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

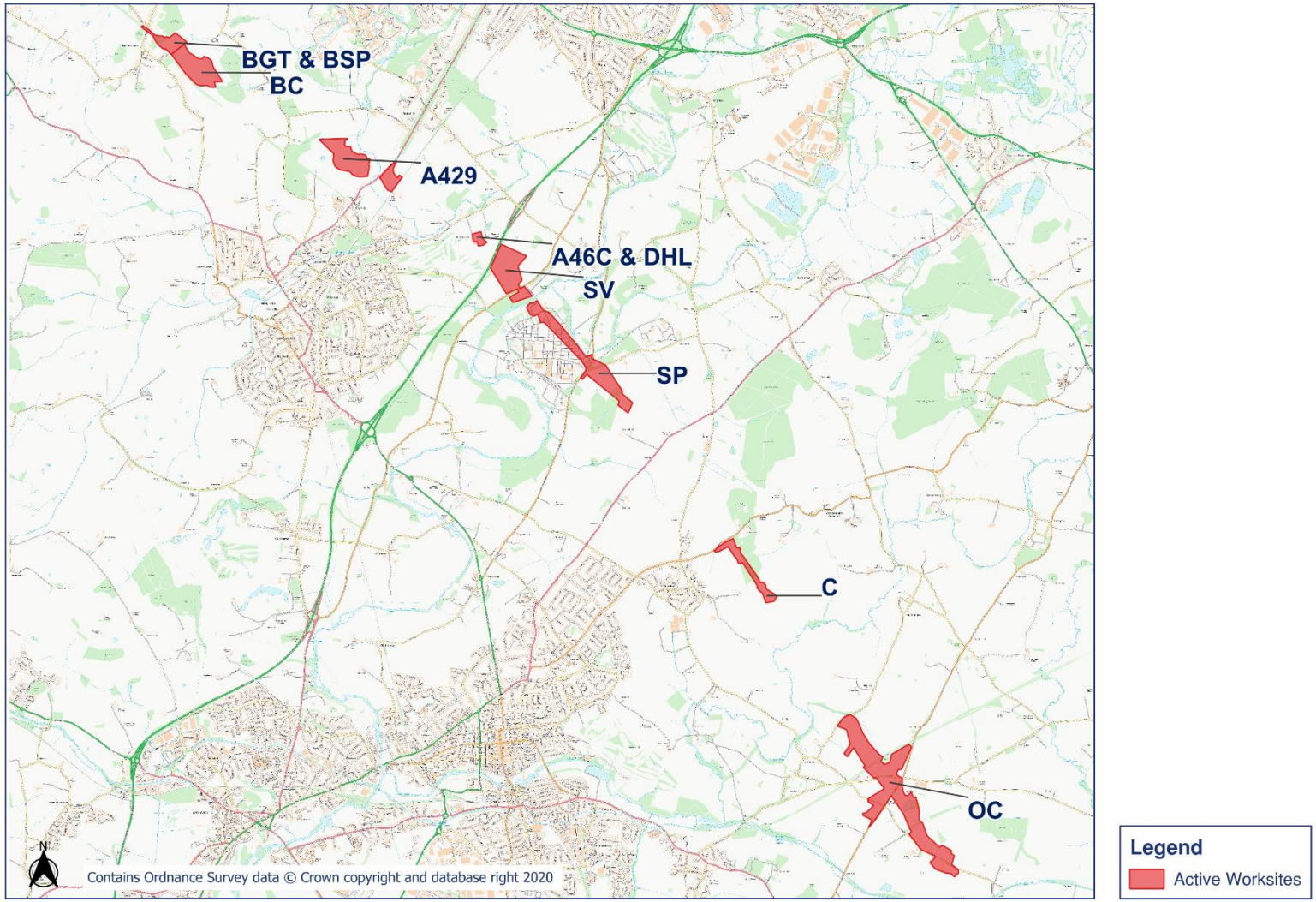
2.4.1 Table 7 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

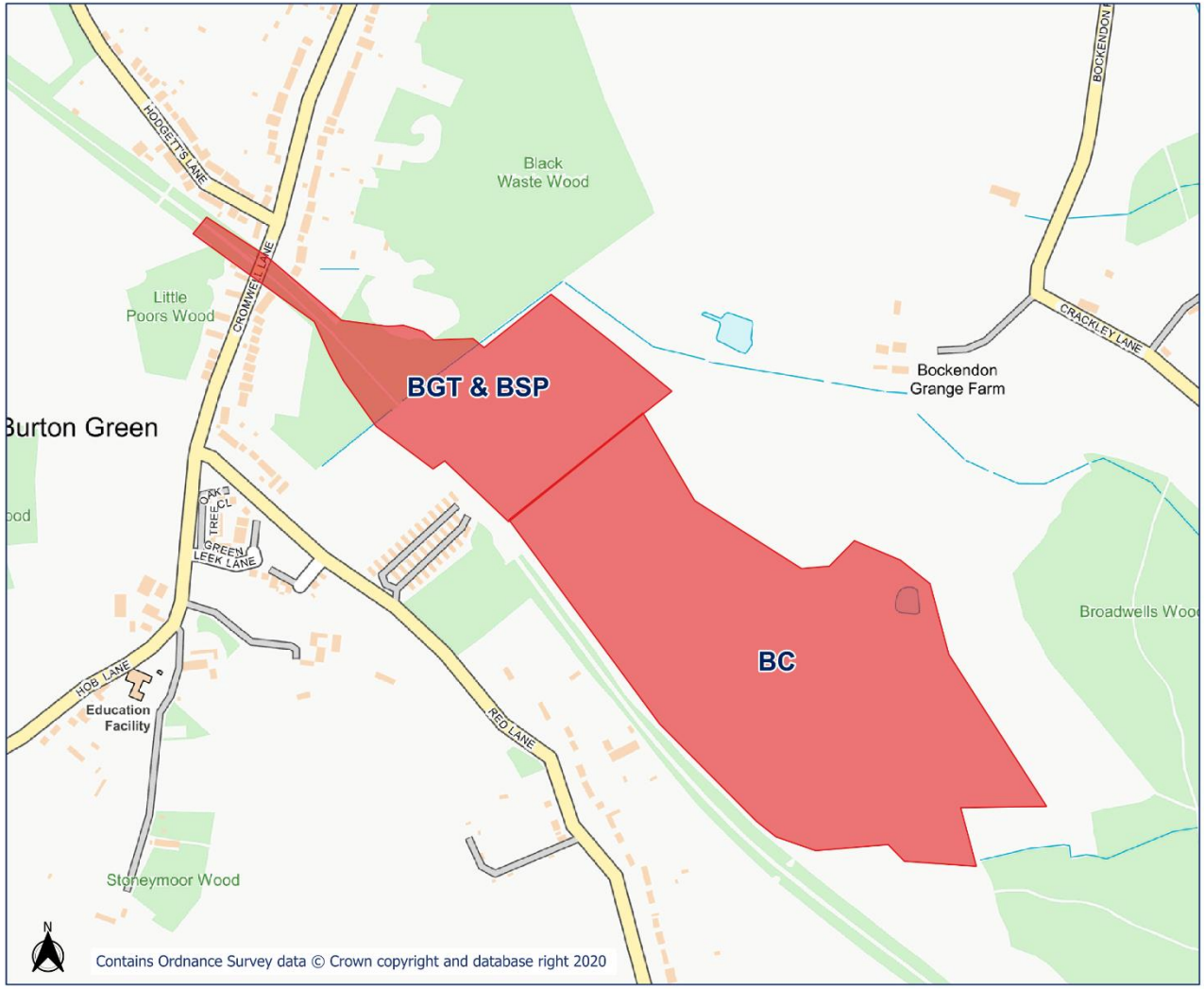
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-46808-C	A46C & DHL	Complaint regarding construction noise in the evening	On-going	On-going

Appendix A Site Locations

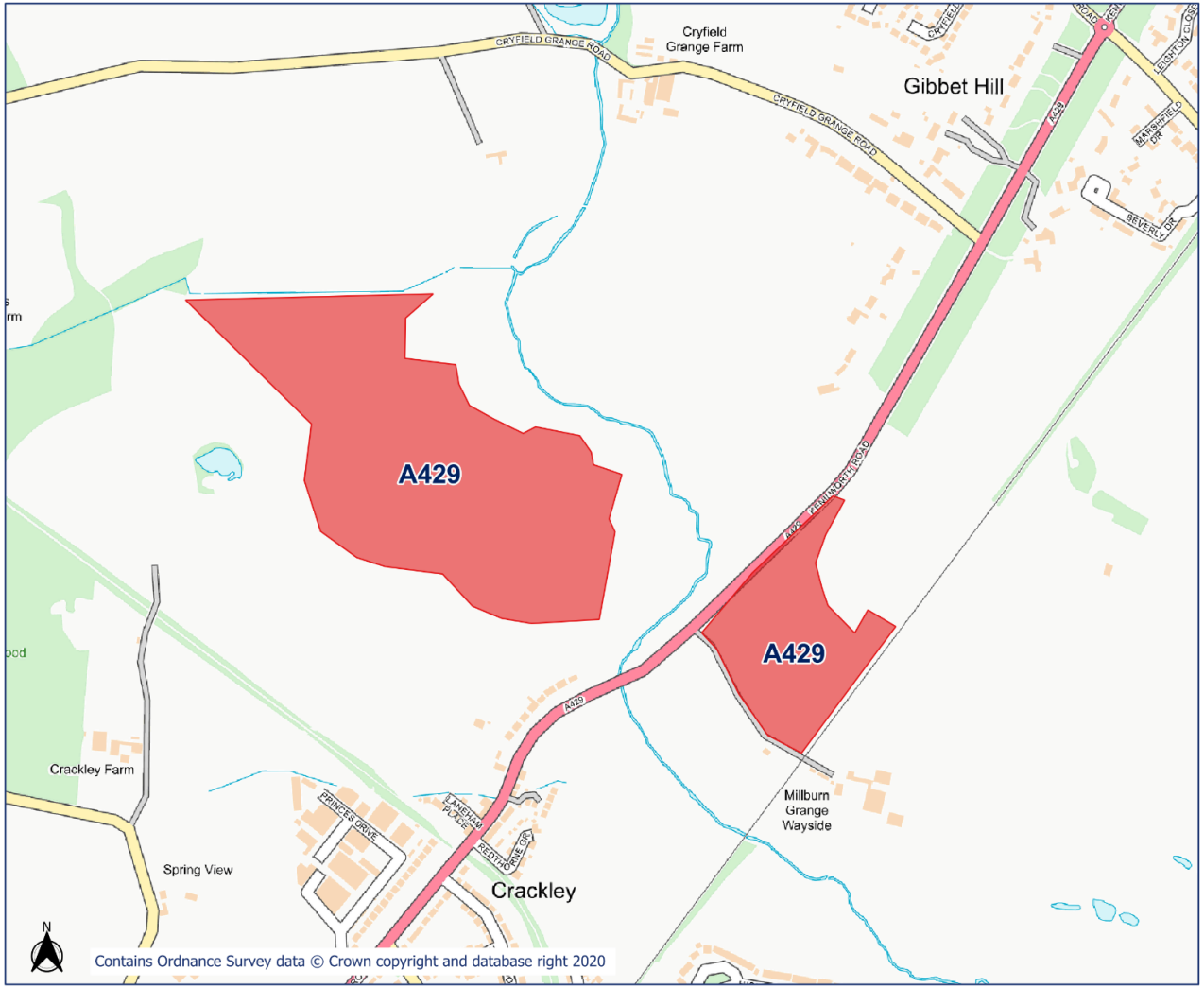
HS2 Worksite Identification Plan - Overview



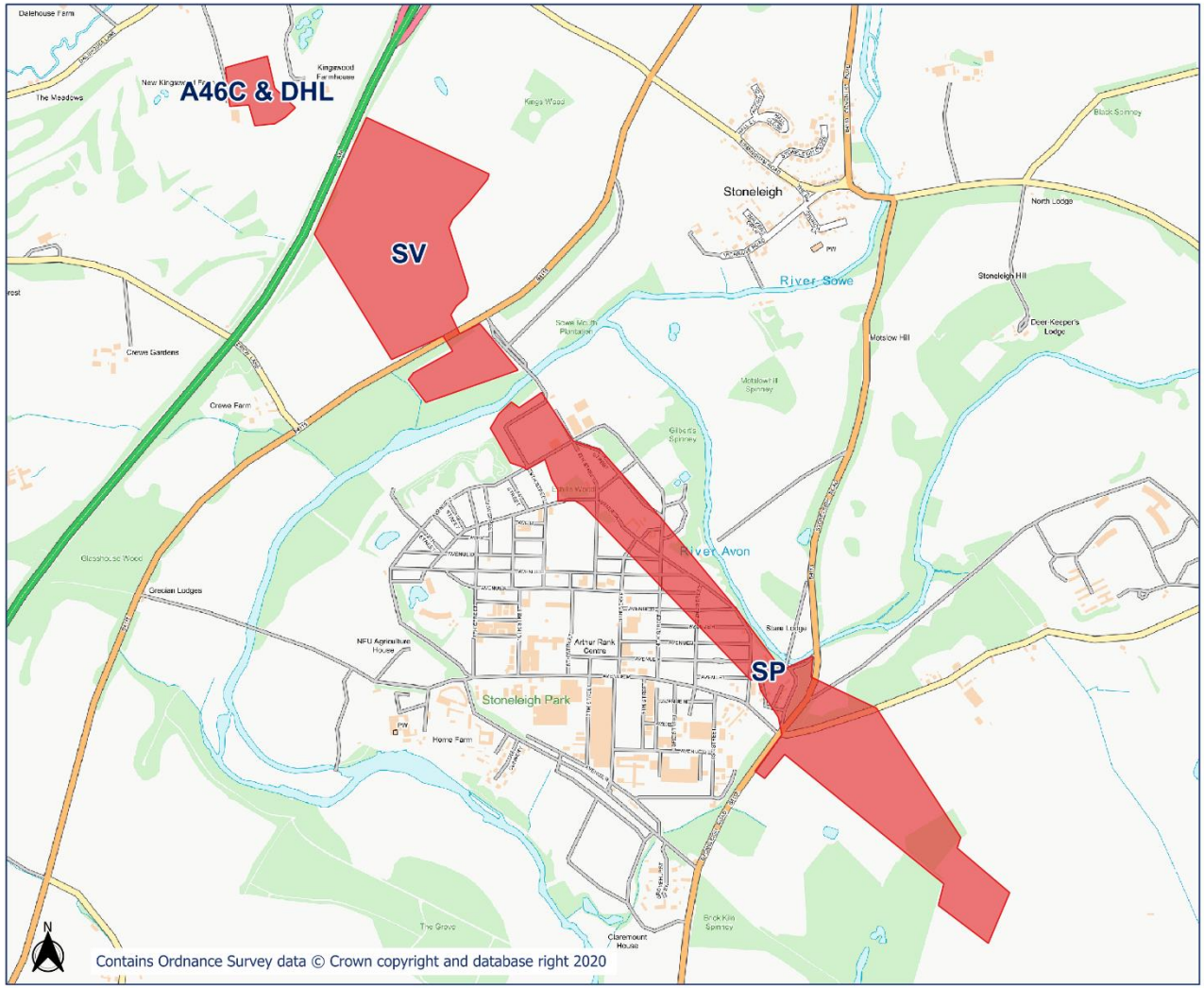
HS2 Worksite Identification Plan - 1



HS2 Worksite Identification Plan - 2



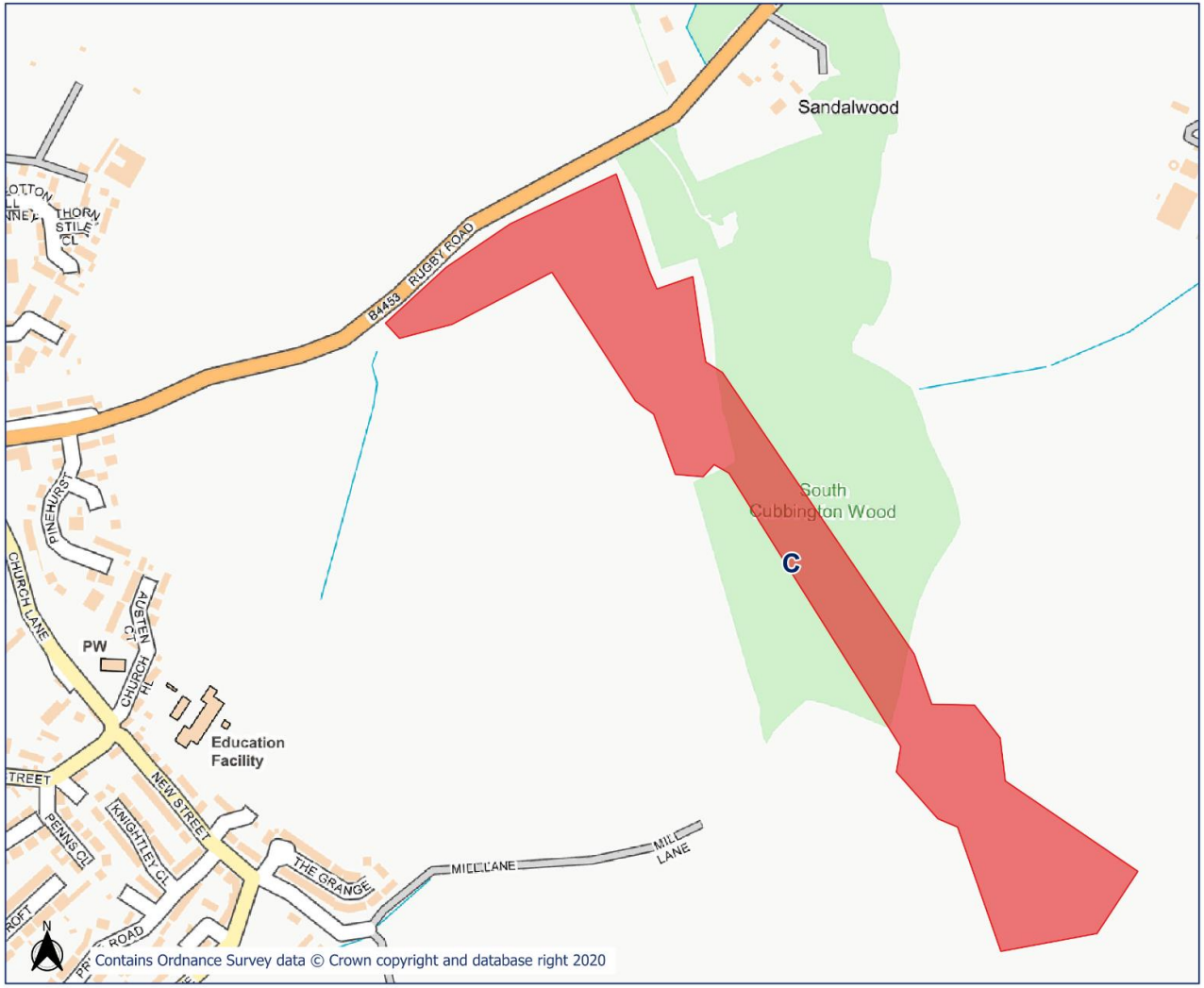
HS2 Worksite Identification Plan - 3



Legend

Active Worksites

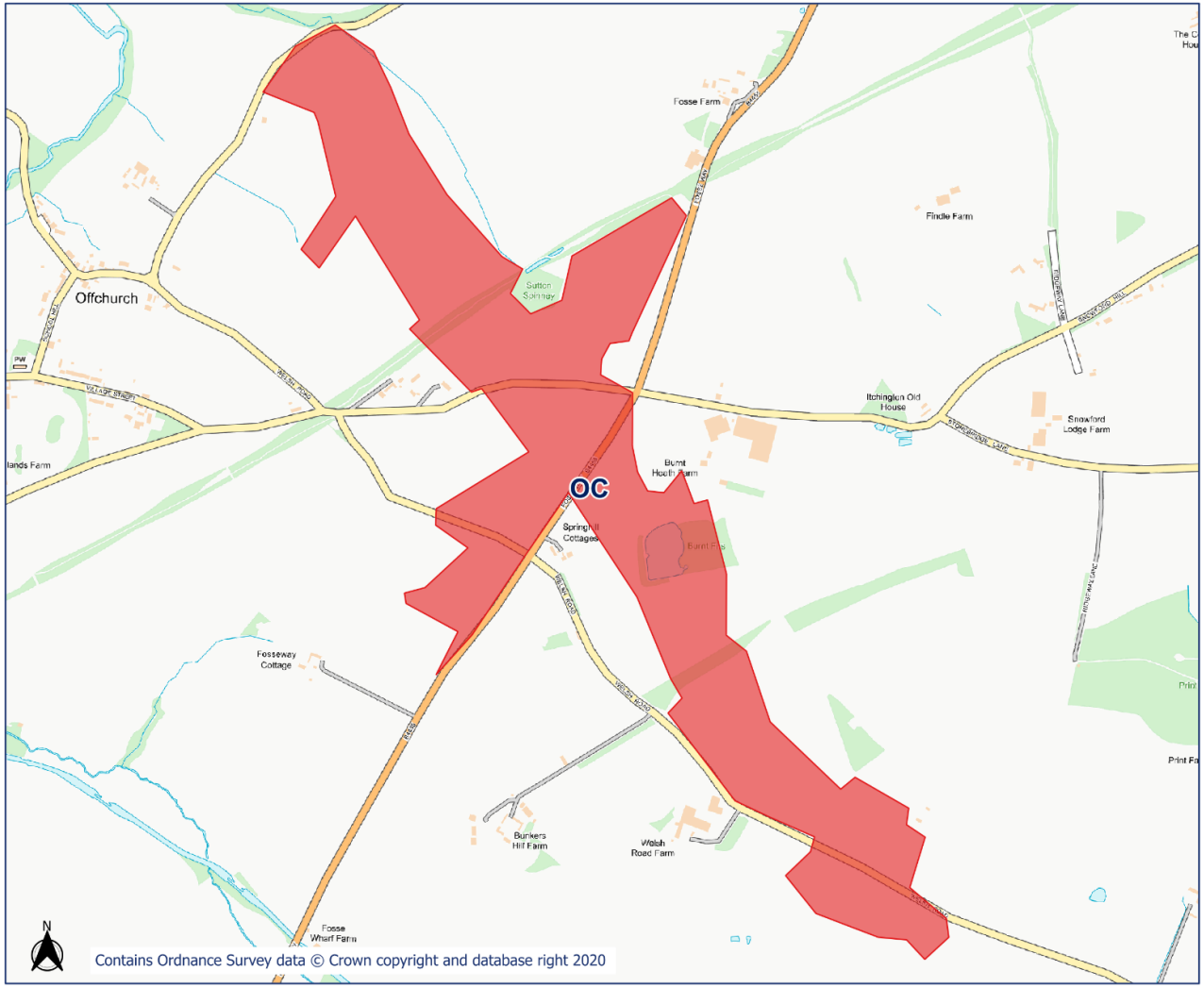
HS2 Worksite Identification Plan - 4



Legend

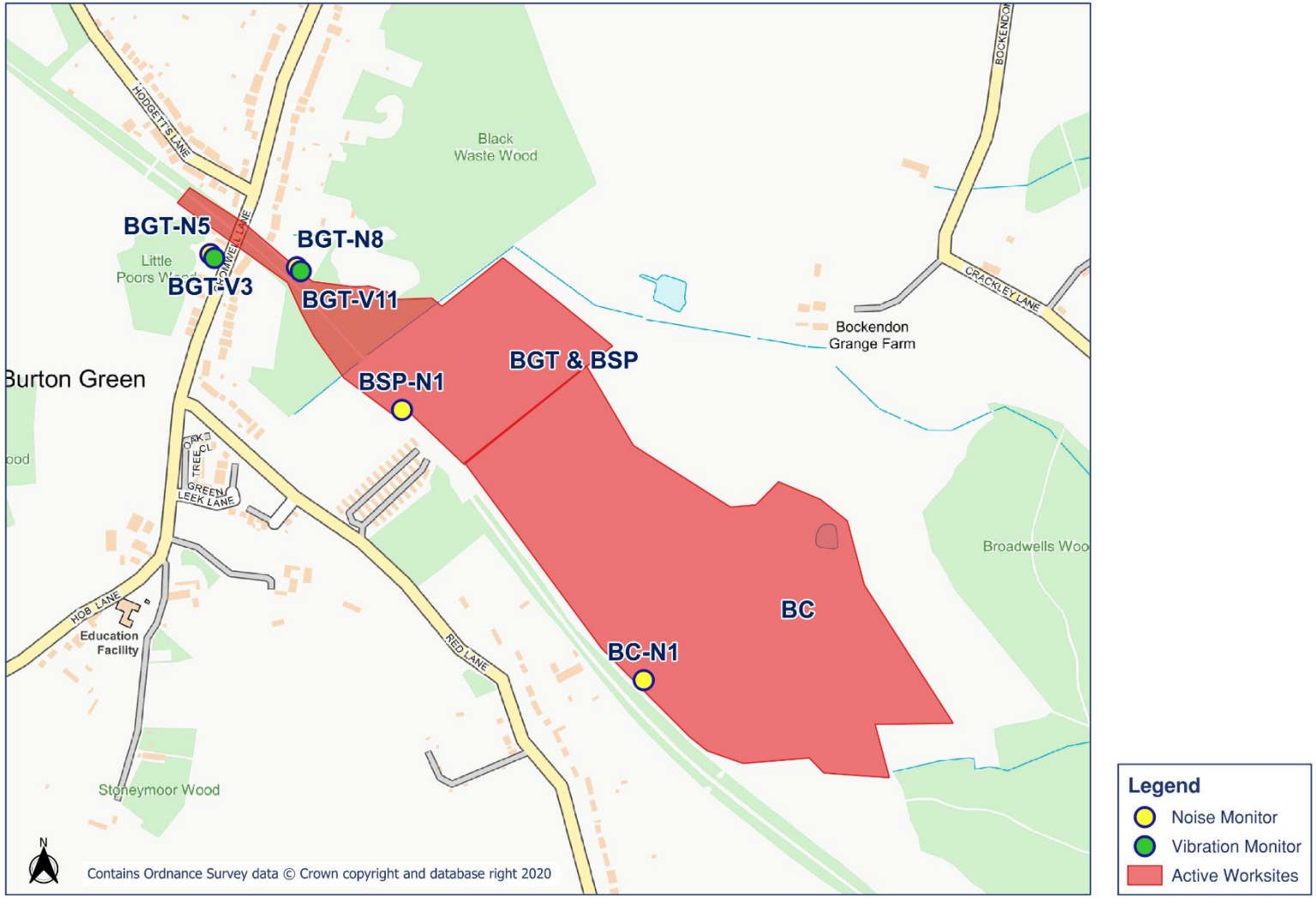
Active Worksites

Worksite Identification Plan - 5

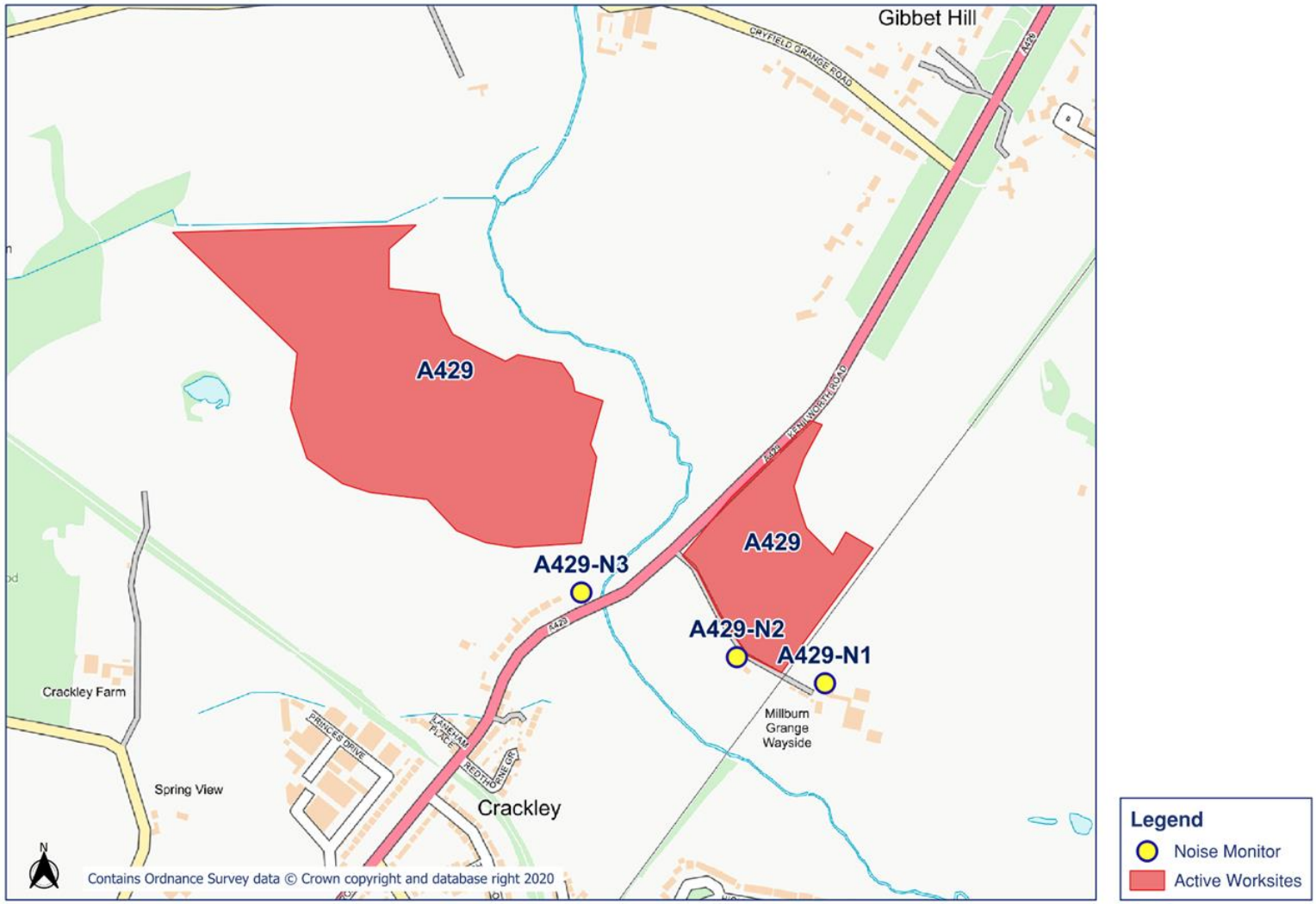


Appendix B Monitoring Locations

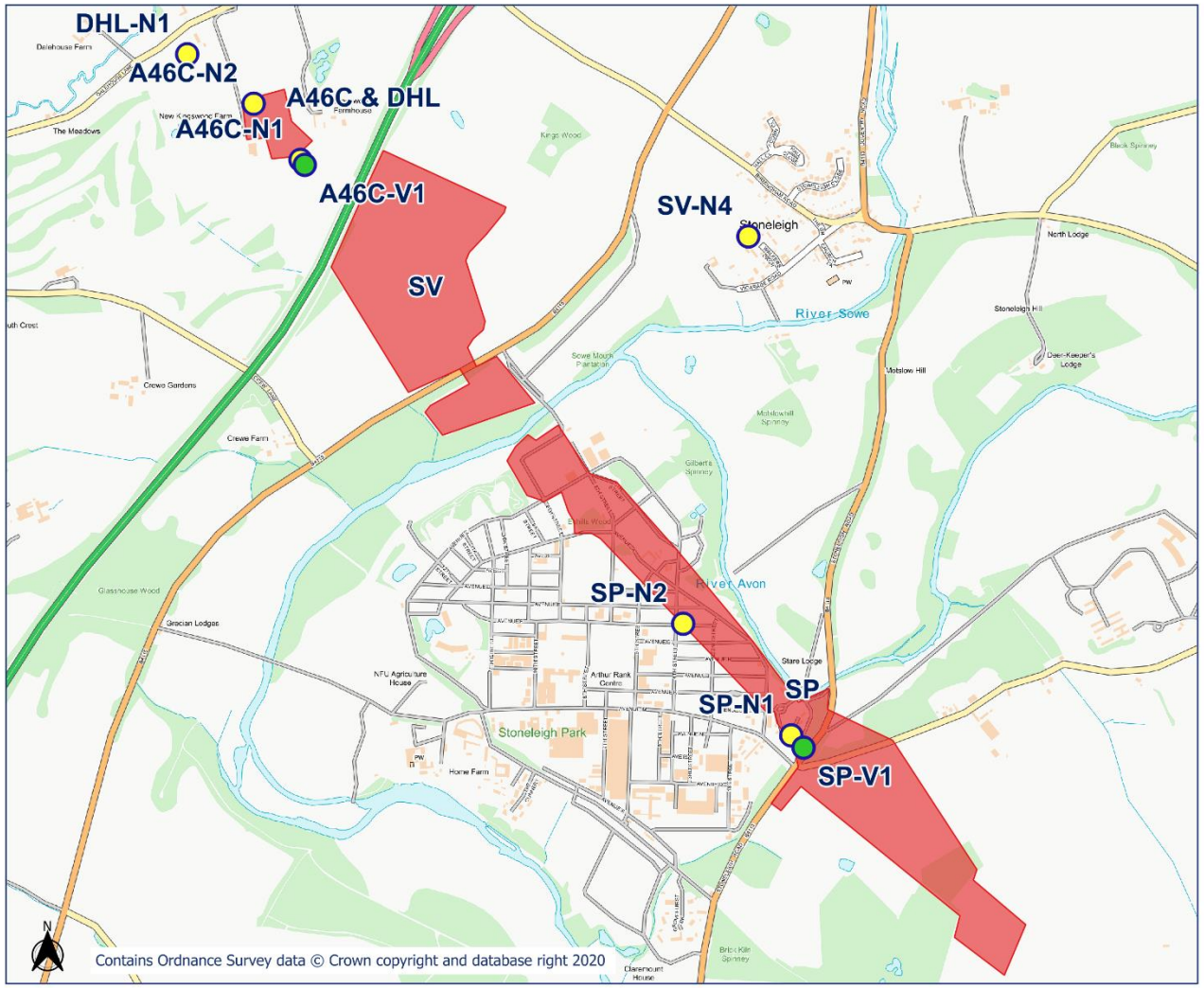
HS2 Noise and Vibration Monitoring Plan - 1



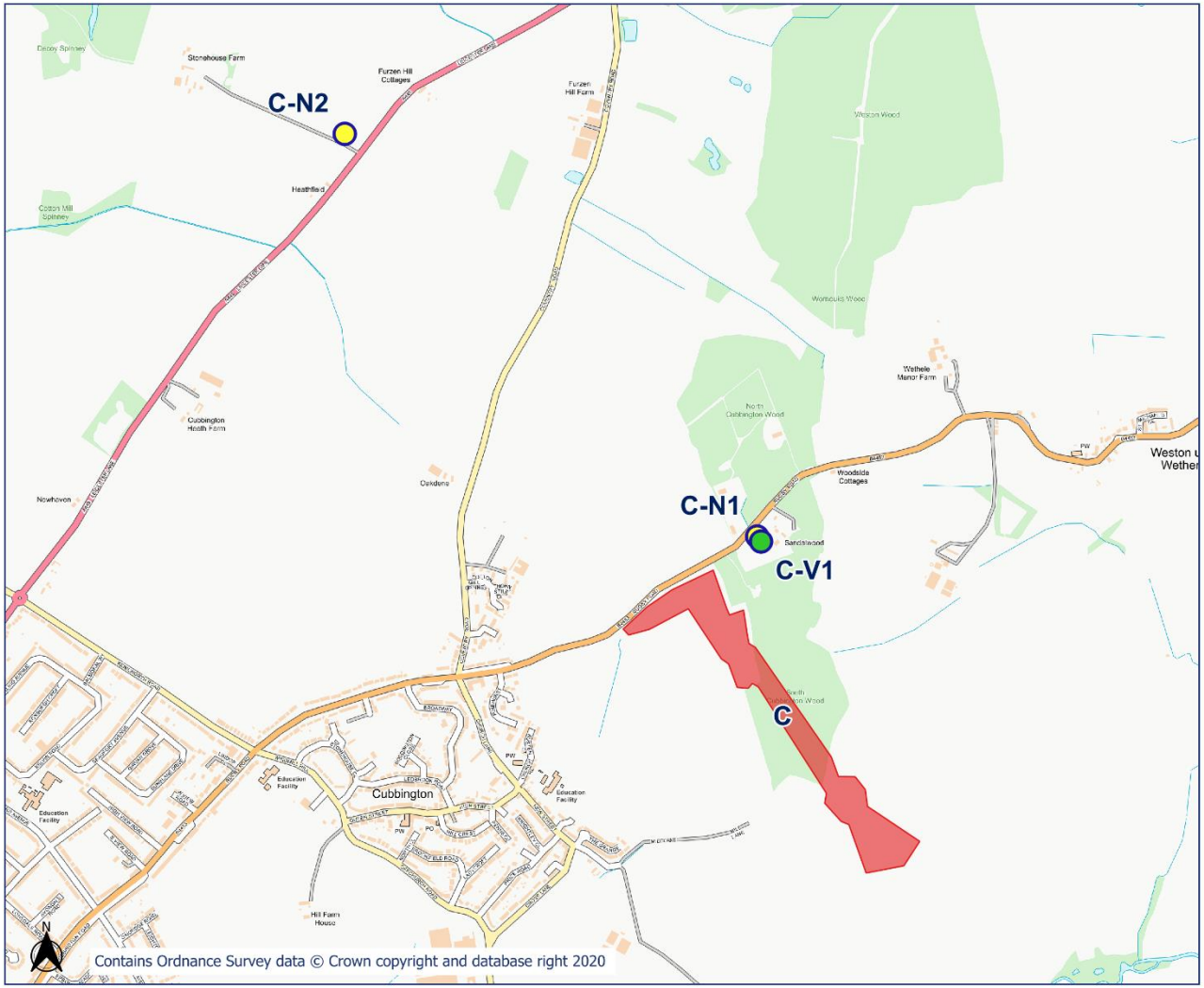
HS2 Noise and Vibration Monitoring Plan - 2



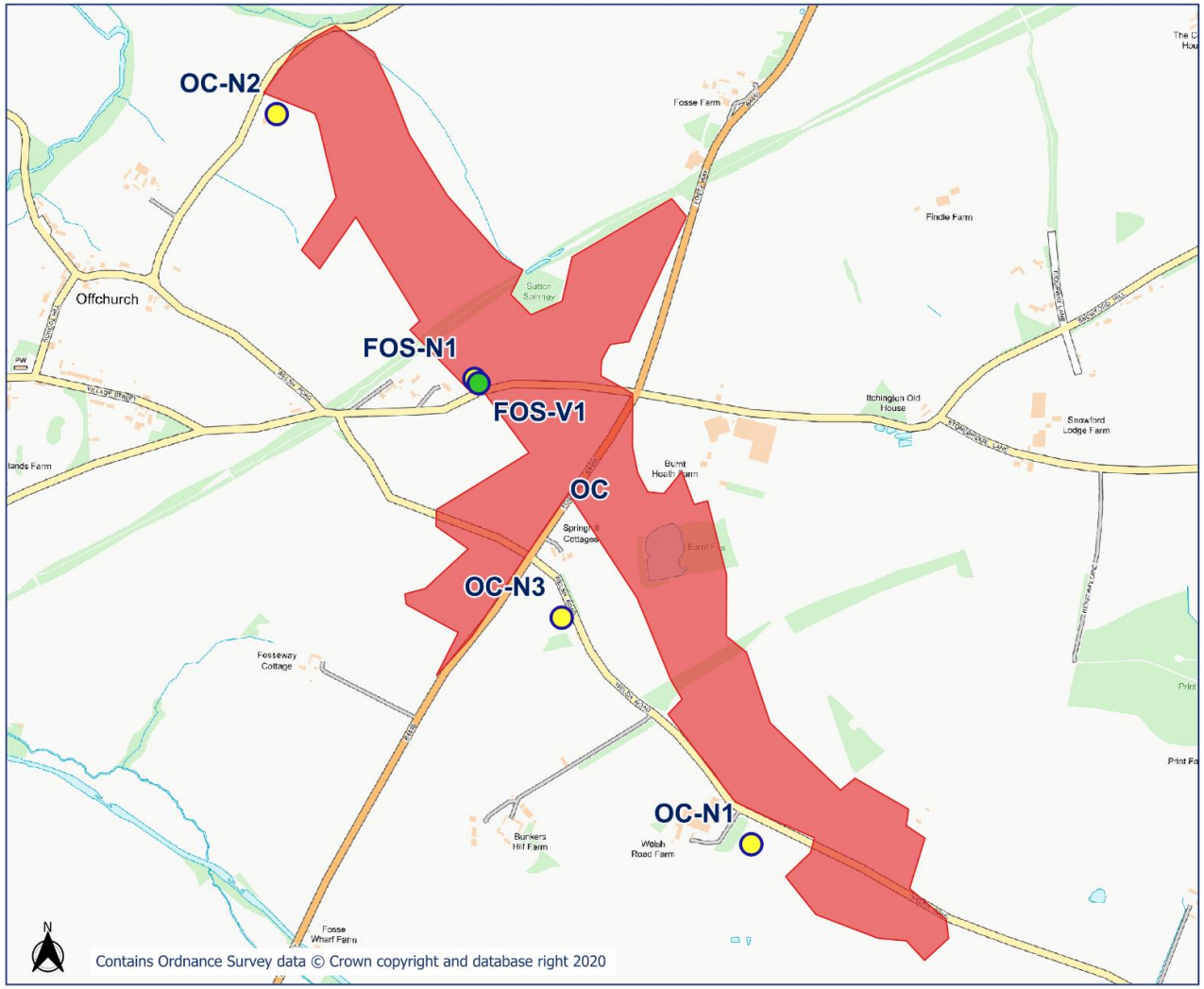
HS2 Noise and Vibration Monitoring Plan - 3



HS2 Noise and Vibration Monitoring Plan - 4



HS2 Noise and Vibration Monitoring Plan - 5

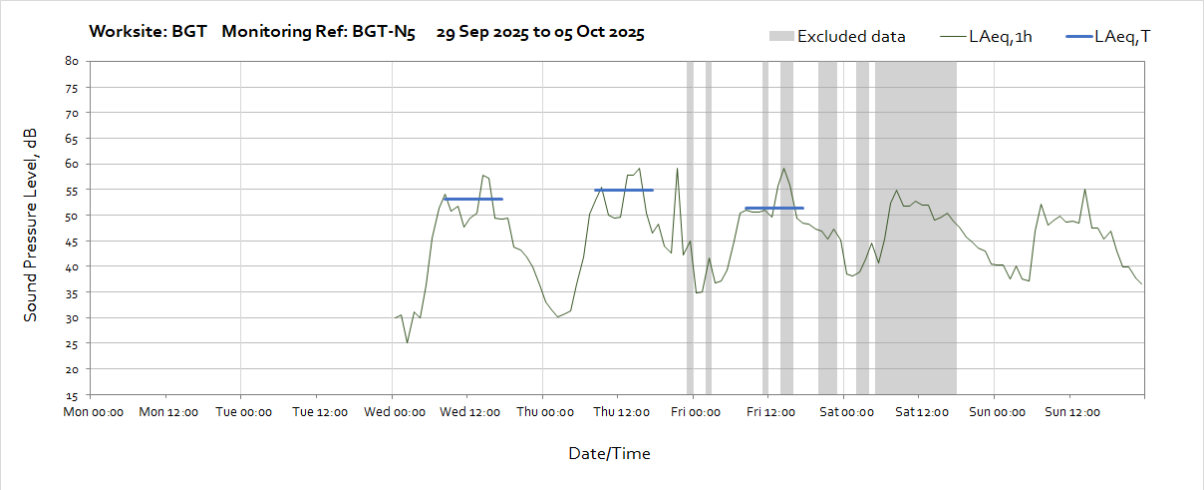


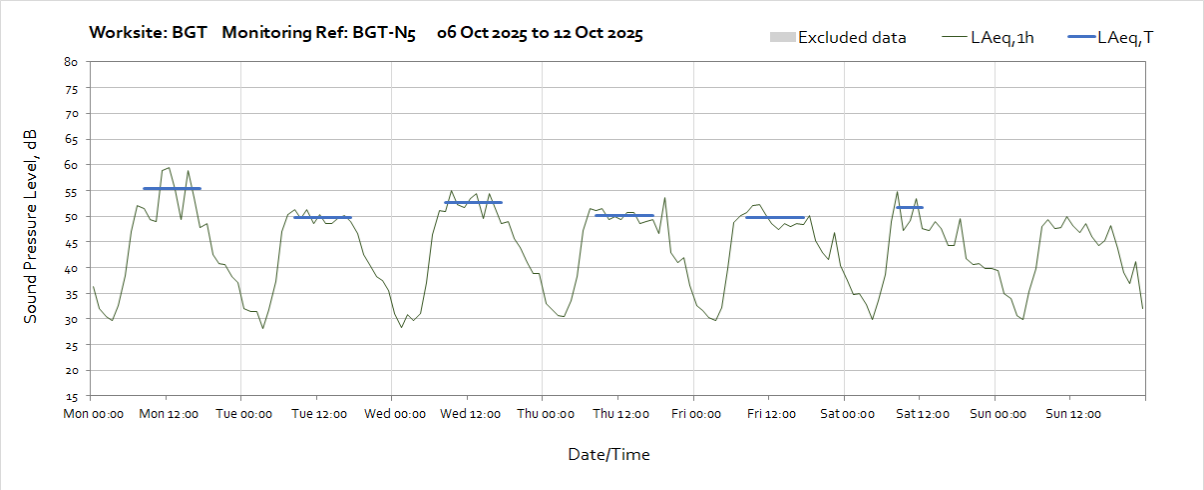
Appendix C Data

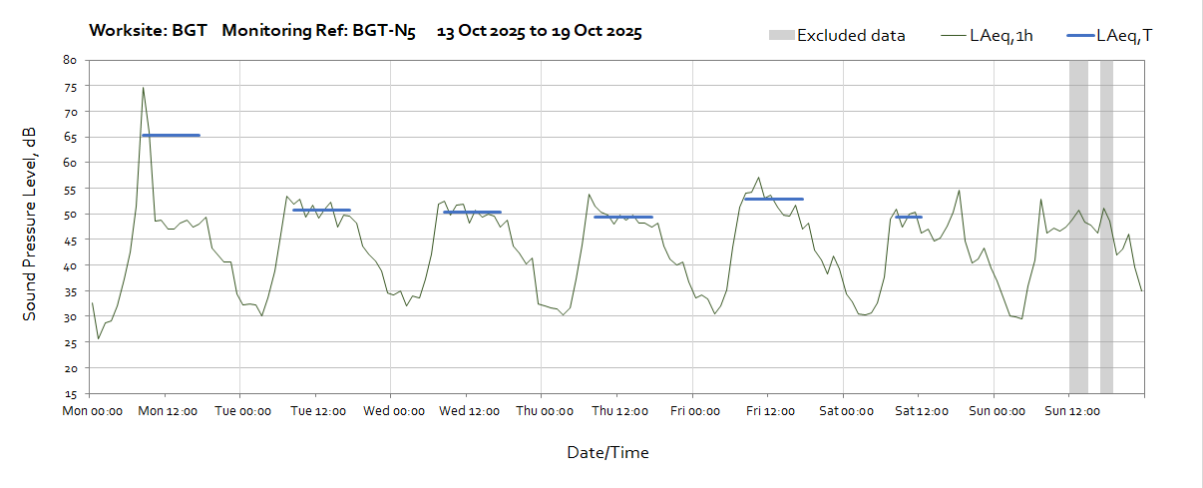
Noise

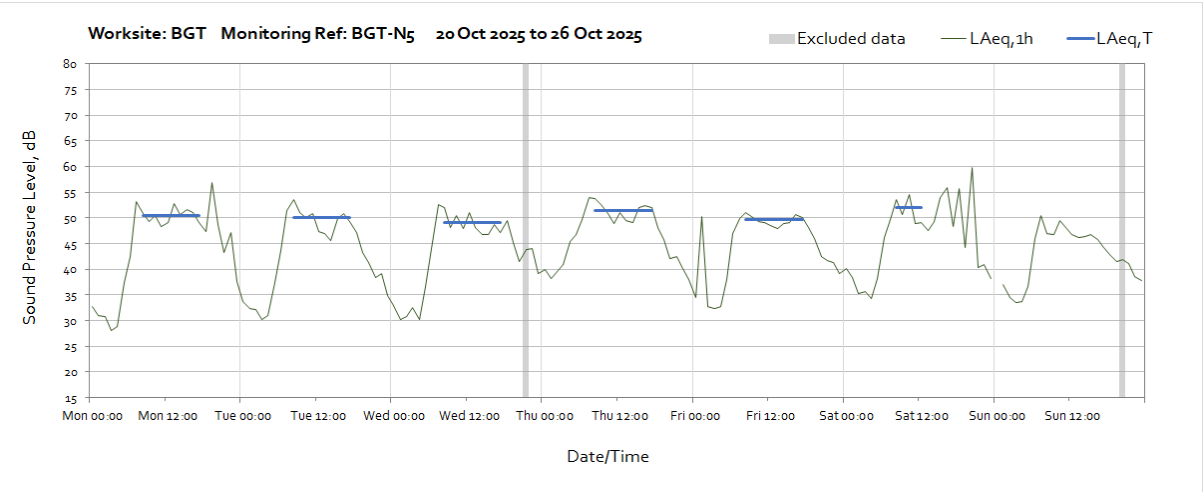
The following graphs show the hourly measured ambient noise level $L_{Aeq,1h}$ and, where relevant, the averaged noise level $L_{Aeq,T}$ values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured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

Worksite: BGT – Monitoring Ref: BGT-N5

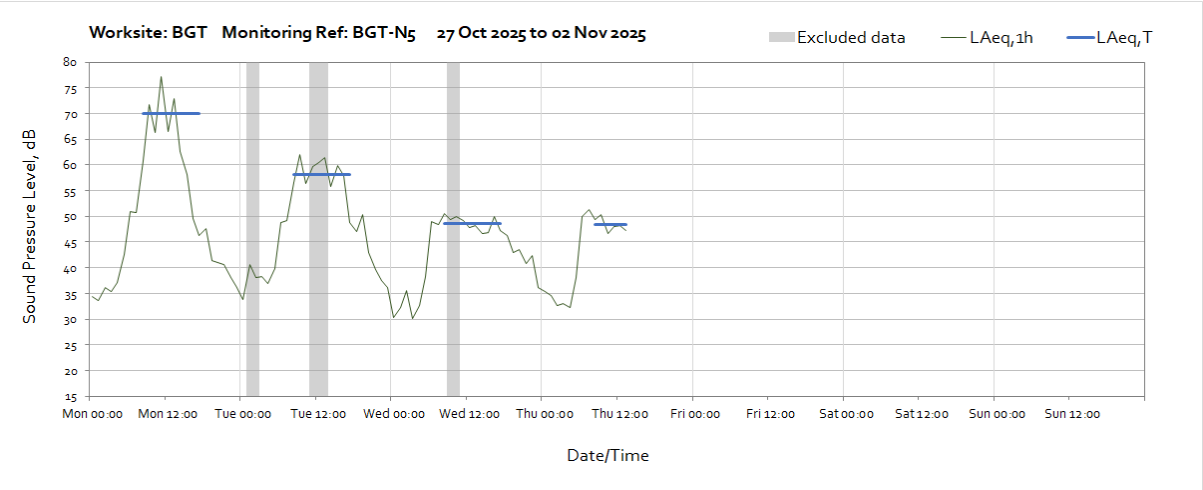






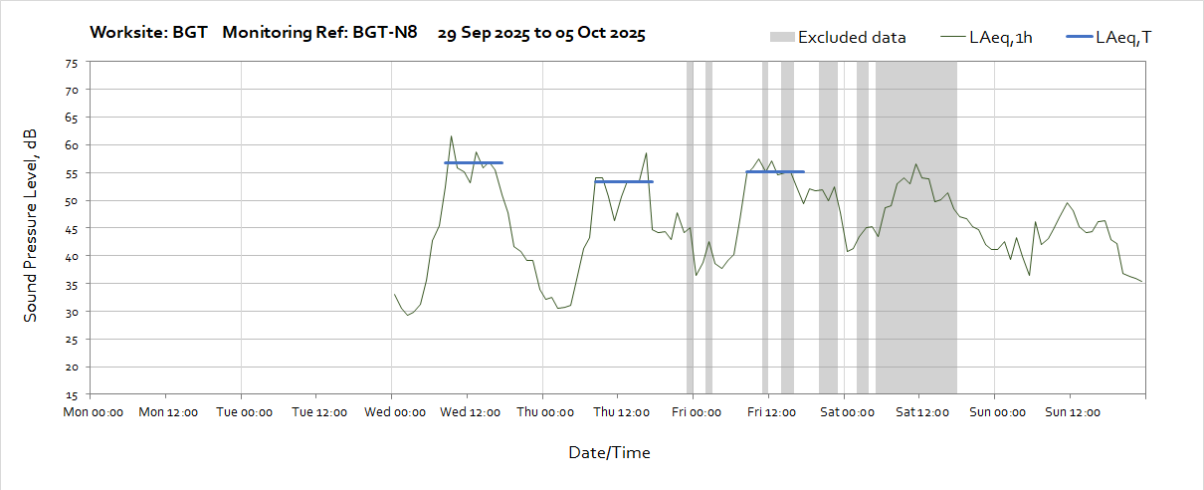


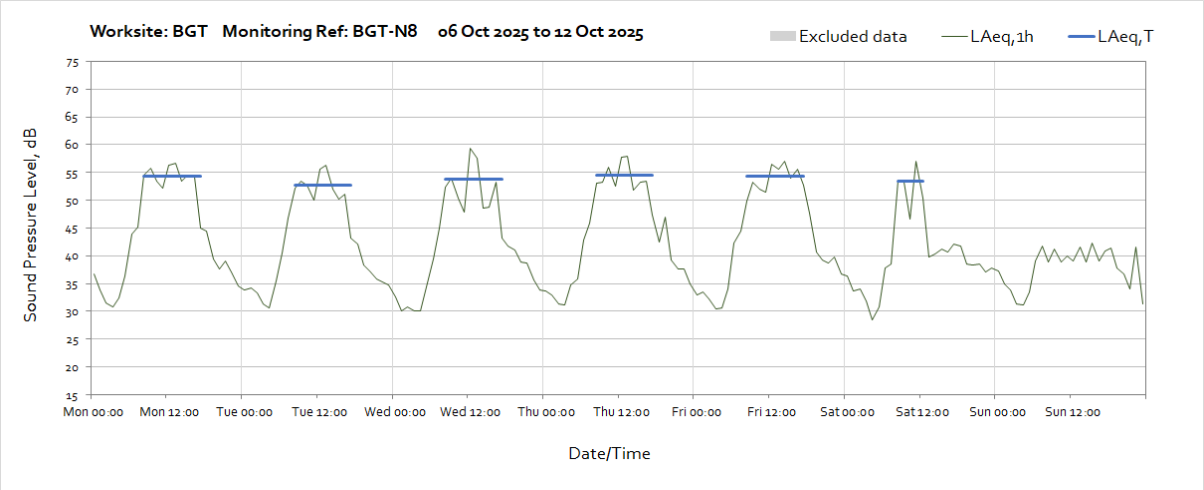
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time

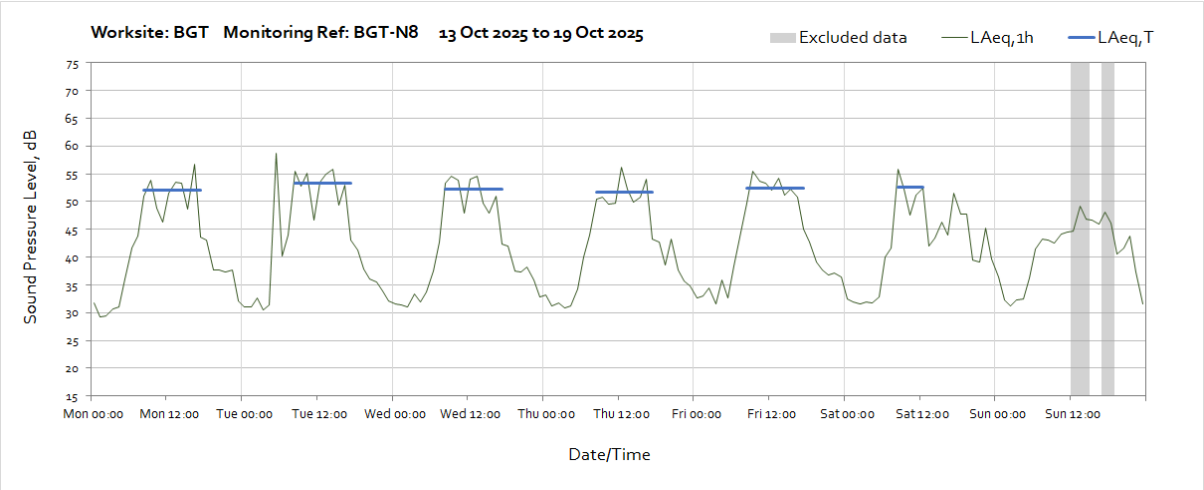


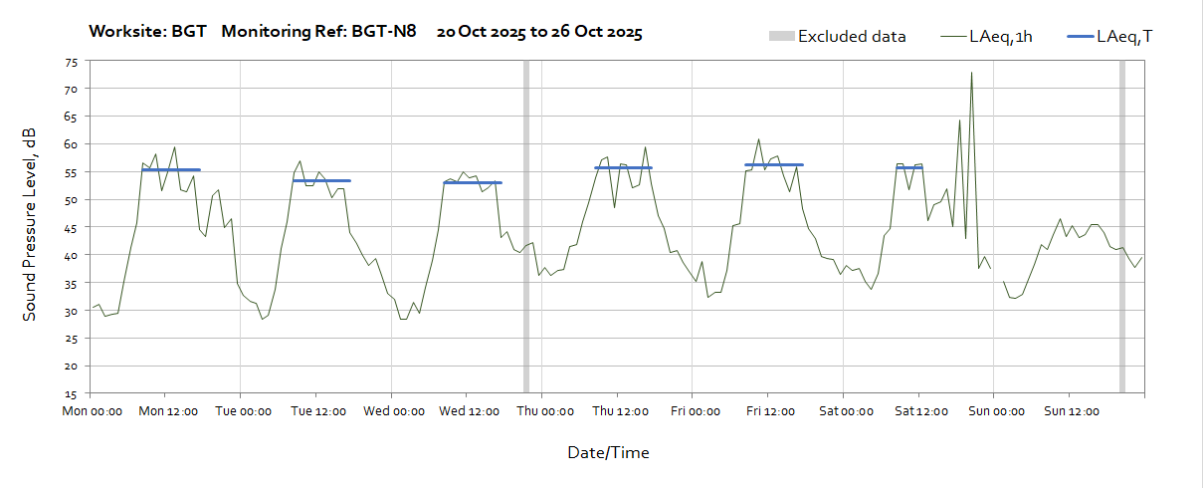
Note: Missing data between 14:00 on Thursday 30th of October and the end of month was due to a system fault.

Worksite: BGT – Monitoring Ref: BGT-N8

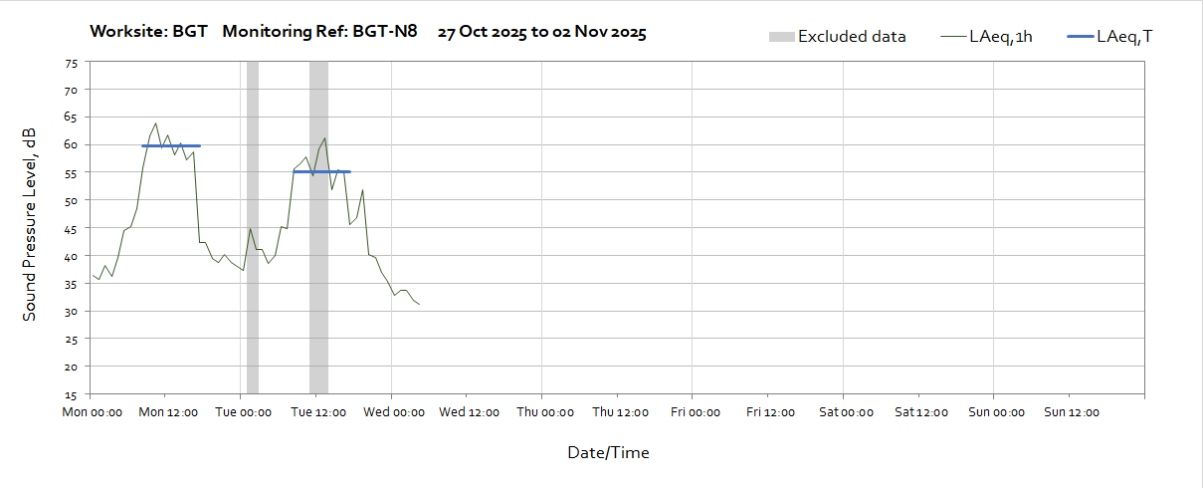






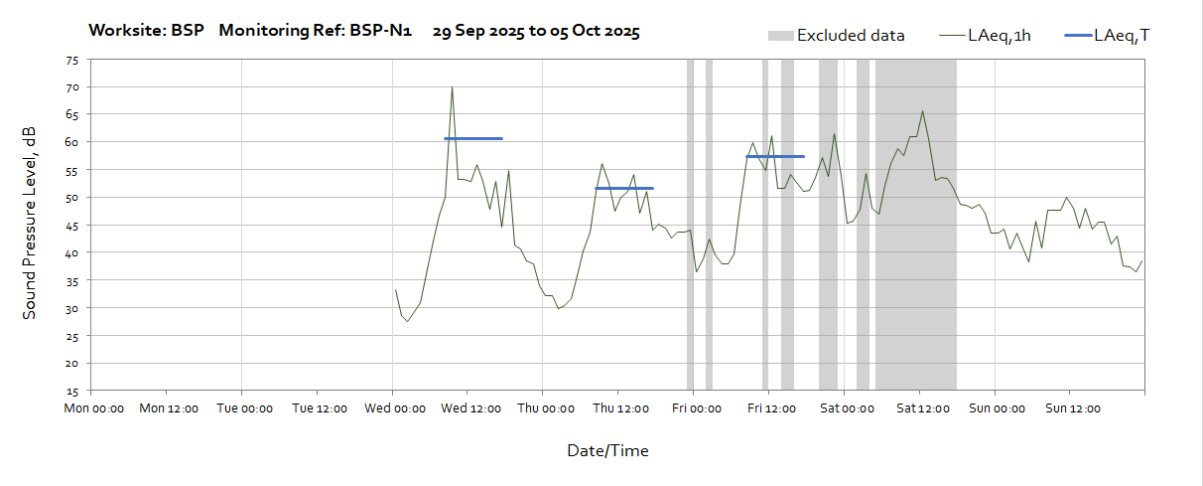


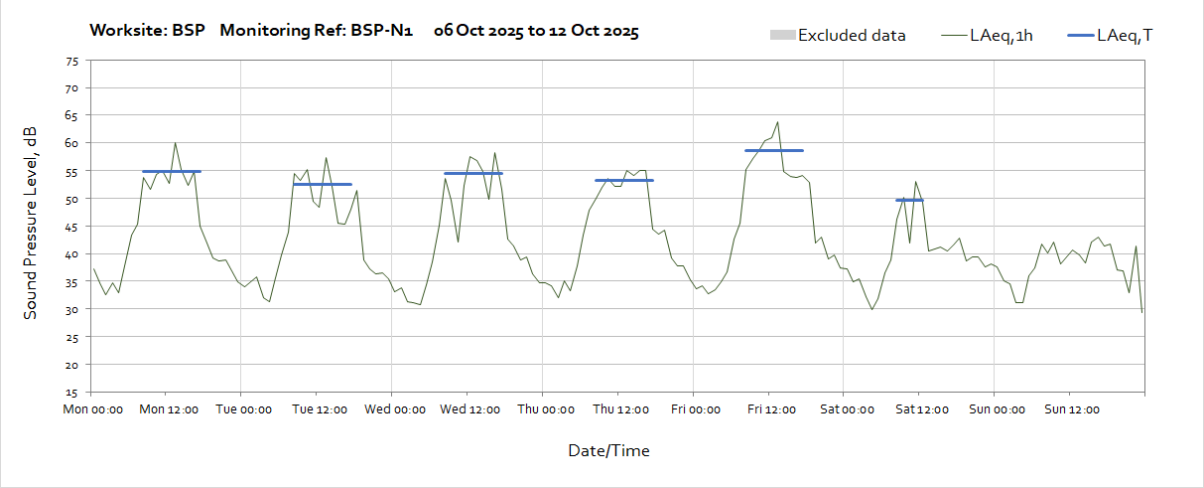
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time

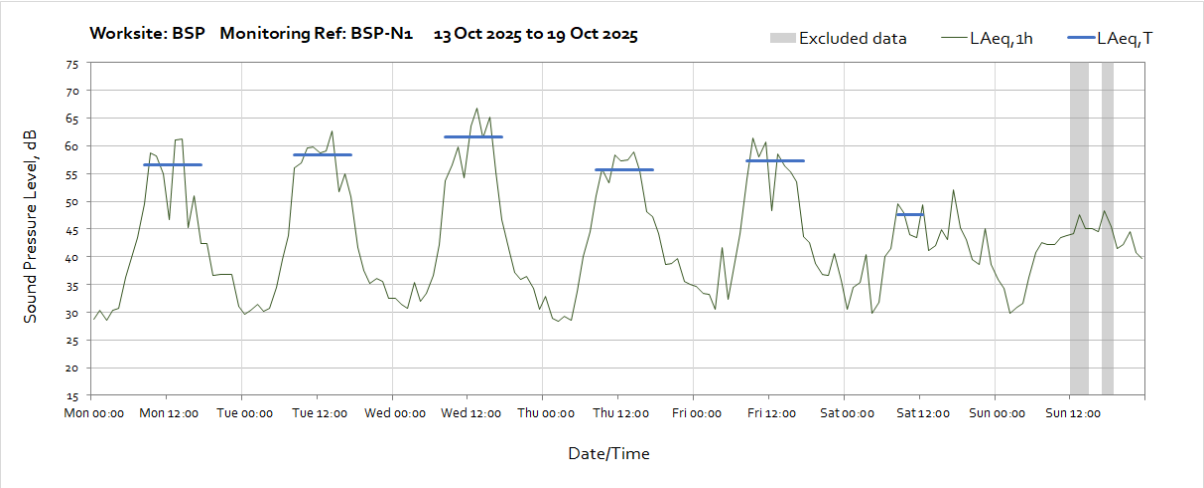


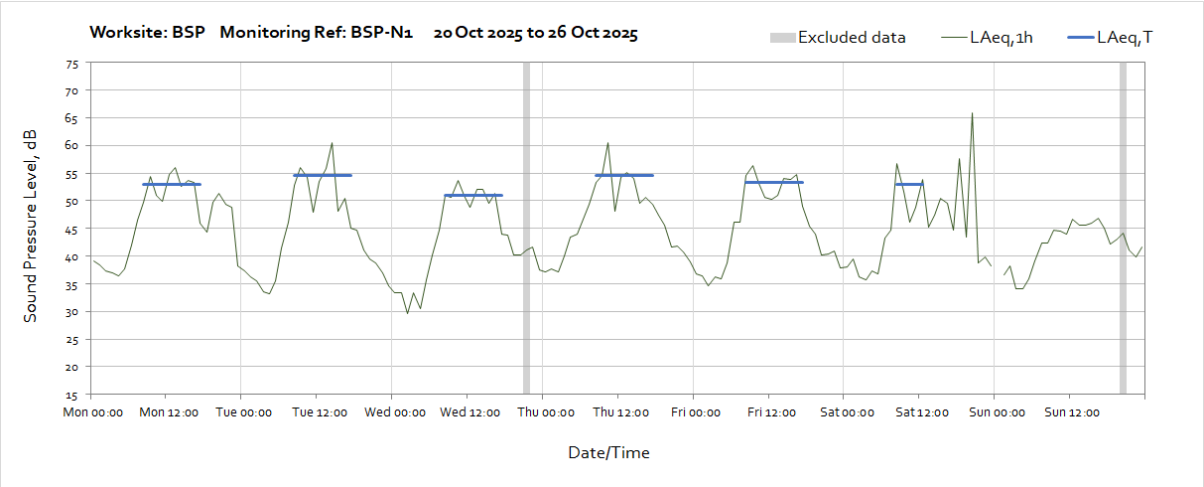
Note: Missing data between 05:00 on Wednesday 29th of October and the end of month was due to a system fault.

Worksite: BSP – Monitoring Ref: BSP-N1

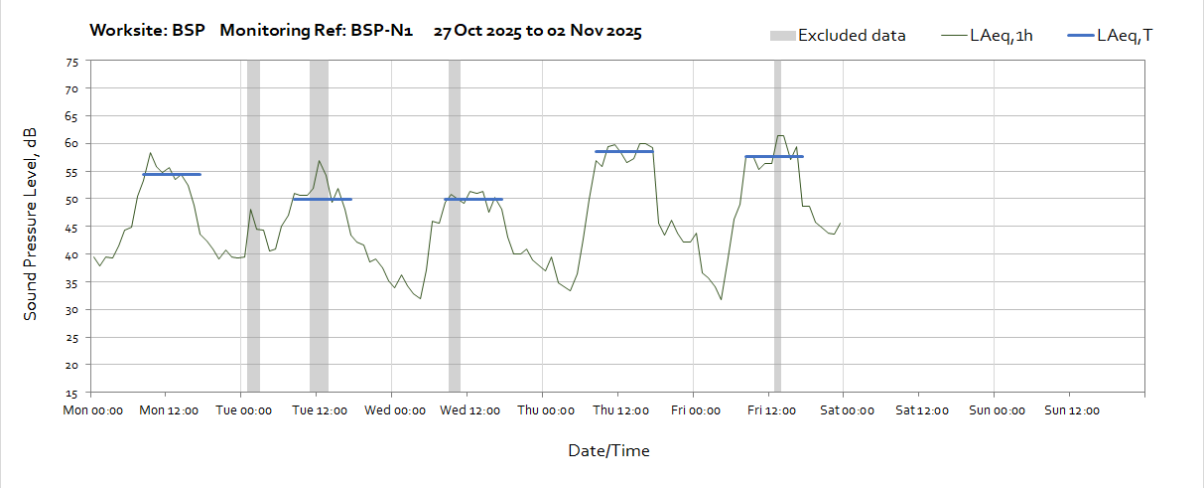




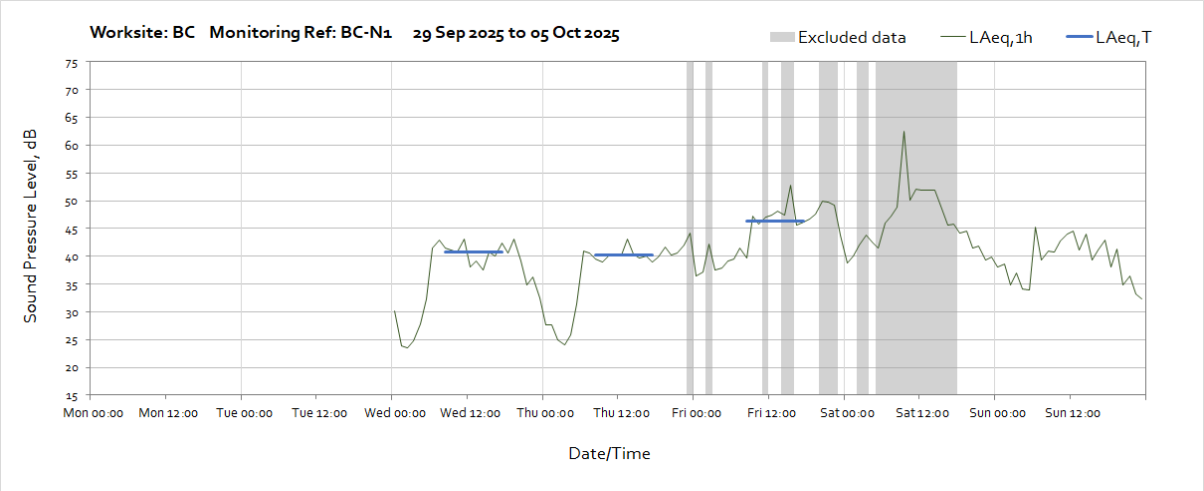


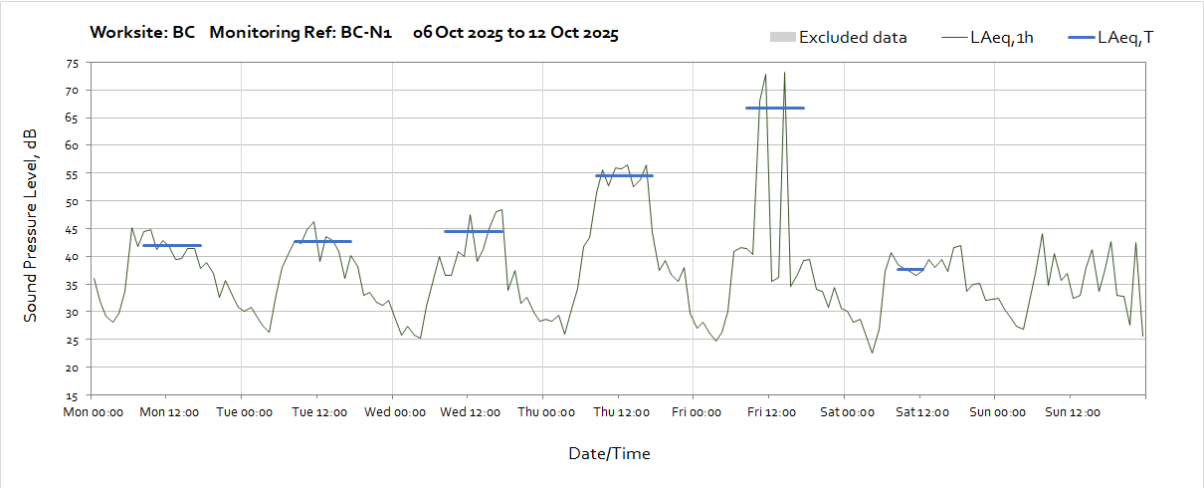


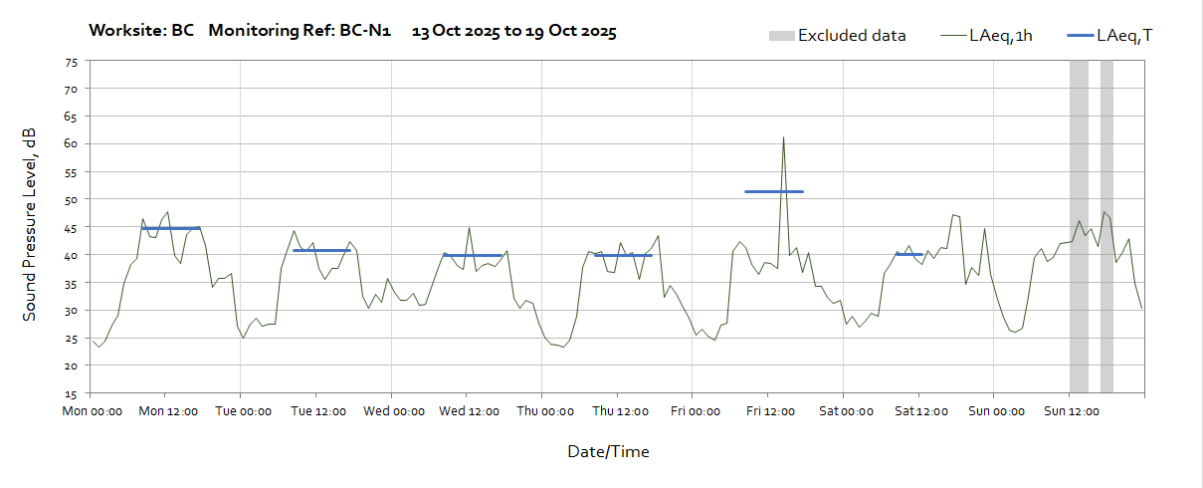
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

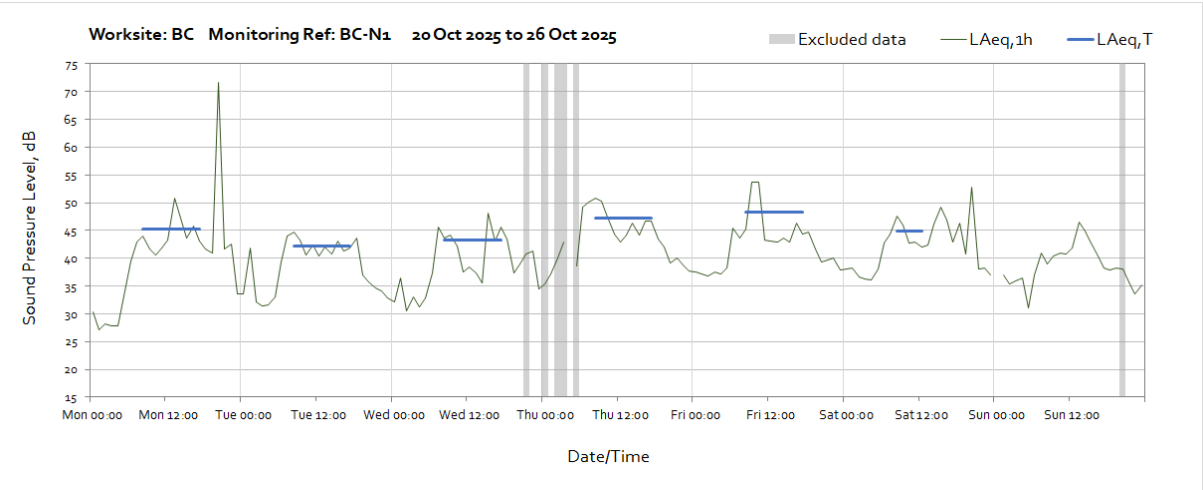


Worksite: BC – Monitoring Ref: BC-N1

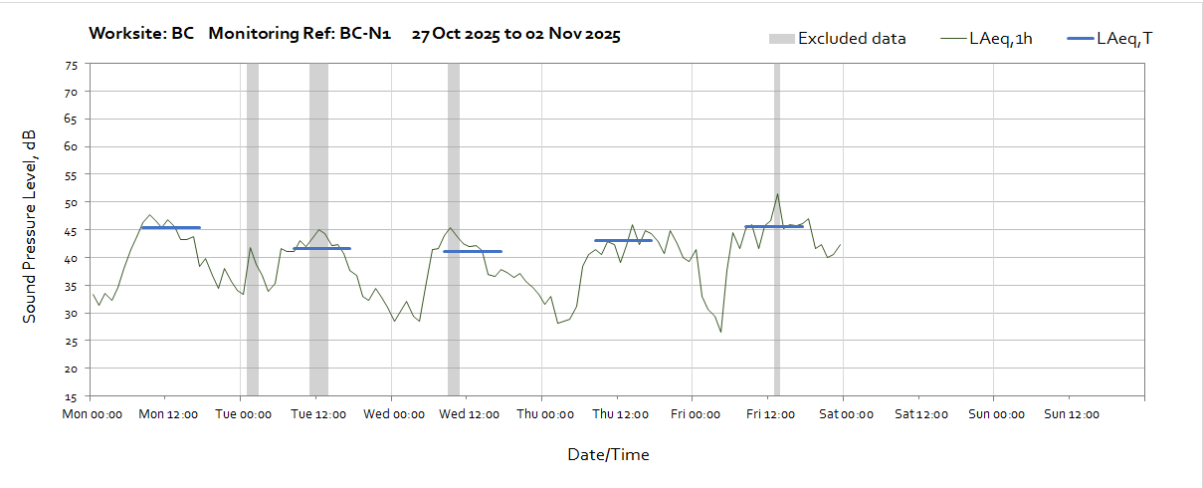




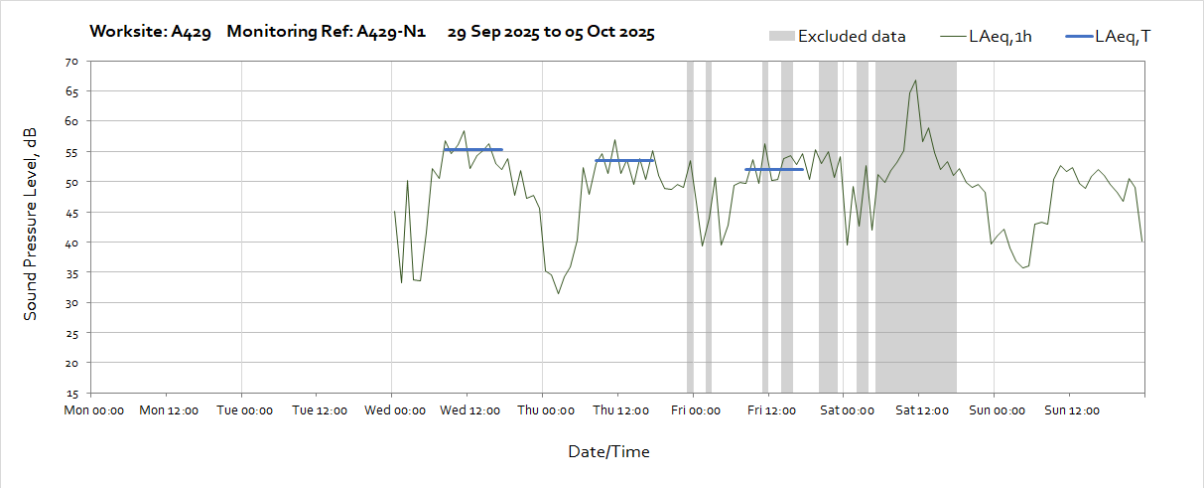


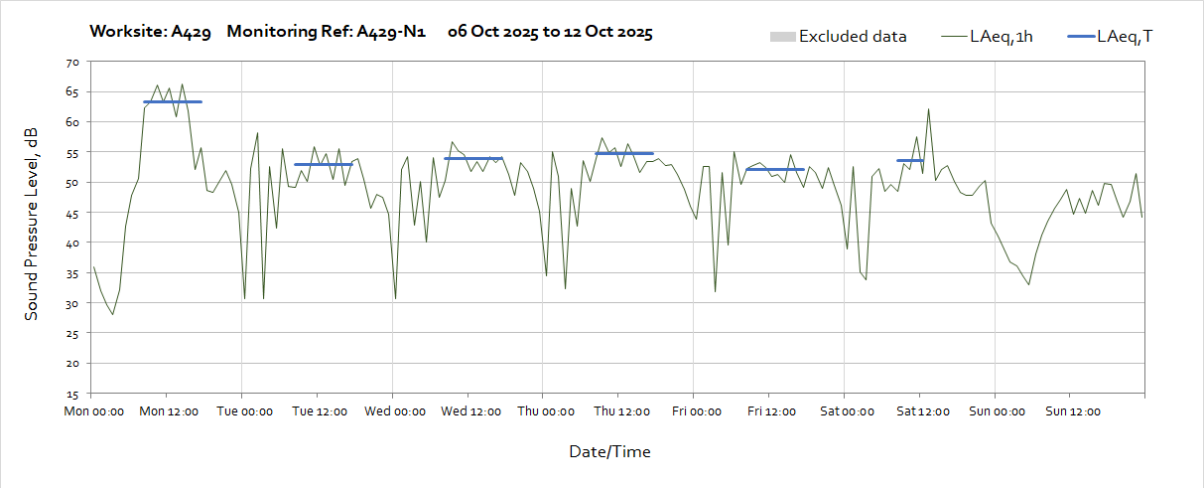


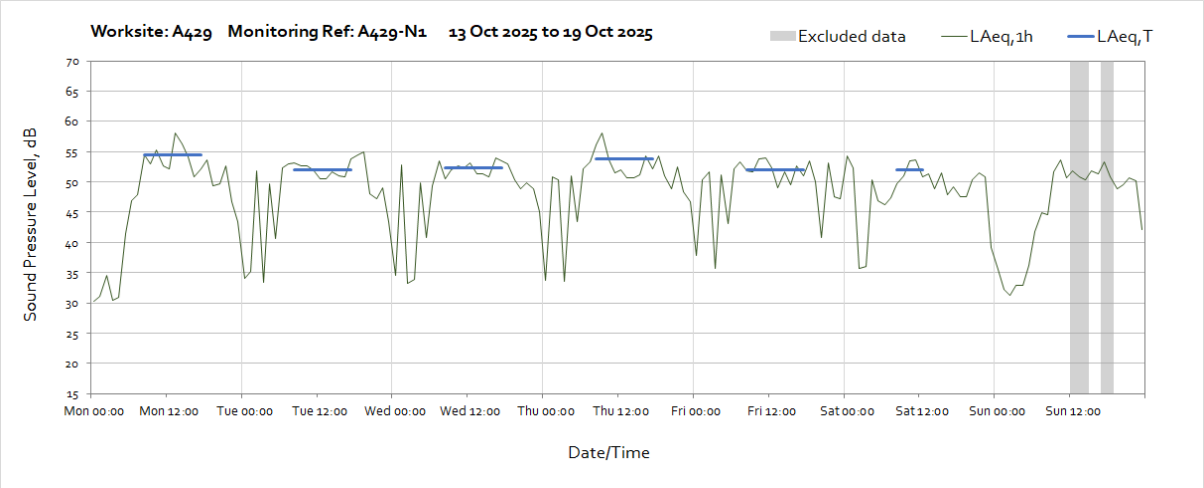
Note: Missing data between 04:00 and 05:00 on Thursday 23rd of October was due to a communication error between the system and the monitoring station. Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

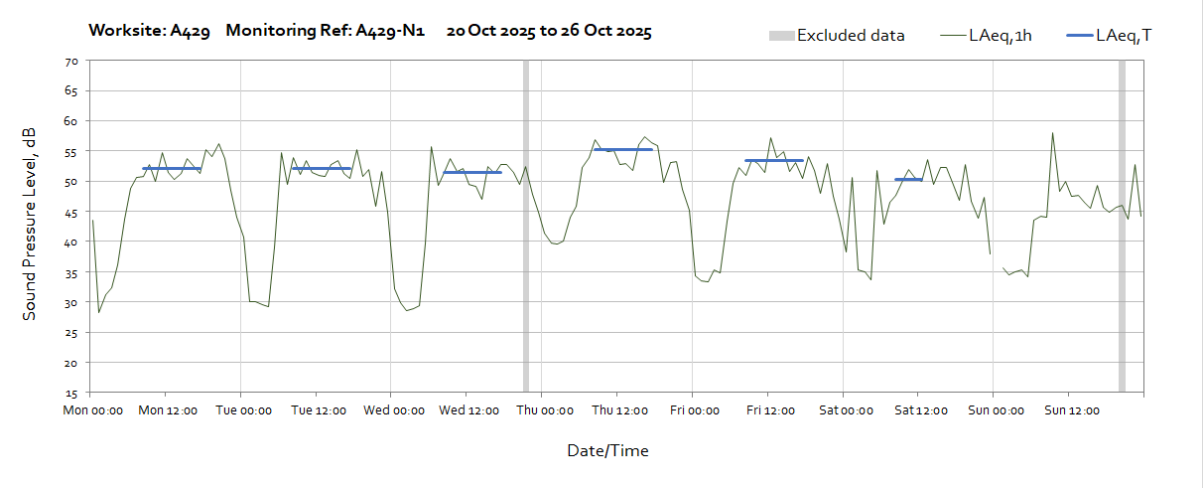


Worksite: A429 – Monitoring Ref: A429-N1

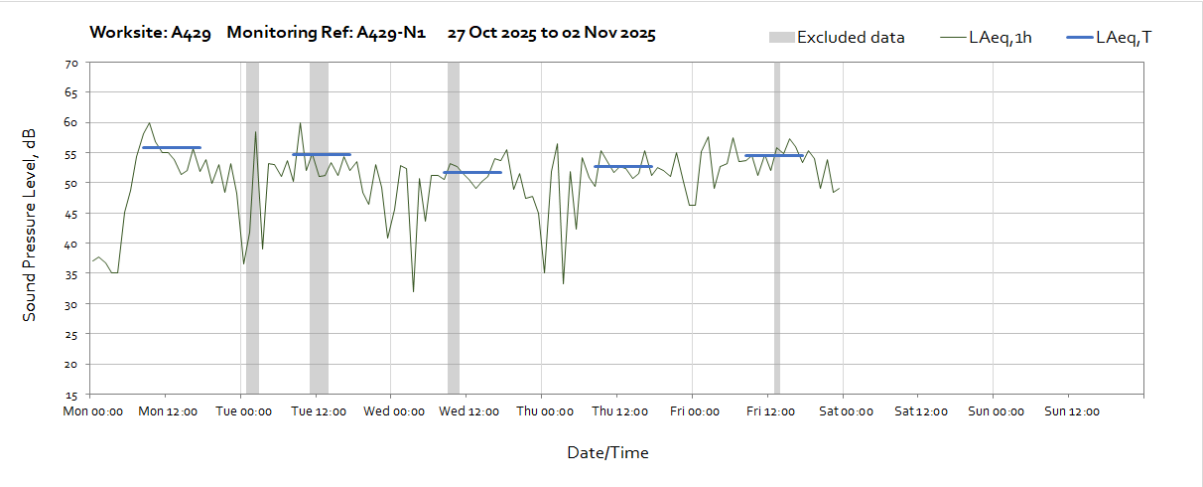




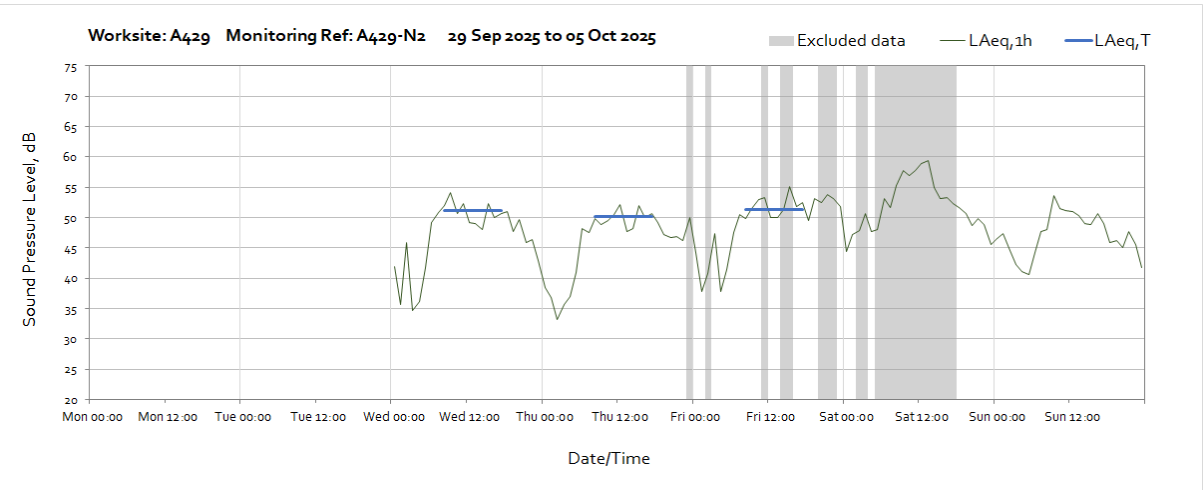


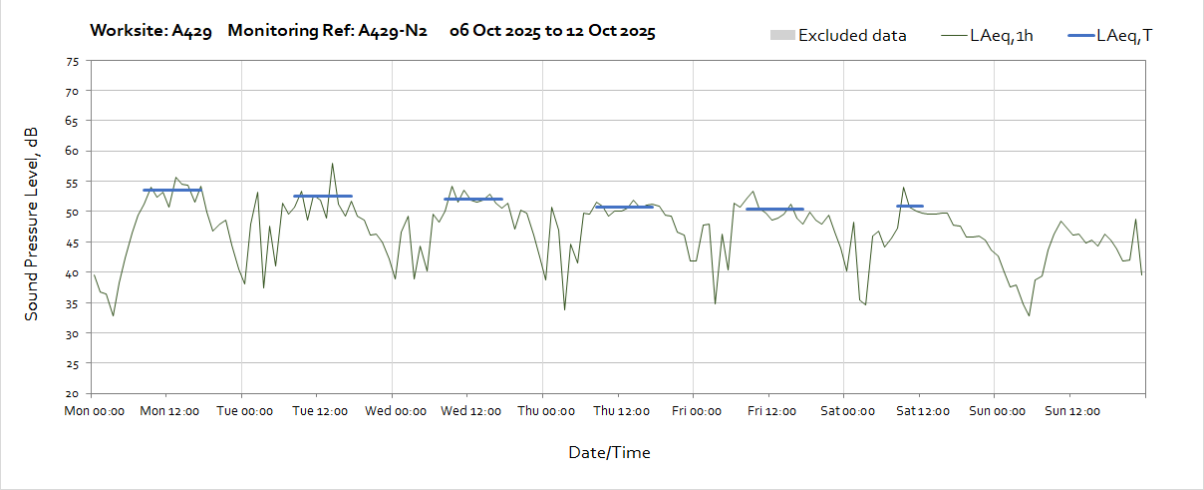


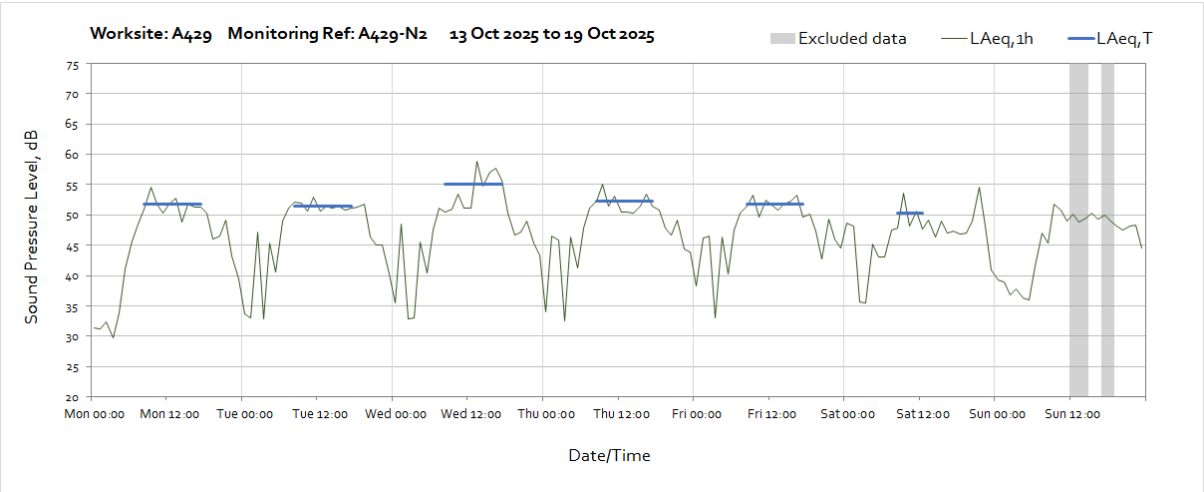
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

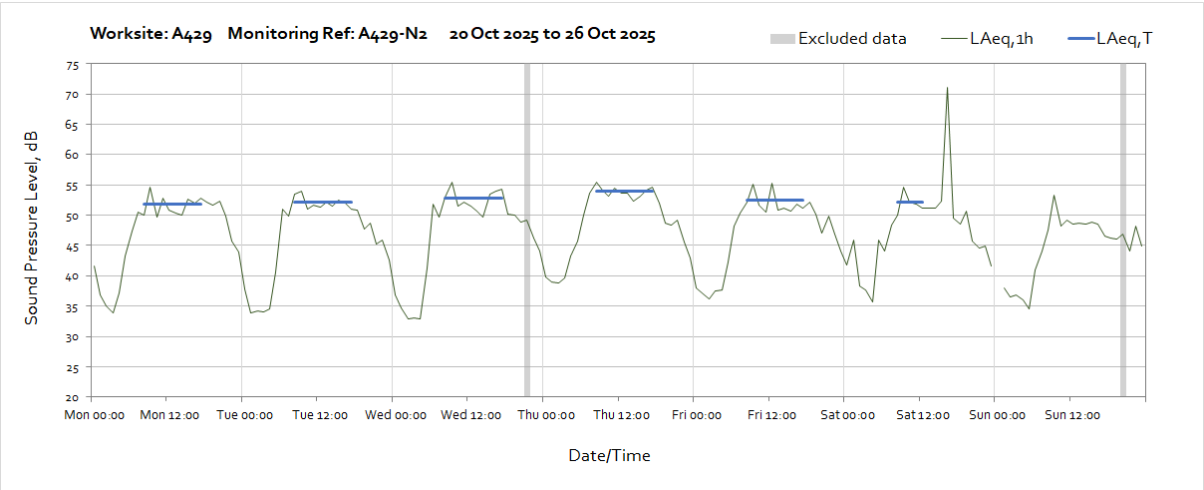


Worksite: A429 – Monitoring Ref: A429-N2









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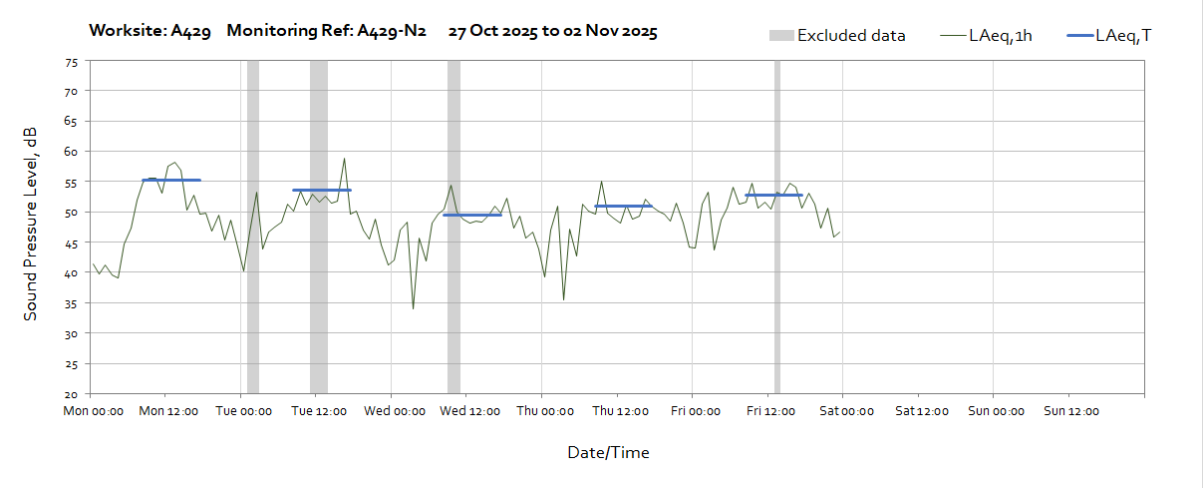
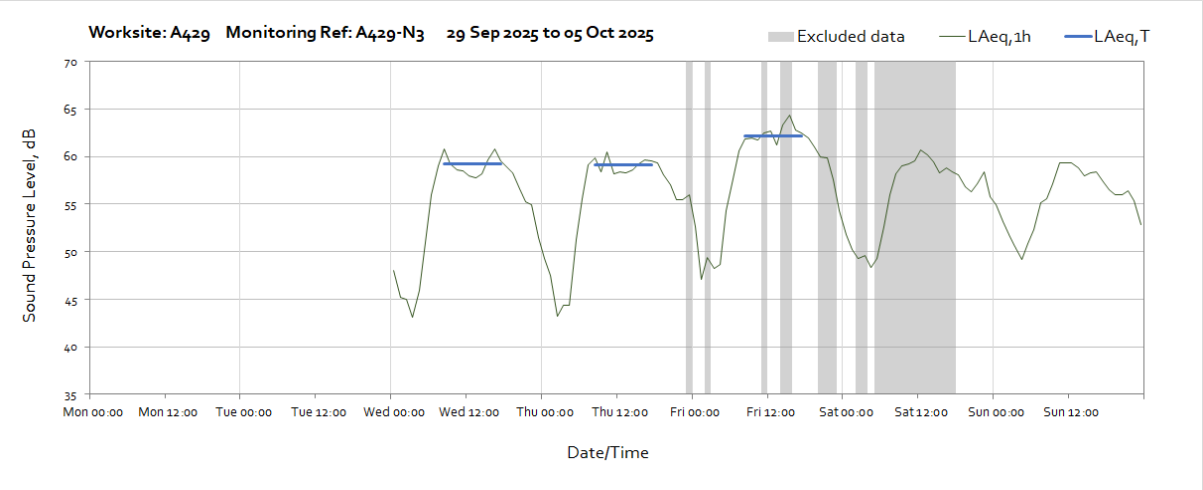
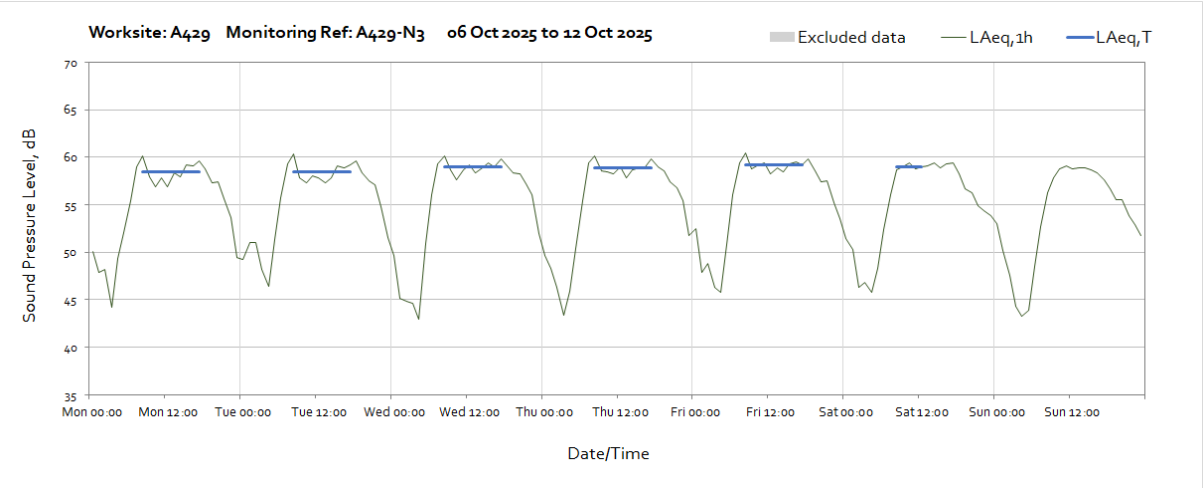
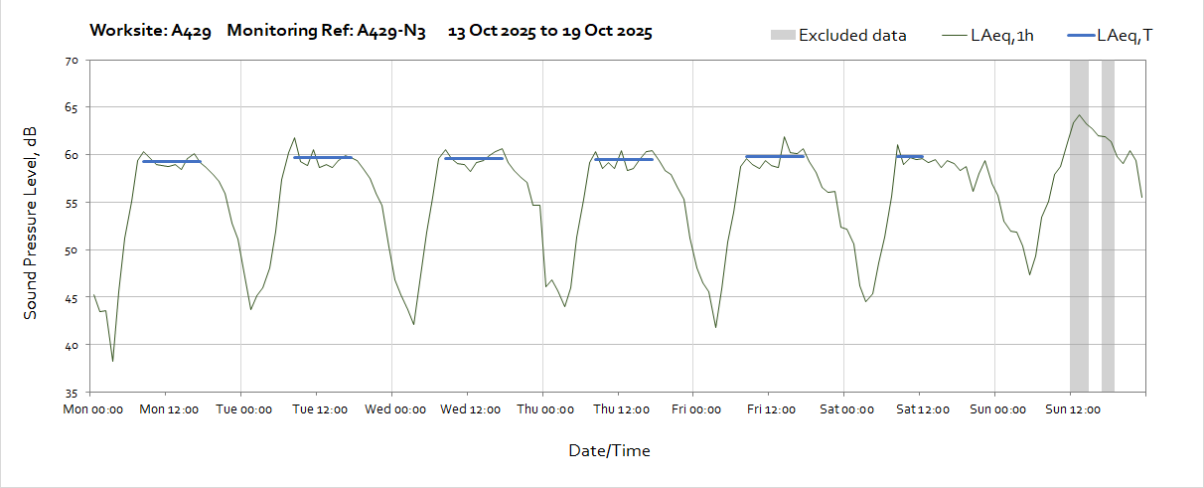
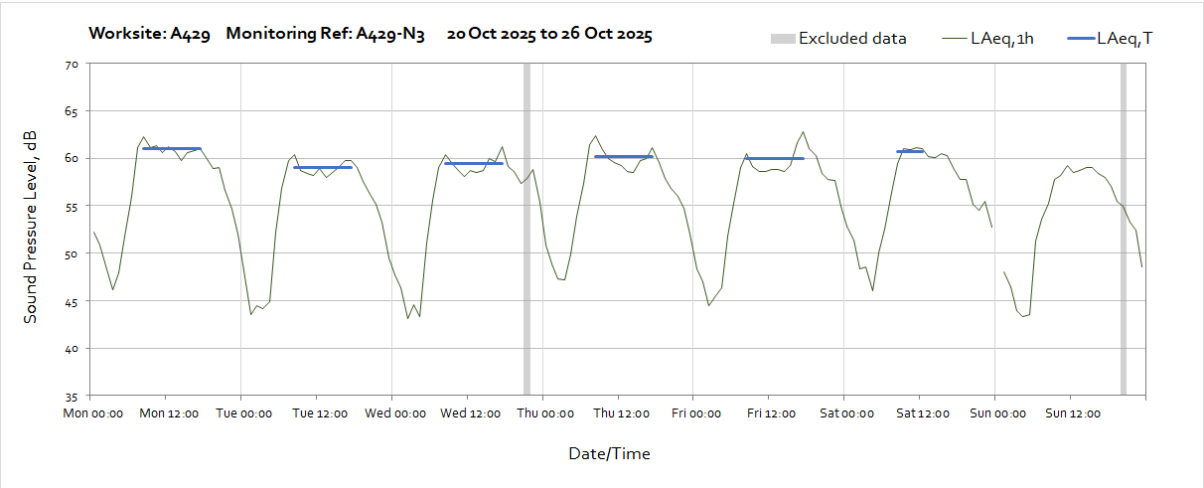


Worksite: A429 – Monitoring Ref: A429-N3

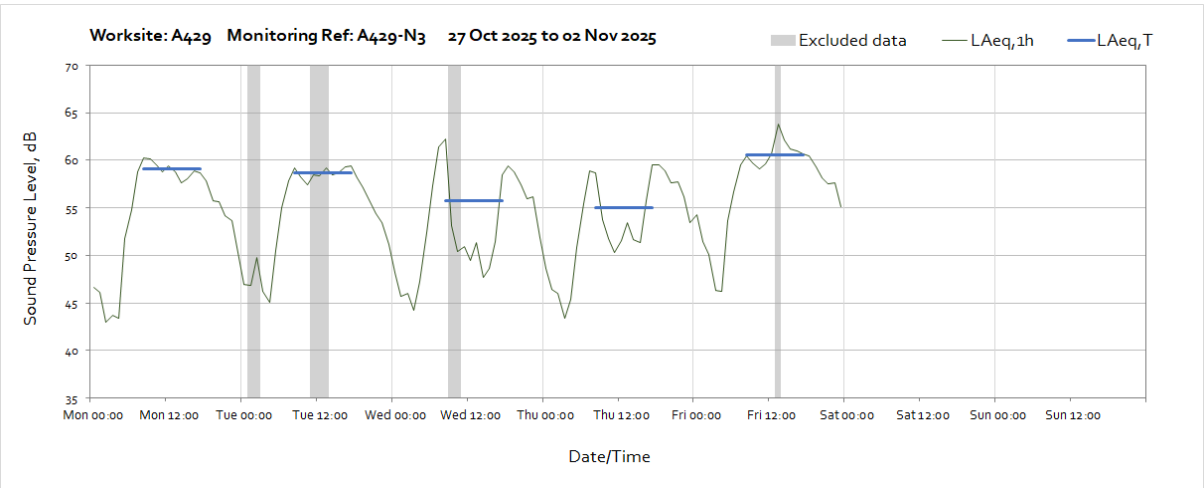




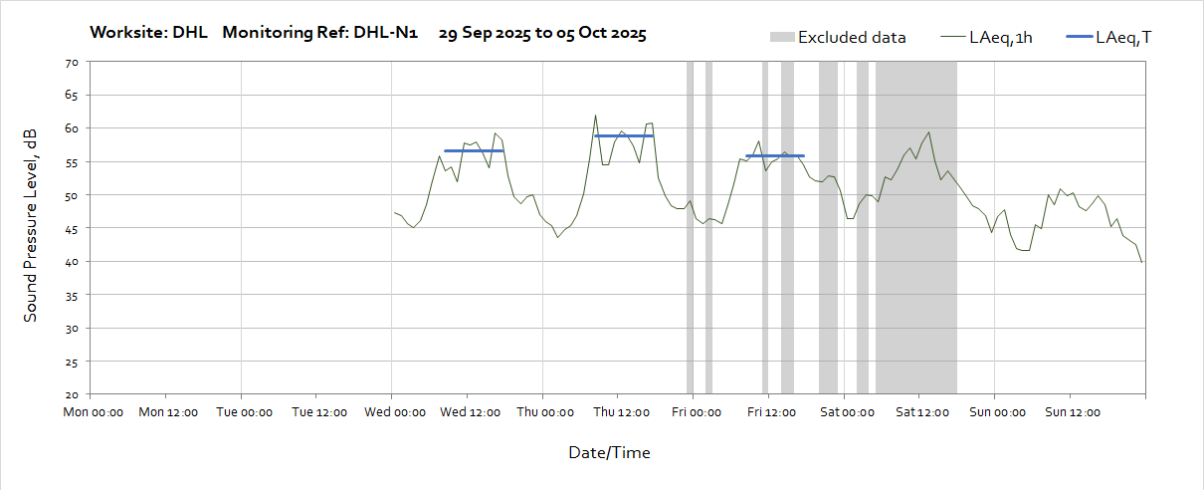


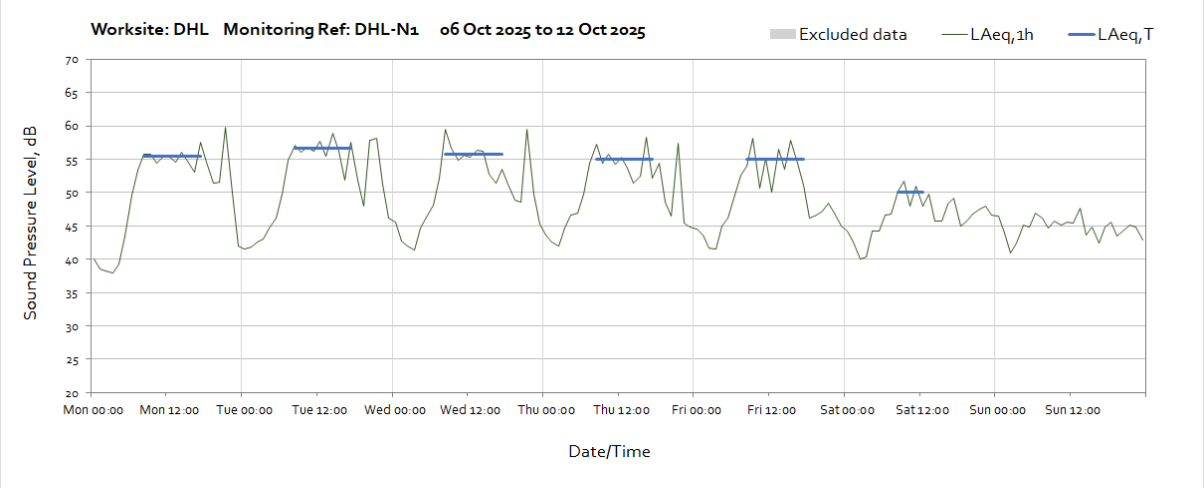


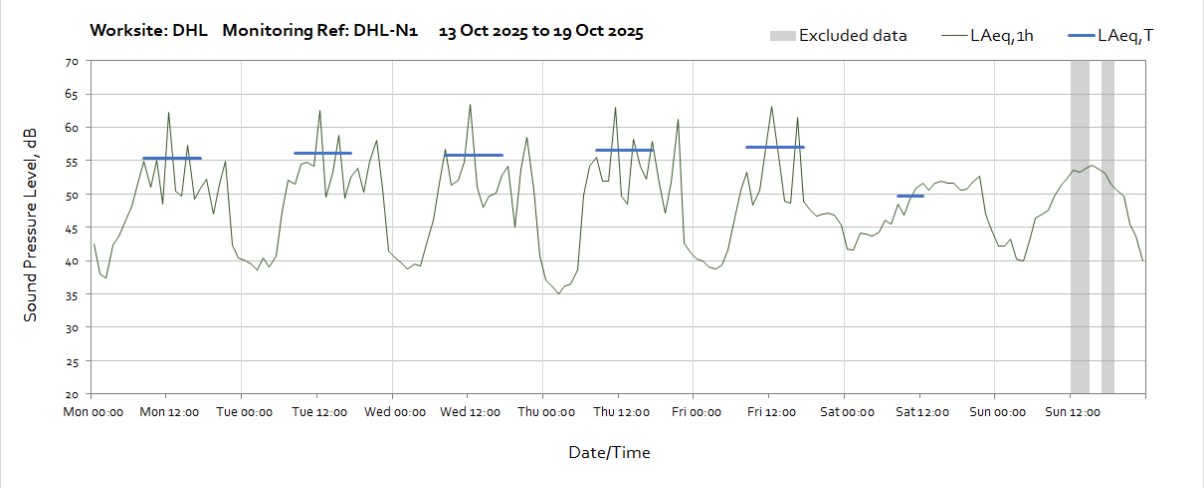
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

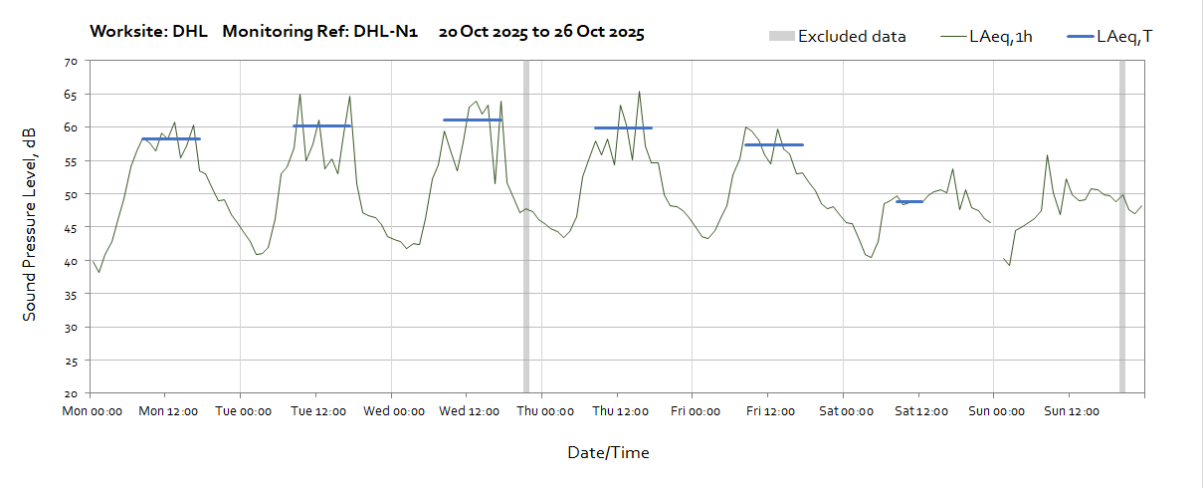


Worksite: DHL – Monitoring Ref: DHL-N1

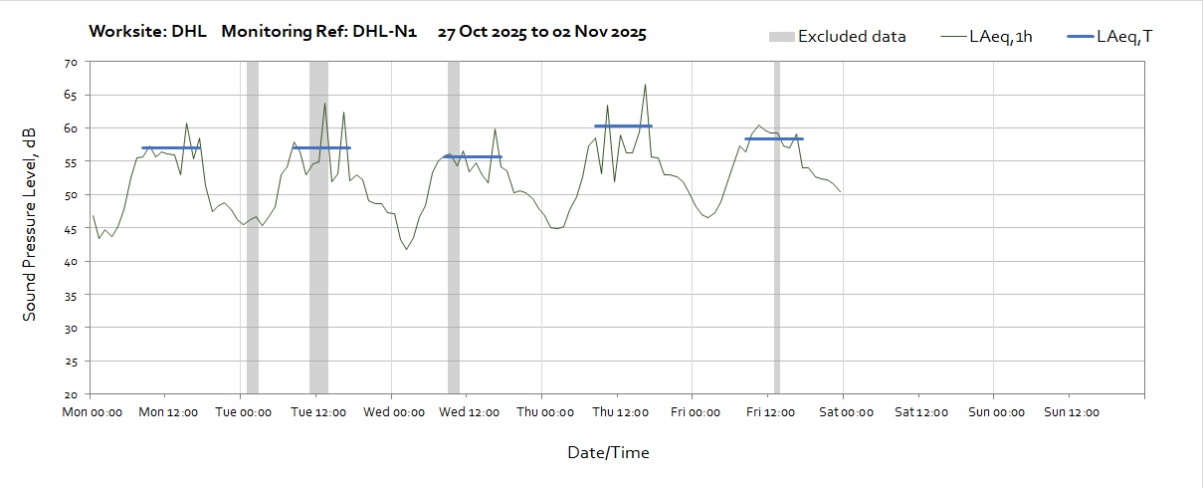




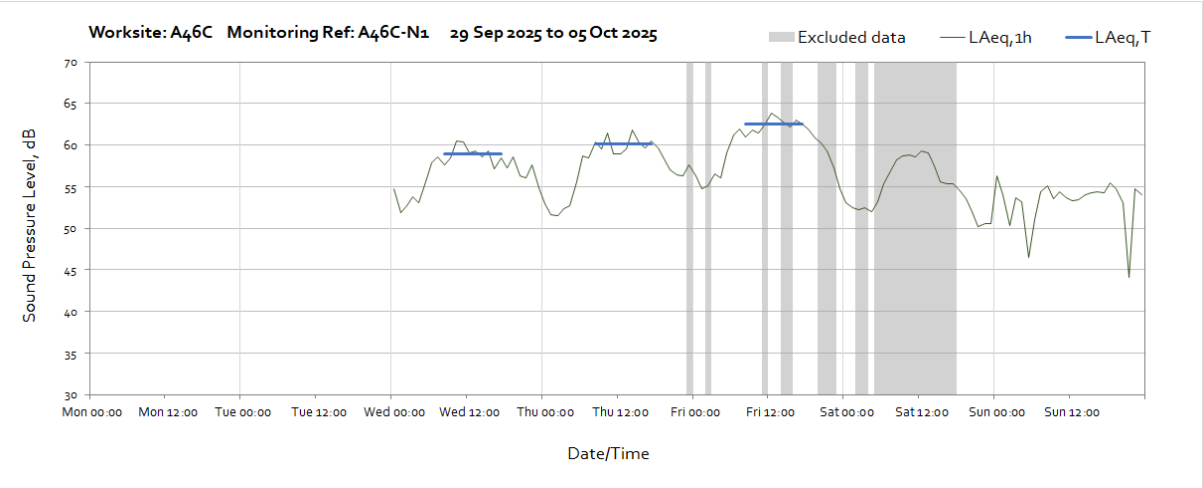


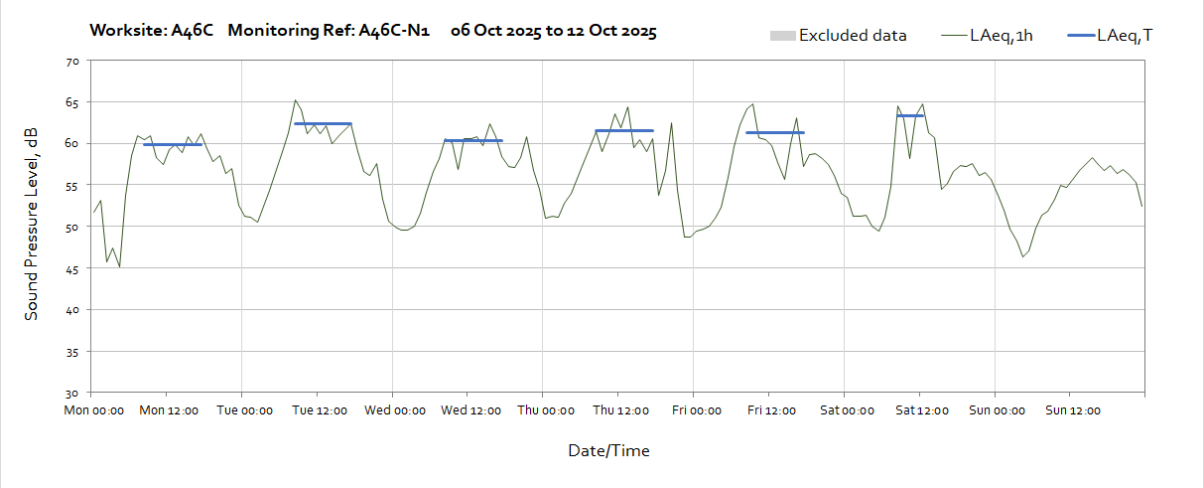


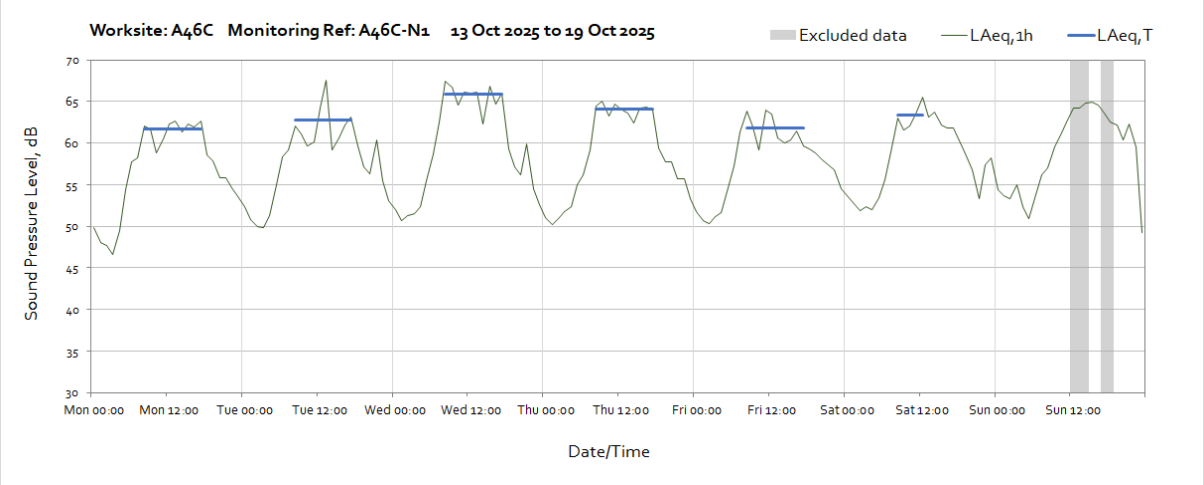
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

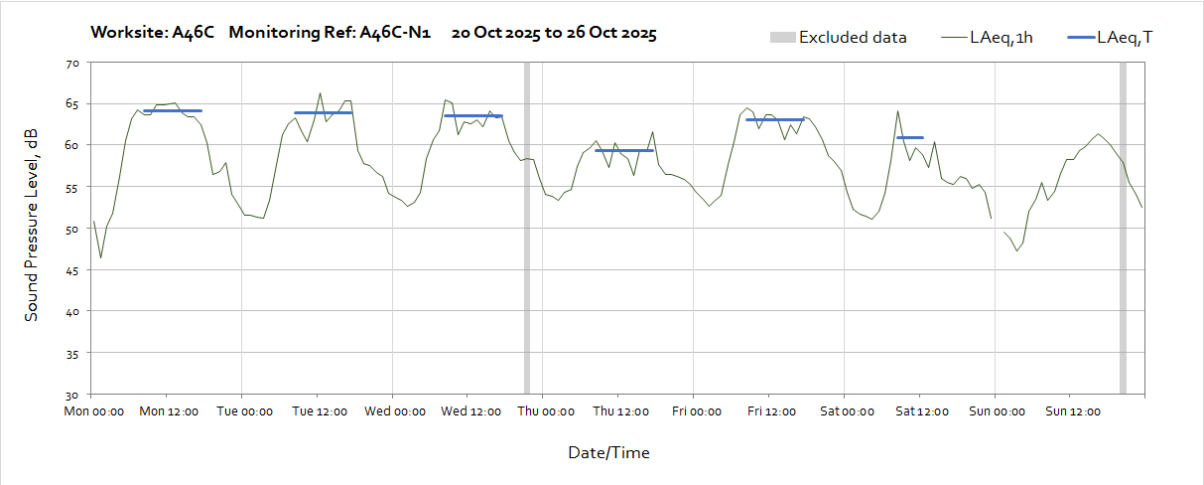


Worksite: A46C – Monitoring Ref: A46C-N1

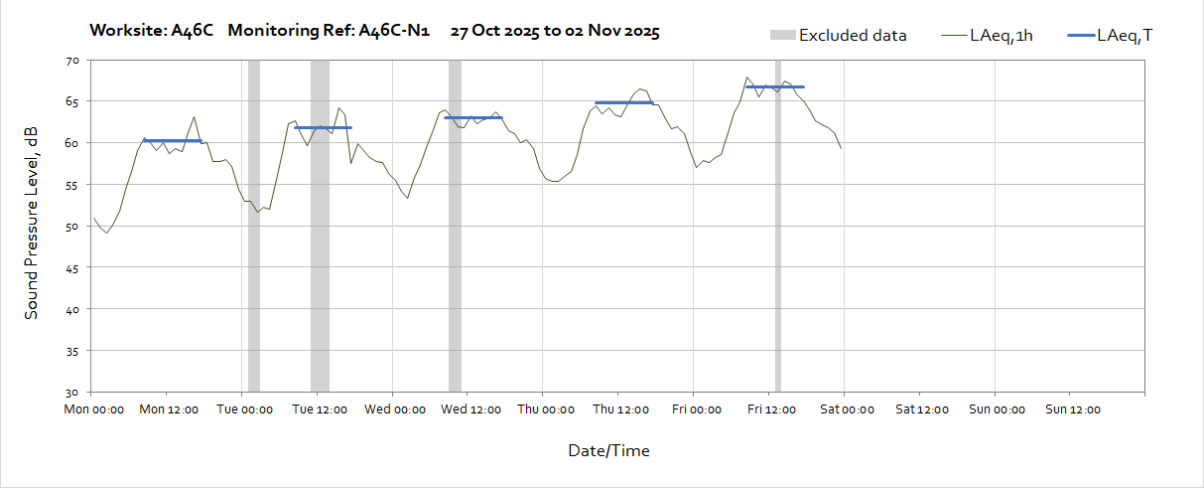




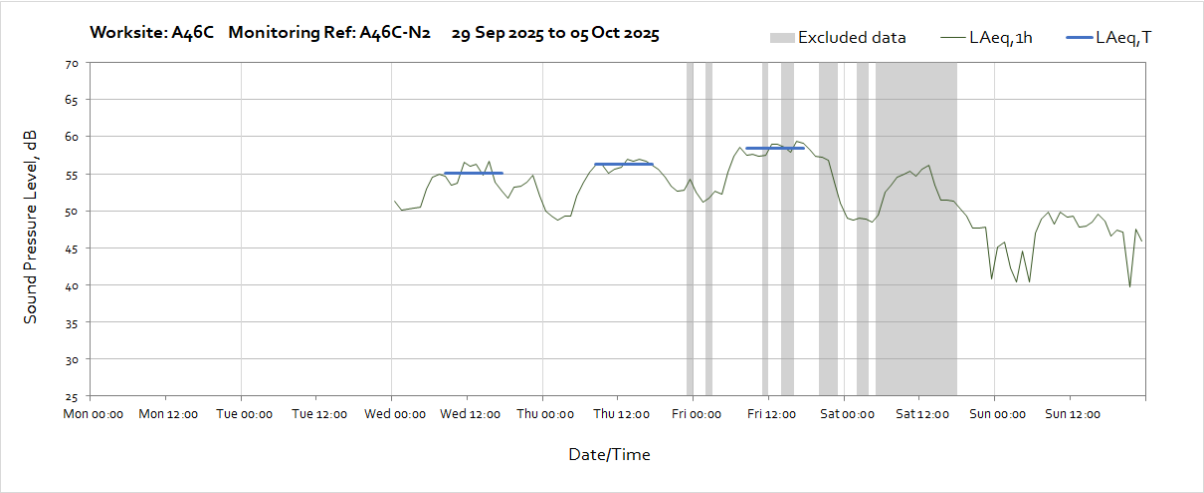


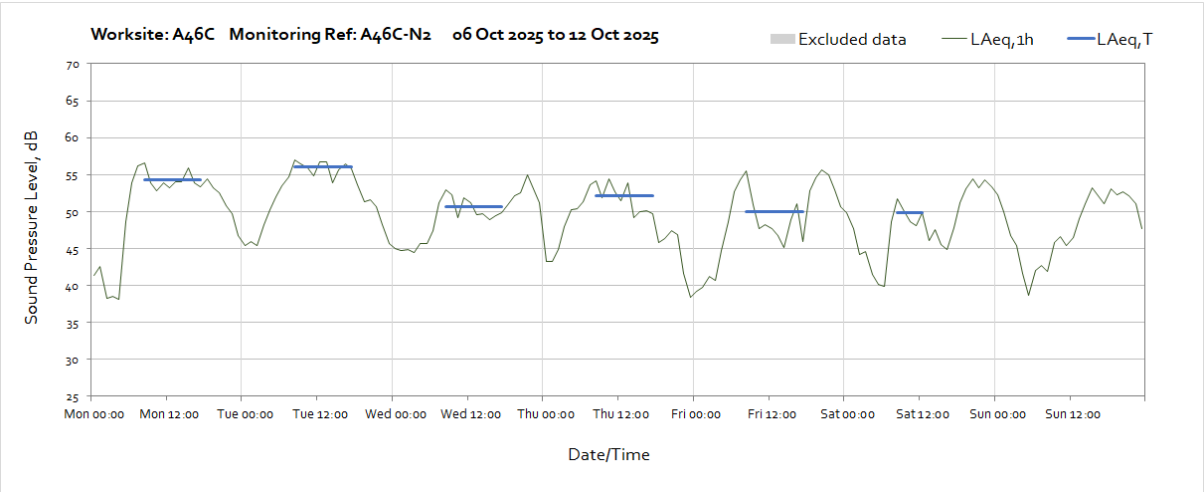


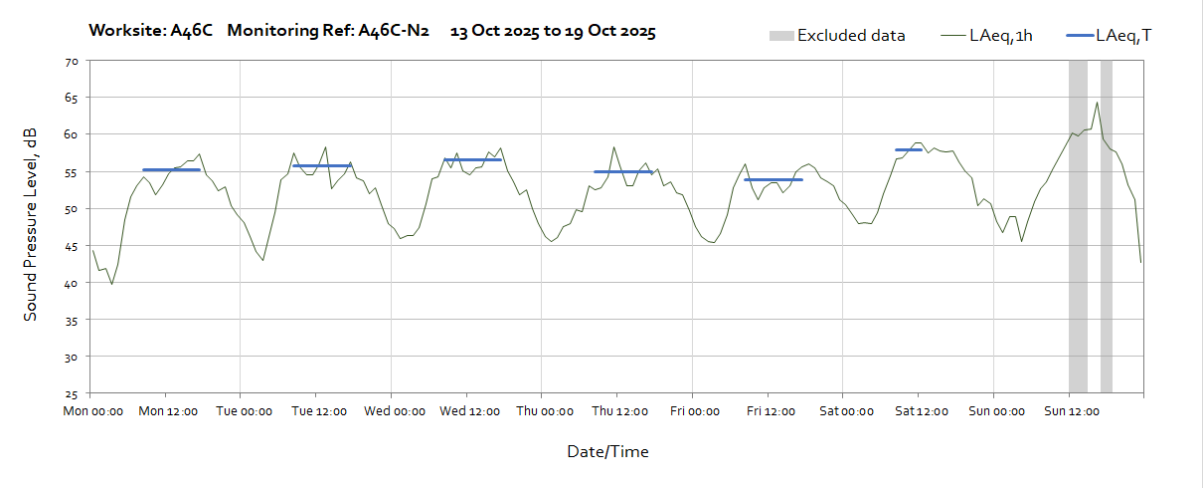
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

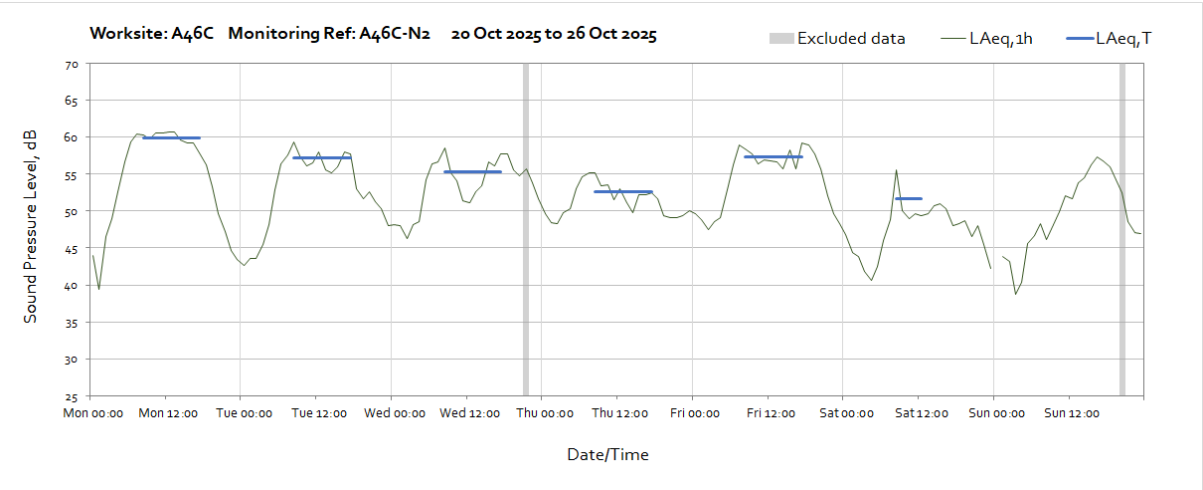


Worksite: A46C – Monitoring Ref: A46C-N2

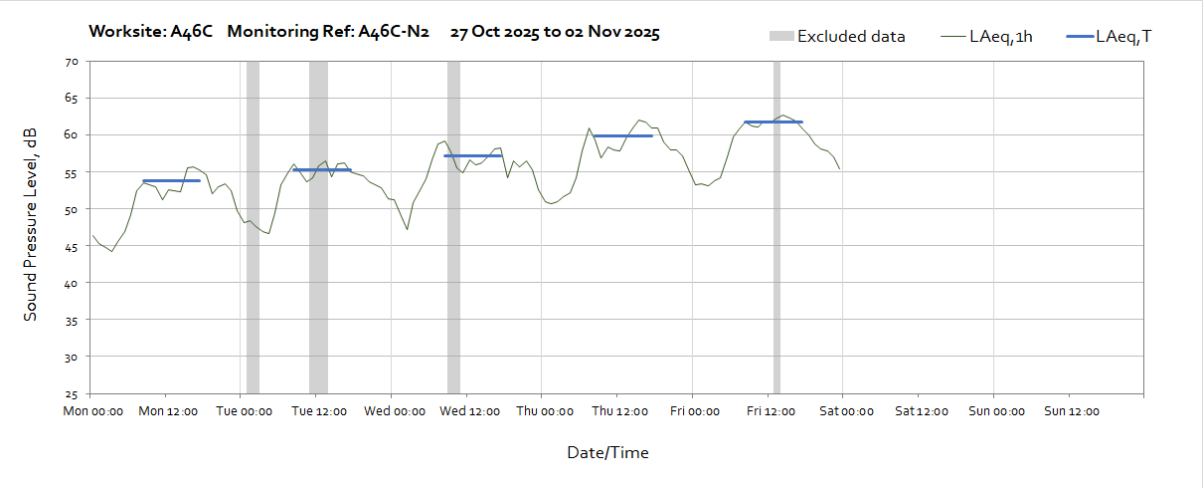




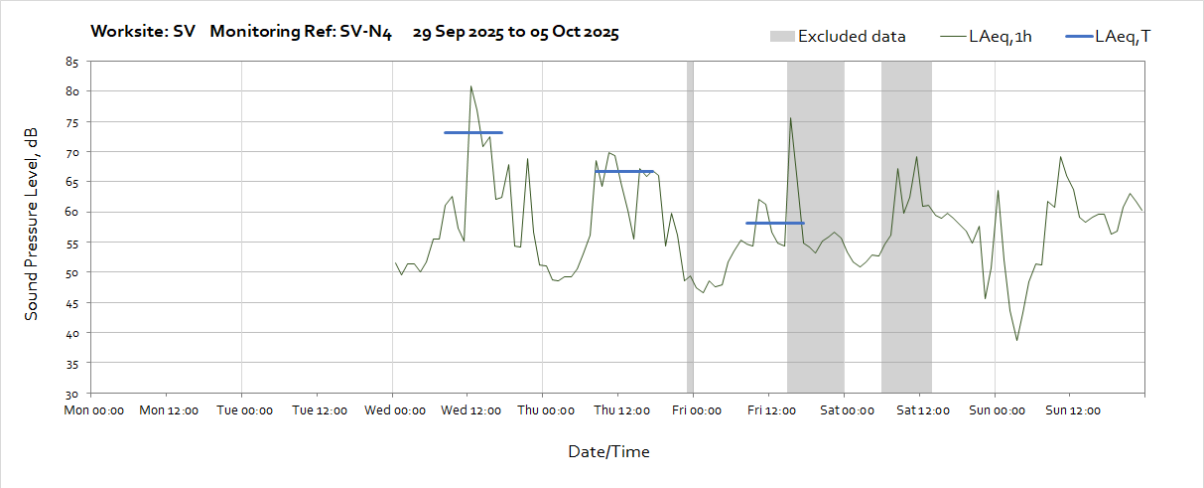


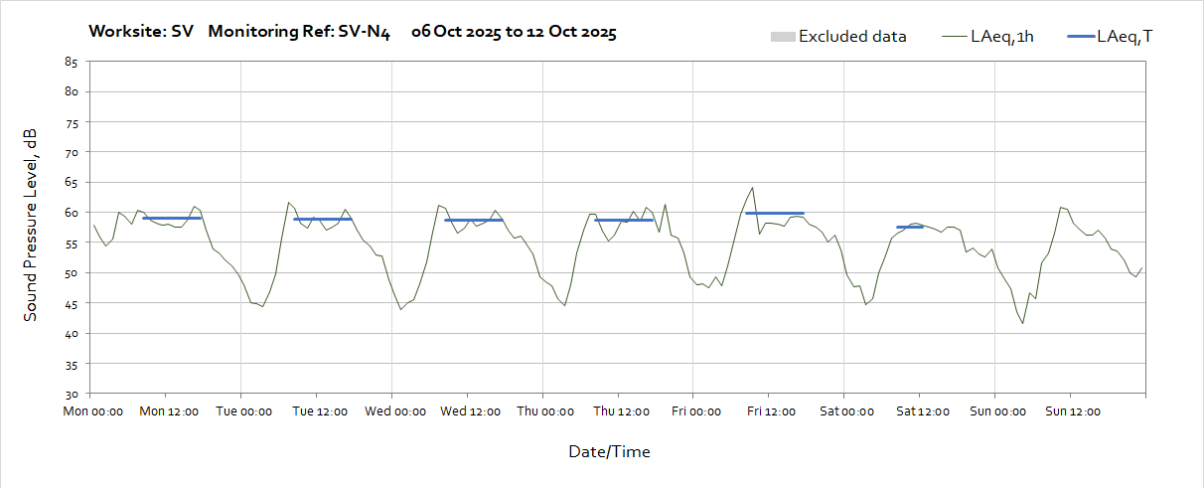


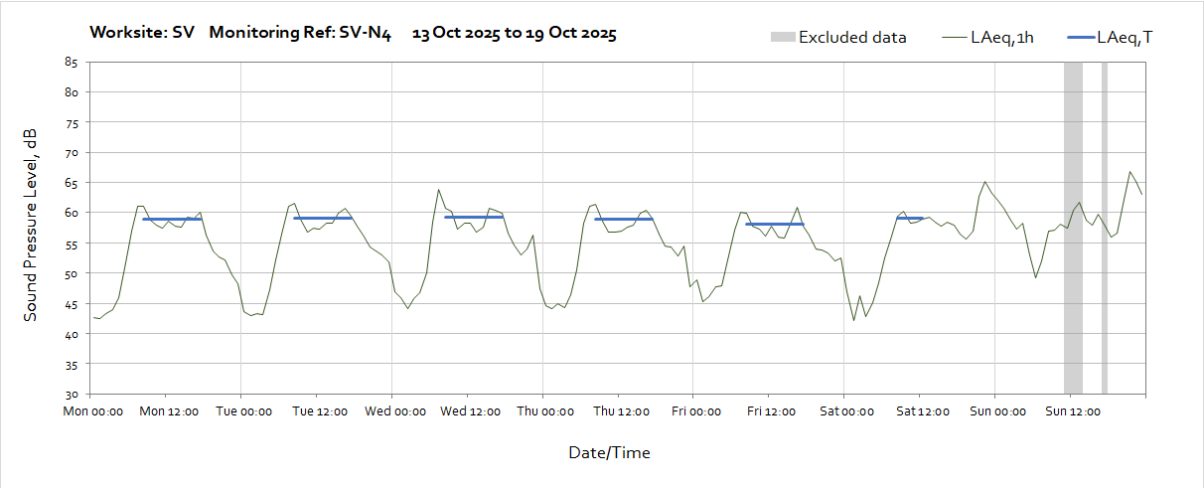
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

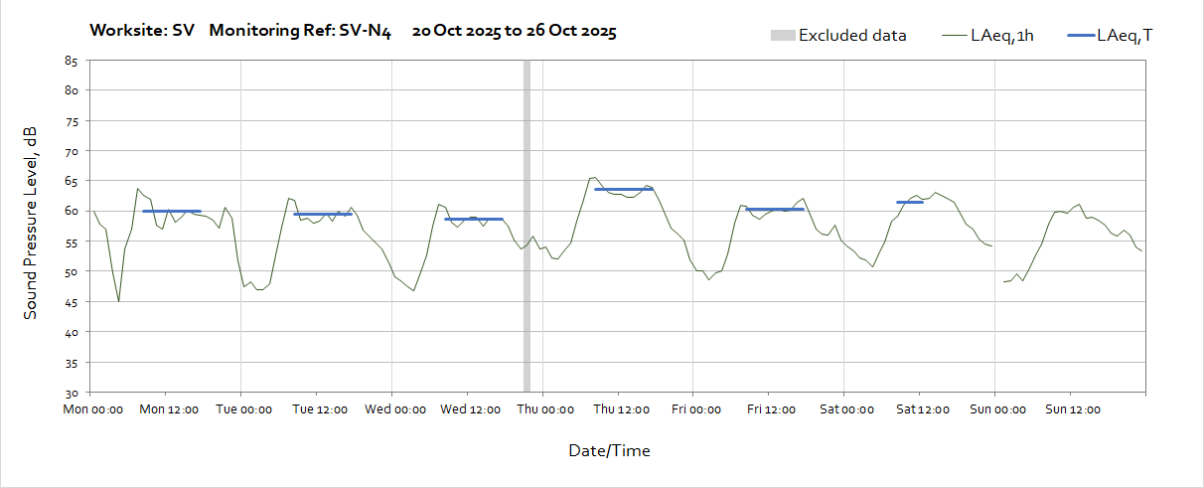


Worksite: SV – Monitoring Ref: SV-N4

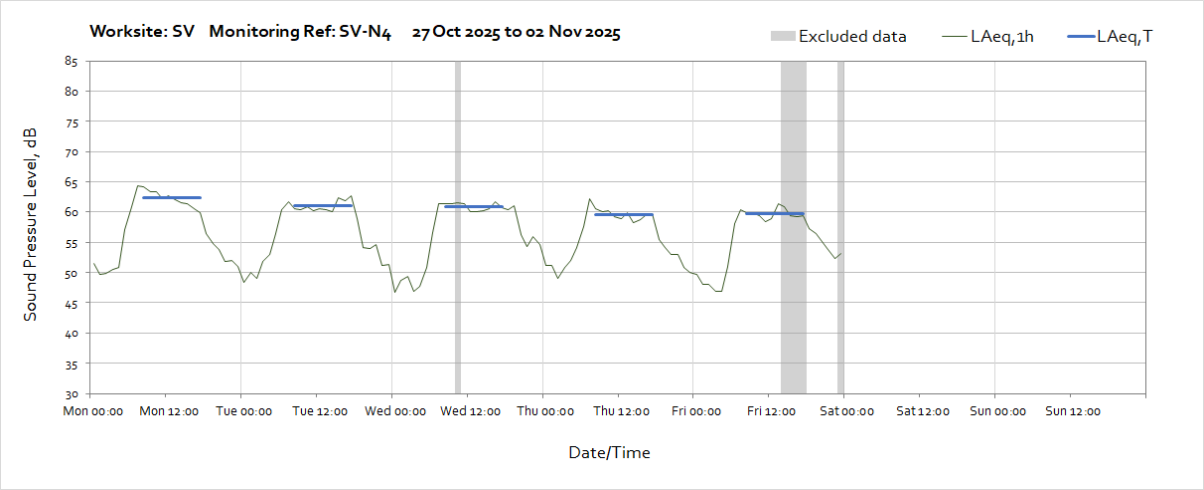




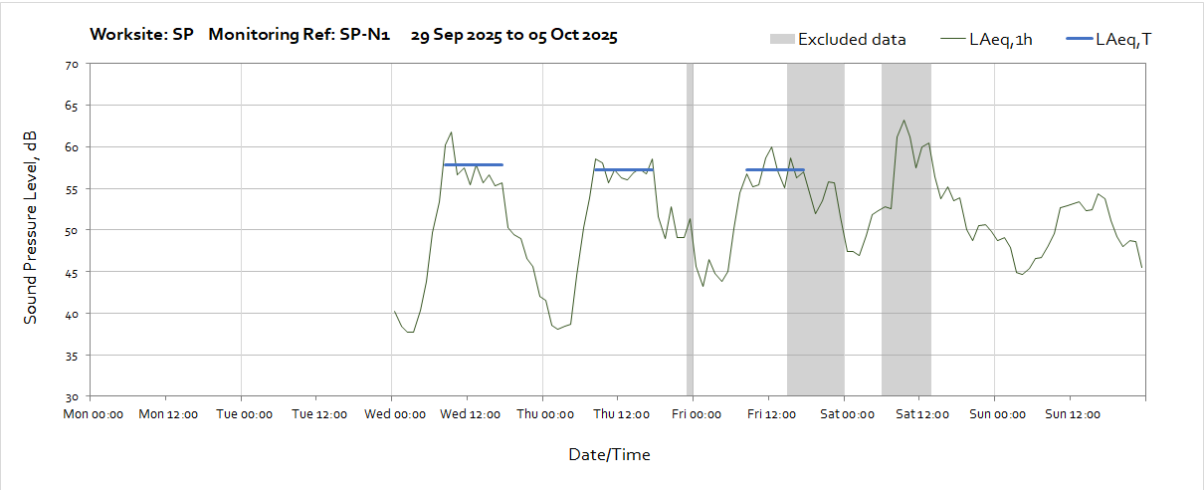


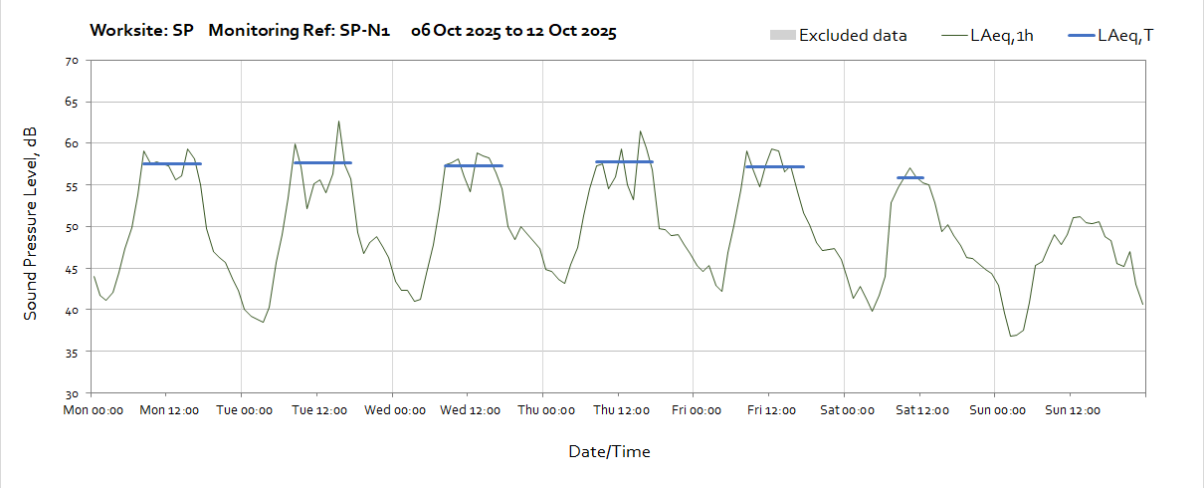


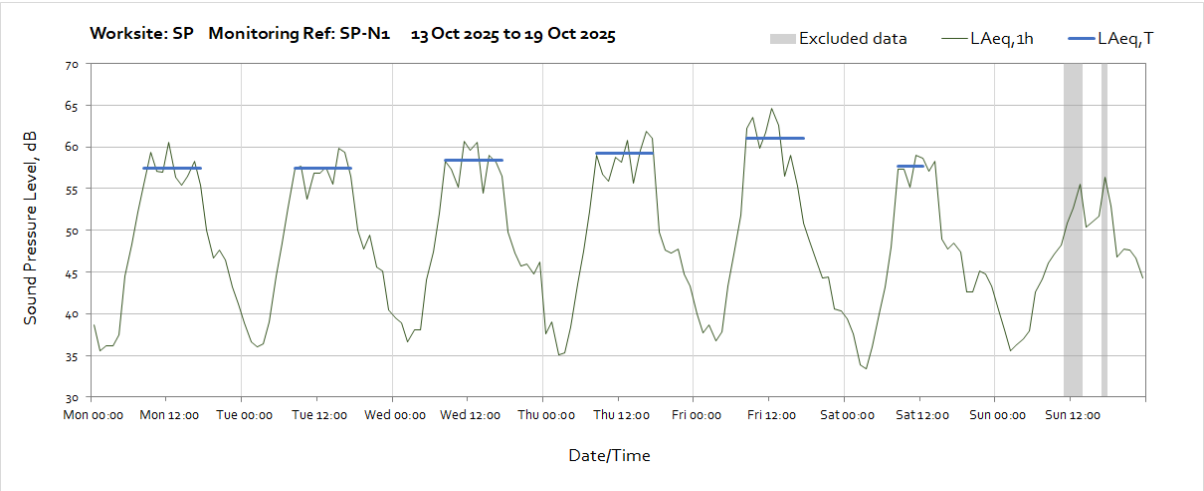
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

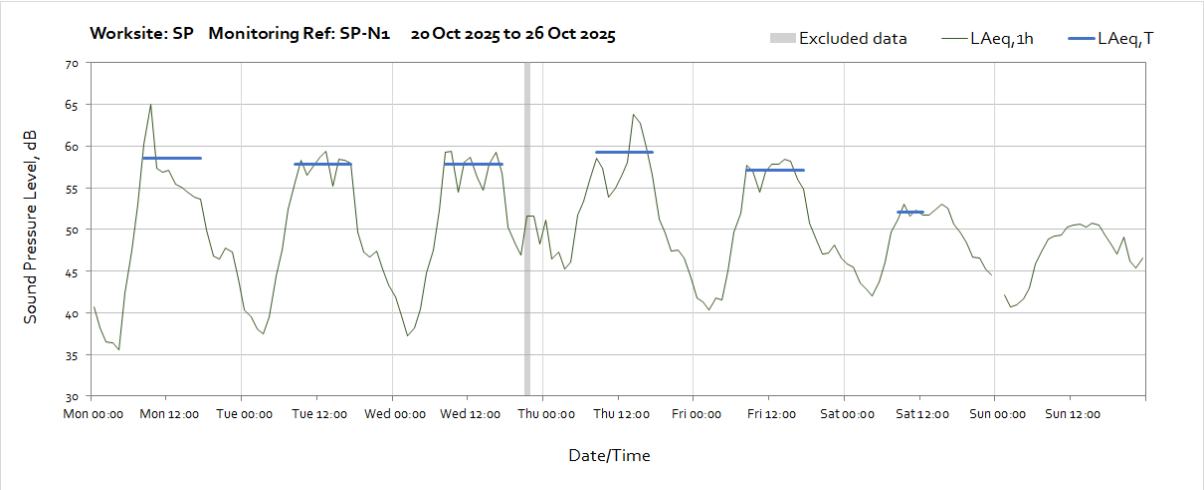


Worksite: SP – Monitoring Ref: SP-N1

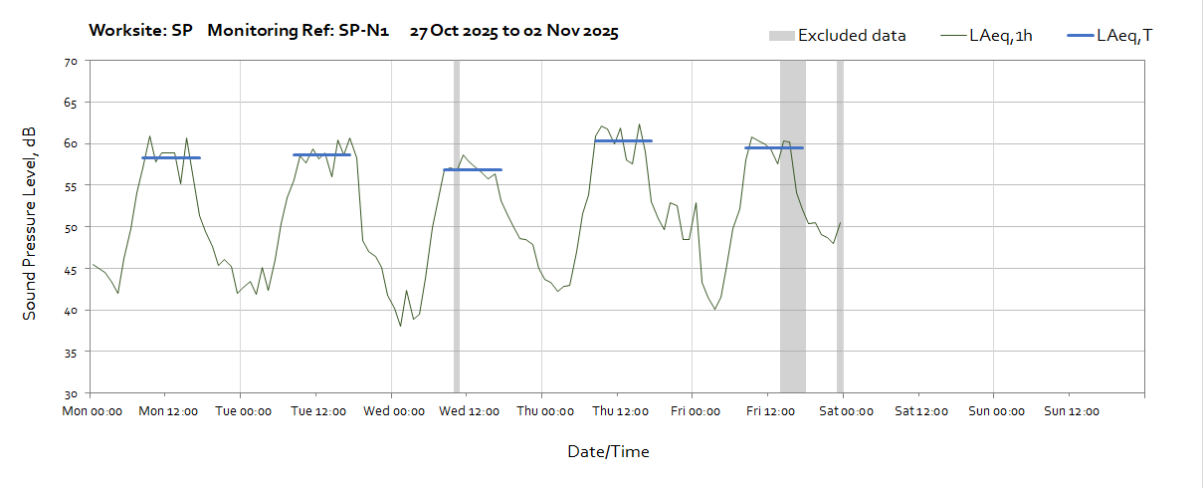




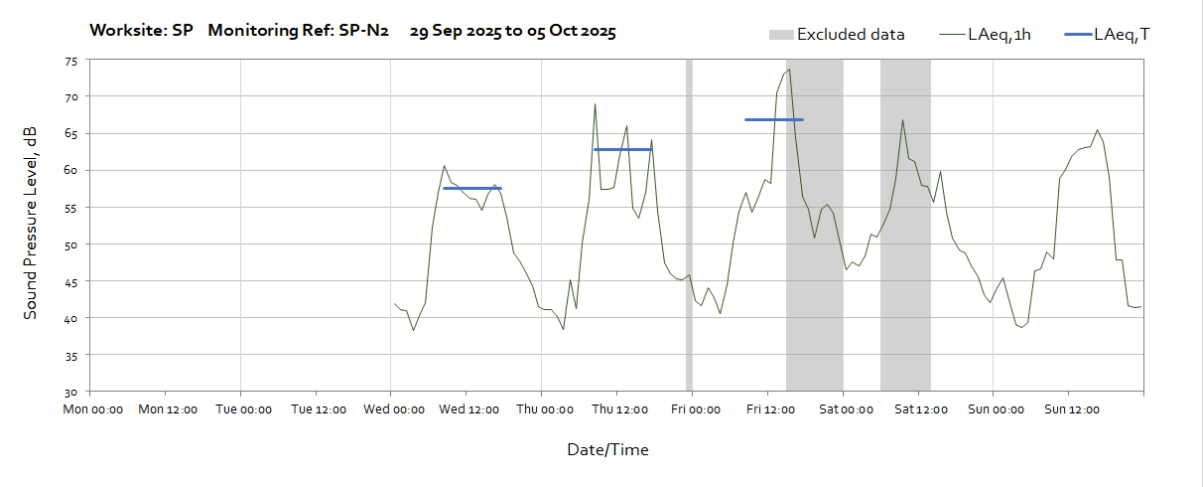


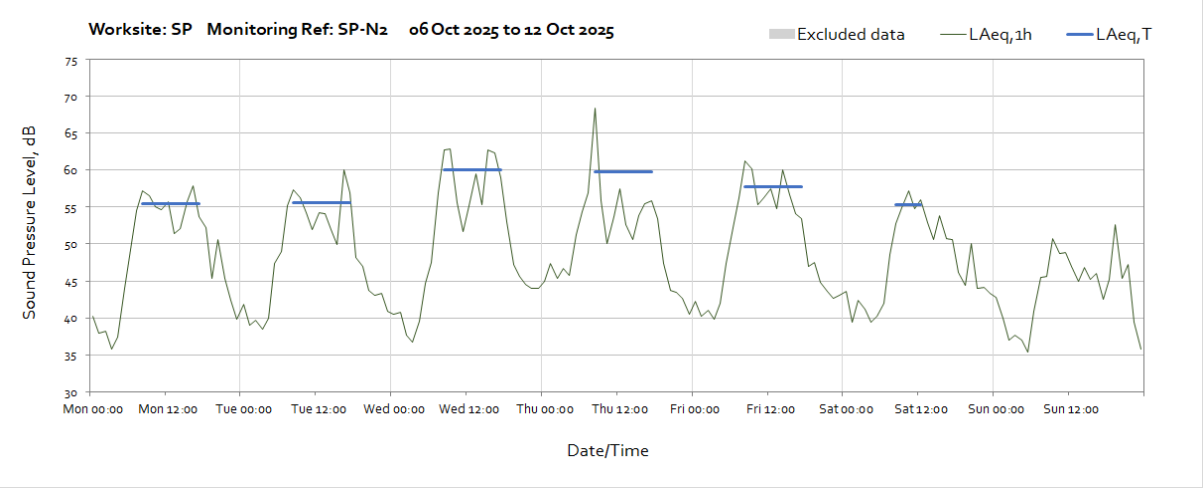


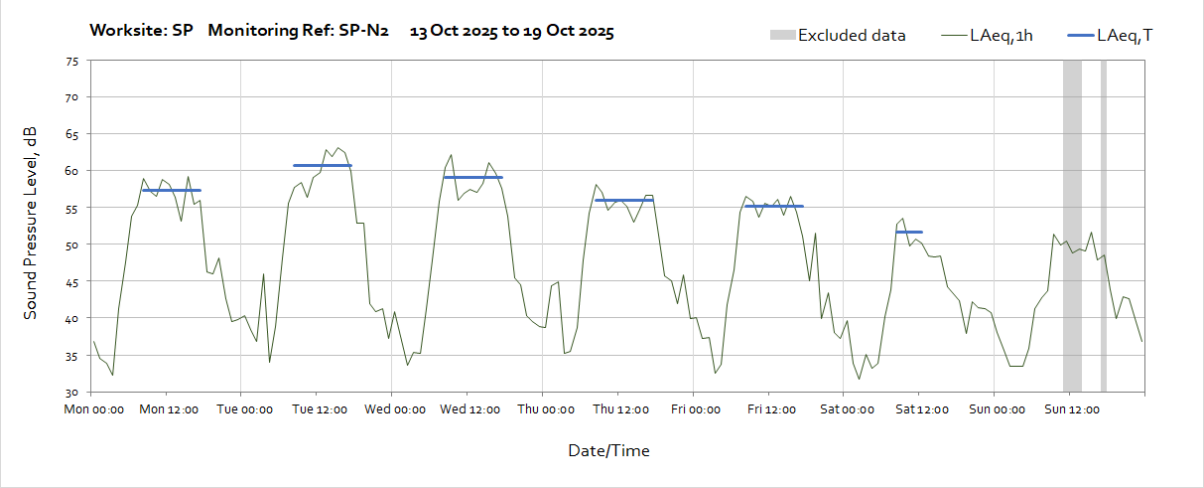
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

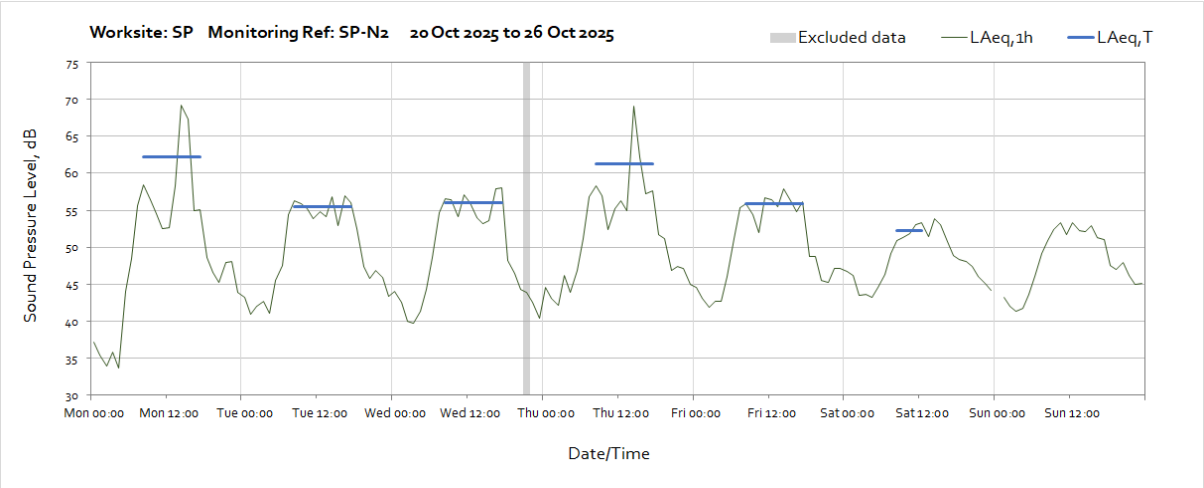


Worksite: SP – Monitoring Ref: SP-N2

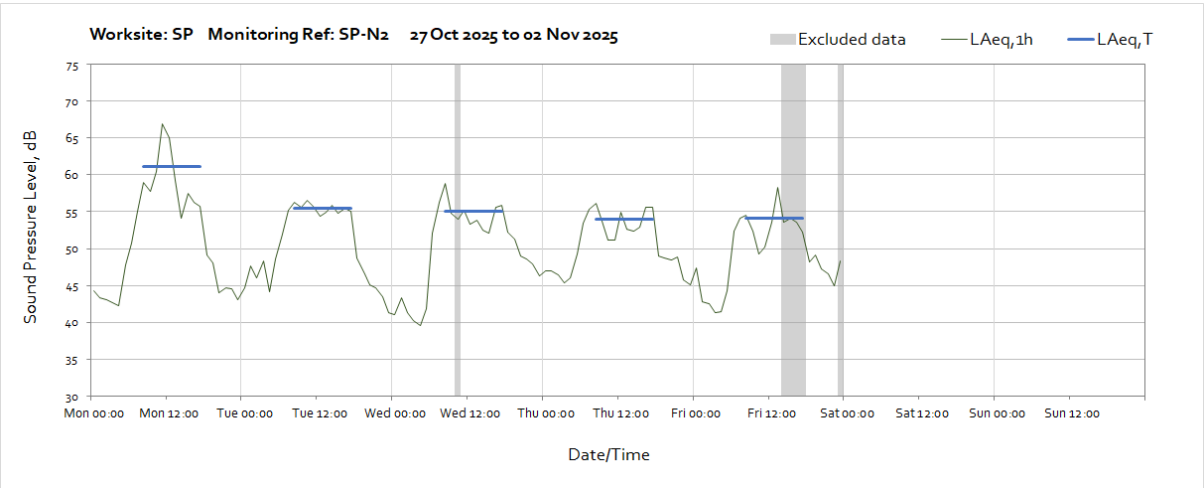




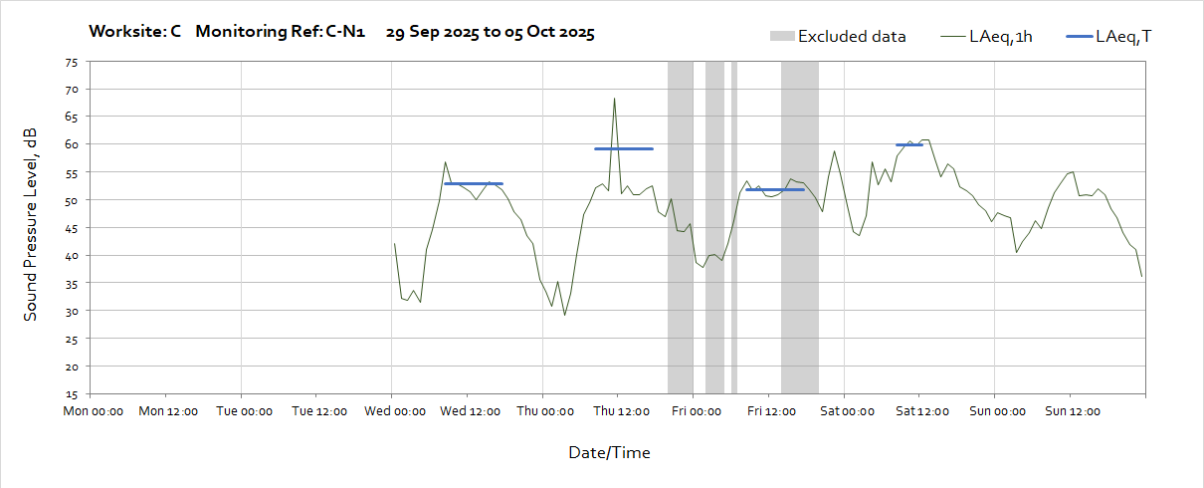


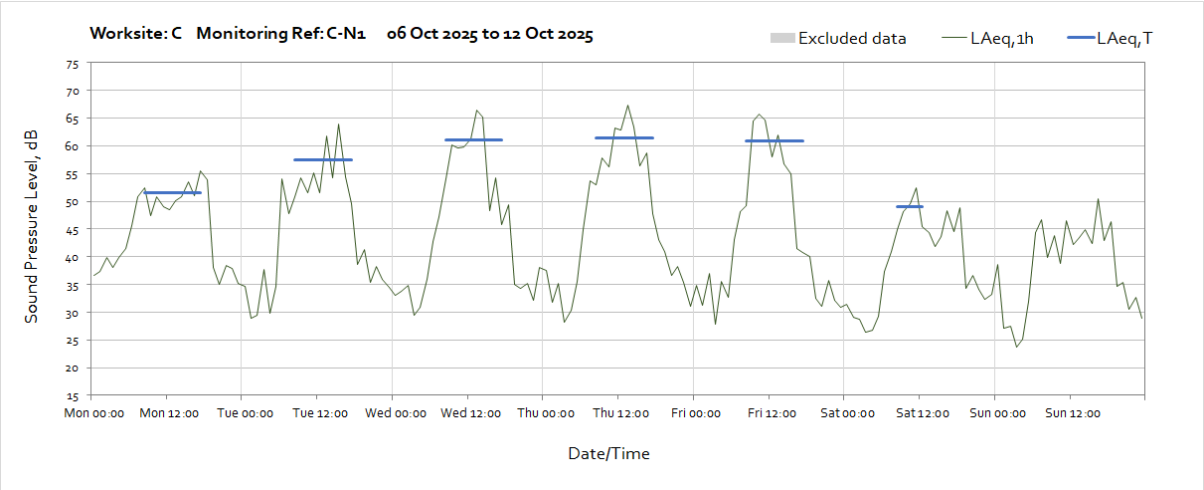


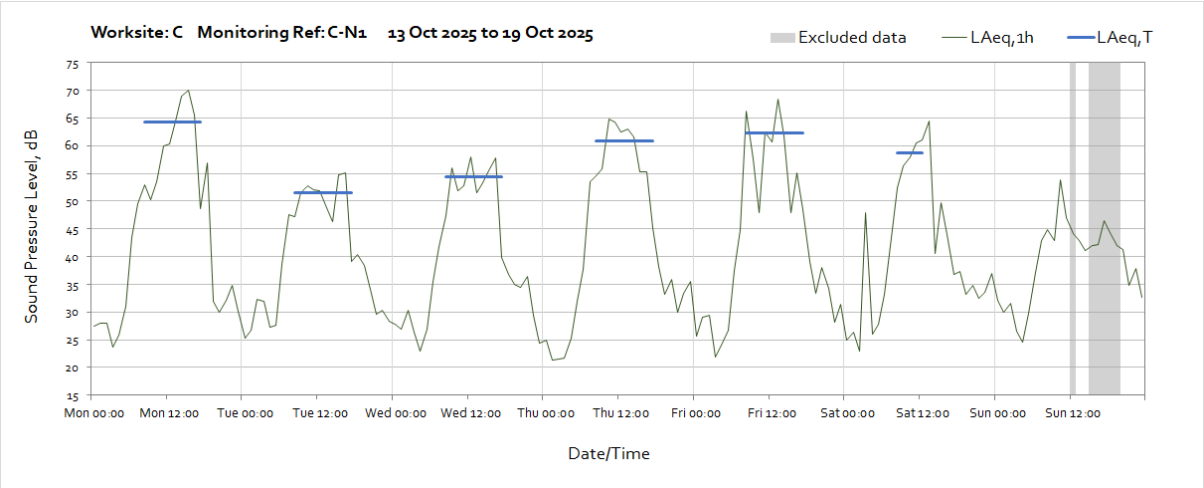
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

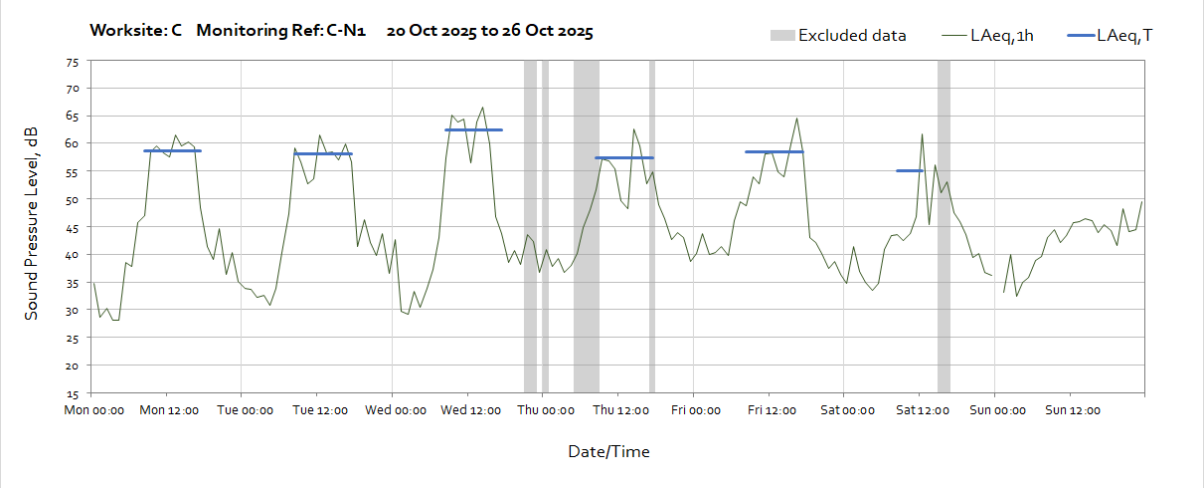


Worksite: C – Monitoring Ref: C-N1

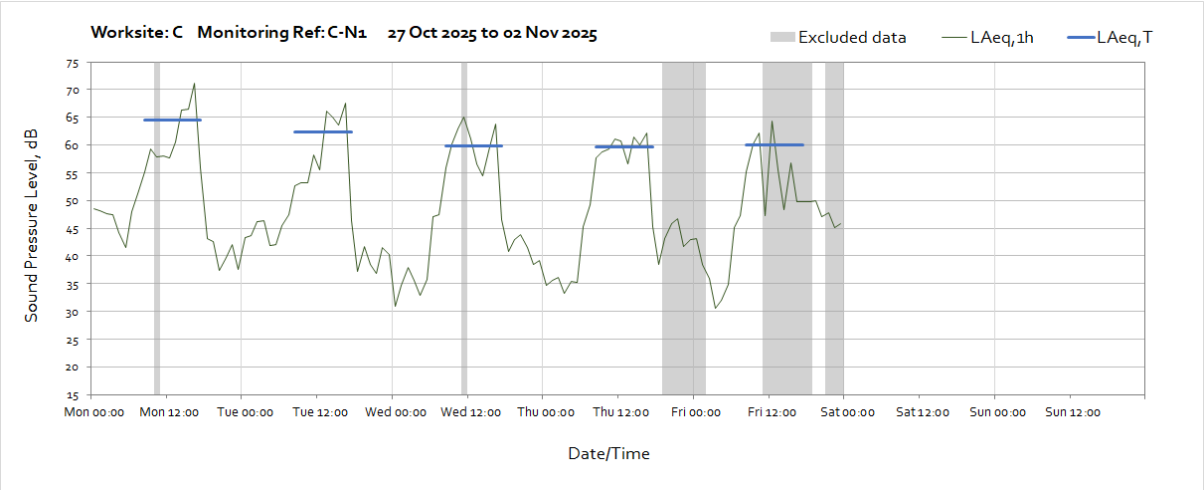




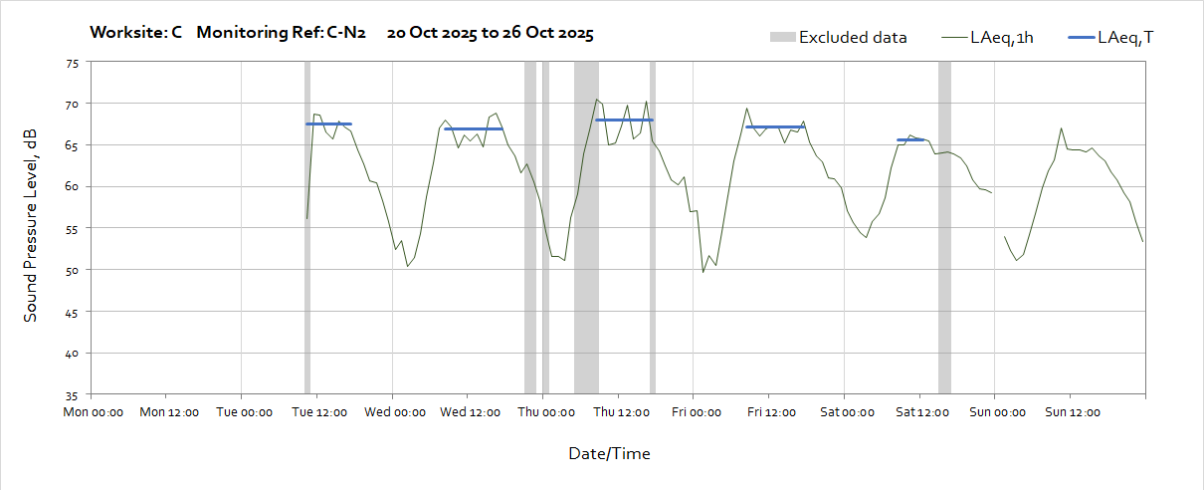




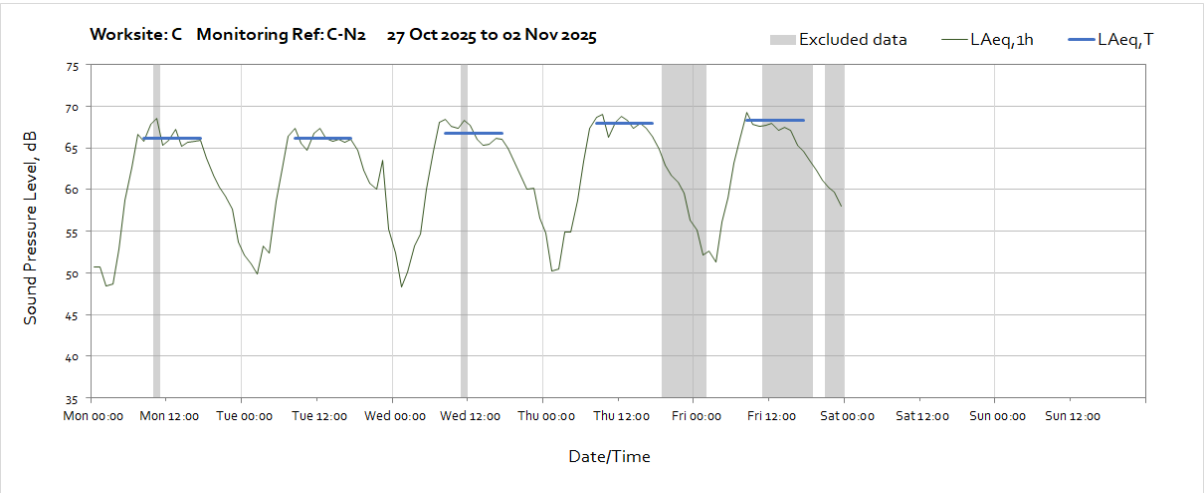
Note: Missing data at 0:00 on Sunday 26th of October was due to clock synchronisation error at the monitoring station



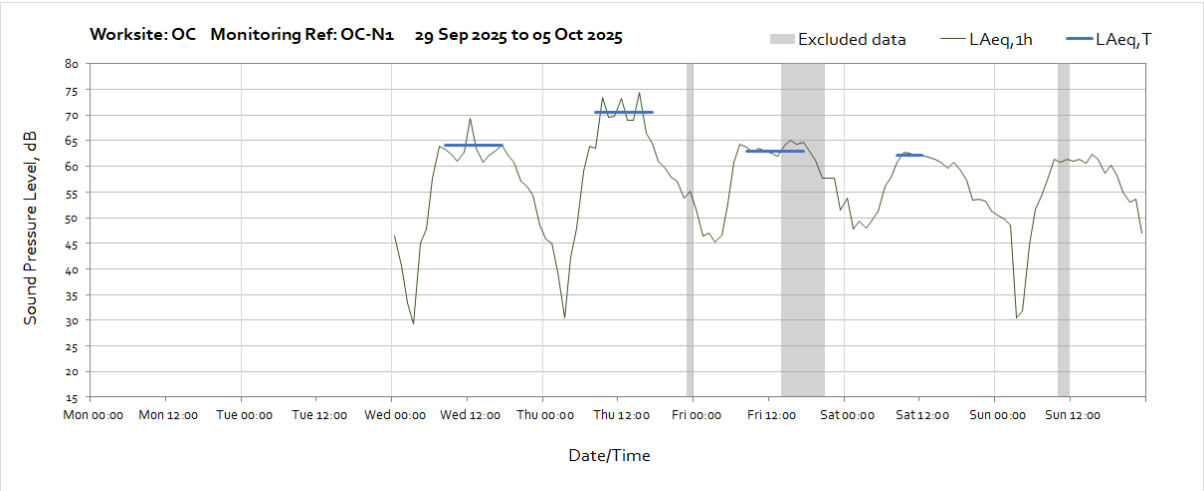
Worksite: C – Monitoring Ref: C-N2

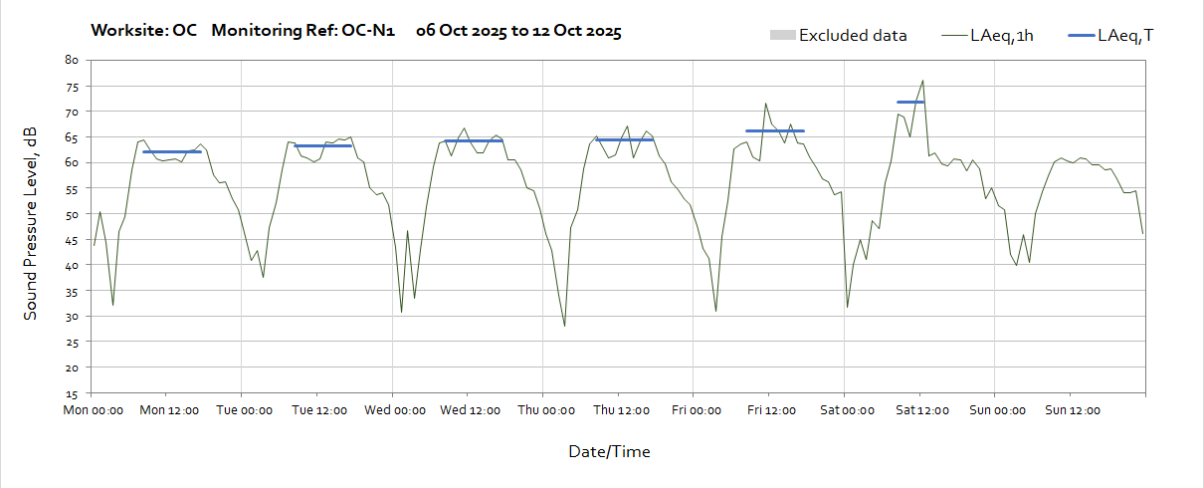


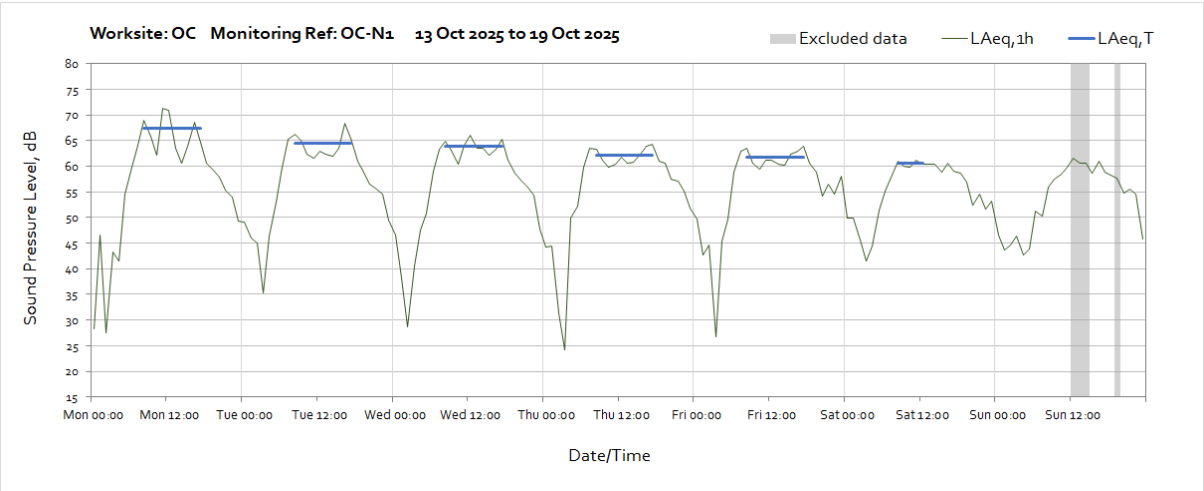
Note: Noise monitor installed at 10:00 on Tuesday 21st October. Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

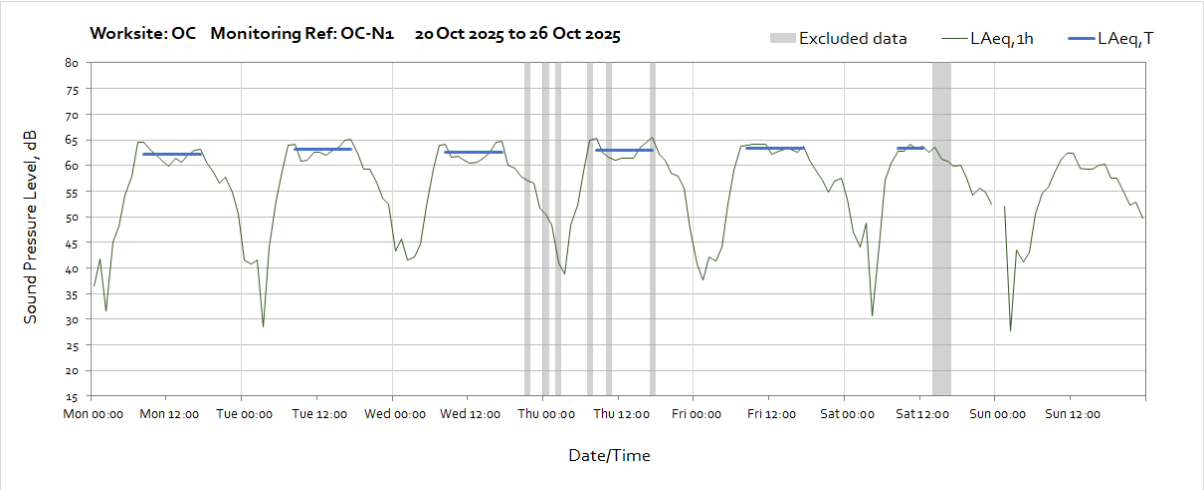


Worksite: OC – Monitoring Ref: OC-N1

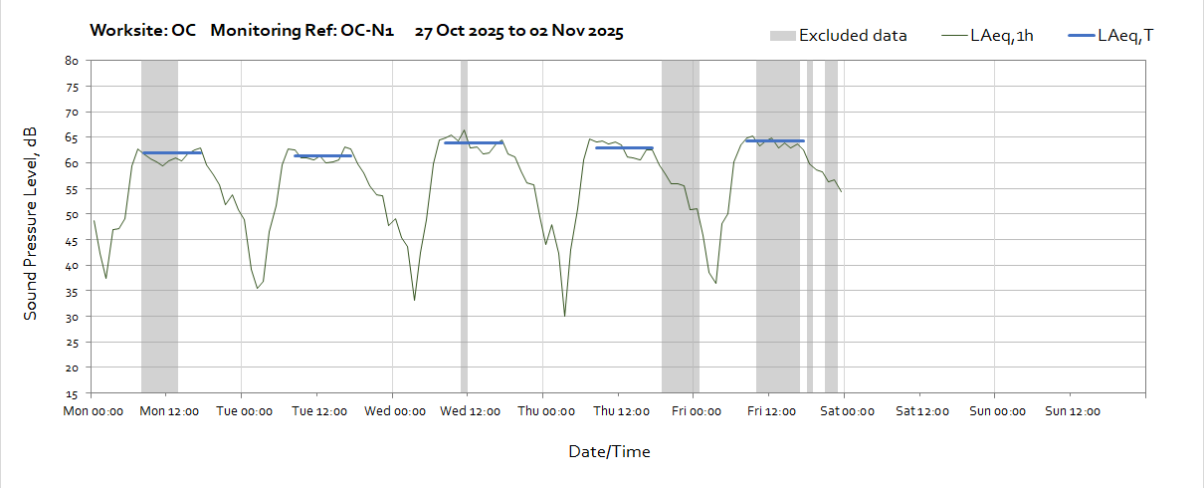




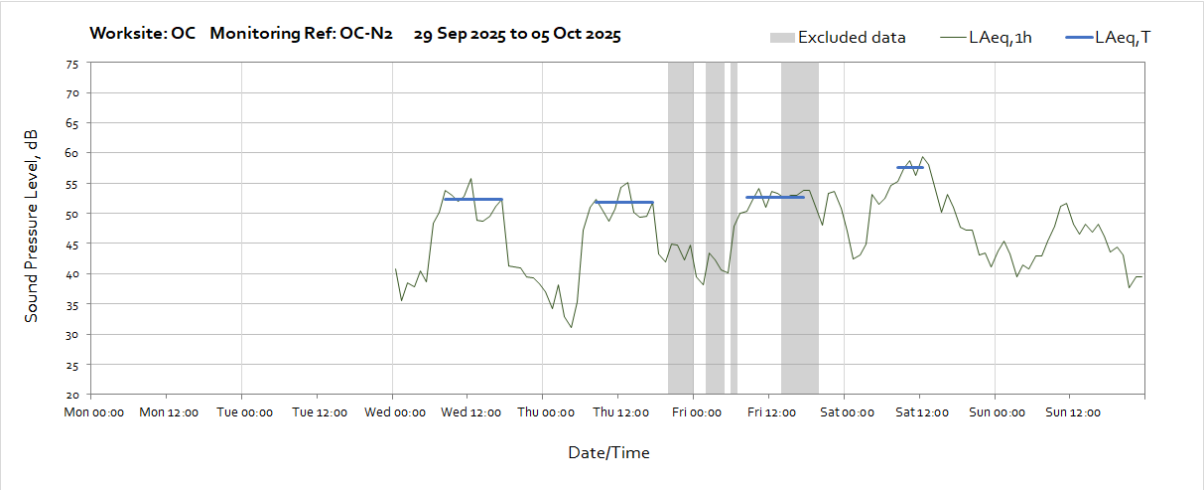


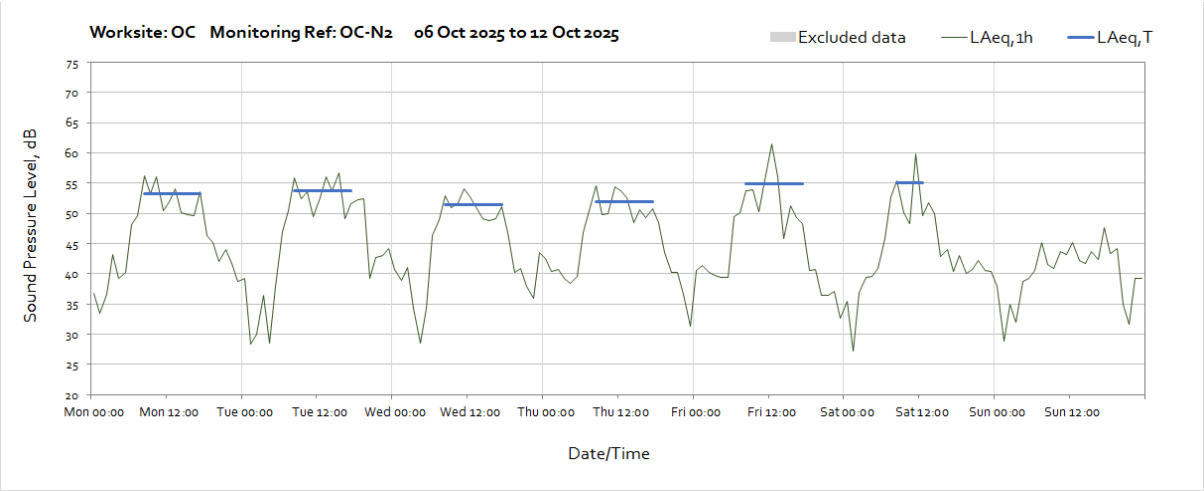


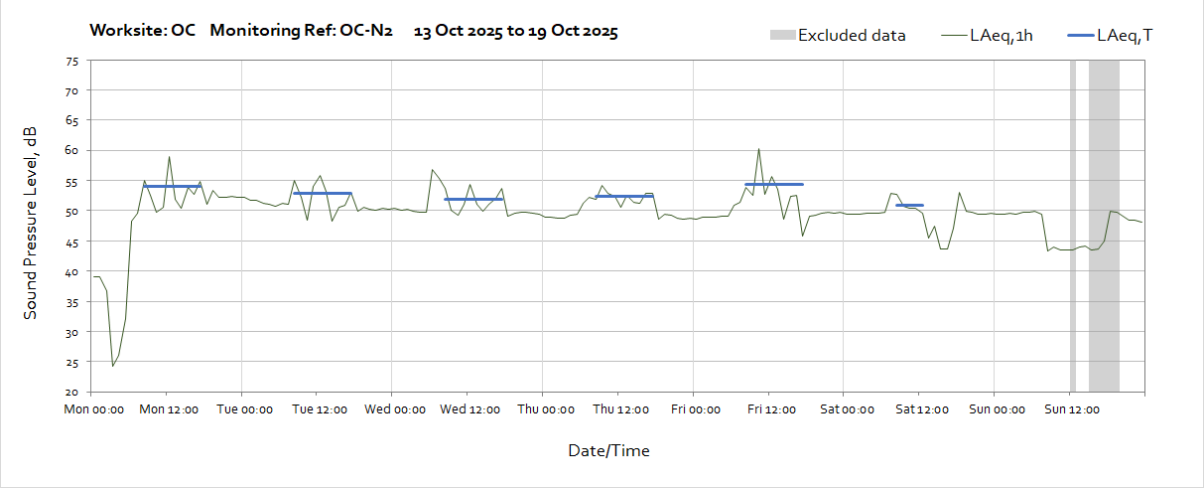
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

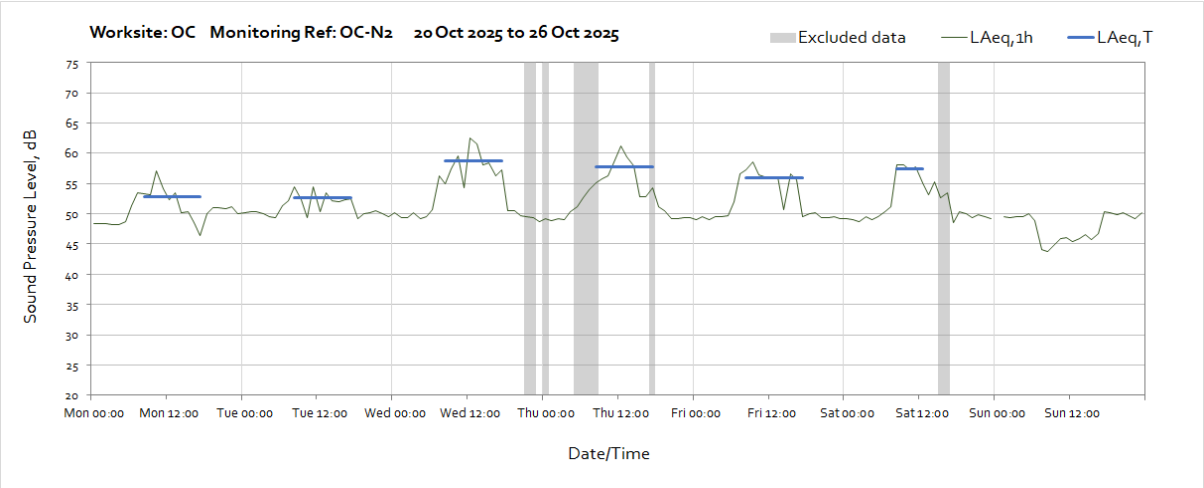


Worksite: OC – Monitoring Ref: OC-N2

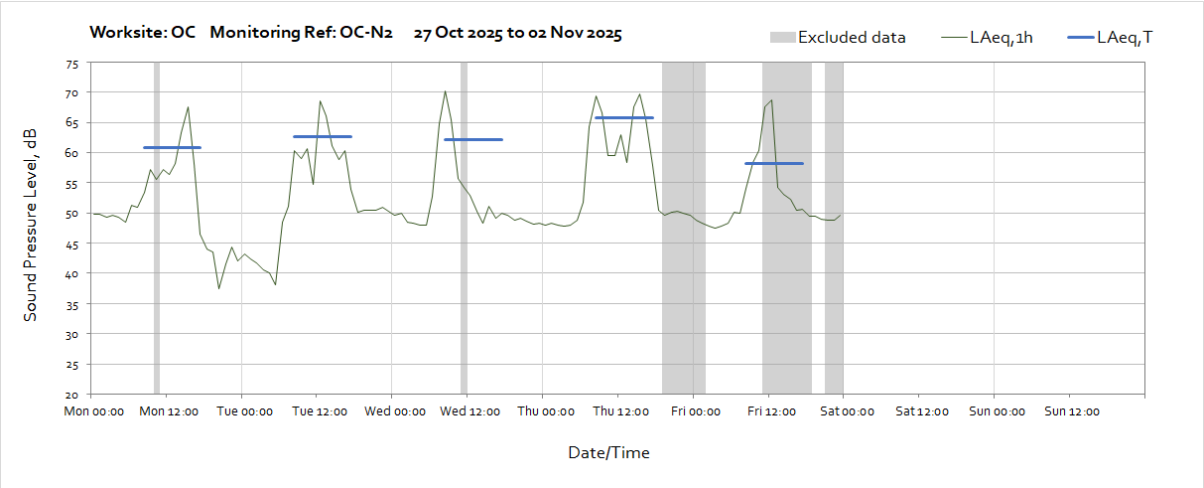




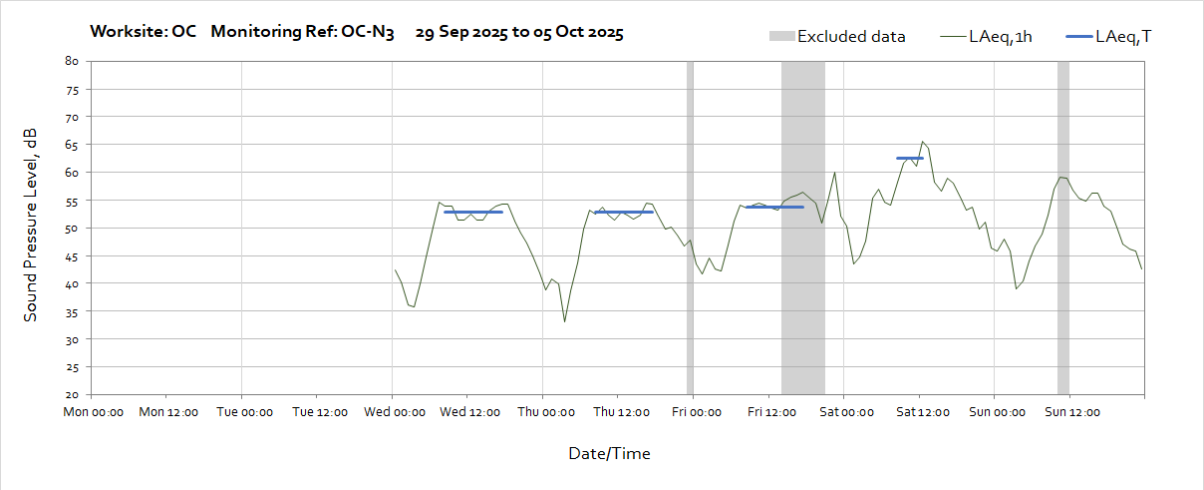


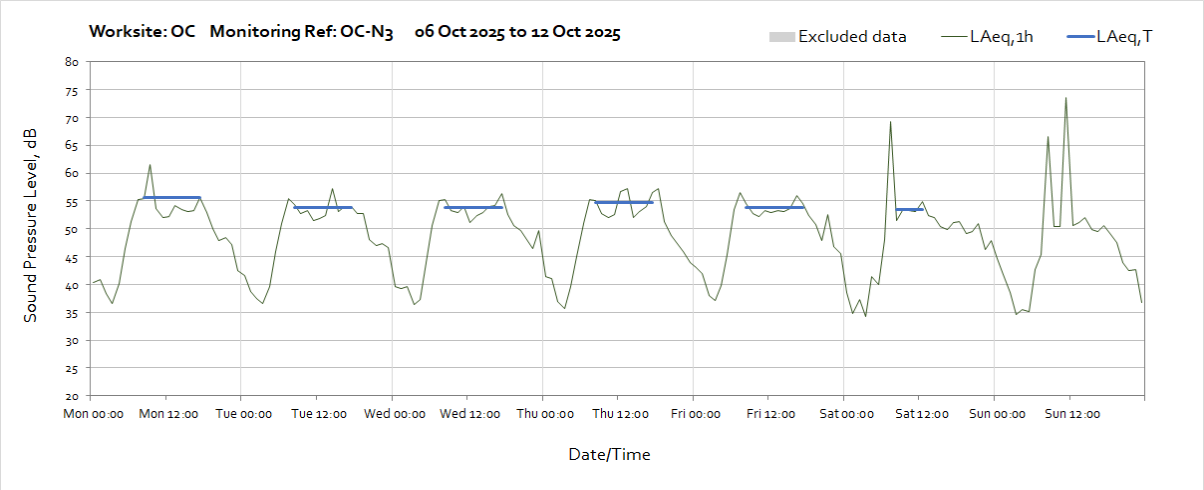


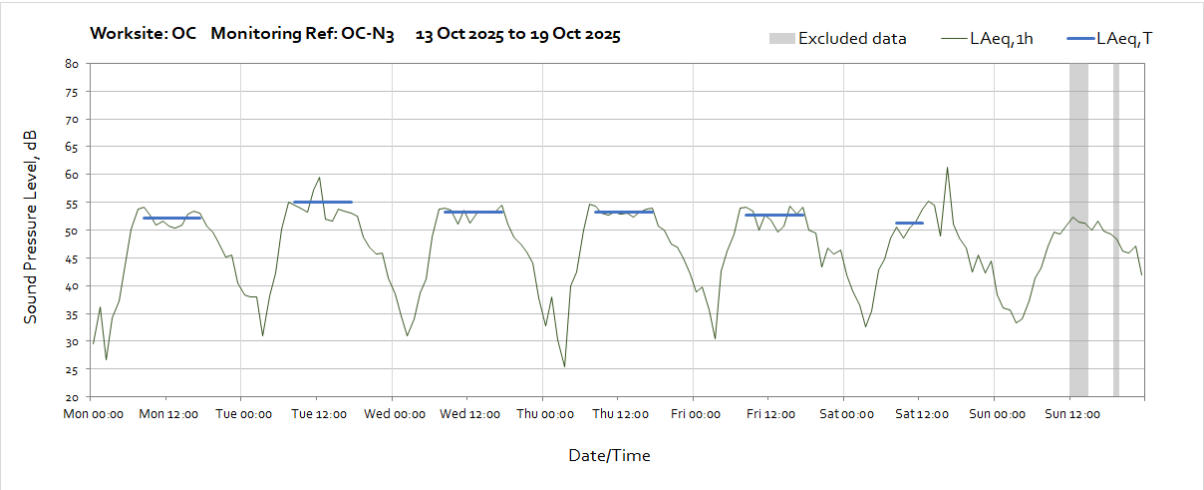
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

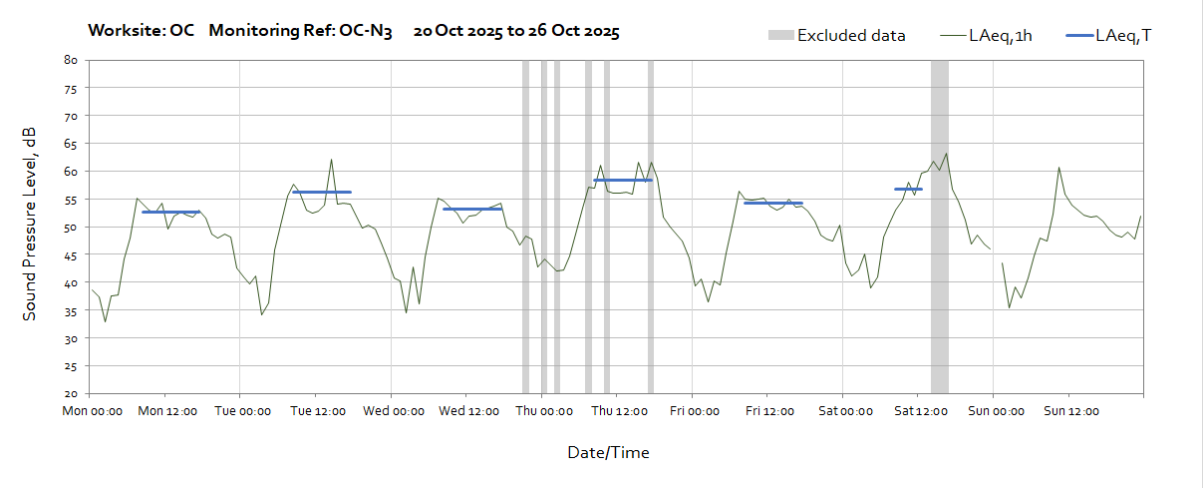


Worksite: OC – Monitoring Ref: OC-N3

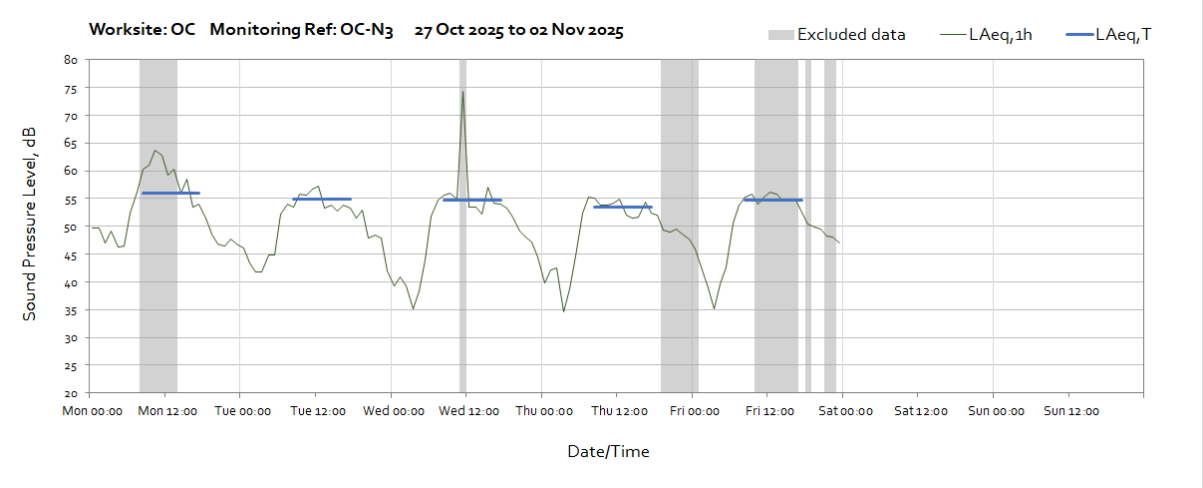




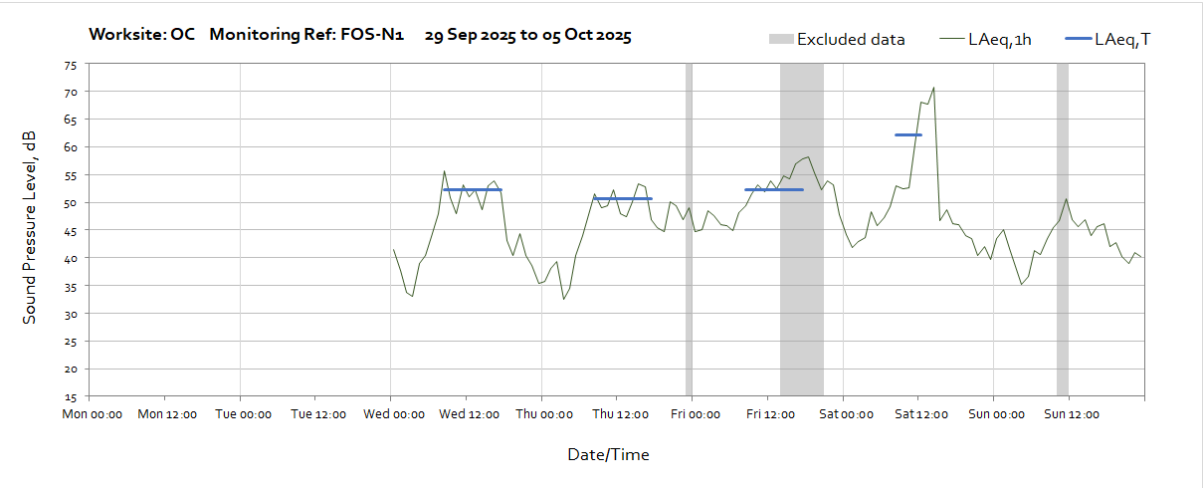


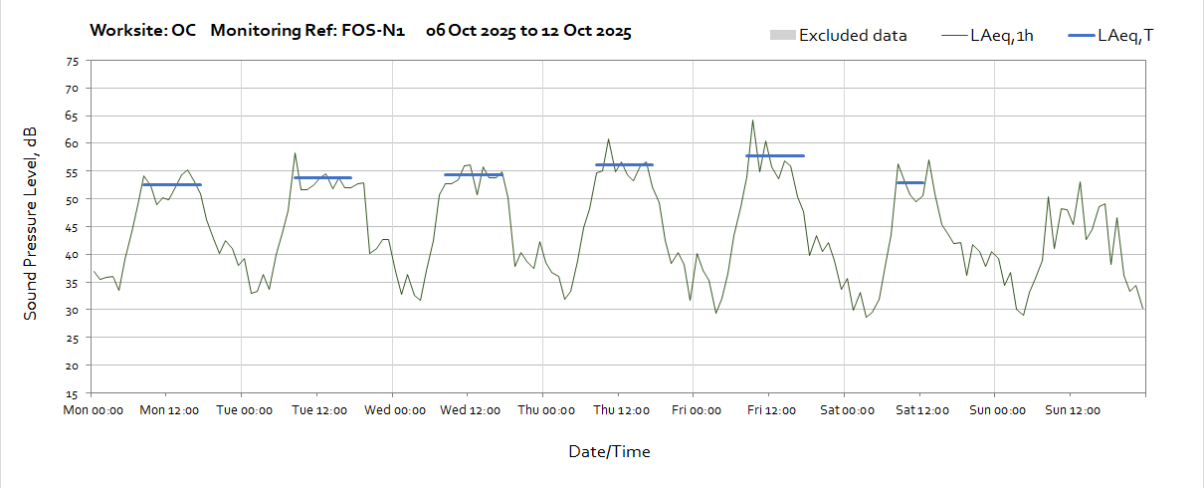


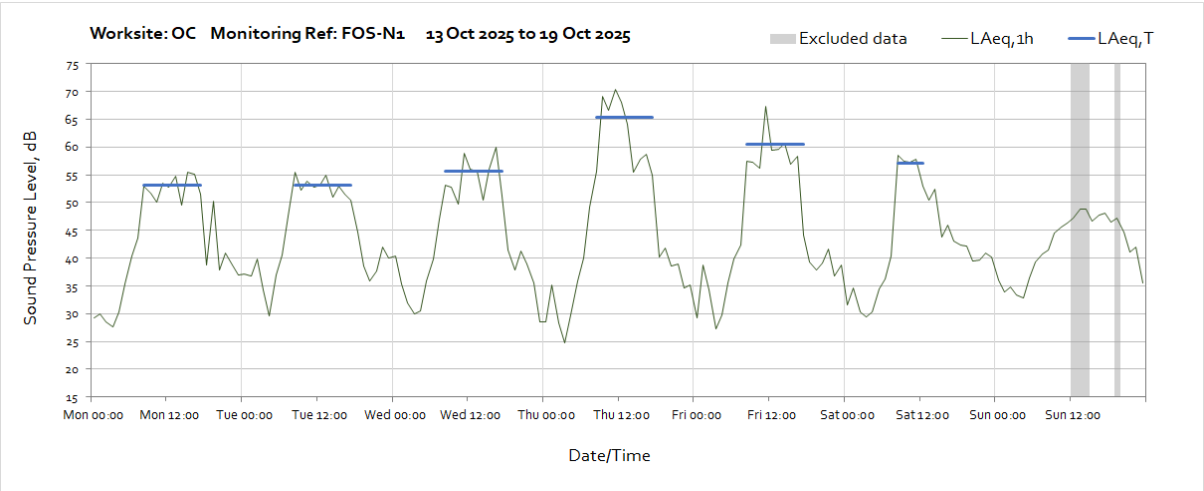
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

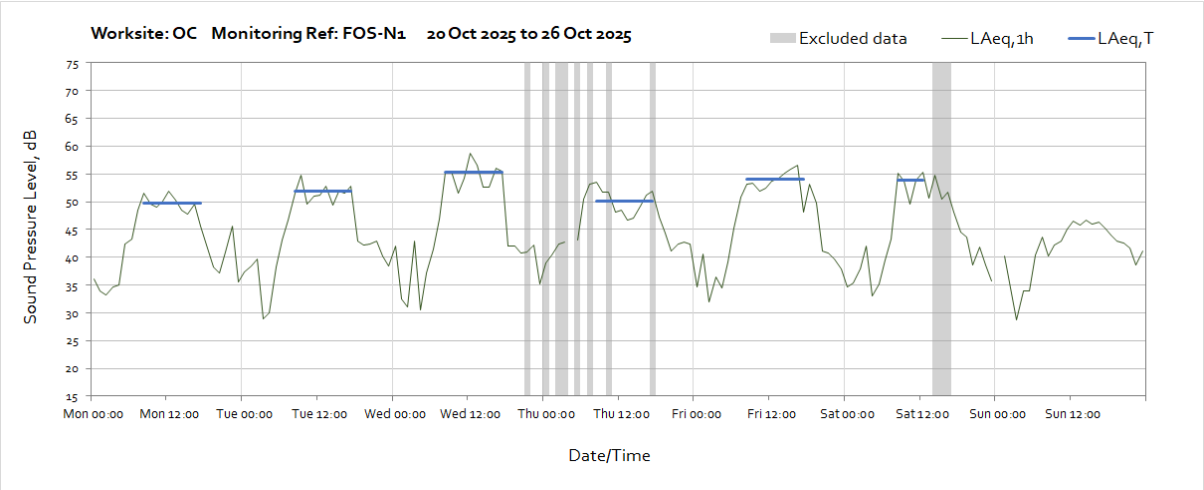


Worksite: OC – Monitoring Ref: FOS-N1

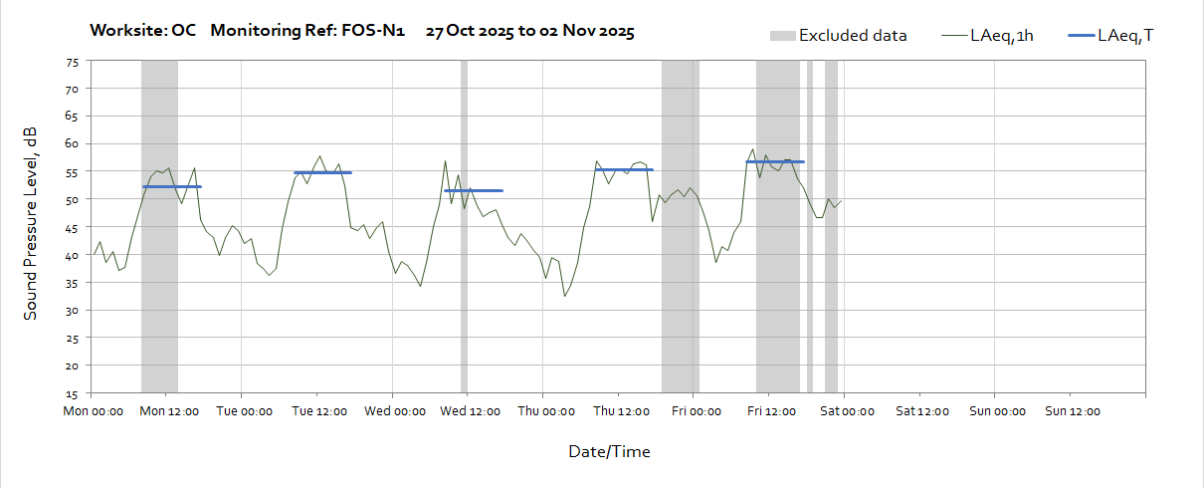








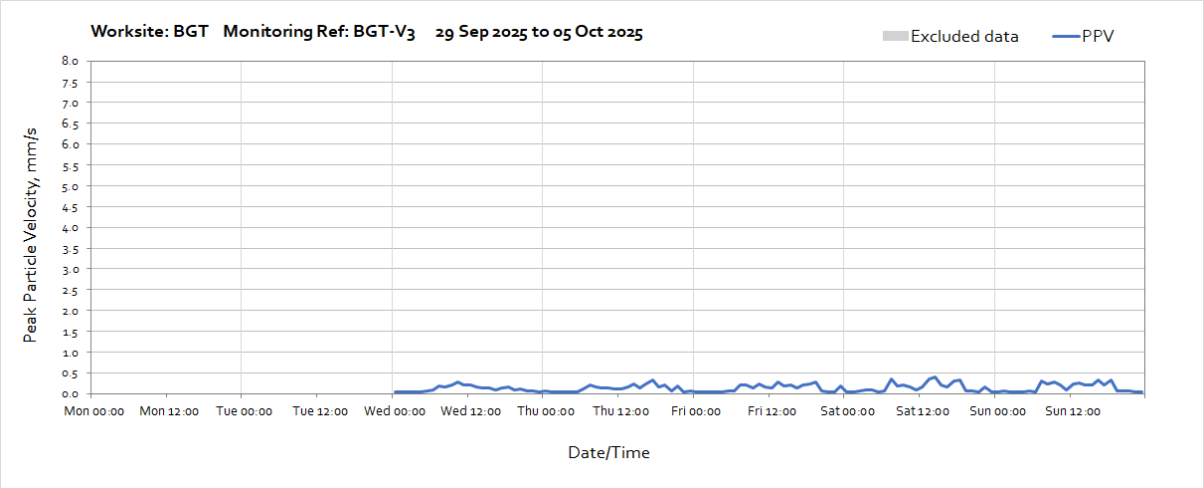
Note: Missing data between 04:00 and 05:00 on Thursday 23rd of October was due to a communication error between the system and the monitoring station. Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

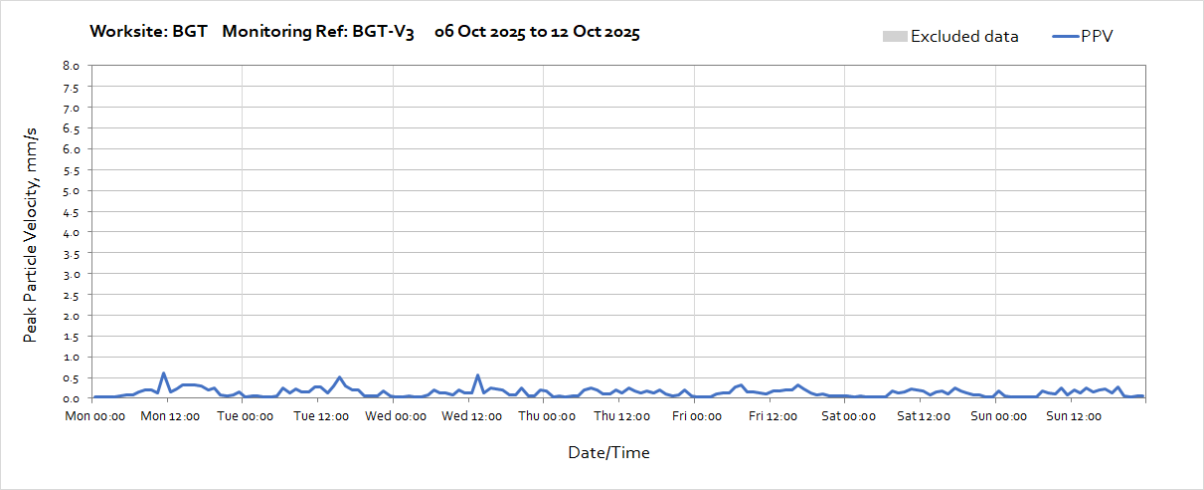

Worksite: OC Monitoring Ref: FOS-N1 27 Oct 2025 to 02 Nov 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
70
65
60
55
50
45
40
35
30
25
20
15
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

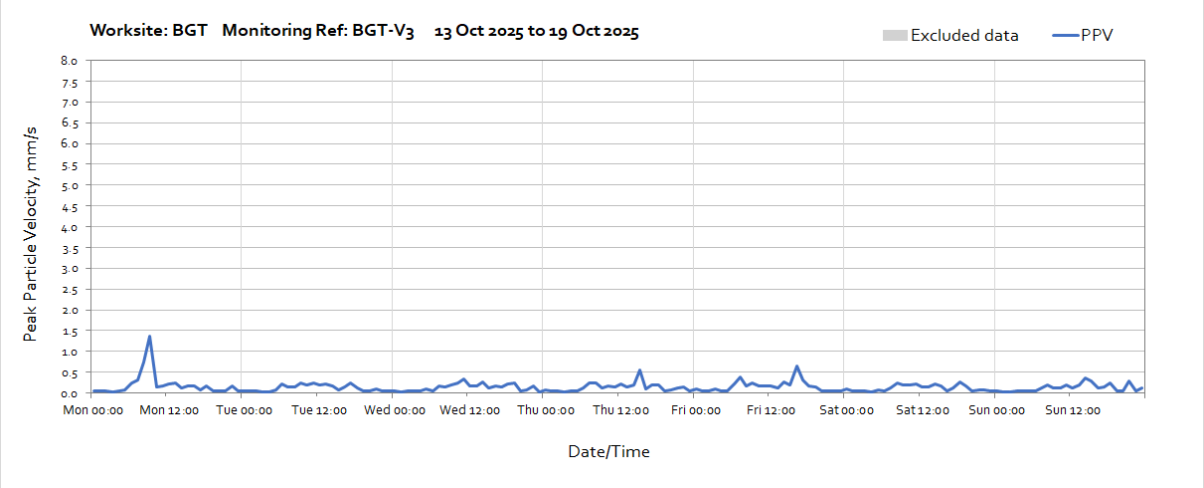
Vibration

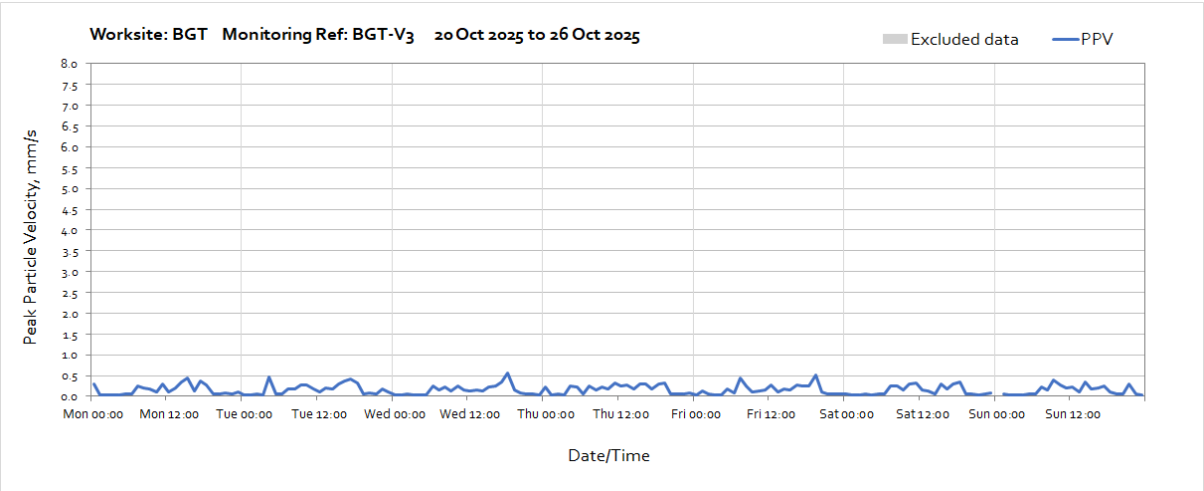
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axes x, y and z. Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part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

Worksite: BGT – Monitoring Ref: BGT-V3

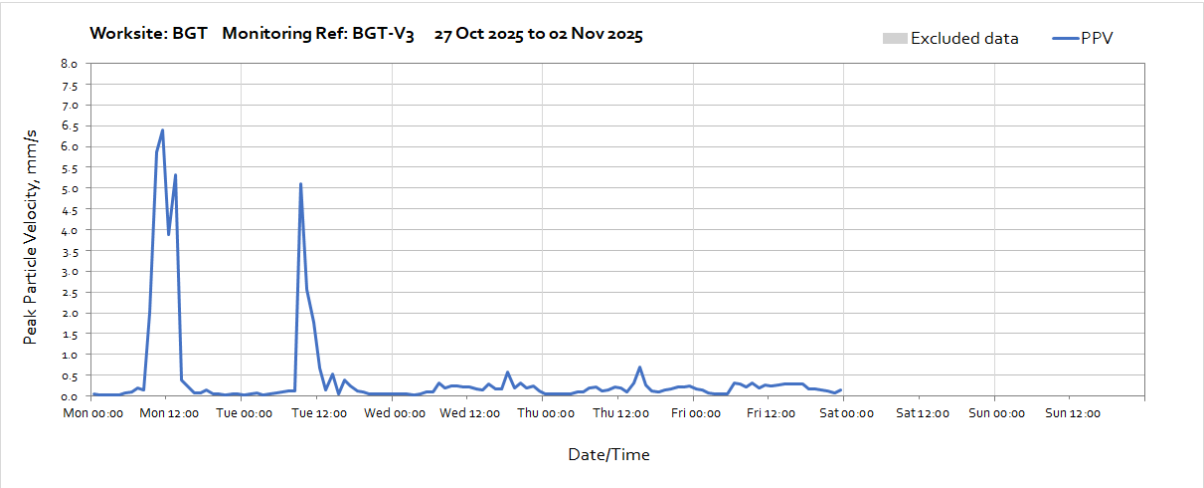




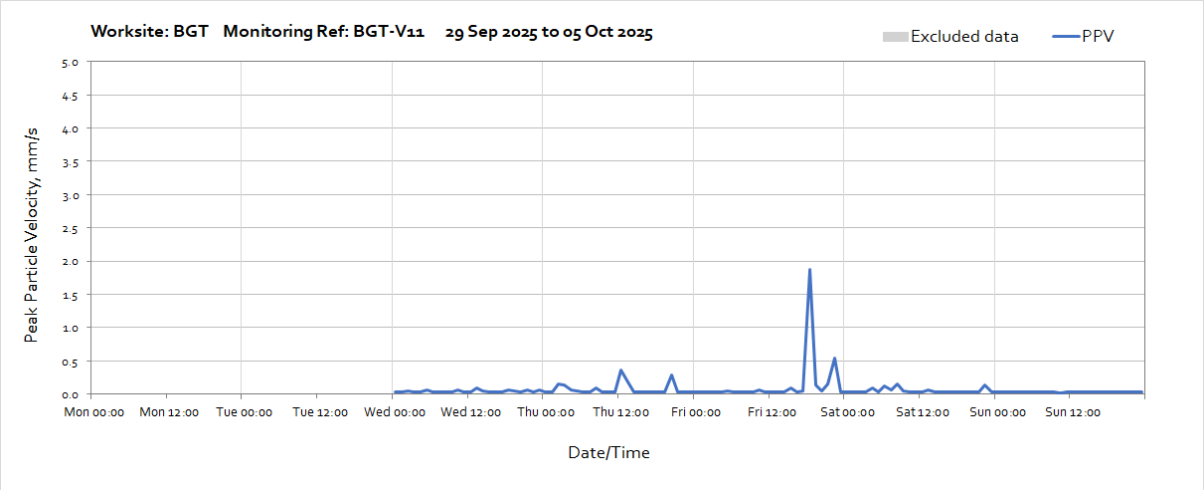


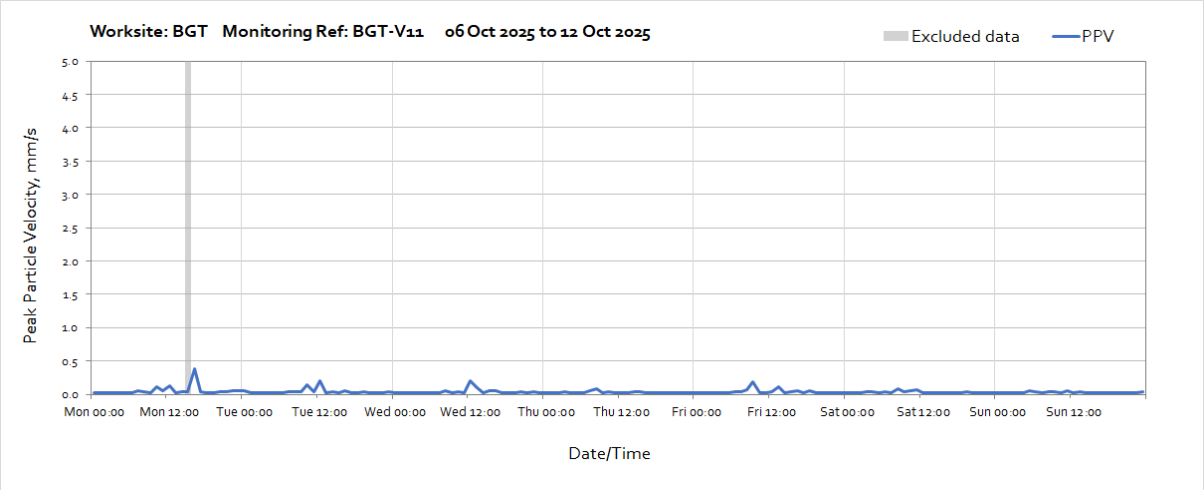


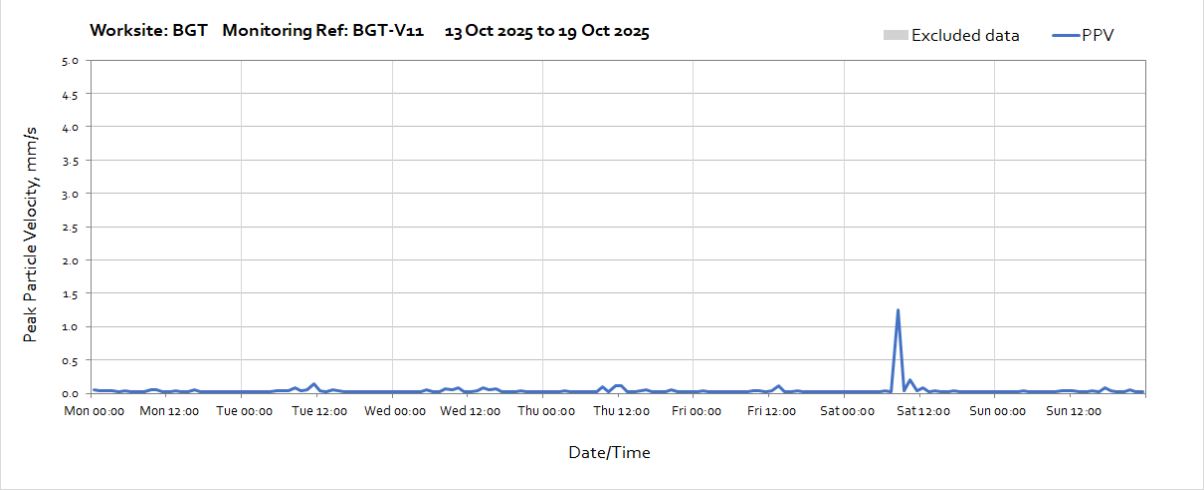
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

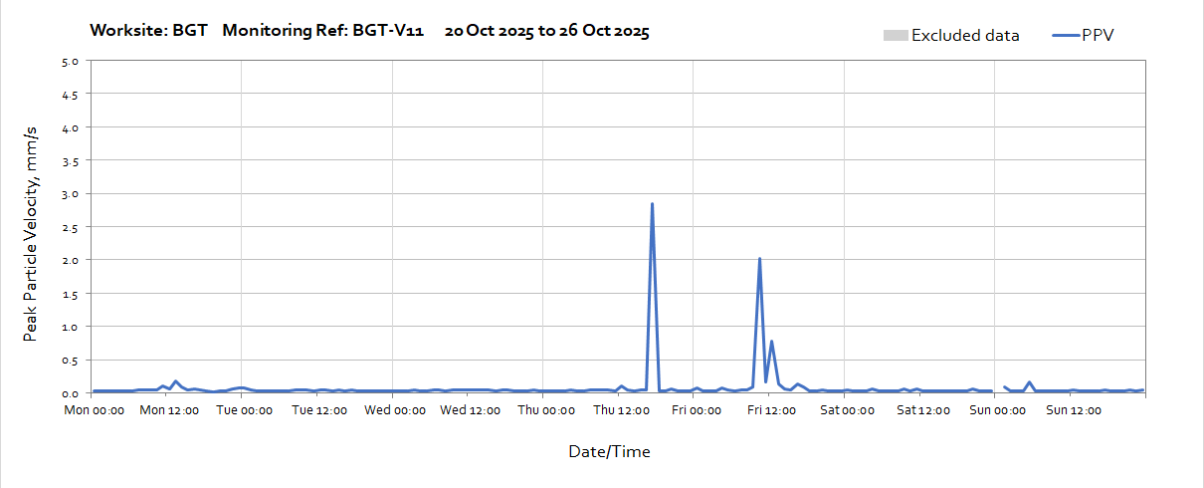


Worksite: BGT – Monitoring Ref: BGT-V11

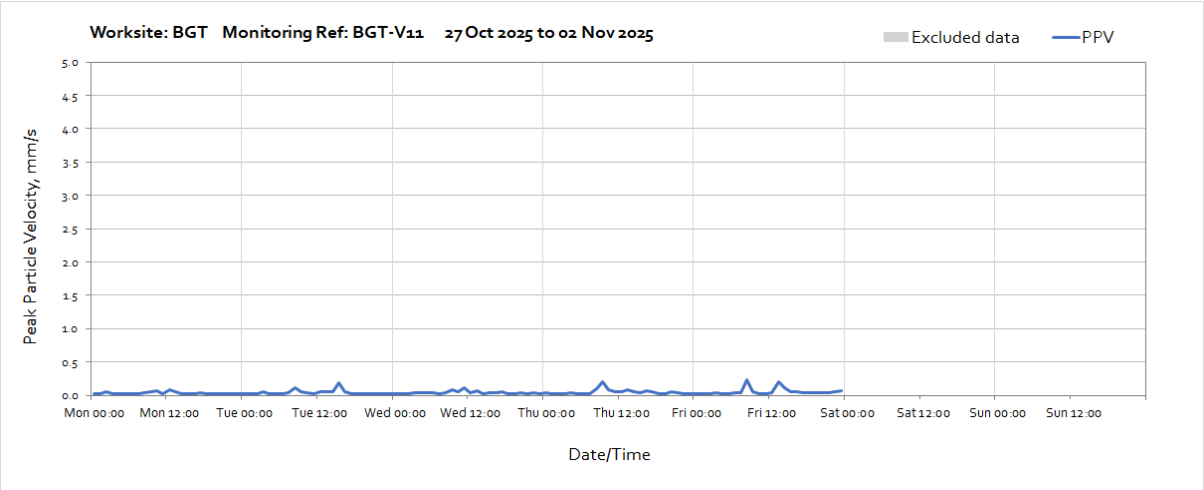




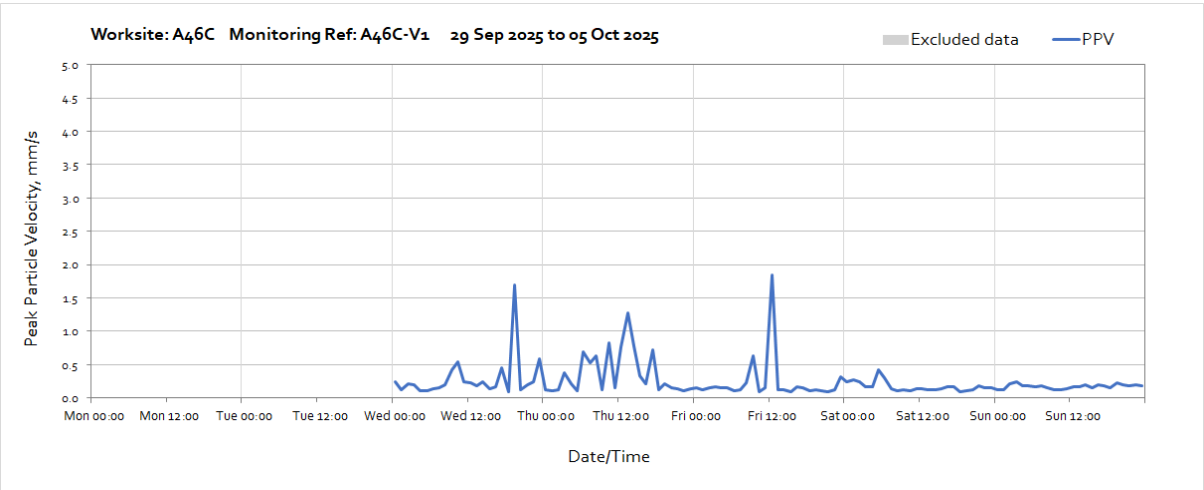


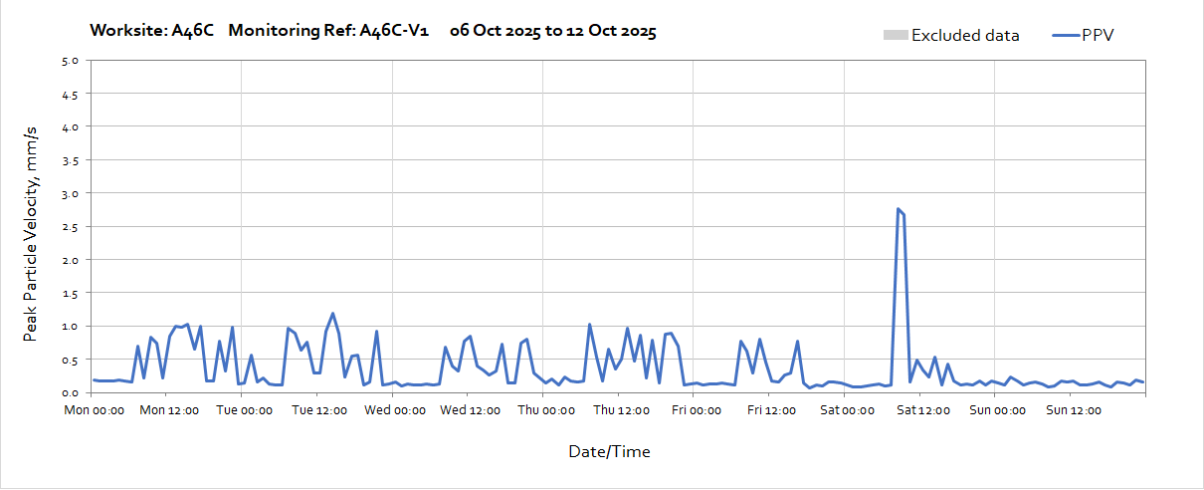


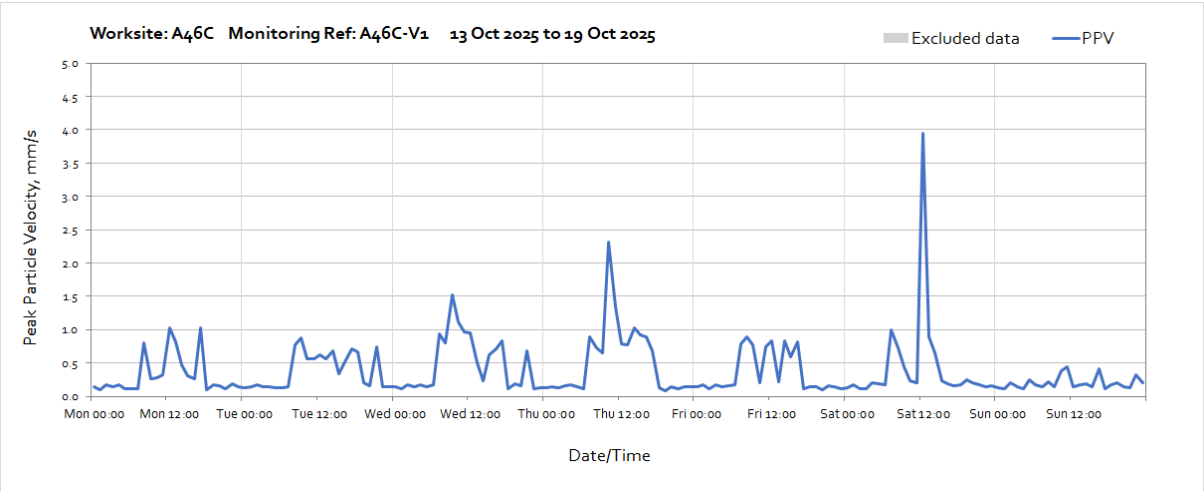
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

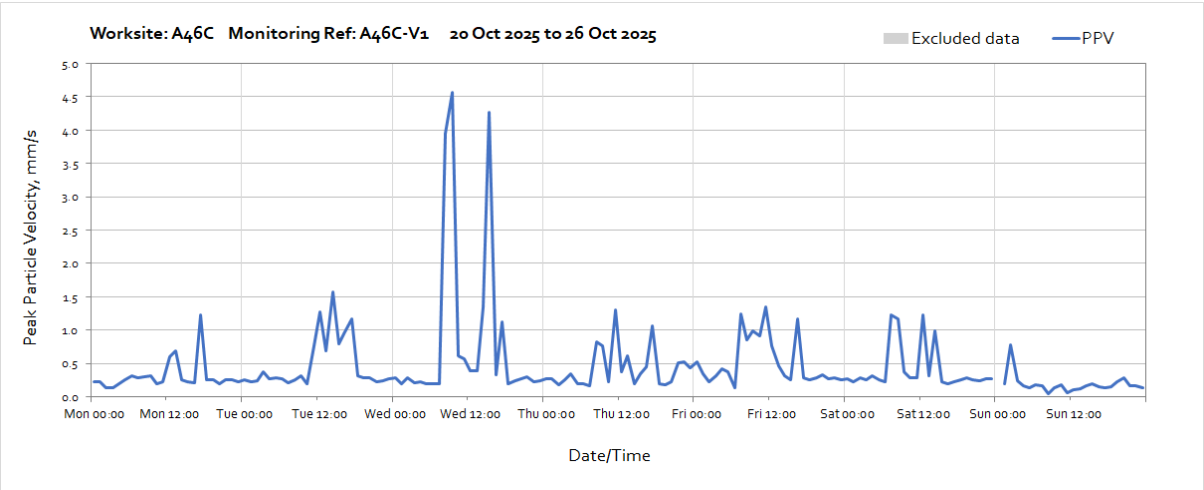


Worksite: A46C – Monitoring Ref: A46C-V1

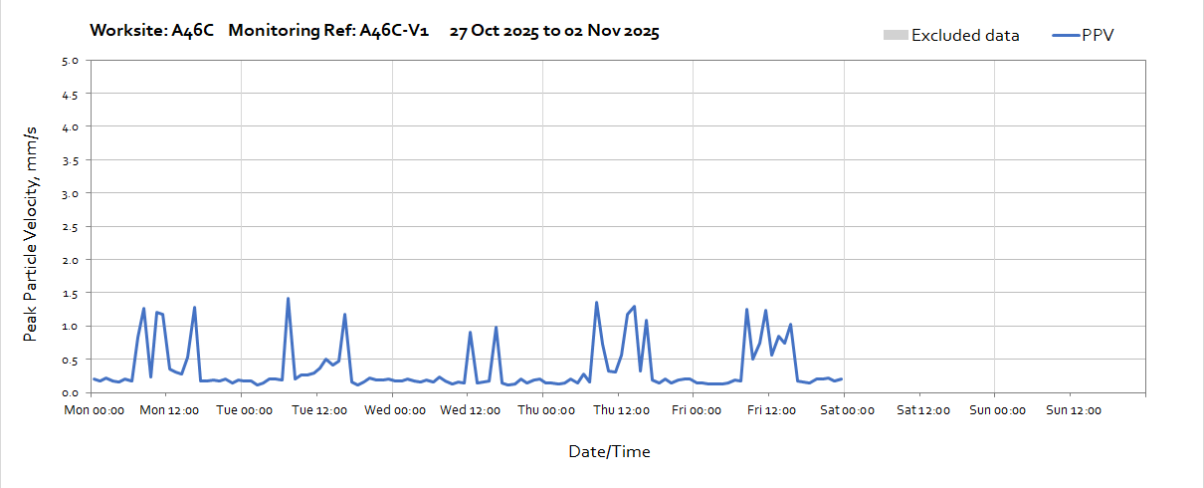




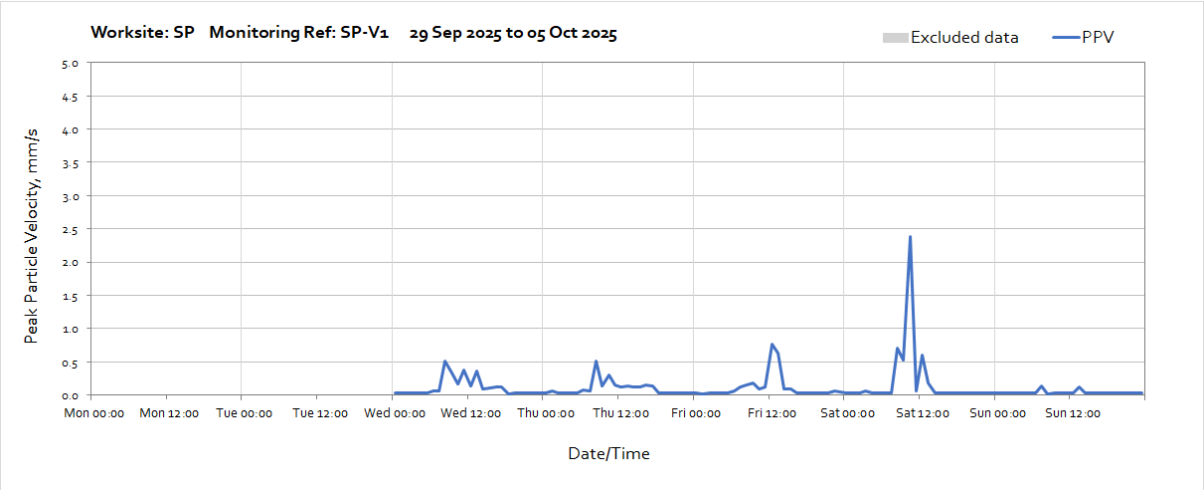


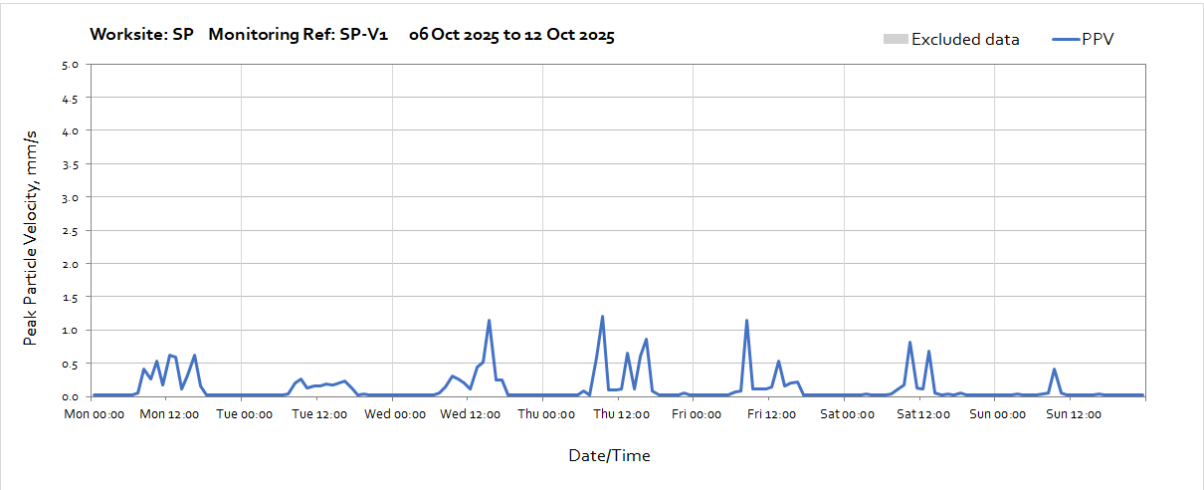


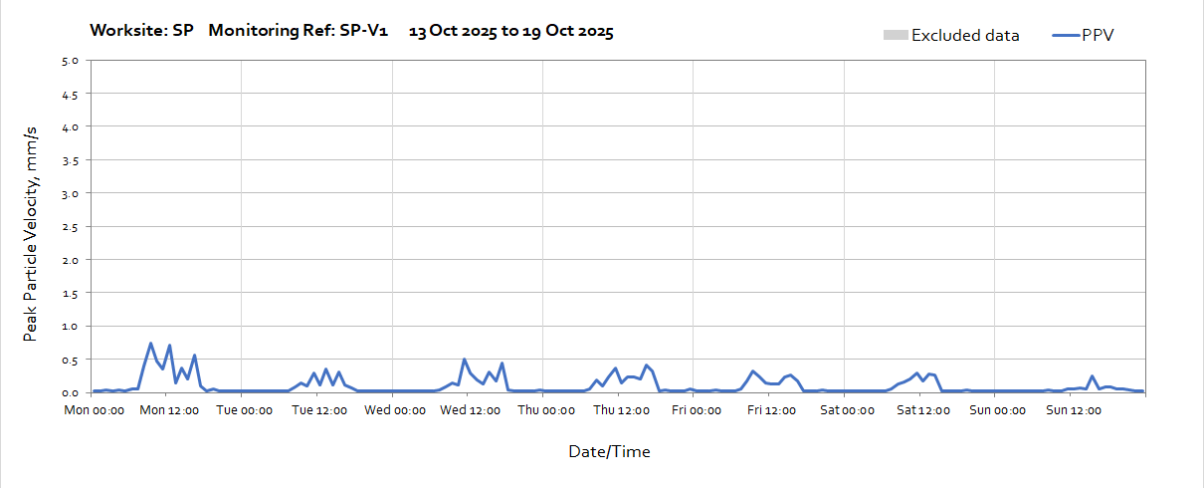
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

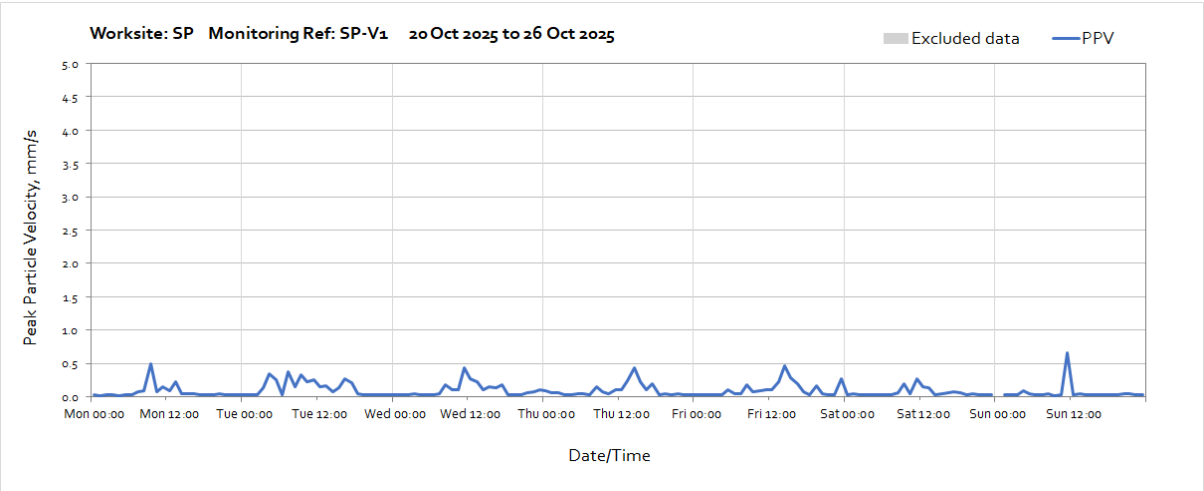


Worksite: SP – Monitoring Ref: SP-V1

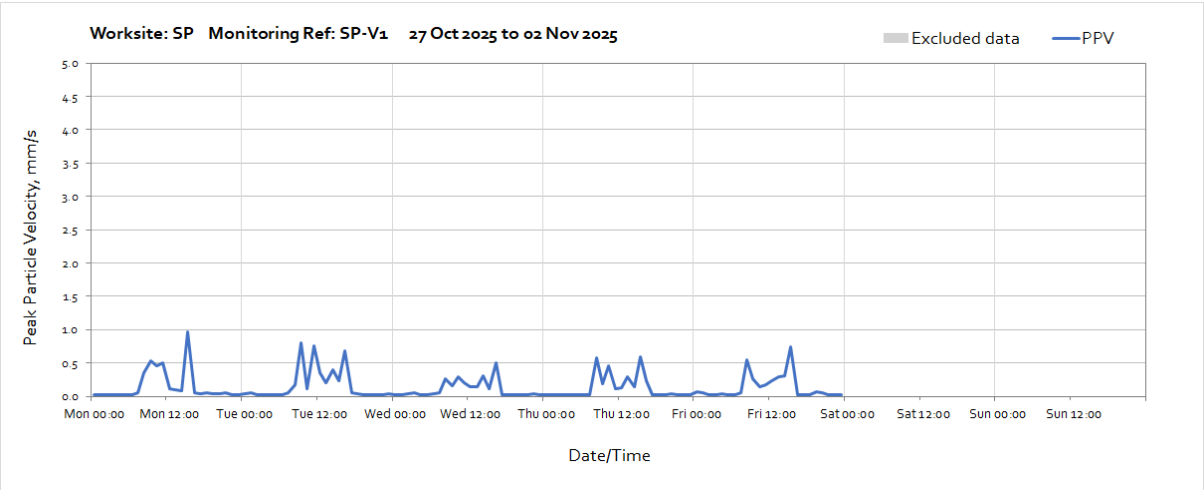




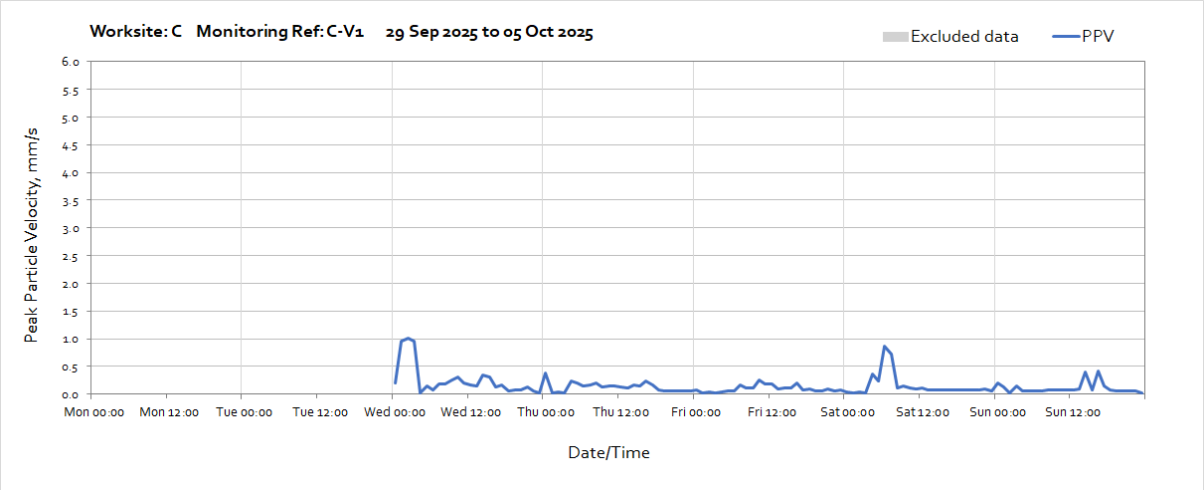


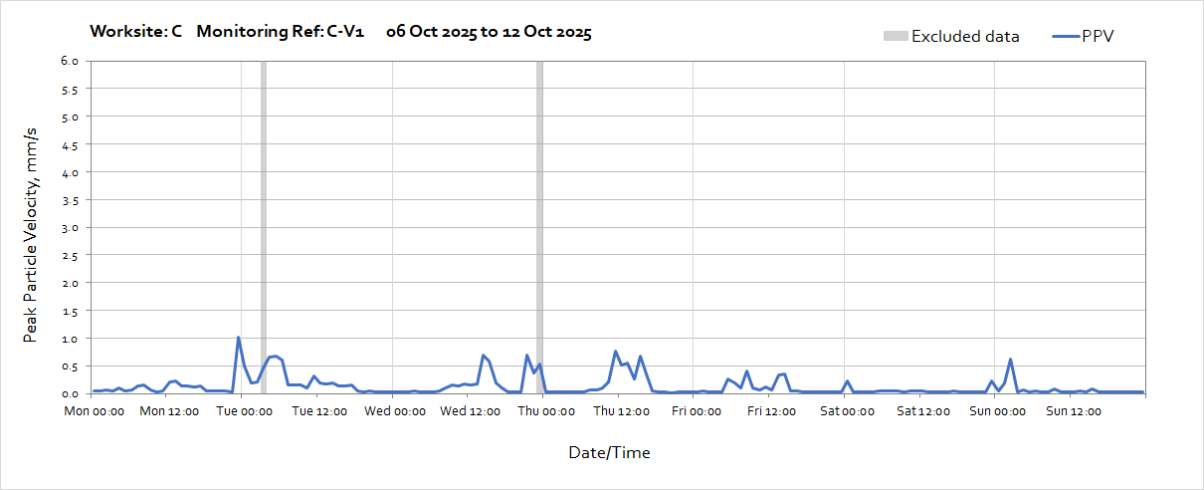


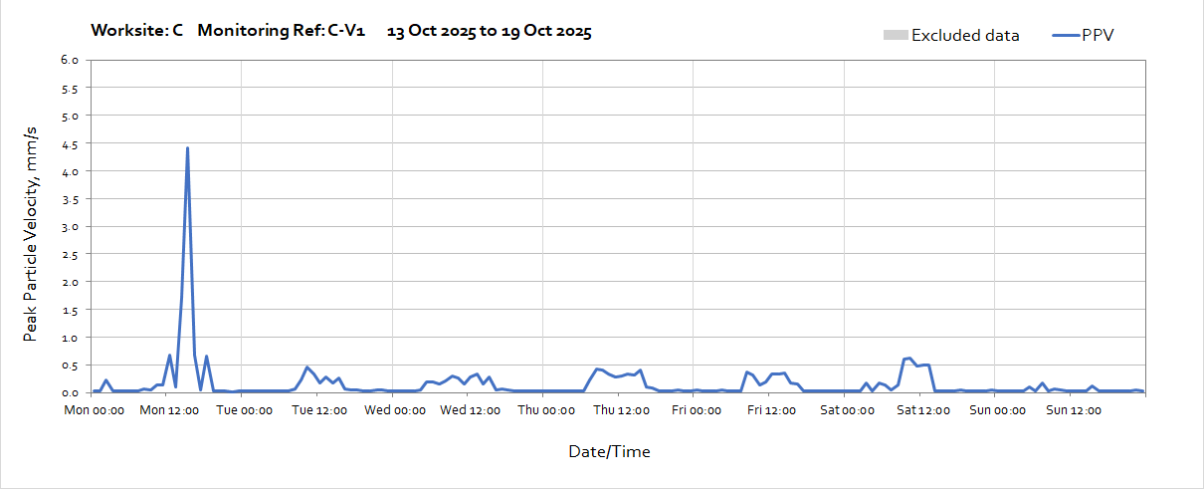
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

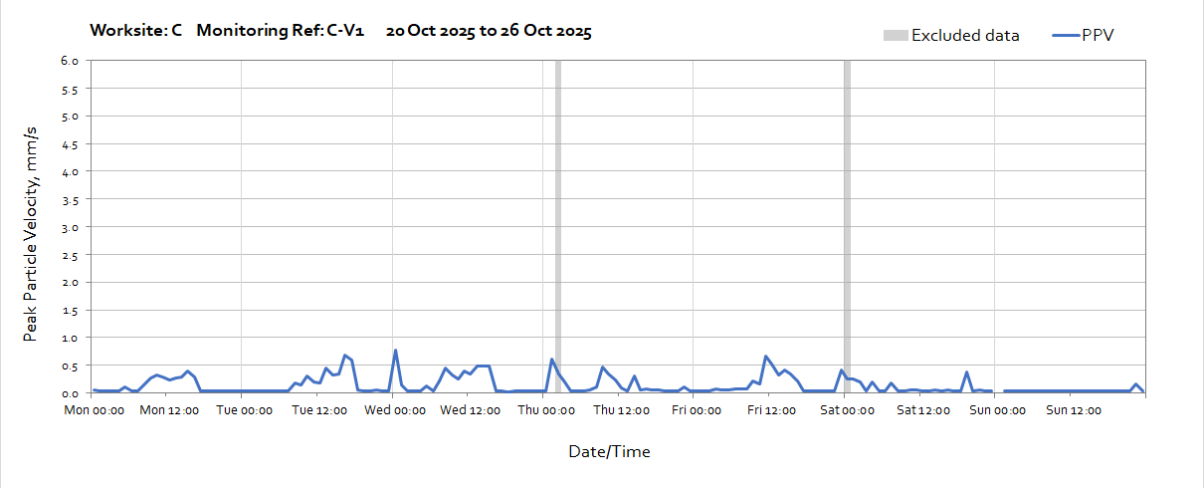


Worksite: C – Monitoring Ref: C-V1

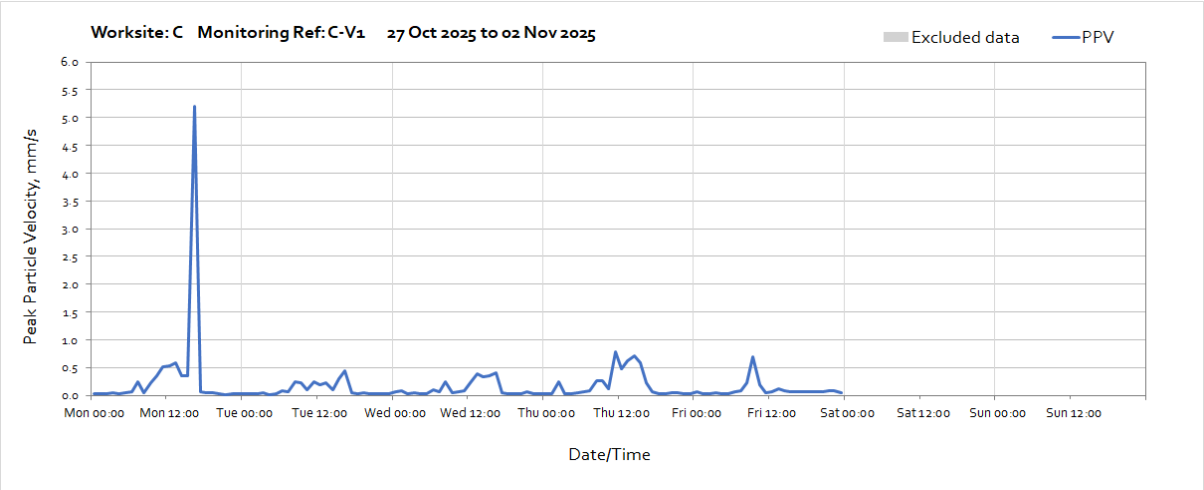




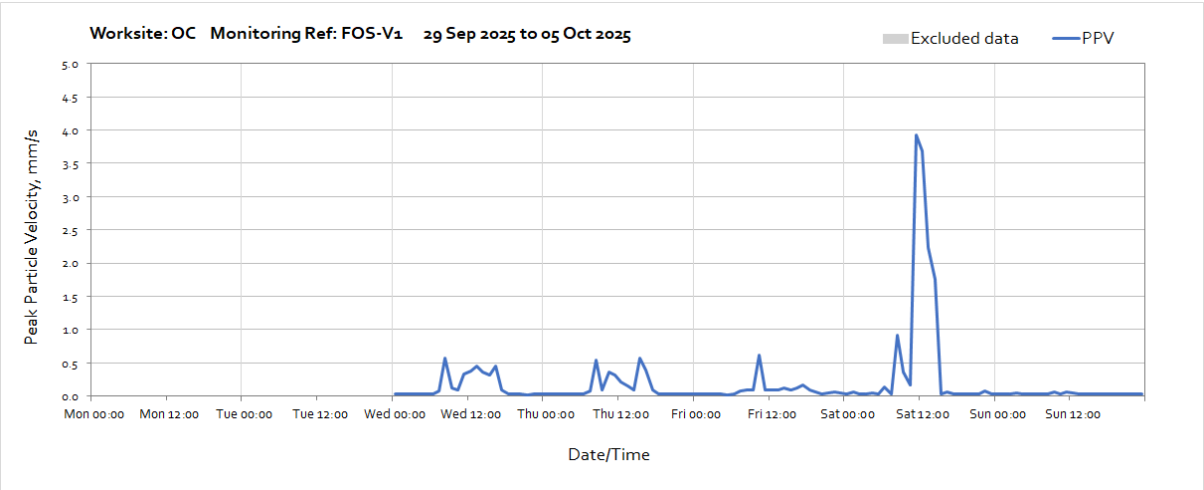


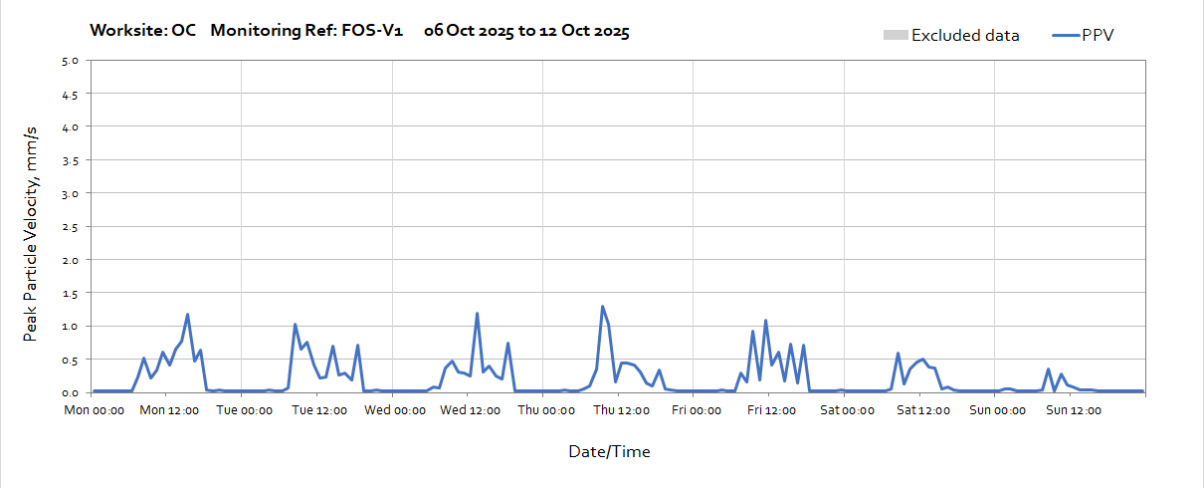


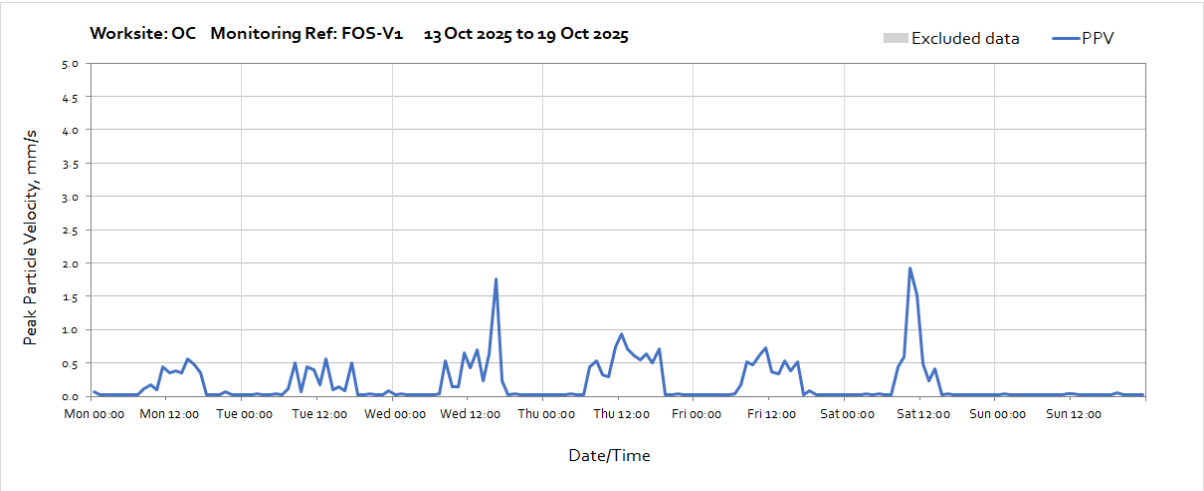
Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.

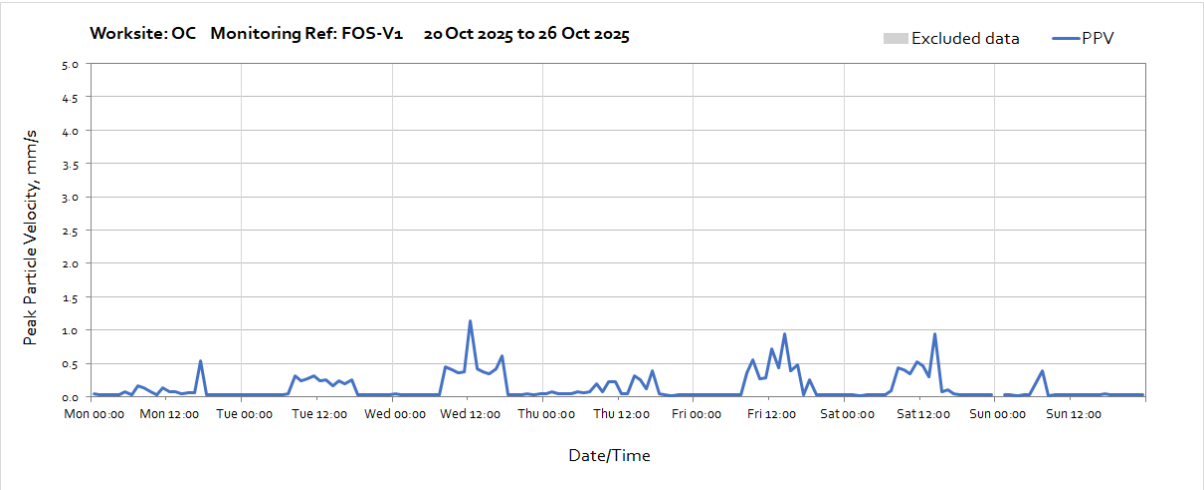


Worksite: OC – Monitoring Ref: FOS-V1

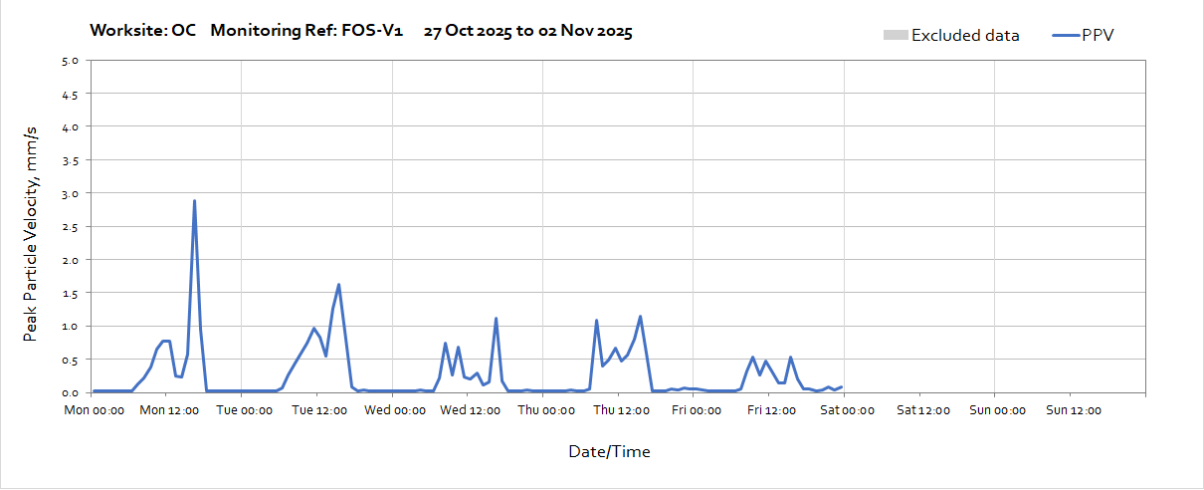








Note: Missing data between 00:00 and 01:00 on Saturday 26th October was due a monitor time adjustment at the end of British Summer Time.


Worksite: OC Monitoring Ref: FOS-V1 27 Oct 2025 to 02 Nov 2025
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