HS2

July 2022

Construction Noise and Vibration Monthly Report – May 2022

Buckinghamshire

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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 monitoring carried out within Buckinghamshire (BS) during the month of May 2022.

Within this period monitoring was undertaken at the following worksites:

- Noise monitoring was undertaken in the vicinity of the A422 Turweston North Worksite (ref.: A422 TN) were construction of the access road, topsoil stripping, compound maintenance works, drainage works, excavations, stockpiling and construction of slab crossing were undertaken.
- Noise monitoring was undertaken in the vicinity of School End worksite (ref.: SE) where compound development works, stone deliveries, topsoil stripping, drainage works, instrumentation and monitoring works, stockpiling and demolition works were undertaken.
- Noise monitoring was undertaken in the vicinity of Rosehill Farm worksite (ref.: RF) where demolition works and earthworks were undertaken.
- Noise monitoring was undertaking in the vicinity of Hermitage Chetwode worksite (ref.: HC), where compound setup, stone deliveries, topsoil stripping, drainage works, instrumentation and monitoring works, stockpiling and demolition works were undertaken.
- Noise monitoring was undertaken in the vicinity of West Street Overbridge worksite (ref.: WSO) where construction of access road and site haul road, drainage works and culvert installation works were undertaken.
- Noise monitoring was undertaken in the vicinity of Addison Road worksite (ref.: AR) where concrete pours, rebar fixing works and formworks installations were underway.
- Noise monitoring was undertaken in the vicinity of School Hill Compound worksite (ref.: SHC) where concrete works were undertaken.
- Noise monitoring was undertaken in the vicinity of the School Hill UTX worksite (ref.: SHU) where railway section extension works and excavation works were underway.
- Noise monitoring was undertaken in the vicinity of the Quainton worksite (ref.: QAR) where construction of the under track crossing shaft, trenching and pipe works were underway.

- Noise monitoring was undertaken in the vicinity of the FCC Sidings worksite reference (ref: FCC) where no work activities were undertaken during the reporting period.
- Noise monitoring was undertaken in the vicinity of Meadoway and Glebe House, Aylesbury worksite (ref: MW&GH) where access road construction, earthworks and stockpiling were undertaken.
- Noise monitoring was undertaken in the vicinity of Oat Close Worksite (ref: OC) where earthworks, stockpile management, piling works, access road maintenance works and material deliveries were underway.
- Noise monitoring was undertaken in the vicinity of Nash Lee Lane Worksite (ref.: NLL) where stockpiling, brook diversion works, construction of access roads, kerb laying works, road works and compound and access road asphalting were underway.
- Noise monitoring was undertaken in the vicinity of Ellesborough Road Worksite (ref.: ER) where topsoil stripping and archaeology works were underway.
- Noise monitoring was undertaken in the vicinity of Rocky Lane Embankment worksite (ref: RLE) where construction of piling platform, construction of access road, excavations, security plaza installation, stockpiling management, site haul road works and topsoil stripping were underway.
- Noise monitoring was undertaken in the vicinity of Leather Lane worksite (ref: LL) where earthworks and site haul road works, stockpiling and asphalting works were underway.
- Noise monitoring was undertaken in the vicinity of South Heath Cutting worksite (ref: SHCW) where earthworks and culvert installation works were undertaken.
- Noise monitoring was undertaken in the vicinity of North Portal Worksite (ref: NP) where fencing, access road construction, piling platform construction, temporary utility works, general plant works, wall works and removal of spoil were underway.
- Noise monitoring was undertaken in the vicinity of Chesham Road Worksite (ref: CR) where site maintenance and operations and shaft construction works were undertaken.
- Noise monitoring was undertaken in the vicinity of Little Missenden Vent Shaft worksite (ref.: LM) where general plant operations, dewatering works, base slab preparation works, secant piling works, collar construction, secondary lining works, small basement construction and stockpile removal works were underway.

- Noise monitoring was undertaken in the vicinity of Amersham Vent Shaft worksite (ref.: AM), where general site activity, waterproofing works, basement secant piling works, shaft base slab construction, collar construction, small basement construction and secondary lining works were undertaken.
- Noise monitoring was undertaken in the vicinity of Chalfont St Giles Vent Shaft worksite (ref.: CSG) where general plant operations, secant piling works, road maintenance works, secondary lining to the concrete, construction of reinforced concrete structures, tunnelling and construction of basement works were undertaken.
- Noise monitoring was undertaken in the vicinity of Chalfont St Peter Vent Shaft worksite (ref.: CSP), where general plant operations, piling works, road maintenance works, concrete reinforcement and basement construction works were underway.
- Noise monitoring was undertaken in the vicinity of Load Test Pile 1 worksite (ref.: LTP #1), where piling works, construction of a cofferdam, compound operation, ground investigation works, realignment of River Colne, core drilling of concrete, pier construction, duct installations, pumping water management works, maintenance of haul road, installation of satellite welfares, operation and maintenance for generator farms, material storage, fencing works, utility diversion, environmental maintenance works, slab construction, fibre crossing works, gas crossing emergency dismantling and decking works were undertaken.

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

- East West Rail (EWR) Overbridge and Charndon Lodge Underbridge where concrete work were undertaken;
- Perry Hill Overbridge where piling works and concrete works were underway;
- EWR Calvert where installation of culvert units, waterproofing works and drainage repair works were undertaken;
- EWR Line where removal of existing embankment, drainage and repair works and construction of upper embankment were underway.
- Greendon Underwood Overbridge where drainage and repairs works and construction of piling platform were underway.
- Hills Farm were stockpiling and material deliveries were underway.
- Calvert section of Marylebone to Claydon Junction Line where removal of existing ballast embankment, drainage works and removal of existing culvert were underway.

- Gawcott Road where road works were underway.
- West Street where temporary utility diversion works, including top soil stripping, excavations, backfilling, vegetation clearance, drainage works, pipe works and trenching were underway.
- Creighton Road where civil works, including trenching and construction of concrete chambers were underway.
- Park Hill where landscaping works were underway.
- Doddershall and from Shipton Lee to Decoypond Wood where vegetation clearance and reptile mitigation works were underway.
- Shipton Lee compound where fencing works, vegetation clearance and reptile mitigation measures were underway.
- Hedgerow where vegetation clearance was underway.
- Barton Hartshorn where rail maintenance works including railway bridge removal, removing of existing railway embankment and construction of the access road were underway.
- Great Missendend to Waddesdon where bat mitigation works, vegetation clearance and asbestos removal were underway;
- A422 North where compound development works were underway;
- A422 South Turweston cutting where compound maintenance works, stone deliveries, excavations and limestone screening were underway;
- Westbury where topsoil stripping and construction of piling platform were underway;
- Various locations along the route where vegetation clearance, construction of access roads and ponds maintenance works were underway.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (https://www.gov.uk/government/publications/hs2-information-papers-environment), were exceeded two (2) times during the reporting period.

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

Four (4) complaints were received within the Buckinghamshire area during the monitoring period. A description of complaints, the results of investigations and any action 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.

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 Buckinghamshire (BS) Local Authority area for the period 1st to 31st May 2022.

1.1.3 Construction sites in the local authority area where monitoring was undertaken during this period include:

- A422 Turweston North worksite, reference A422 TN (see Plan 1 in Appendix A), where works activities included.
  - access road construction;
  - topsoil stripping;
  - compound maintenance works;
  - drainage works;
  - excavations
  - stockpiling; and
  - slab crossing.
- School End worksite reference SE (see Plan 2 in Appendix A), where works activities included:
  - compound setup;

- stone deliveries;
- topsoil stripping;
- drainage works;
- instrumentation and monitoring installations;
- stockpiling; and
- demolition works.

- Rosehill Farm worksite reference RF (see Plan 2 in Appendix A), where works activities included:
  - demolition works; and
  - earthworks.
- Hermitage Chetwode Worksite reference – HC (see plan 2 in Appendix A), where works activities included:
  - compound development works;
  - stone deliveries;
  - topsoil stripping;
  - drainage works;
  - instrumentation and monitoring installations;
  - stockpiling; and
  - demolition works.
- West Street Overbridge worksite reference WSO (see Plan 2 in Appendix A), where works activities included:
  - construction of access road and site haul road;
  - drainage works; and
  - culvert installation works.
- Addison Road worksite reference AR (see Plan 3 in Appendix A), where works activities included:
  - concrete pours;
  - rebar fixing works; and
  - formwork installations.

- School Hill Compound worksite reference SHC (see Plan 3 in Appendix A), where works activities included:
  - concrete works.
- School Hill UTX worksite reference - SHU (see Plan 3 in Appendix A), where works activities included:
  - railway section extension works; and
  - excavation works.
- Quainton worksite, reference – QAR (see Plan 4 in Appendix A) where works activities included:
  - construction of the under track crossing shaft;
  - trenching works; and
  - pipe works.
- FCC Sidings worksite, reference – FCC (see Plan 3 in Appendix A) where no works activities were undertaken during the reporting period.
- Meadoway and Glebe House, Aylesbury Worksite, reference – MW&GH (see Plan 5 in Appendix A), where works activities included:
  - construction of access road;
  - earthworks; and
  - stockpiling.
- Oat Close Worksite, reference – OC (see Plan 5 in Appendix A), where works activities included:
  - earthworks;
  - stockpiling management;
  - piling works;
  - access road maintenance works; and
  - material deliveries.
- Nash Lee Lane Worksite, reference – NLL (see Plan 6 in Appendix A), where works activities included:
  - stockpiling;
  - brook diversion works;

- construction of access roads;
- kerb laying works and road works; and
- compound and access road asphalting.

- Ellesborough Road Worksite, reference – ER (see Plan 6 in Appendix A), where works activities included:
  - topsoil stripping; and
  - archaeology works.
- Rocky Lane Embankment Worksite, reference – RLE (see Plan 7 in Appendix A), where works activities included:
  - construction of piling platform;
  - access road construction;
  - excavations;
  - security plaza installation;
  - stockpiling management;
  - works for site haul road, including asphalting and stabilisation works; and
  - topsoil stripping.
- Leather Lane Worksite, reference – LL (see Plan 8 in Appendix A), where works activities included:
  - asphalting;
  - stockpiling; and
  - stabilising of the haul road.
- South Heath Cutting Worksite, reference – SHCW (see Plan 8 in Appendix A), where works activities included:
  - earthworks; and
  - culvert installation.
- North Portal Worksite, reference – NP (see Plan 8 in Appendix A), where works activities included:
  - fencing works;
  - drainage, asphalting, kerbing installation of signage and hardstanding works;
  - hardstanding, ducting and drainage works;

- general plant works;
- temporary water and power connection works; and
- removal of spoil.

- Chesham Road Worksite reference – CR (see Plan 8 in Appendix A), where works activities included:
  - site maintenance and operations; and
  - shaft construction, which included concrete pours and sinking of shaft to formation levels.
- Little Missenden Vent Shaft worksite reference LM (see Plan 9 in Appendix A), where works activities included:
  - general plant operations;
  - dewatering works;
  - base slab preparation works;
  - secant piling works;
  - collar construction;
  - secondary lining works;
  - small basement construction; and
  - stockpile removal.
- Amersham Vent Shaft Worksite, reference – AM (see Plan 10 in Appendix A), where works activities included:
  - general site activity;
  - waterproofing works;
  - basement secant piling walls including secant piling, excavation and pile cutting;
  - shaft base slab construction;
  - collar construction;
  - small basement construction; and
  - secondary lining works.
- Chalfont St Giles Vent Shaft Worksite, reference - CSG (see Plan 11 in Appendix A), where works activities included:

- general plant operations;
- secant piling works;
- road maintenance works;
- secondary lining to the concrete;
- construction of reinforced concrete structures;
- demolition and concrete works for connection to tunnel; and
- construction of basement, including reinforcing concrete capping beam, excavation of capping beam, reinforced concrete ground beams and waterproofing works.

- Chalfont St Peter Vent Shaft Worksite, reference – CSP (see Plan 12 in Appendix A), where works activities included:
  - general plant operations;
  - basement secant piling works;
  - road maintenance works;
  - concrete reinforcement; and
  - basement construction works, including capping, excavation, cutting of piles and waterproofing works.
- Colne Valley Viaduct - Load Test Pile 1 Worksite, reference – CVV-LTP #1 (see Plan 13 in Appendix A), where works activities included:
  - piling works;
  - construction of a cofferdam, including piling and operation of support plant;
  - main piling works, including bored piling, de-sanding, installation of reinforcement cage and concrete piling, break-out of bored pile, grout curtain construction around viaduct maintenance plant and clean up around piles;
  - compound operations;
  - ground investigation and overwater ground investigation works;
  - realignment of River Colne, including removal of reinforced concrete crossing structures;
  - core drilling of concrete;
  - pier construction;

- duct installation and earthworks;
- pumping water management works;
- maintenance of haul road;
- installation of satellite welfares;
- operation and maintenance for generator farms;
- material storage;
- fencing works;
- utility diversion works;
- environmental maintenance works;
- slab construction at Bentonite farms including slam demolition, upstand walls construction and installation of equipment;
- fibre crossing works;
- cofferdam construction works;
- dewatering works;
- A412 gas crossing emergency dismantling works; and
- decking works.

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

- East West Rail (EWR) Overbridge and Charndon Lodge Underbridge where concrete work were undertaken;
- Perry Hill Overbridge where piling works and concrete works were underway;
- EWR Calvert where installation of culvert units, waterproofing works and drainage repair works were undertaken;
- EWR Line where removal of existing embankment, drainage and repair works and construction of upper embankment were underway.
- Greendon Underwood Overbridge where drainage an repairs works and construction of piling platform were underway.
- Hills Farm were stockpiling and material deliveries were underway.
- Calvert section of Marylebone to Claydon Junction Line where removal of existing ballast embankment, drainage works and removal of existing culvert were underway.

- Gawcott Road where road works were underway.
- West Street where temporary utility diversion works, including top soil stripping, excavations, backfilling, vegetation clearance, drainage works, pipe works and trenching were underway.
- Creighton Road where civil works, including trenching and construction of concrete chambers were underway.
- Park Hill where landscaping works were underway.
- Doddershall and from Shipton Lee to Decoypond Wood where vegetation clearance and reptile mitigation works were underway.
- Shipton Lee compound where fencing works, vegetation clearance and reptile mitigation measures were underway.
- Hedgerow where vegetation clearance was underway.
- Barton Hartshorn where rail maintenance works including railway bridge removal, removing of existing railway embankment and construction of the access road were underway.
- Great Missendend to Waddesdon where bat mitigation works, vegetation clearance and asbestos removal were underway;
- A422 North where compound development works were underway;
- A422 South Turweston cutting where compound maintenance works, stone deliveries, excavations and limestone screening were underway;
- Westbury where topsoil stripping and construction of piling platform were underway;
- Various locations along the route where vegetation clearance, construction of access roads and ponds maintenance works were underway.

1.1.5 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 Forty-three (43) noise and three (3) vibration monitoring installations were active in May in the BS area. Table 2 summarises the positions of noise and vibration monitoring installations within the BS area in May 2022.

1.2.2 The noise monitor NP-NMP1 (worksite ref.: NP) was relocated on 14th May and the new monitoring position has been detailed as ORC-NMP1.

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

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
A422 TN	TN-NMP1	Turweston, Brackley
SE	SE-NMP1	School End, Chetwode
	SE-Vib1	School End, Chetwode
RF	RF-NMP1	Old Stable Cottage, Rosehill Farm, Chetwode
	RF-Vib1	Old Stable Cottage, Rosehill Farm, Chetwode
HC	HC-NMP1	Hermitage, Chetwode
WSO	WSO-NMP1	West Street, Twyford
	WSO-NMP2	Cross Bucks Way, Twyford
AR	AR-NMP1	Addison Road, Rosehill Farm
SHC	SHC-NMP1	School Hill Compound, Calvert
SHU	SHU-NMP1	70 Cotswold Way, Calvert
QAR	QAR-NMP2	Station Rd, Quainton
FCC	FCC-NMP1	Calvert South
MW&GH	GH-NMP1	Glebe House, A418, Aylesbury
	MW-NMP1	Aylesbury, Buckinghamshire
OC	OC-NMP1	Oat Close, Bishopstone, Aylesbury
	MF-NMP1	Moat Farm, Marsh Lane, Stoke Mandeville
	WES-NMP1	Westfield, Stoke Mandeville, Aylesbury
NLL	NLL-NMP1	Nash Lee Lane, Nash Lee
	NLL-NMP2	Nash Lee Lane, Nash Lee
ER	ER-NMP1	Ellesborough Rd, Wendover
	BL-NMP1	Bacombe Lane, Wendover
	ER-Vib1	Ellesborough Rd, Wendover
RLE	SDVC-NMP1	Rocky Lane, Wendover
	NCAS6-NMP1	Chesham Lane, The Lee, Wendover
	NCAS5-NMP1	Chesham Lane, The Lee, Wendover
LL	HG-NMP1	Hunts Green, Leather Lane, The Lee, South Heath
	GD-NMP1	Grimms Ditch, The Lee, South Heath

Worksite Reference	Measurement Reference	Address
SHCW	PR-NMP1	Potters Row, South Heath
	SH-NMP1	Bury Farm, South Heath
NP	NP-NMP1	North Portal worksite, Great Missenden
	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath
	BLH-NMP1	Bayleys Hatch, South Heat, Great Missinden
CR	MDL-NMP1	Meadow Leigh Cottage, Firth Hill, South Heath
AM	AM-NMP1	Amersham Vent Shaft Worksite, Whielden Lane, Amersham
LM	LM-NMP1	Little Missenden, A413, Amersham
	PWC-NMP1	Patricia Holmes, Little Missenden Vent Shaft Worksite, Amersham
CSG	CSG-NMP1	Chalfont St Giles Vent Shaft Worksite, Bottom House Farm Lane
	CSG-NMP2	Chalfont St Giles Vent Shaft Worksite, Bottom House Farm Lane
	PIC-NMP1	Bottom House Farm Lane, Chalfont St Giles
CSP	CSP-NMP1	Chalfont St Peter Vent Shaft Worksite, Chesham Lane, Chalfont St. Peter
	CSP-NMP2	Chalfont St Peter Vent Shaft Worksite, Chesham Lane, Chalfont St. Peter
	CSP-NMP3	Chalfont St Peter Vent Shaft Worksite, Chesham Lane, Chalfont St. Peter
CVV-LTP #1	CVV-LTP #1-NMP1	Northern boundary, Load Test Pile 1 Worksite, Denham Water Ski Club
	CVV-WYC-NMP1	Wyatt's Covert, Tilehouse Lane, Denham, Denham Garden Village
	CVV-DFS-NMP1	Denham Film Studio, Uxbridge
CVV-MR*	CVV-SVF-NMP1	Savay Farm, Denham Garden Village, Denham, Buckinghamshire

* This worksite is within the London Borough of Hillingdon, for more details on the works taking place please refer to the London Borough of Hillingdon Noise and Vibration Report available at: https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2

2 Summary of Results

2.1 Summary of Measured Noise 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
A422 TN	TN-NMP1	Turweston, Brackley	Free-field	50.8	53.6	52.8	49.0	48.2	48.8	49.4	48.7	47.9	47.1	48.1	47.0
				(53.6)	(61.3)	(63.3)	(53.9)	(60.0)	(50.5)	(50.2)	(50.6)	(51.7)	(53.1)	(51.0)	(51.1)
SE	SE-NMP1	School End, Chetwode	Free-field	50.3	58.6	46.1	43.9	44.0	49.3	58.4	54.8	44.1	43.0	44.2	43.4
				(59.3)	(62.4)	(54.7)	(52.9)	(57.4)	(51.9)	(60.3)	(65.0)	(46.7)	(48.3)	(47.6)	(49.1)
RF	RF-NMP1	Old Stable Cottage, Rosehill Farm, Chetwode	Free-field	48.7	54.9	49.1	49.4	47.9	47.4	49.0	48.4	49.9	48.5	48.0	47.6
				(56.9)	(64.2)	(55.1)	(58.5)	(60.2)	(48.7)	(50.0)	(51.9)	(58.6)	(55.1)	(54.8)	(54.7)
HC	HC-NMP1	Hermitage, Chetwode	Free-field	50.2	57.4	46.3	44.3	44.1	48.9	57.1	56.0	45.1	43.7	45.8	43.0
				(56.2)	(62.5)	(54.3)	(54.5)	(57.1)	(51.0)	(60.1)	(65.2)	(50.3)	(51.1)	(51.9)	(53.1)
WSO	WSO-NMP1	West Street, Twyford	Free-field	51.7	51.7	48.0	47.1	46.8	51.5	49.7	46.5	47.3	45.6	48.7	45.9
				(56.6)	(59.8)	(51.6)	(65.0)	(59.7)	(54.0)	(51.7)	(48.5)	(53.4)	(52.8)	(57.2)	(54.2)
	WSO-NMP2	Twyford	Free-field	45.5	50.0	45.6	44.3	43.9	46.2	49.9	46.0	45.5	43.4	44.6	43.6
				(50.0)	(56.7)	(61.2)	(49.4)	(58.2)	(48.1)	(53.2)	(47.6)	(52.1)	(46.5)	(49.0)	(51.3)
AR	AR-NMP1	Addison Road, Rosehill Farm	Free-field	48.7	50.4	47.9	45.6	44.6	48.4	49.4	46.2	45.9	44.5	47.4	44.4
				(51.5)	(55.5)	(51.1)	(51.6)	(55.5)	(50.1)	(51.6)	(48.0)	(51.9)	(54.2)	(52.7)	(54.5)
SHC	SHC-NMP1	School Hill Compound, Calvert	Free-field	47.5	51.3	46.9	44.3	42.0	45.4	47.7	44.2	45.3	40.7	47.7	40.6
				(51.1)	(58.7)	(53.7)	(55.0)	(57.9)	(47.7)	(48.8)	(45.3)	(53.0)	(47.4)	(70.0)	(48.6)

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
SHU	SHU-NMP1	70 Cotswold Way, Calvert	Free-field	52.4 (54.5)	56.2 (66.8)	52.5 (56.1)	50.8 (58.5)	47.2 (55.8)	49.3 (51.3)	58.0 (59.6)	52.0 (56.5)	51.8 (55.5)	47.4 (56.9)	54.0 (65.8)	47.9 (57.1)
QAR	QAR-NMP2	Station Rd, Quainton	Free-field	52.1 (54.6)	55.0 (70.9)	51.1 (70.5)	50.2 (71.0)	45.8 (63.9)	46.8 (47.6)	54.0 (62.4)	53.4 (59.9)	49.0 (56.3)	41.7 (47.7)	55.1 (77.0)	47.1 (67.2)
FCC	FCC-NMP1	Calvert South	Free-field	58.7 (63.3)	57.1 (61.8)	48.8 (51.5)	48.5 (60.1)	47.9 (57.8)	48.8 (52.9)	47.0 (48.9)	43.6 (45.4)	45.5 (49.3)	45.5 (53.0)	46.8 (53.2)	47.9 (57.5)
MW&GH	GH-NMP1	Glebe House, A418, Aylesbury	Free-field	53.0 (54.2)	54.2 (56.7)	54.1 (55.8)	51.9 (54.8)	48.4 (55.0)	52.4 (53.0)	53.4 (54.8)	52.4 (53.0)	52.3 (56.8)	47.8 (52.9)	52.2 (56.0)	48.6 (53.6)
	MW-NMP1	Aylesbury, Buckinghamshire	Free-field	62.6 (63.4)	61.9 (63.4)	62.0 (63.1)	59.6 (61.7)	56.4 (63.8)	61.0 (61.5)	62.3 (63.1)	61.7 (62.3)	60.5 (62.1)	54.8 (58.1)	60.7 (64.0)	55.8 (62.7)
OC	OC-NMP1	Oat Close, Bishopstone, Aylesbury	Free-field	49.1 (70.0)	55.1 (66.8)	51.2 (67.0)	45.4 (53.4)	44.5 (54.0)	46.4 (49.2)	45.6 (47.4)	43.5 (44.8)	44.0 (46.0)	43.1 (48.6)	44.7 (48.0)	43.1 (48.1)
	MF-NMP1	Moat Farm, Marsh Lane, Stoke Mandeville	Free-field	44.8 (47.1)	54.2 (62.7)	51.2 (60.7)	42.1 (47.2)	43.2 (53.4)	43.1 (43.6)	44.4 (45.9)	41.4 (42.6)	42.5 (45.9)	40.1 (46.8)	43.5 (48.6)	42.5 (50.6)
	WES-NMP1	Westfield, Stoke Mandeville, Aylesbury	Free-field	46.8 (48.8)	50.3 (57.3)	47.6 (52.2)	45.2 (56.4)	45.7 (62.7)	46.8 (48.5)	45.9 (47.9)	43.2 (43.5)	45.7 (57.1)	44.8 (55.4)	45.4 (49.0)	45.7 (50.9)
NLL	NLL-NMP1	Nash Lee Lane, Nash Lee	Free-field	54.6 (56.7)	59.0 (75.3)	54.2 (58.7)	52.0 (55.5)	50.5 (57.9)	51.1 (52.5)	51.6 (52.6)	51.7 (52.9)	51.8 (54.0)	49.9 (56.1)	52.2 (56.5)	50.5 (54.4)

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
	NLL-NMP2	Nash Lee Lane, Nash Lee	Free-field	56.3	59.9	54.6	52.0	49.3	50.1	52.0	51.7	51.5	47.3	52.0	48.9
				(59.3)	(72.6)	(57.0)	(56.4)	(61.1)	(53.6)	(53.4)	(53.5)	(53.4)	(50.6)	(57.4)	(55.2)
ER	ER-NMP1	Ellesborough Rd, Wendover	Free-field	54.6	56.9	54.4	52.2	49.7	53.2	53.8	53.9	54.5	49.1	52.1	50.4
				(58.9)	(64.7)	(57.7)	(64.6)	(58.5)	(54.5)	(56.1)	(58.4)	(66.8)	(56.7)	(55.8)	(65.2)
	BL-NMP1	Bacombe Lane, Wendover	Free-field	49.2	52.7	48.0	46.8	46.8	47.9	47.8	46.6	46.8	47.1	47.8	47.3
				(56.7)	(65.9)	(51.6)	(49.8)	(53.9)	(48.2)	(48.7)	(48.4)	(48.7)	(50.9)	(50.8)	(51.9)
RLE	SDVC-NMP1	Rocky Lane, Wendover	Free-field	63.3	63.2	63.0	59.9	57.2	61.5	62.6	61.7	60.5	55.5	60.6	56.7
				(64.7)	(66.5)	(64.8)	(64.0)	(64.4)	(62.7)	(64.1)	(62.8)	(62.0)	(58.4)	(63.4)	(63.8)
	NCAS6-NMP1	Chesham Lane, The Lee, Wendover	Free-field	54.2	60.3	59.1	46.8	44.1	54.6	53.8	49.8	47.1	42.1	45.1	43.0
				(67.7)	(70.7)	(70.0)	(53.2)	(57.9)	(63.5)	(65.7)	(66.3)	(57.7)	(47.5)	(50.8)	(49.8)
	NCAS5-NMP1	Chesham Lane, The Lee, Wendover	Free-field	56.5	58.4	56.2	53.2	50.0	53.3	54.9	54.1	52.7	48.4	53.2	49.7
				(59.0)	(67.3)	(58.6)	(56.5)	(57.0)	(54.9)	(56.0)	(57.3)	(56.0)	(52.3)	(56.8)	(57.1)
LL	HG-NMP1	Hunts Green, Leather Lane, The Lee	Free-field	47.0	50.7	48.4	45.7	46.0	51.7	48.8	44.8	45.4	45.2	47.7	45.4
				(49.9)	(57.2)	(52.3)	(52.9)	(58.9)	(59.5)	(51.9)	(46.3)	(52.4)	(59.1)	(58.4)	(58.2)
	GD-NMP1	Grimms Ditch, The Lee, South Heath	Free-field	47.4	52.8	51.9	44.7	43.2	46.9	46.8	43.2	43.9	40.8	45.9	41.5
				(56.1)	(63.6)	(63.9)	(60.5)	(62.7)	(50.0)	(49.8)	(45.2)	(53.8)	(46.8)	(53.2)	(47.8)
SHCW	PR-NMP1	Potters Row, South Heath	Free-field	49.7	53.2	51.0	46.0	44.8	51.7	55.7	53.4	47.8	45.5	47.9	44.8
				(54.6)	(56.4)	(56.6)	(51.6)	(56.1)	(63.5)	(60.6)	(58.0)	(57.8)	(55.4)	(54.5)	(51.1)

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
	SH-NMP1	Bury Farm, South Heath	Free-field	51.0	53.2	50.9	49.4	43.4	49.0	49.3	46.2	44.4	42.5	46.2	43.3
				(56.1)	(56.0)	(53.3)	(53.0)	(55.9)	(53.8)	(51.6)	(47.6)	(48.3)	(48.8)	(51.2)	(49.5)
NP	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath	Free-field	57.4	58.6	56.5	56.0	48.3	58.7	59.0	54.8	52.1	48.4	53.8	46.3
				(62.4)	(63.8)	(59.9)	(61.6)	(62.4)	(69.4)	(60.4)	(56.7)	(60.4)	(61.7)	(70.3)	(58.2)
	BLH-NMP1	Bayleys Hatch, South Heat, Great Missinden	Free-field	50.3	53.8	51.4	49.2	43.3	49.6	53.1	49.4	49.7	43.6	49.2	43.4
				(52.9)	(60.3)	(57.2)	(52.9)	(57.6)	(51.1)	(61.4)	(53.8)	(59.6)	(54.5)	(57.6)	(51.8)
CR	MDL-NMP1	Meadow Leigh Cottage, Firth Hill, South Heath	Free-field	56.7	57.0	54.7	53.7	51.7	55.6	56.7	54.2	60.3	50.8	56.9	51.0
				(61.5)	(63.6)	(59.2)	(59.3)	(62.0)	(58.2)	(58.7)	(55.7)	(69.9)	(58.2)	(74.5)	(60.4)
AM	AM-NMP1	Whielden Lane, Amersham	Free-field	61.5	60.1	60.7	58.1	54.7	58.1	61.3	62.0	59.5	53.1	58.3	53.7
				(70.0)	(70.3)	(73.4)	(70.6)	(63.4)	(58.6)	(63.7)	(68.0)	(68.0)	(58.2)	(61.1)	(60.1)
LM	LM-NMP1	Little Missenden, A413, Amersham	Free-field	58.2	59.2	59.5	56.0	51.3	55.0	56.3	56.3	55.5	49.0	56.3	49.9
				(59.7)	(61.4)	(61.3)	(58.6)	(57.7)	(55.2)	(56.5)	(56.3)	(56.9)	(53.2)	(60.0)	(57.5)
	PWC-NMP1	Patricia Holmes, Little Missenden Vent Shaft Worksite, Amersham	Free-field	59.6	59.3	59.3	56.6	54.5	59.7	56.9	57.1	55.9	52.9	56.5	55.2
				(64.7)	(65.9)	(61.3)	(77.1)	(72.8)	(69.6)	(57.8)	(58.0)	(58.2)	(58.7)	(61.2)	(70.9)
CSG	CSG-NMP1	Chalfont St Giles Vent Shaft Worksite, Bottom House Farm Lane	Free-field	49.2	51.6	49.7	48.3	44.2	48.4	49.1	47.1	47.7	45.5	47.4	44.7
				(56.7)	(59.2)	(61.1)	(55.4)	(62.6)	(53.1)	(53.9)	(49.1)	(53.7)	(55.5)	(54.2)	(54.4)
	CSG-NMP2	Chalfont St Giles Vent Shaft Worksite, Bottom House Farm Lane	Free-field	50.3	57.8	52.0	46.6	44.2	38.5	49.9	46.3	45.7	44.5	46.0	41.3
				(56.1)	(62.9)	(66.7)	(66.2)	(61.5)	(51.2)	(56.0)	(47.9)	(49.2)	(59.9)	(51.3)	(49.4)

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
	PIC-NMP1	Bottom House Farm Lane, Chalfont St Giles, Buckinghamshire	Free-field	54.3 (59.8)	55.1 (69.2)	53.8 (61.1)	51.3 (57.1)	50.8 (74.6)	51.6 (53.6)	53.4 (54.8)	52.3 (52.3)	54.4 (63.5)	48.1 (58.5)	56.5 (79.1)	49.5 (59.1)
CSP	CSP-NMP1	Chalfont St Peter Vent Shaft Worksite	Free-field	59.0 (62.1)	58.4 (62.0)	56.8 (58.8)	53.3 (65.8)	49.7 (68.2)	53.1 (53.4)	56.6 (57.6)	55.7 (56.9)	55.1 (62.9)	52.7 (79.7)	55.5 (69.1)	48.0 (55.3)
	CSP-NMP2	Chalfont St Peter Vent Shaft Worksite	Free-field	47.0 (49.7)	49.4 (51.7)	47.3 (50.1)	45.3 (53.3)	41.3 (64.9)	44.9 (45.2)	48.1 (49.1)	46.6 (51.3)	46.6 (52.4)	41.3 (48.4)	49.2 (64.8)	42.7 (51.1)
	CSP-NMP3	Chalfont St Peter Vent Shaft Worksite	Free-field	55.4 (57.3)	55.3 (56.6)	55.6 (58.2)	54.1 (58.3)	50.2 (62.6)	52.2 (53.3)	54.1 (55.7)	54.1 (54.5)	54.0 (55.5)	48.3 (52.3)	52.9 (57.0)	49.0 (55.0)
CVV-LTP #1	CVV-LTP #1-NMP1	Northern boundary, Load Test Pile 1 Worksite	Free-field	61.7 (63.6)	61.5 (64.3)	60.9 (64.0)	57.7 (61.9)	56.1 (64.5)	57.8 (58.6)	60.3 (60.6)	59.3 (60.0)	58.2 (61.1)	55.2 (61.0)	58.2 (61.0)	55.1 (62.4)
	CVV-WYC-NMP1	Wyatt's Covert, Tilehouse Lane, Denham	Free-field	57.6 (58.9)	58.4 (61.8)	57.2 (59.8)	54.2 (59.4)	51.9 (62.9)	54.5 (55.3)	56.7 (58.2)	56.6 (57.1)	54.9 (57.2)	50.2 (55.7)	55.4 (59.0)	51.3 (60.4)
	CVV-DFS-NMP1	Denham Film Studio, Uxbridge	Free-field	49.3 (55.2)	53.5 (59.1)	51.8 (57.6)	49.4 (57.2)	47.2 (61.2)	48.3 (49.8)	49.6 (53.7)	48.4 (50.9)	49.7 (56.0)	45.8 (51.4)	49.7 (59.6)	45.9 (52.8)
CVV-MR	CVV-SVF-NMP1	Savay Farm, Denham Garden Village, Denham, Buckinghamshire	Free-field	50.9 (56.9)	51.0 (61.0)	49.3 (51.8)	48.6 (54.0)	47.9 (58.1)	51.2 (53.8)	48.9 (50.7)	46.3 (48.2)	48.0 (52.8)	47.7 (55.4)	48.4 (52.6)	49.1 (63.1)

2.1.2 Table 4 presents a summary of the measured vibration levels at the 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
SE	SE-Vib 1	School End, Chetwode	4.68 (Y-axis)
RF	RF-Vib 1	Old Stable Cottage, Rosehill Farm, Chetwode	3.45 (Z-axis)
ER	ER-Vib1	Ellesborough Rd, Wendover	0.63 (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 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 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.

2.2.5 Table 5 presents a summary of recorded exceedances of the LOAEL and SOAEL 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	Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
A422 TN	TN-NMP1	Turweston, Brackley	All days	All periods	No exceedance	No exceedance
SE	SE-NMP1	School End, Chetwode	Weekday	0800-1800	1	No exceedance
RF	RF-NMP1	Old Stable Cottage, Rosehill Farm, Chetwode	Weekday	0800-1800	3	No exceedance
HC	HC-NMP1	Hermitage, Chetwode	Weekday	0800-1800	1	No exceedance
WSO	WSO-NMP1	West Street, Twyford	All days	All periods	No exceedance	No exceedance
	WSO-NMP2	Twyford	All days	All periods	No exceedance	No exceedance
AR	AR-NMP1	Addison Road, Rosehill Farm	All days	All periods	No exceedance	No exceedance
SHC	SHC-NMP1*	School Hill Compound, Calvert	All days	All periods	No exceedance	No exceedance
SHU	SHU-NMP1	70 Cotswold Way, Calvert	Weekday	0800-1800	3	No exceedance
QAR	QAR-NMP2	Station Rd, Quainton	Weekday Saturday	0800-1800 0800-1300	2 1	No exceedance
FCC	FCC-NMP1	Calvert South	All days	All periods	No exceedance	No exceedance
MW&GH	GH-NMP1	Glebe House, A418, Aylesbury	All days	All periods	No exceedance	No exceedance
	MW-NMP1	Aylesbury, Buckinghamshire	Weekday Saturday	0800-1800 0800-1300	10 2	No exceedance

Worksite Reference	Measurement Reference	Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
OC	OC-NMP1	Oat Close, Bishopstone, Aylesbury	Weekday	0800-1800	4	No exceedance
	MF-NMP1*	Moat Farm, Marsh Lane, Stoke Mandeville	All days	All Periods	No exceedance	No exceedance
	WES-NMP1	Westfield, Stoke Mandeville, Aylesbury	All days	All Periods	No exceedance	No exceedance
NLL	NLL-NMP1	Nash Lee Lane, Nash Lee	Weekday	0800-1800	2	1
	NLL-NMP2	Nash Lee Lane, Nash Lee	Weekday	0800-1800	5	1
ER	ER-NMP1	Ellesborough Rd, Wendover	Weekday	0800-1800	3	No exceedance
	BL-NMP1	Bacombe Lane, Wendover	Weekday	0800-1800	3	No exceedance
RLE	SDVC-NMP1	Rocky Lane, Wendover	Weekday Saturday	0800-1800 0800-1300	19 2	No exceedance
	NCAS6-NMP1	Chesham Lane, The Lee, Wendover	Weekday Saturday	0800-1800 0800-1300	9 1	No exceedance
	NCAS5-NMP1	Chesham Lane, The Lee, Wendover	Weekday	0800-1800	2	No exceedance
LL	HG-NMP1	Hunts Green, Leather Lane, The Lee, South Heath	All days	All periods	No exceedance	No exceedance
	GD-NMP1	Grimms Ditch, The Lee, South Heath	Weekday	0800-1800	1	No exceedance
SHCW	PR-NMP1	Potters Row, South Heath	All days	All periods	No exceedance	No exceedance
	SH-NMP1	Bury Farm, South Heath	All days	All periods	No exceedance	No exceedance

Worksite Reference	Measurement Reference	Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
NP	ORC-NMP1	Orchard Cottage, Ballinger Road, South Heath	Weekdays	08:00-18:00	1	No exceedance
	BLH-NMP1	Bayleys Hatch, South Heat, Great Missinden	All days	All periods	No exceedance	No exceedance
CR	MDL-NMP1	Meadow Leigh Cottage, Firth Hill, South Heath	Weekdays	08:00-18:00	1	No exceedance
AM	AM-NMP1*	Whielden Lane, Amersham	All days	All periods	No exceedance	No exceedance
LM	LM-NMP1*	Little Missenden Vent Shaft Worksite	All days	All periods	No exceedance	No exceedance
	PWC-NMP1	Patricia Holmes, Little Missenden Vent Shaft Worksite, Amersham	Weekdays	08:00-18:00	1	No exceedance
CSG	CSG-NMP1*	Chalfont St Giles Vent Shaft	All days	All periods	No exceedance	No exceedance
	CSG-NMP2*	Chalfont St Giles Vent Shaft	All days	All periods	No exceedance	No exceedance
	PIC-NMP1	Bottom House Farm Lane, Chalfont St Giles	Weekdays	08:00-18:00	1	No exceedance
CSP	CSP-NMP1*	Chalfont St Peter Vent Shaft Worksite	All days	All periods	No exceedance	No exceedance
	CSP-NMP2*	Chalfont St Peter Vent Shaft Worksite	All days	All periods	No exceedance	No exceedance
	CSP-NMP3*	Chalfont St Peter Vent Shaft Worksite	All days	All periods	No exceedance	No exceedance
CVV-LTP #1	CVV-LTP #1-NMP1*	Northern boundary, Load Test Pile 1 Worksite	All days	All periods	No exceedance	No exceedance
	CVV-WYC-NMP1**	Wyatt's Covert, Tilehouse Lane, Denham	All days	All periods	No exceedance	No exceedance

Worksite Reference	Measurement Reference	Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
	CVV-DFS-NMP1**	Denham Film Studio, Uxbridge	All days	All periods	No exceedance	No exceedance
CVV-MR	CVV-SVF-NMP1**	Savay Farm, Denham Garden Village, Denham, Buckinghamshire	All days	All periods	No exceedance	No exceedance

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

** The ambient noise level is close to the LOAEL and measured LOAEL exceedances are mostly believed to be due to ambient noise levels exceeding the LOAEL and not due to HS2 construction noise.

2.2.6 Exceedances of the LOAEL were recorded at nineteen (19) monitoring locations during the month of May 2022. LOAEL exceedances were recorded during weekdays and Saturdays core working hours.

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

Table 6: Summary of Total Exceedances of SOAEL

Worksite Reference	Measurement Reference	Monitor Address	Total of SOAEL exceedances in the month
NLL	NLL-NMP1	Nash Lee Lane, Nash Lee	1
	NLL-NMP2	Nash Lee Lane, Nash Lee	1

2.2.8 Two (2) SOAEL exceedances were recorded due to HS2 construction works during May 2022. The exceedance occurred at monitoring locations NLL-NMP1, NLL-NMP2 and during core working hours.

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

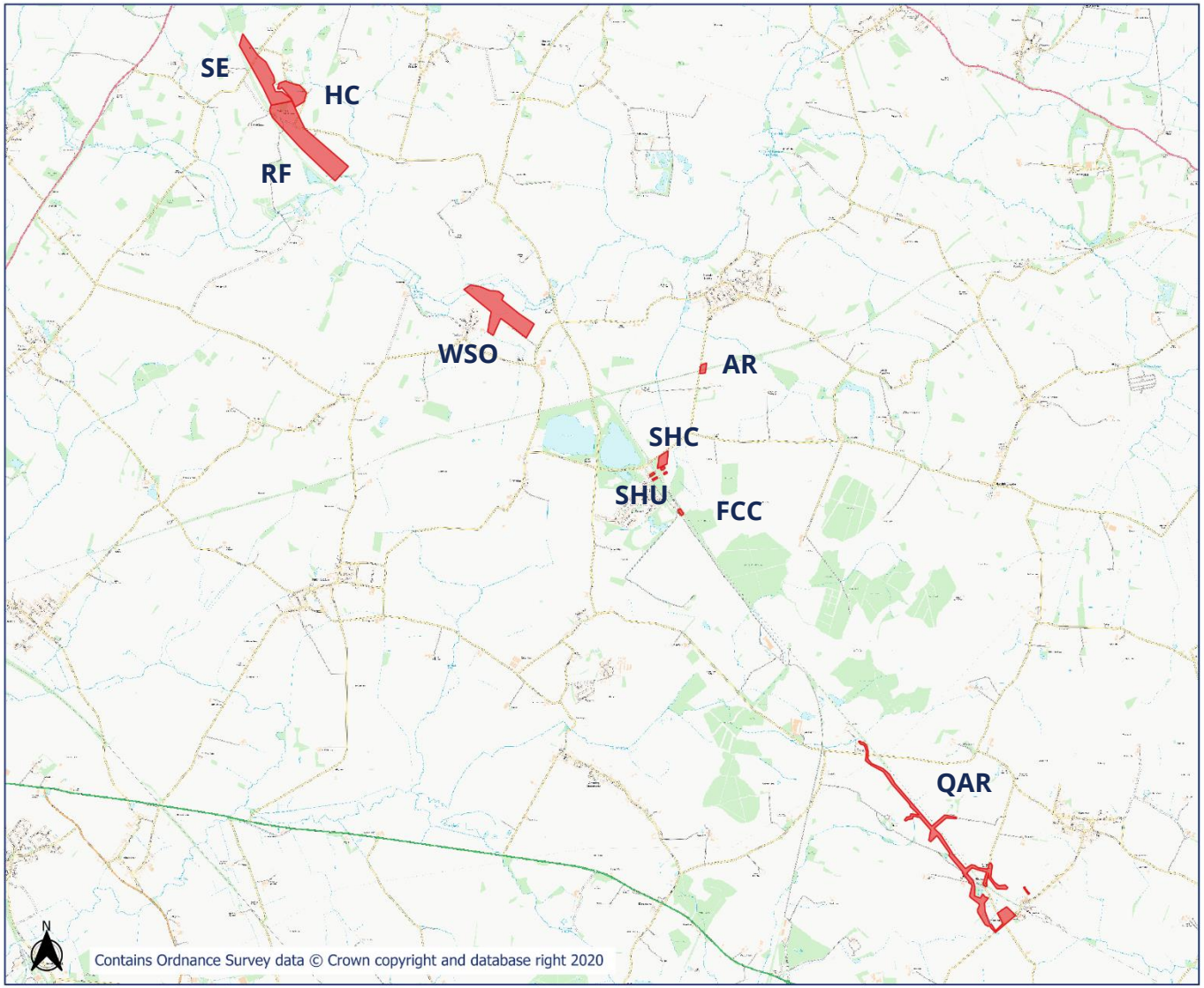
2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

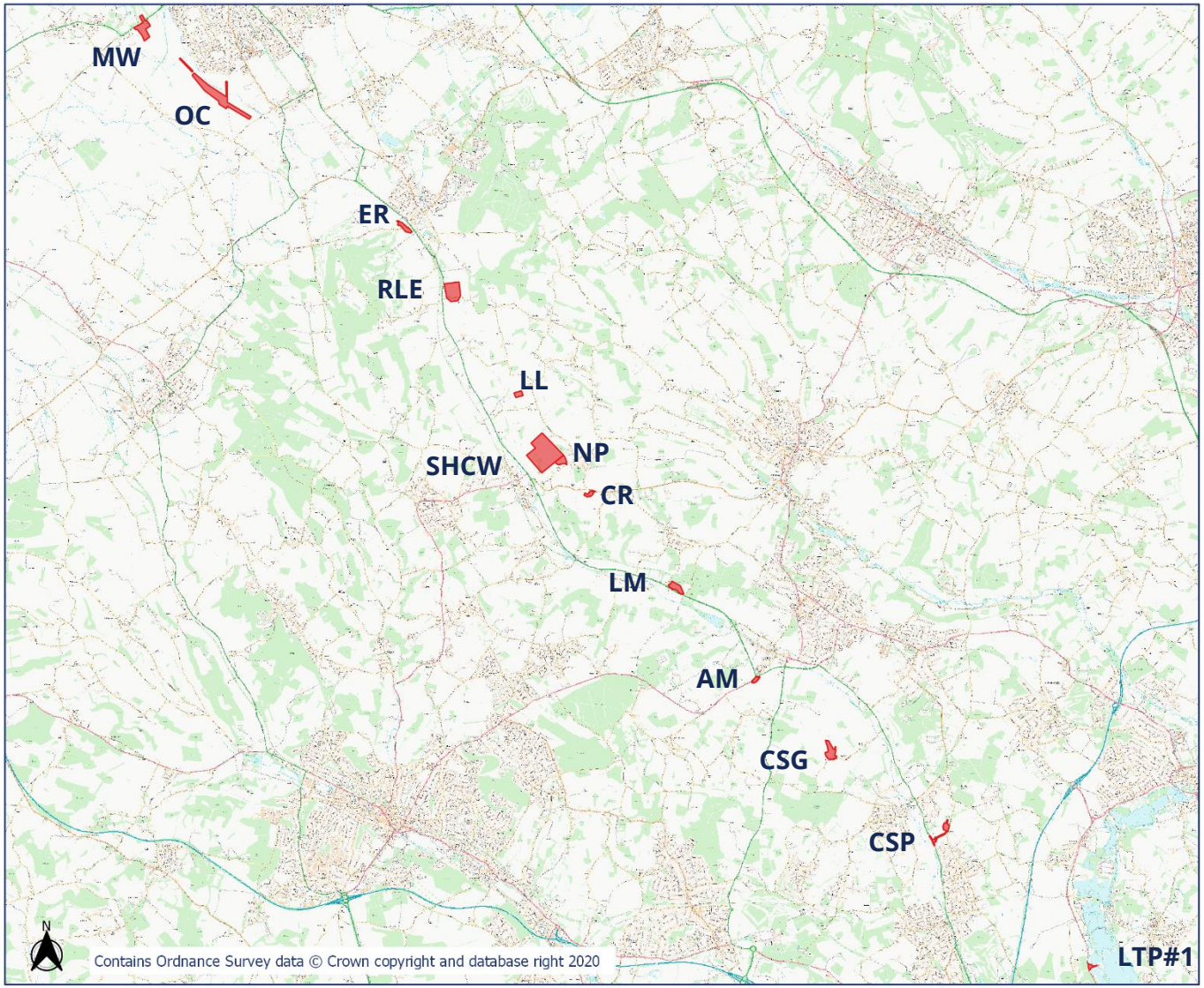
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-22-43647-C	OC	Complaint due to disturbance from construction noise at night.	Investigation shows piling and overnight rail deliveries are ongoing in the area of complaint. No noise exceedances were found from the closest noise monitors.	Acoustic barriers will be put in place in the next few days. Stakeholder has been contacted and information about the results of investigations have been provided.
HS2-22-43664-C	SHCW	Noise disturbance from construction works at site on a Sunday.	Investigation concluded that works were being undertaken at the nearby site on Sunday. In line with Section 61 consent.	Stakeholder has been informed of results of investigation and ensured that the works were in line with Section 61 consent.
HS2-22-76854-E.	OC	Noise disturbance during night-time period due to a train idling near the complainant's property.	Rail deliveries were underway during nigh-time periods from Sundays to Thursdays, in line with Section 61 consent.	Locomotive operators have been briefed to switch off the engines and operate start-stop when waiting to enter the main line. The complainant has been contacted and information provided.

Appendix A Site Locations

HS2 Worksite Identification Plan - Overview 1



HS2 Worksite Identification Plan - Overview 2

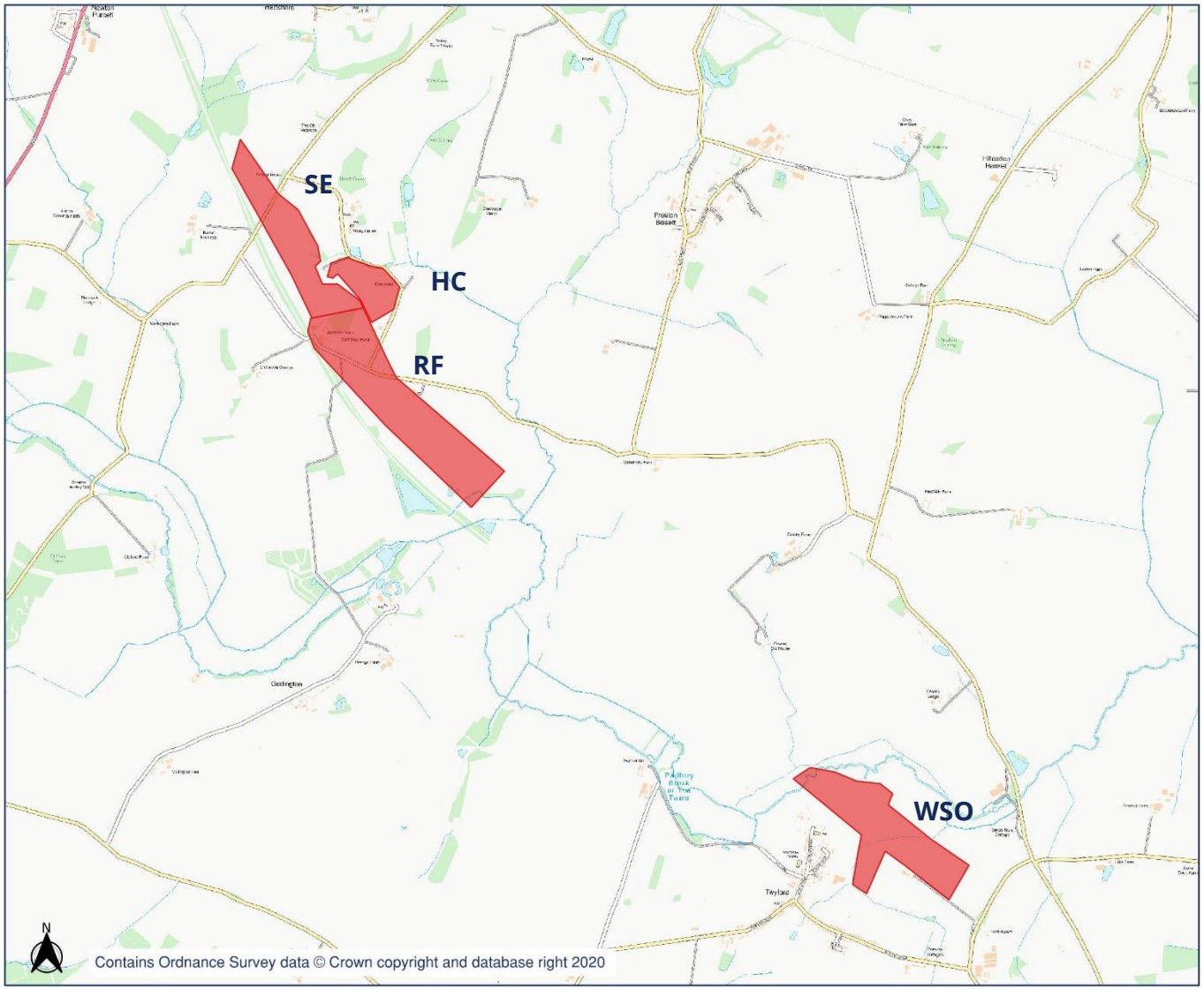


HS2

Worksite Identification Plan - 1

HS2

Worksite Identification Plan - 2

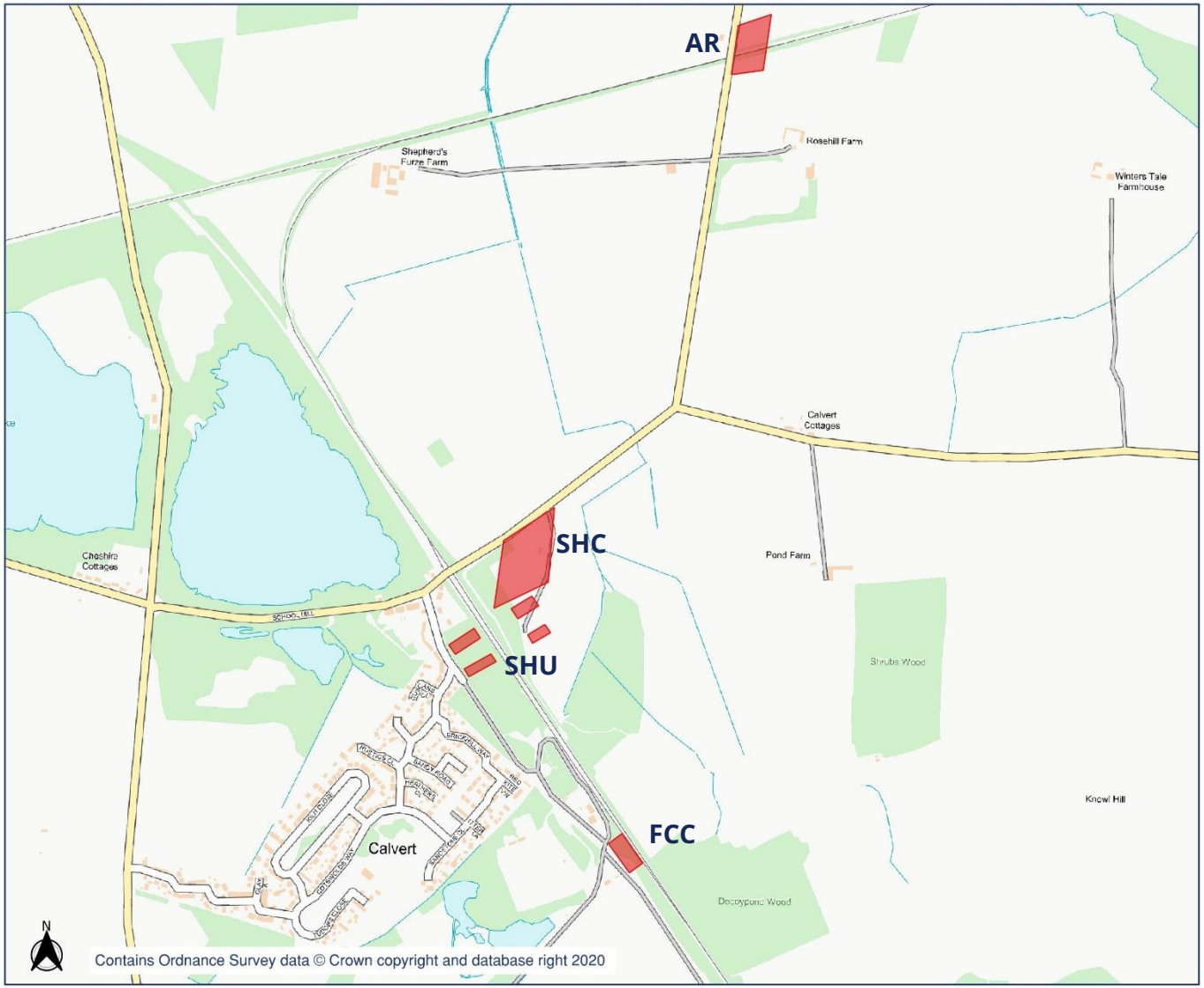


Legend

Active Worksites

HS2

Worksite Identification Plan - 3



Legend

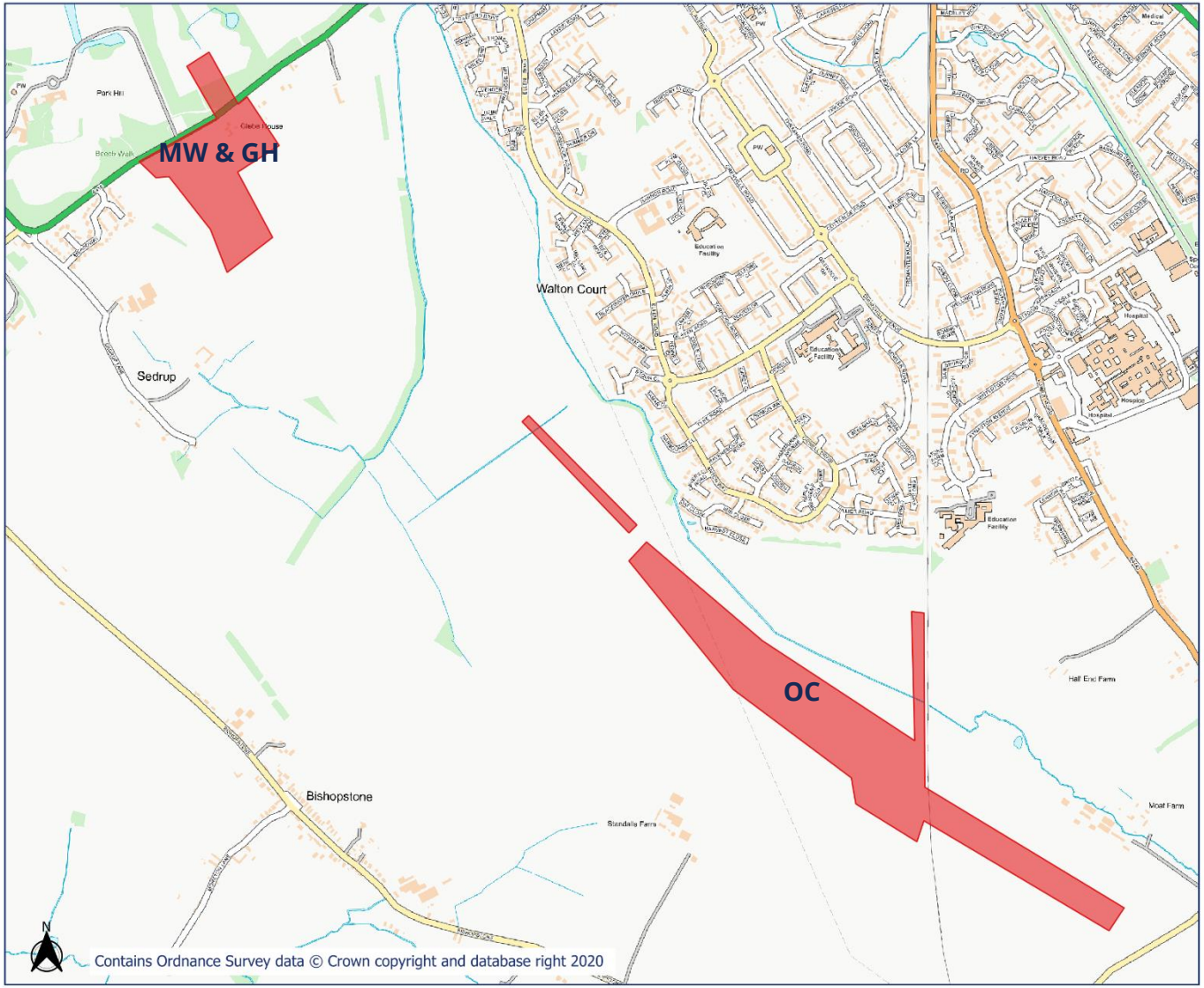
Active Worksites

Worksite Identification Plan - 4

Legend

Active Worksites

Worksite Identification Plan - 5



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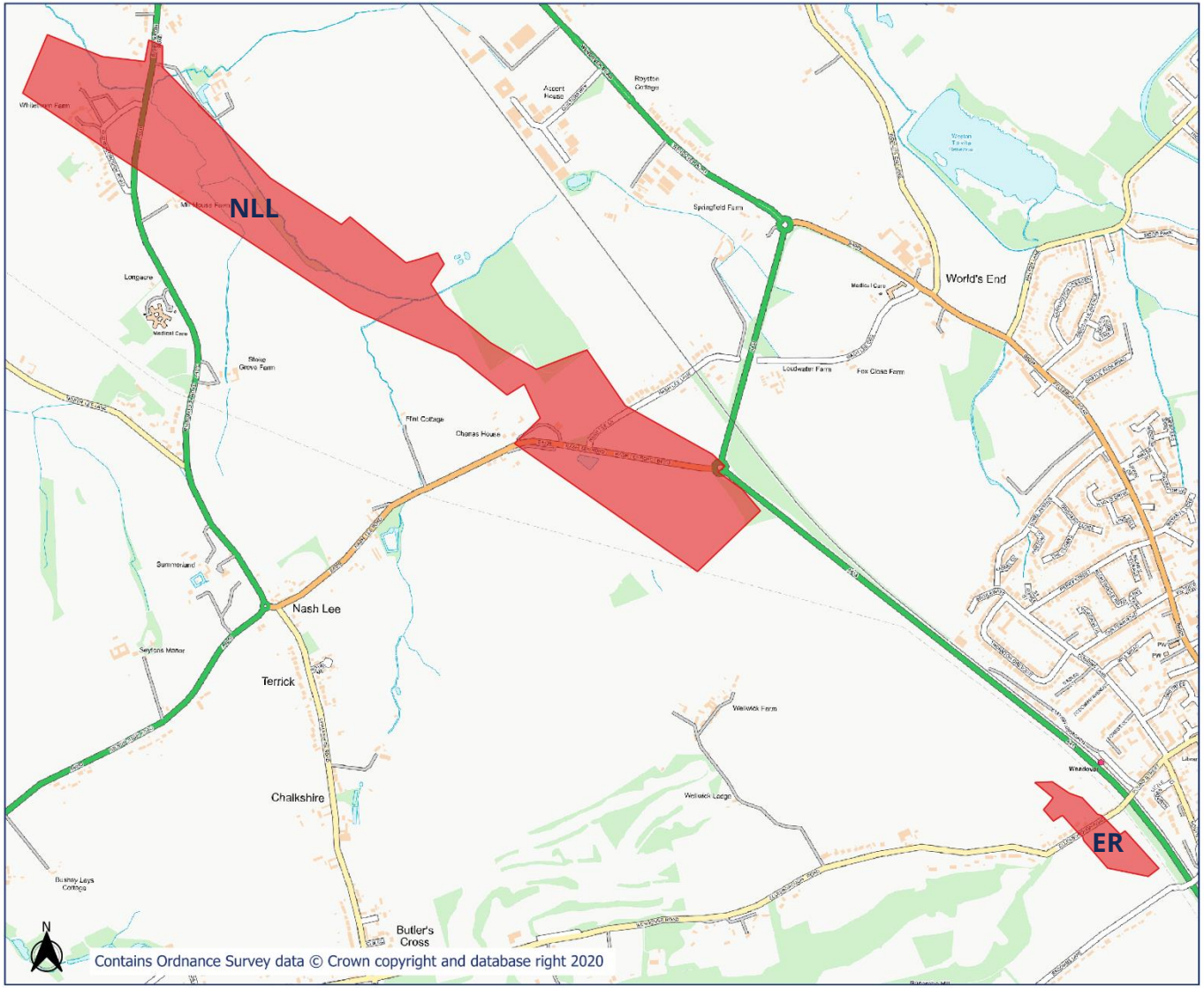
Active Worksites

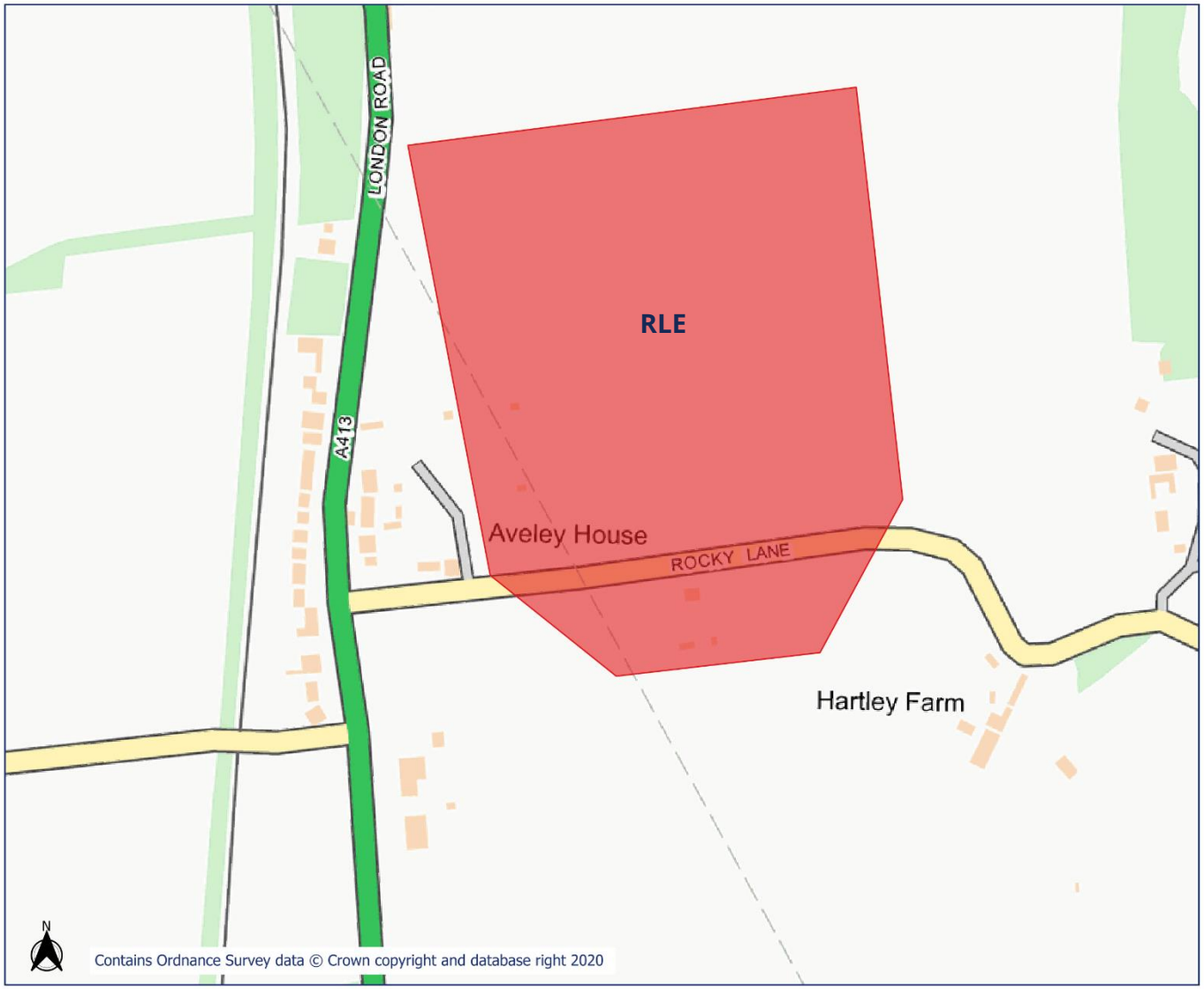
Worksite Identification Plan - 6



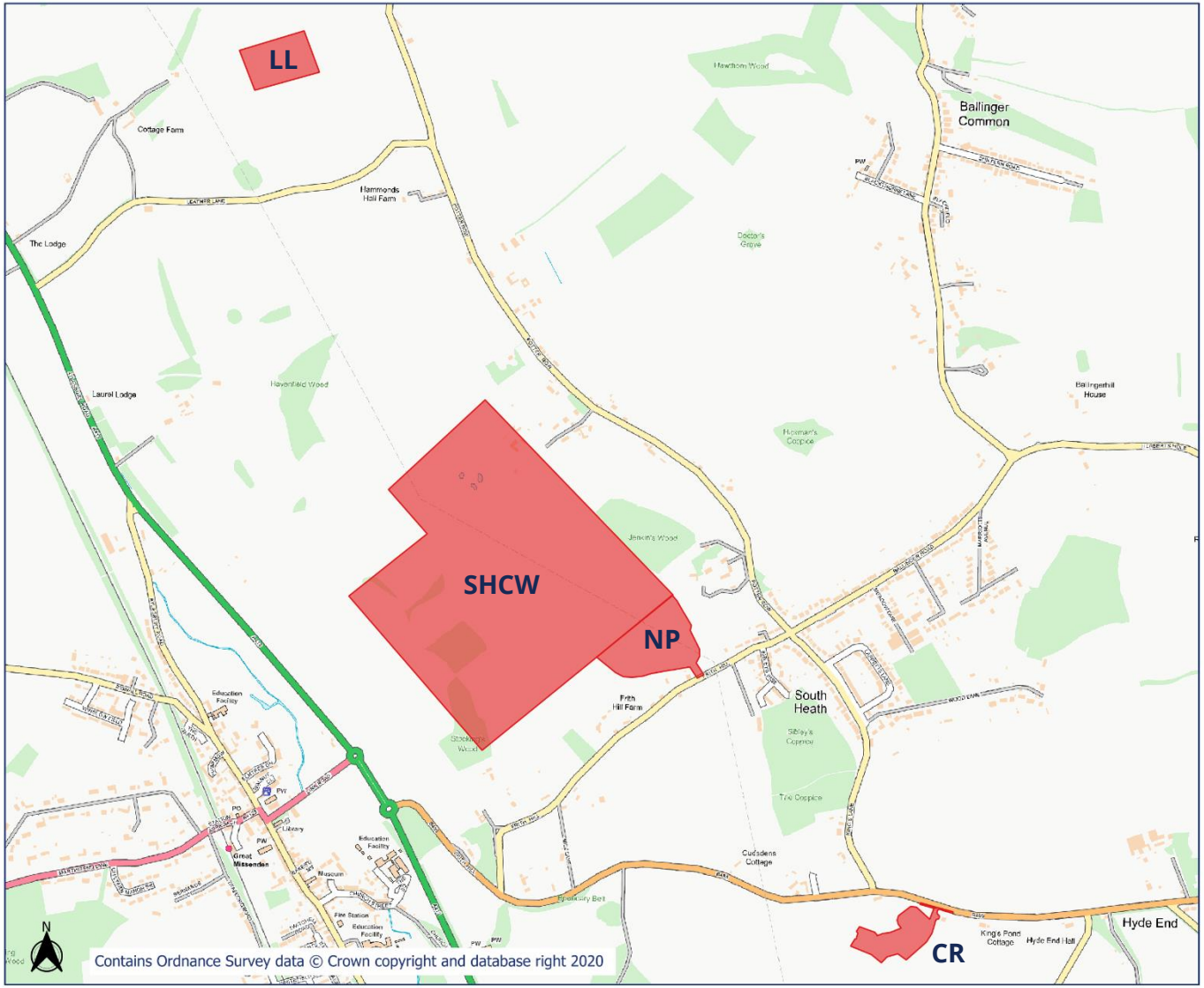
Legend

Active Worksites

Worksite Identification Plan - 7



Worksite Identification Plan - 8



Worksite Identification Plan - 9

Legend

Active Worksites

Worksite Identification Plan - 10

Worksite Identification Plan - 11

Worksite Identification Plan - 12

Legend

Active Worksites

Worksite Identification Plan - 13

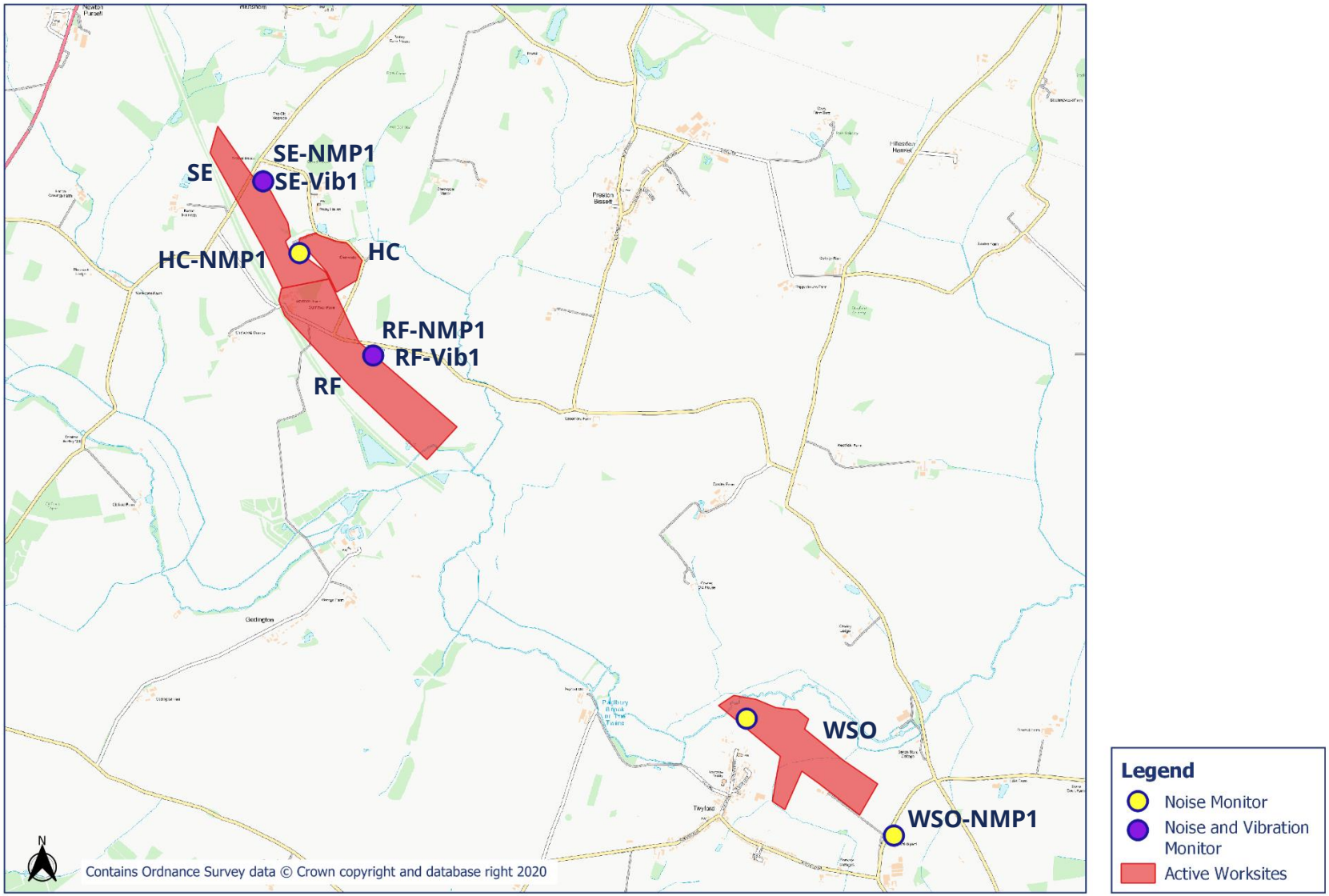
Legend

Active Worksites

Appendix B Monitoring Locations

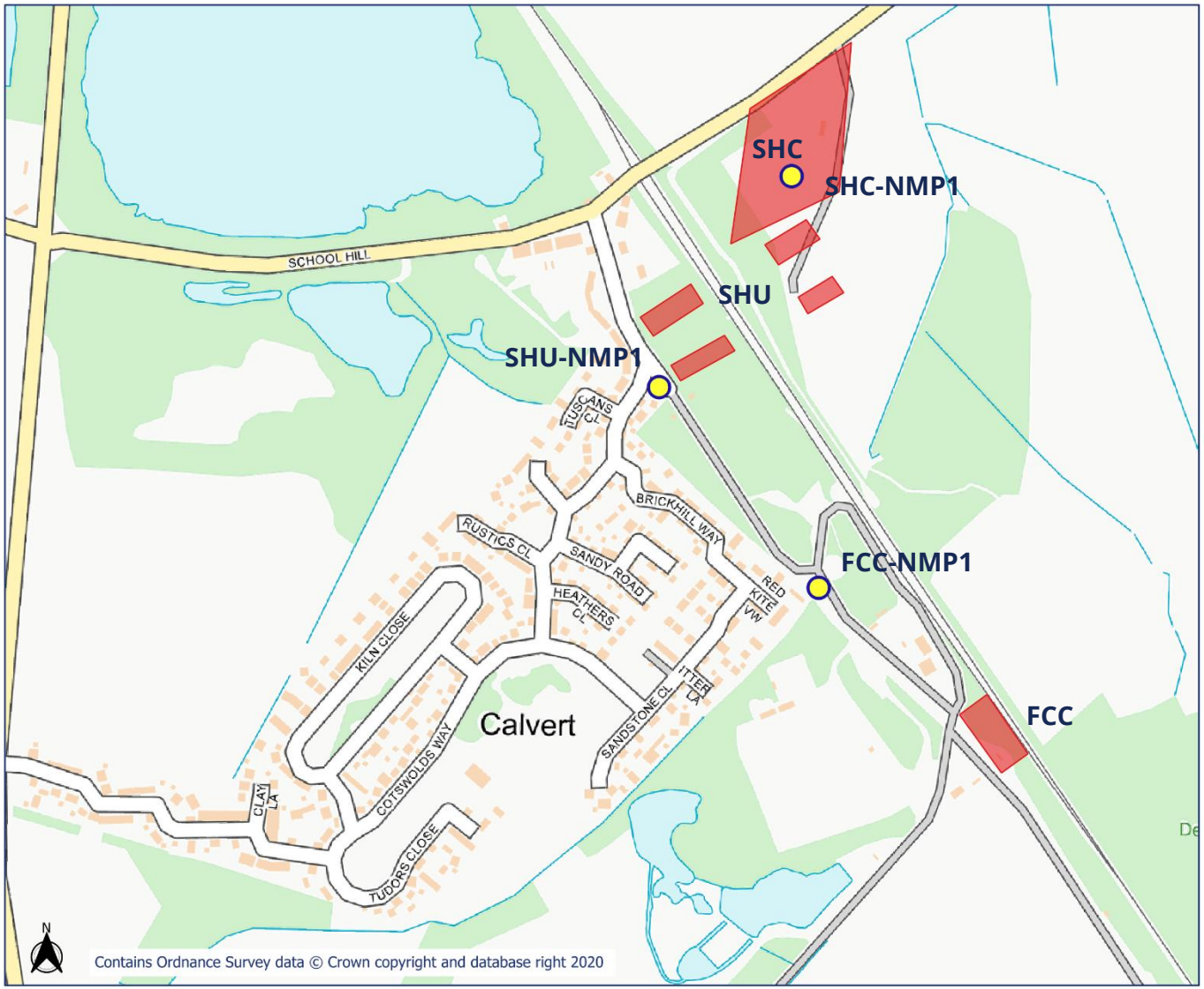
Noise and Vibration Monitoring Plan - 1

Noise and Vibration Monitoring Plan - 2



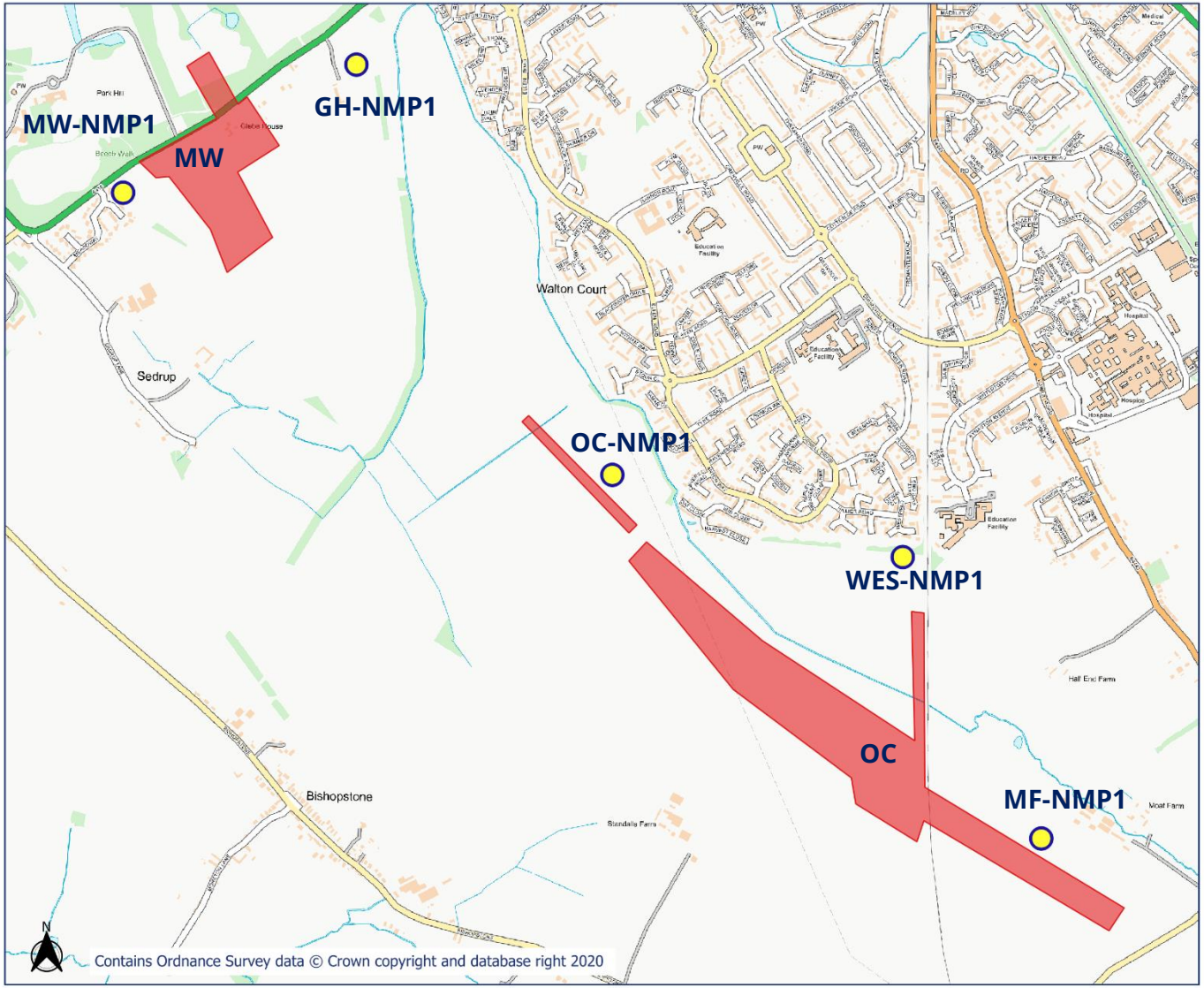
Noise and Vibration Monitoring Plan - 3

Noise and Vibration Monitoring Plan - 4

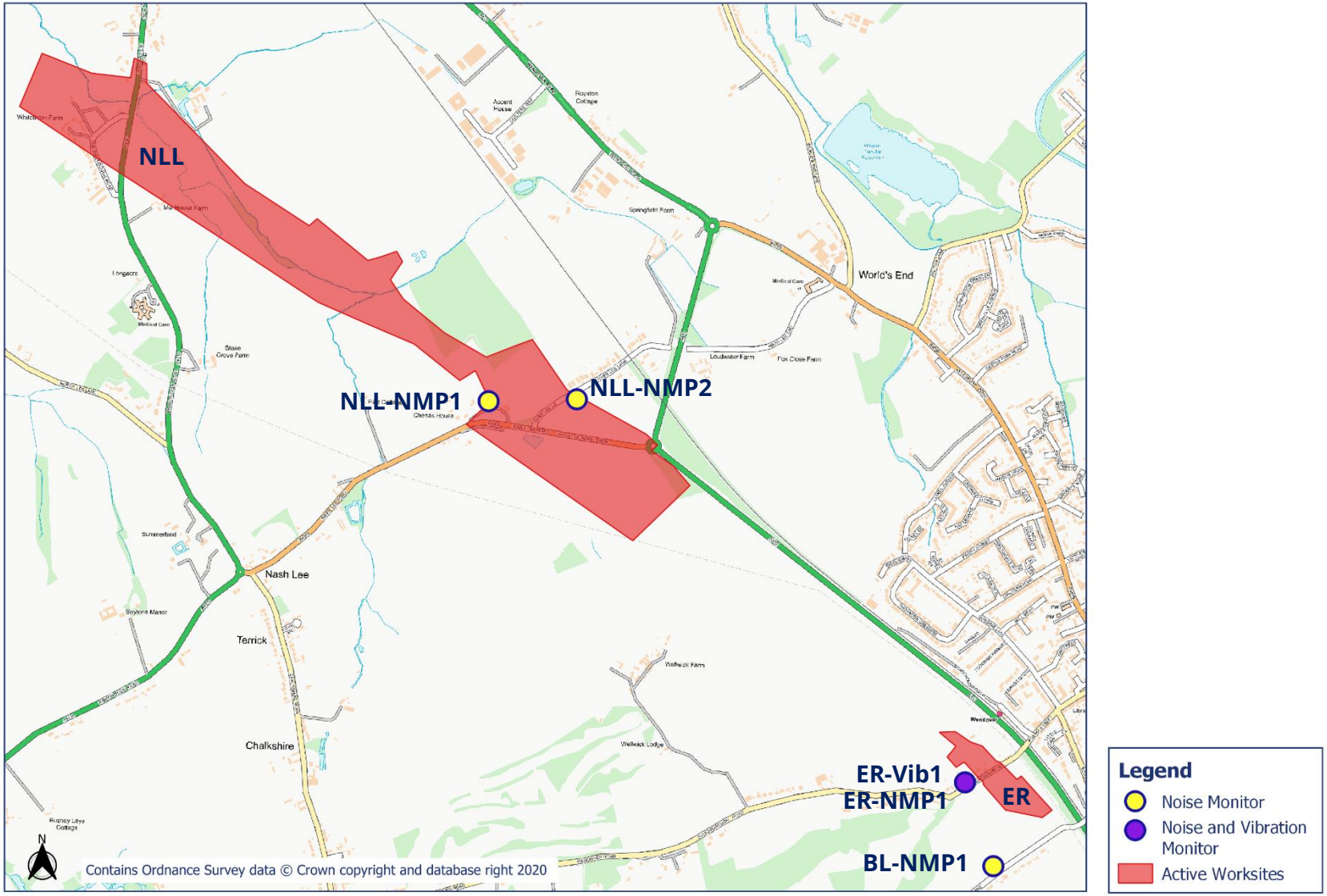


Noise and Vibration Monitoring Plan - 5

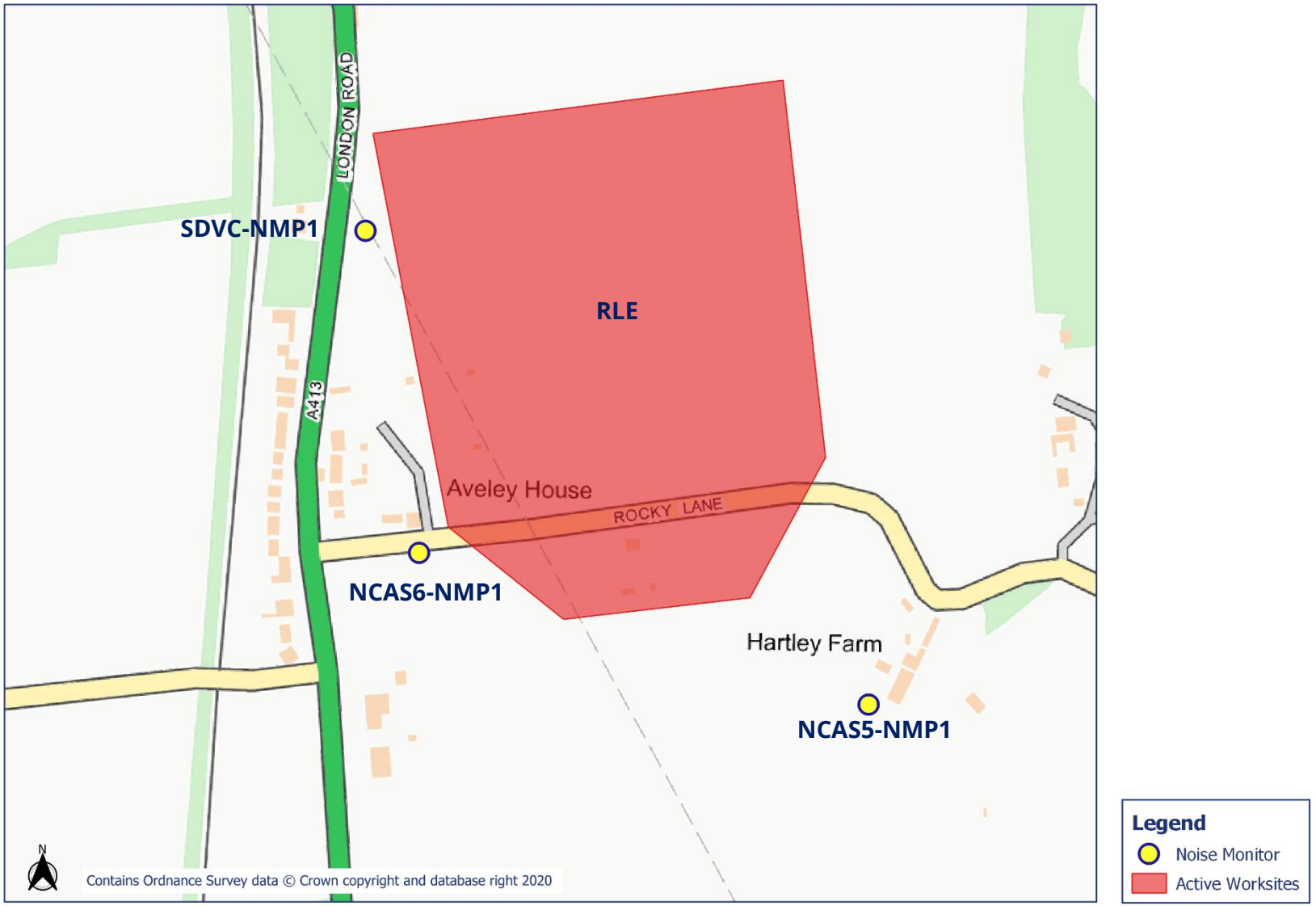
HS2 Noise and Vibration Monitoring Plan - 6



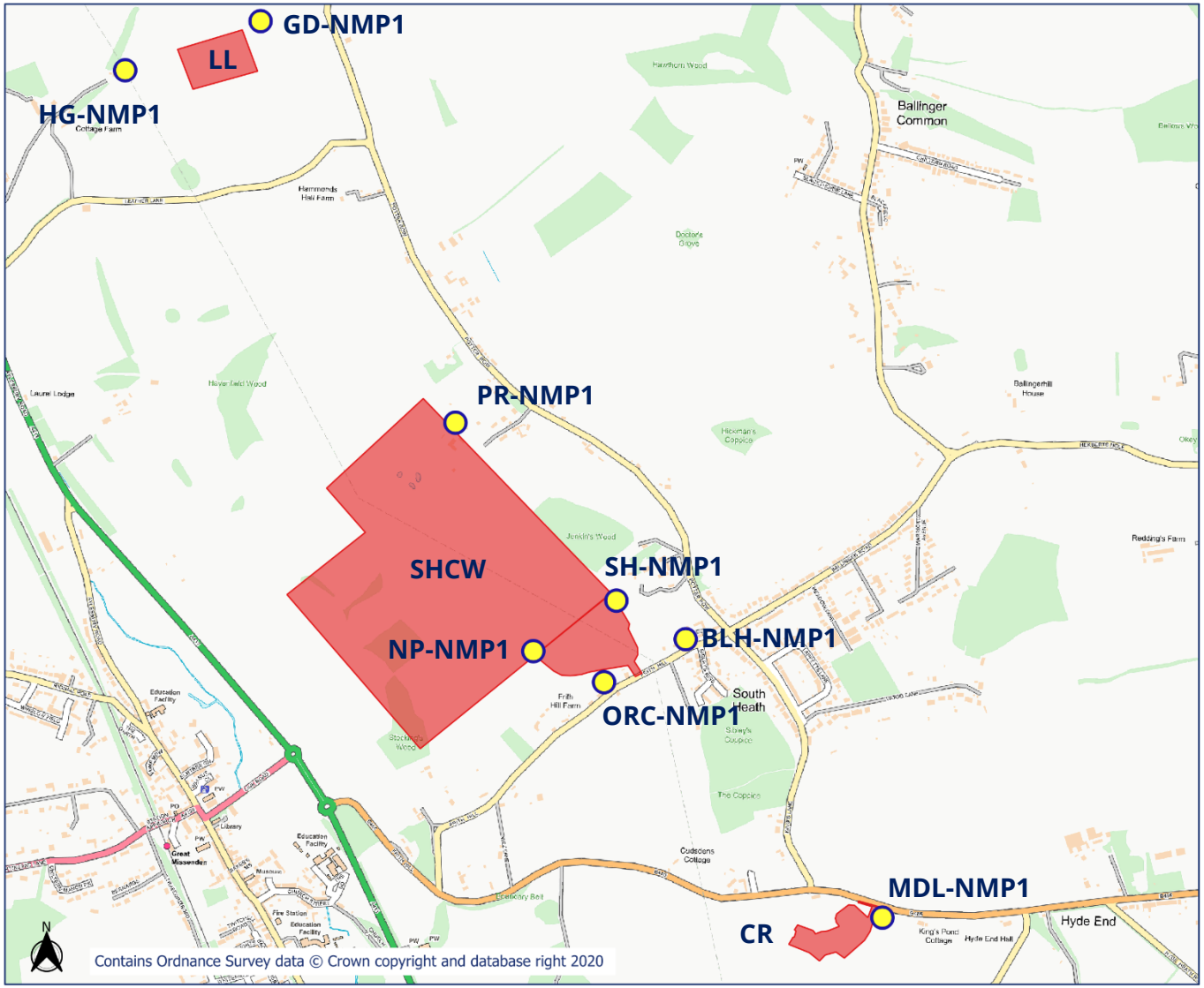
Noise and Vibration Monitoring Plan - 7



Noise and Vibration Monitoring Plan - 8

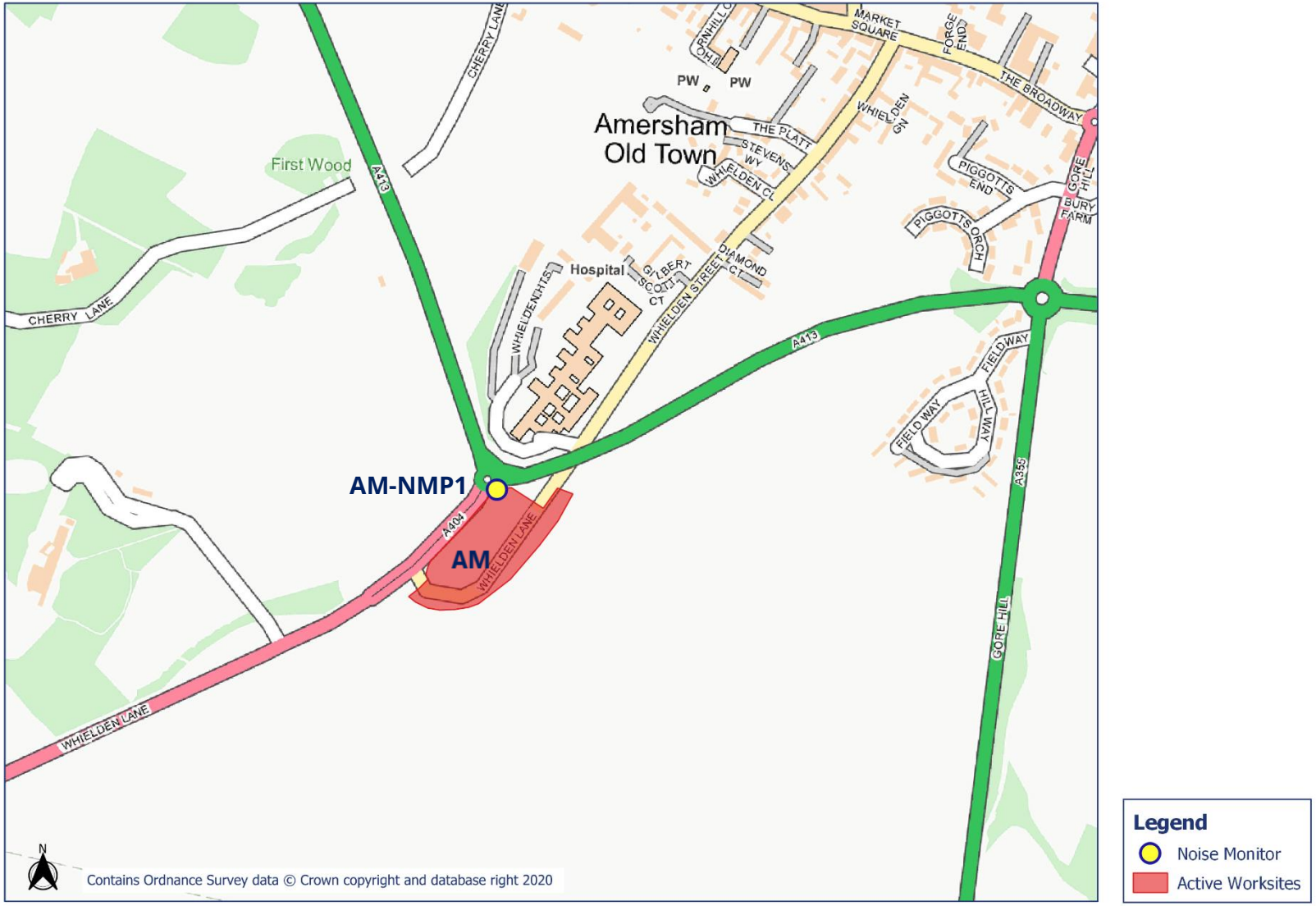


Noise and Vibration Monitoring Plan - 9

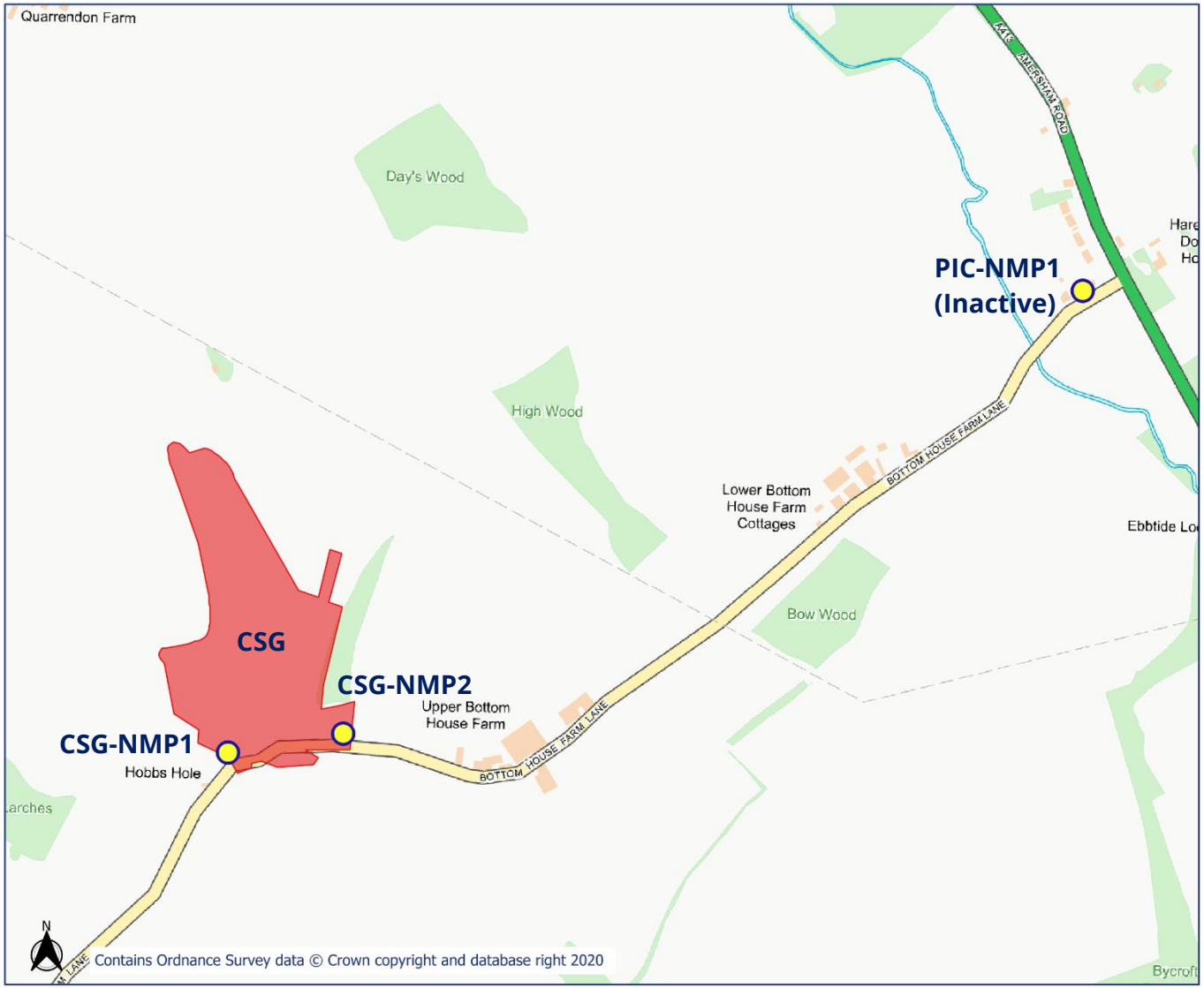


Noise and Vibration Monitoring Plan - 10

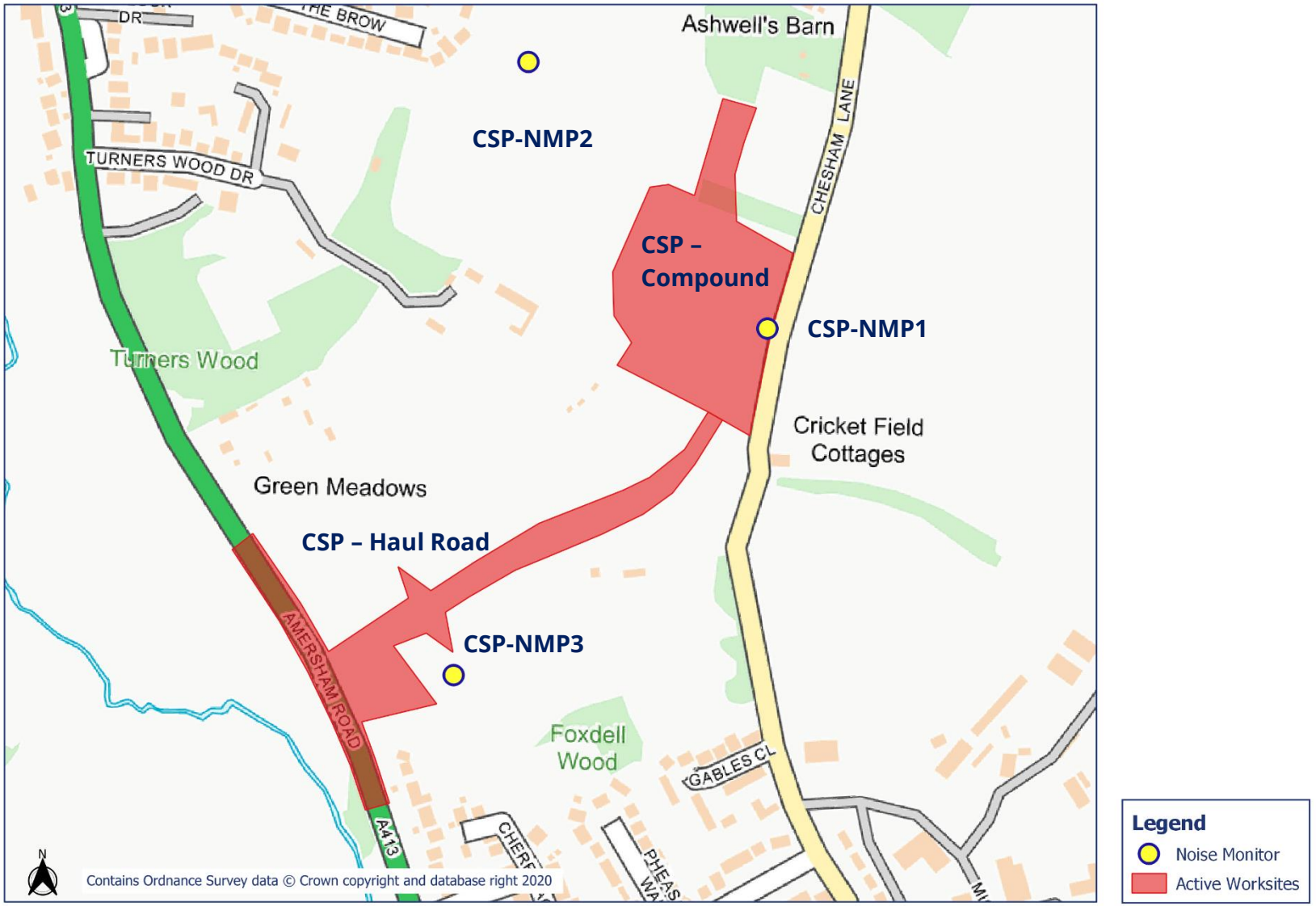
HS2 Noise and Vibration Monitoring Plan - 11



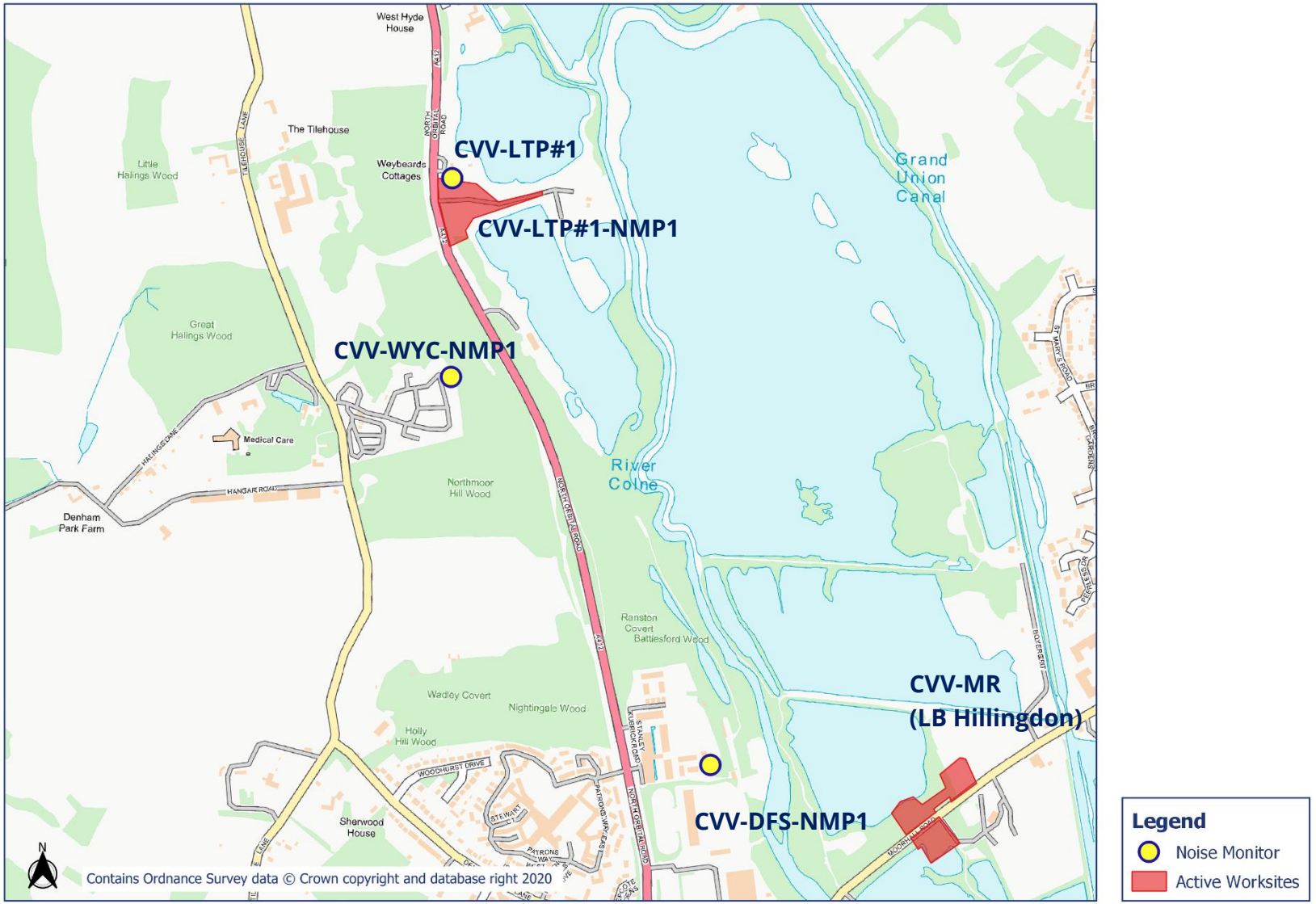
Noise and Vibration Monitoring Plan - 12



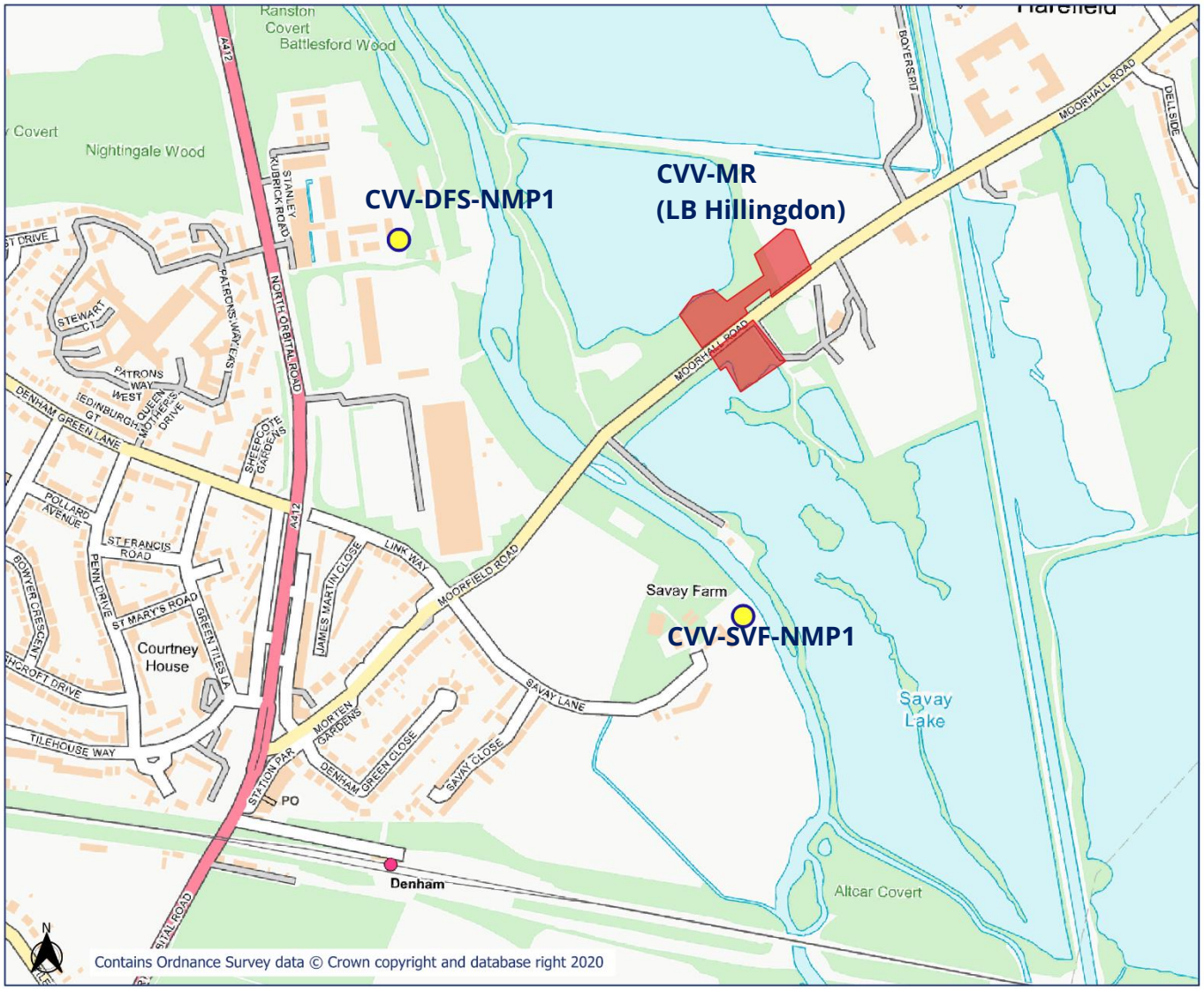
Noise and Vibration Monitoring Plan - 13



Noise and Vibration Monitoring Plan - 14



Noise and Vibration Monitoring Plan - 15



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 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.

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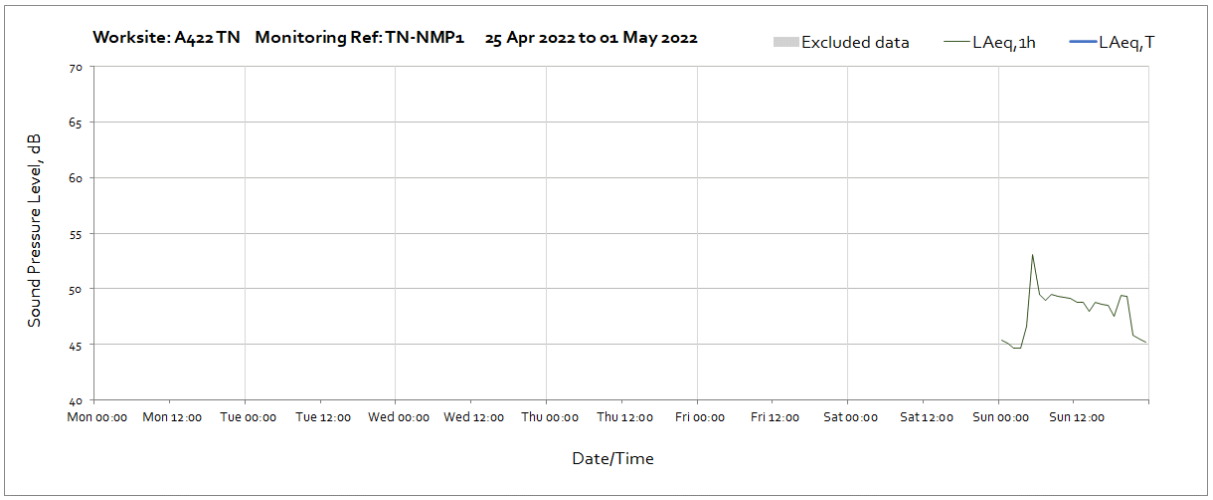

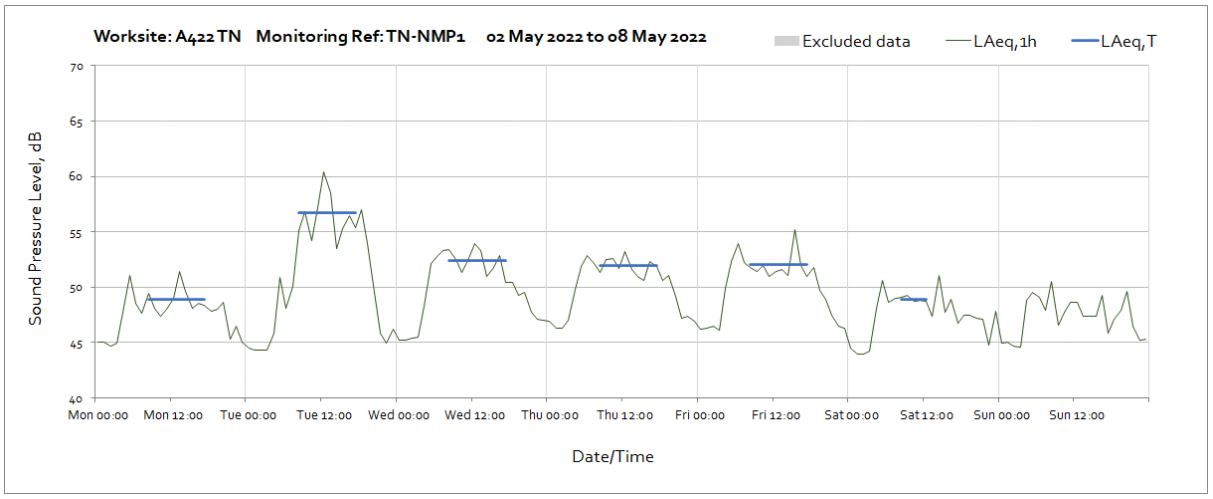

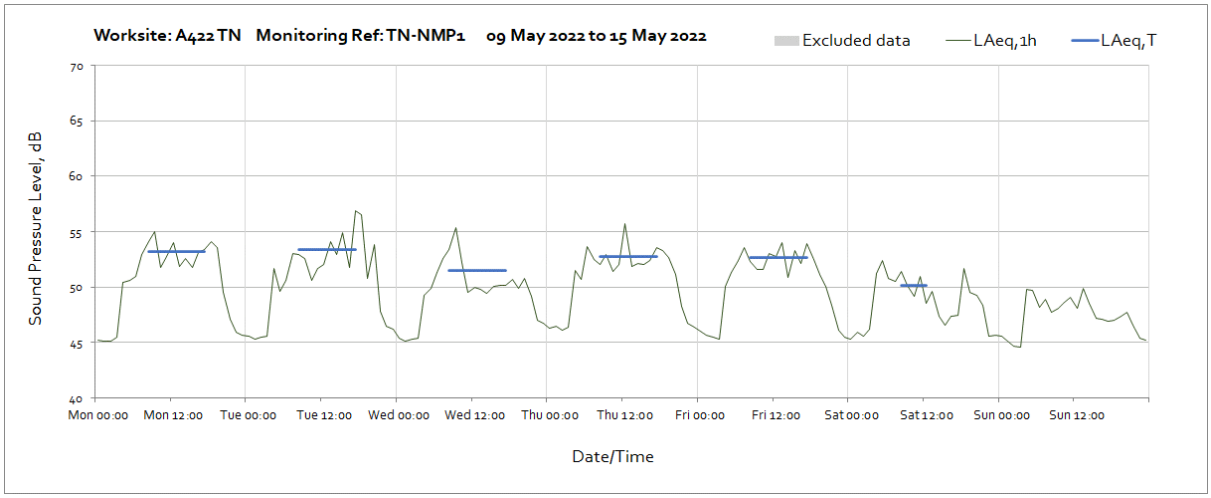
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LAeq,T
Sound Pressure Level, dB
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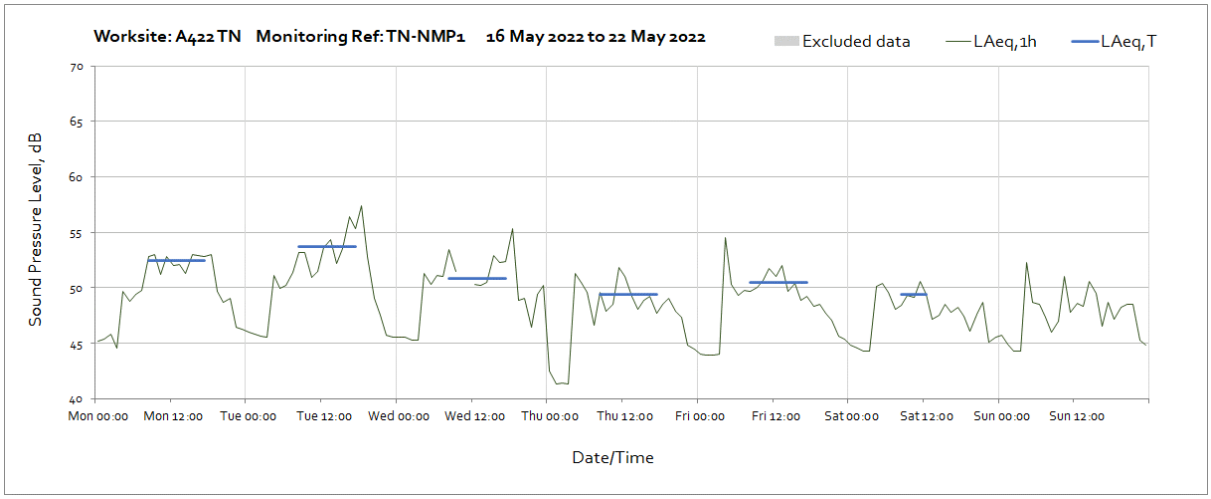
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Sound Pressure Level, dB
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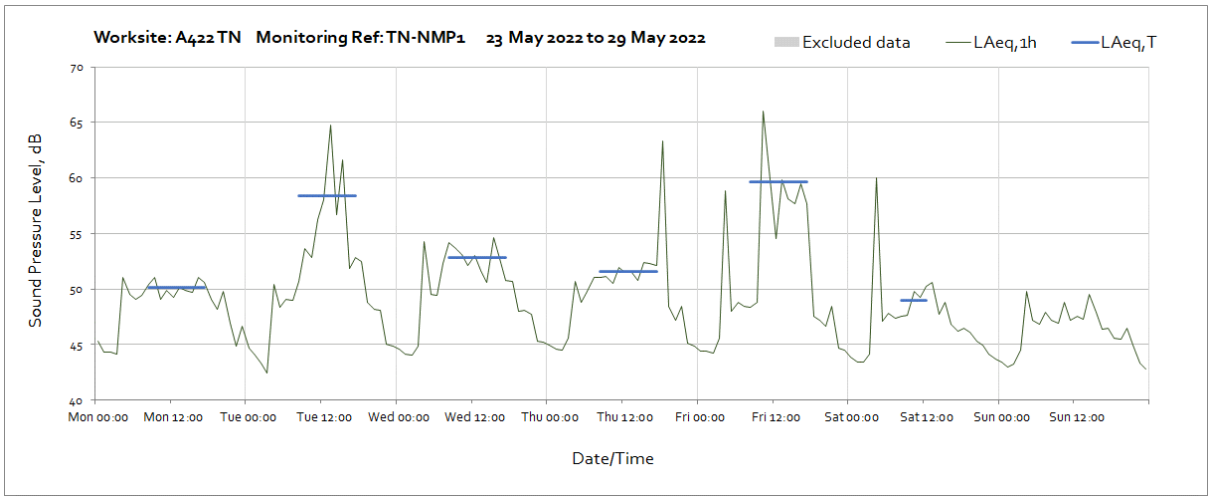
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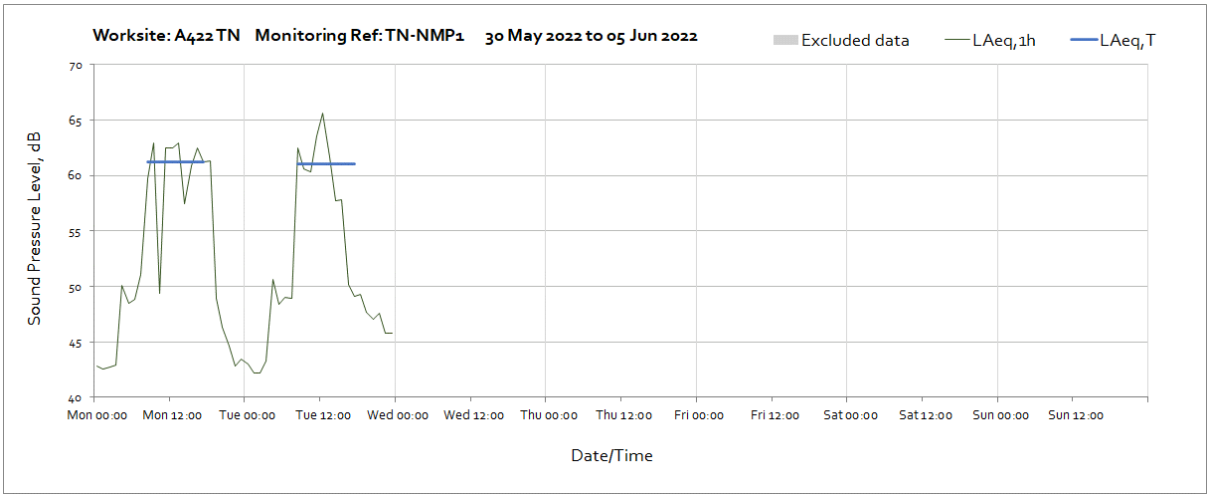

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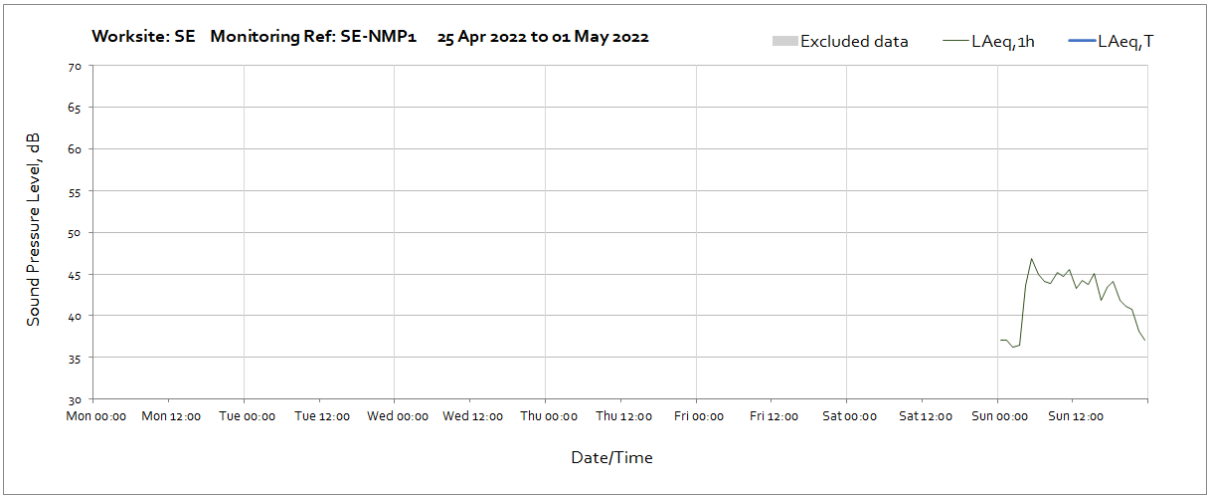

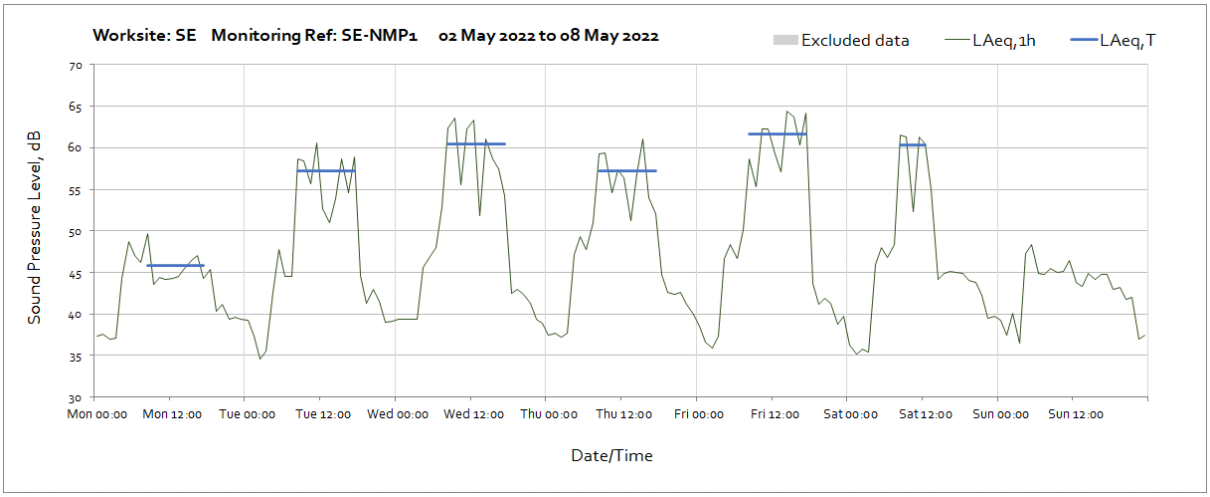

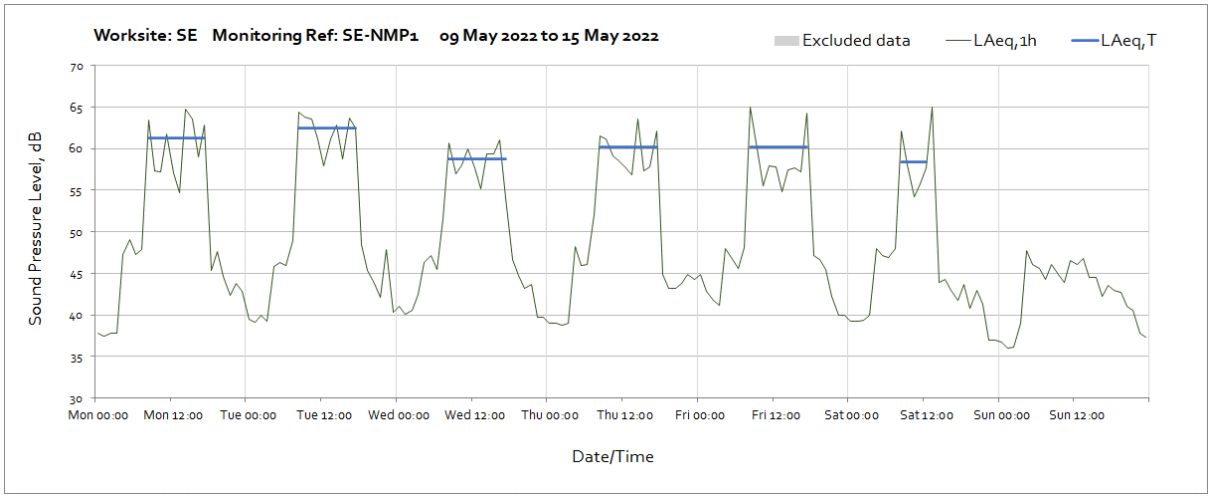
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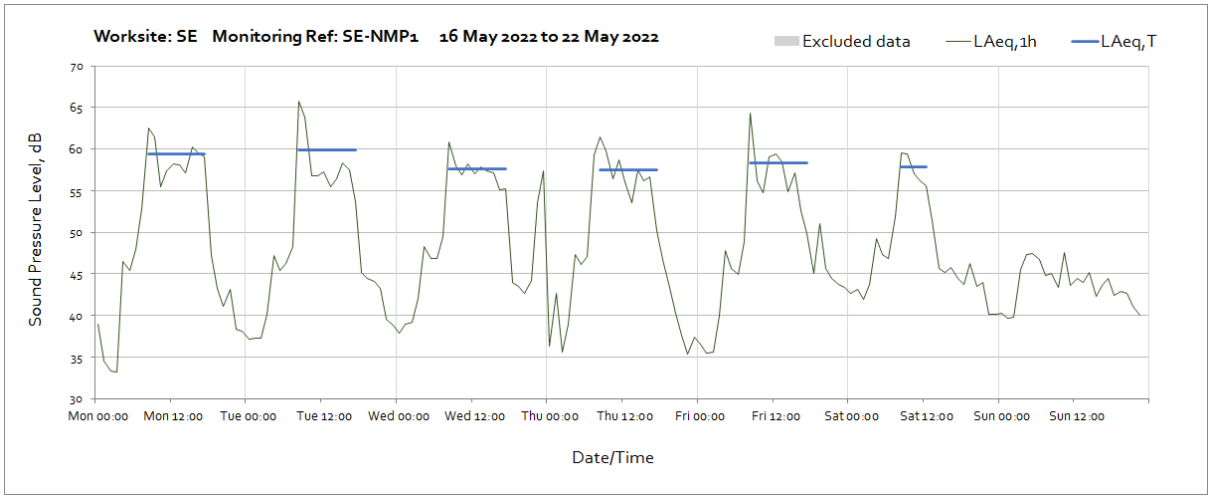
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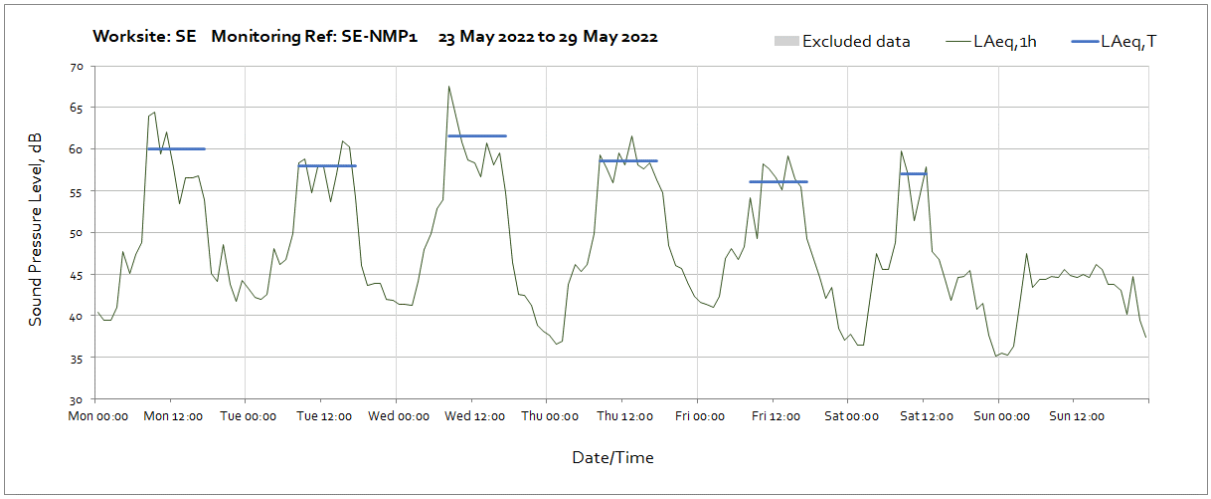
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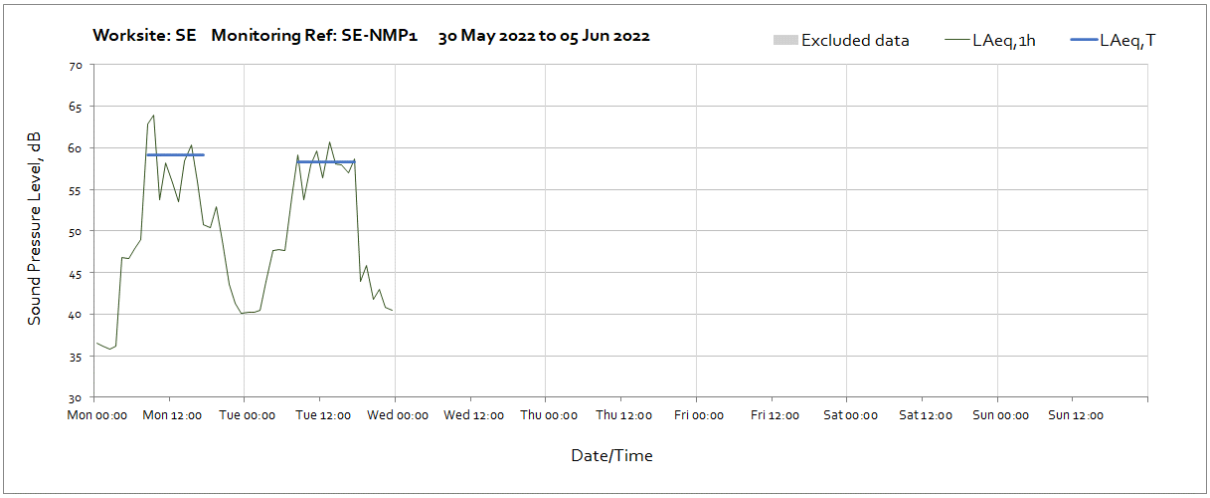

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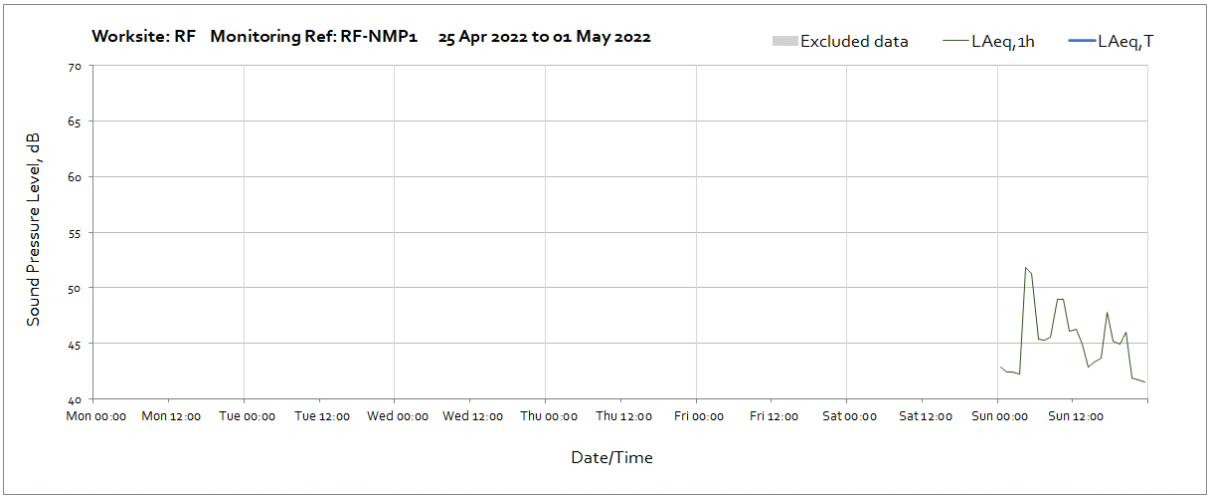

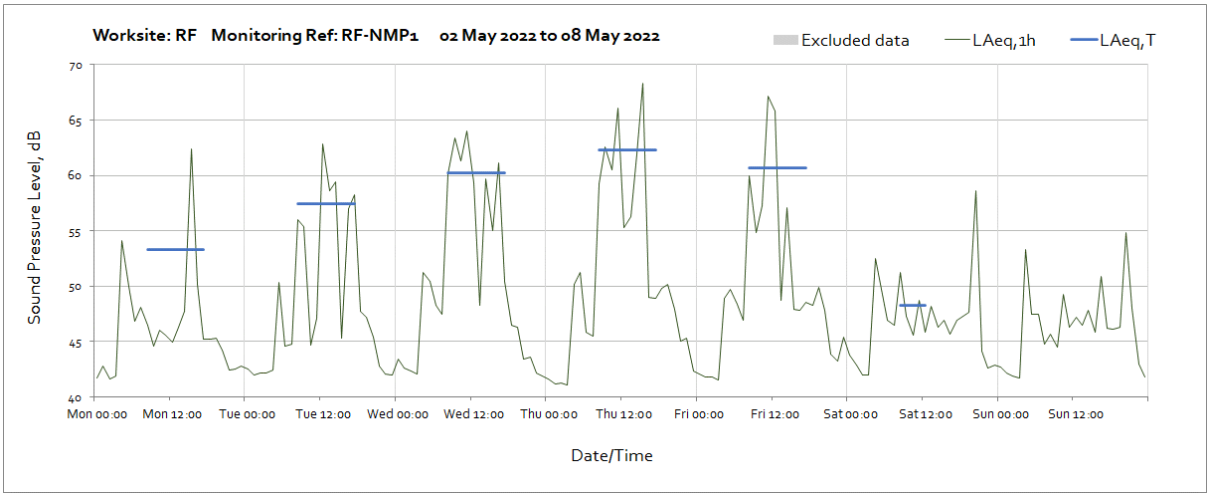

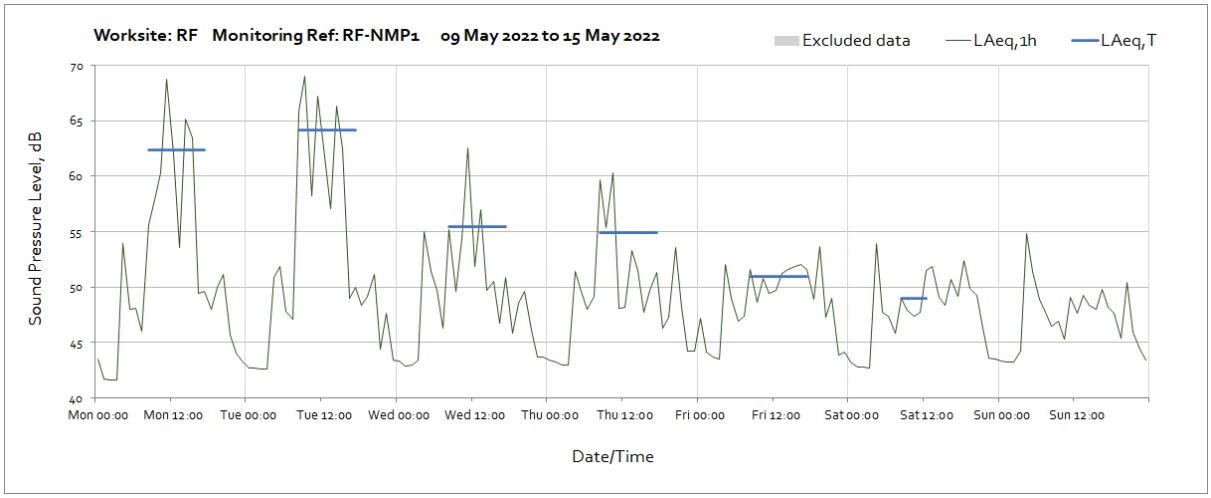
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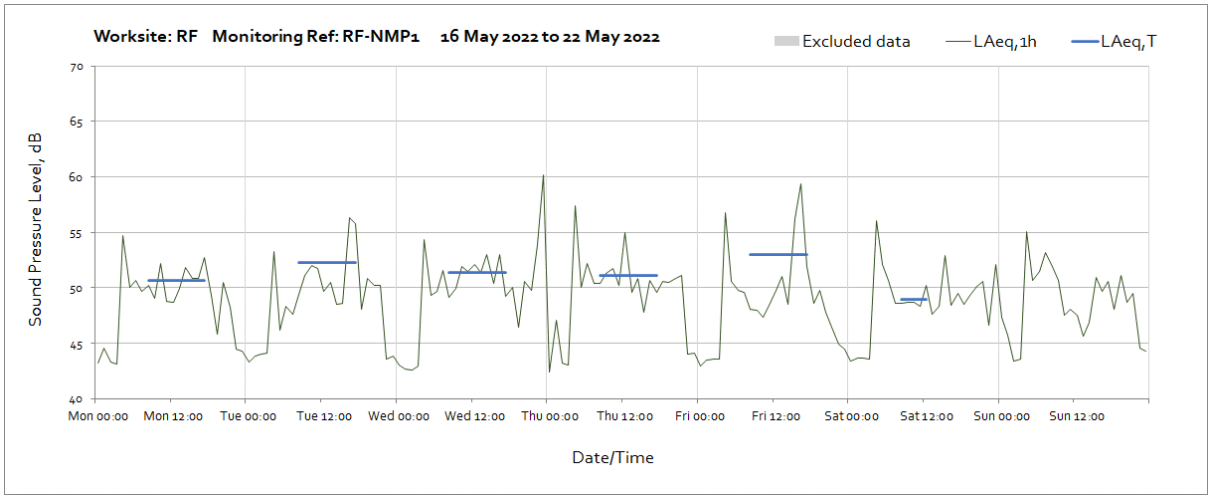
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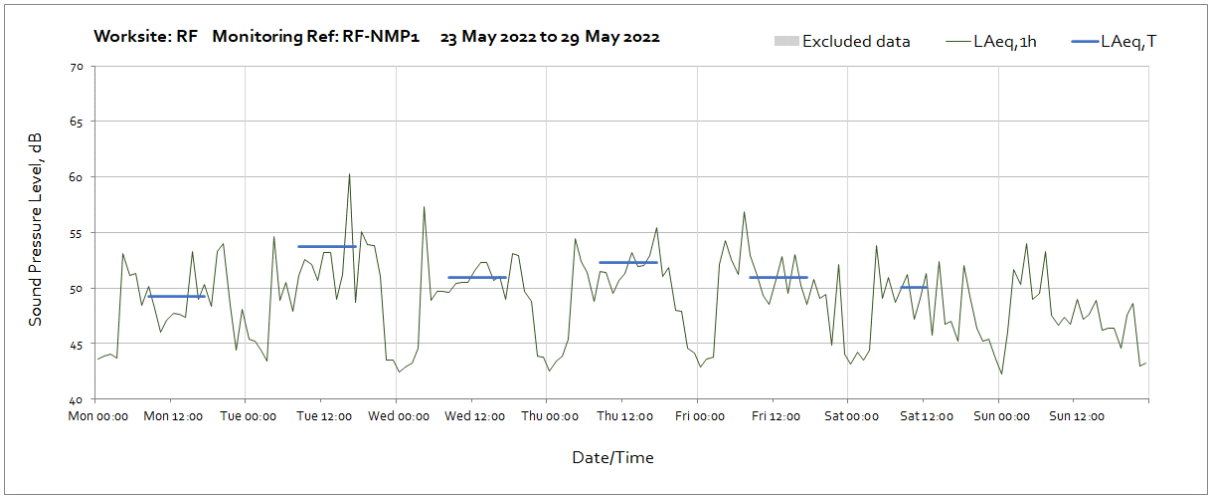
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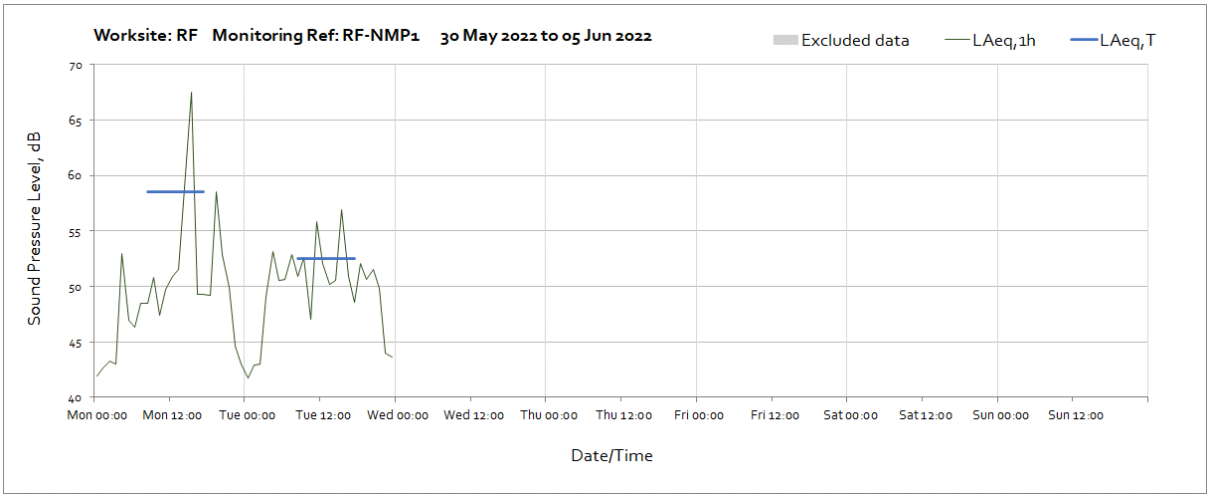

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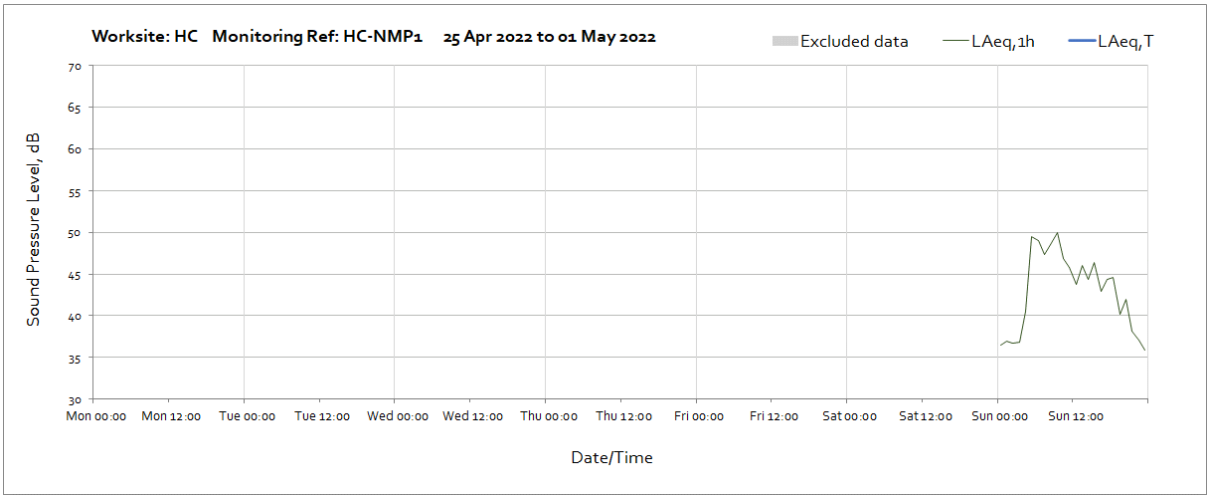

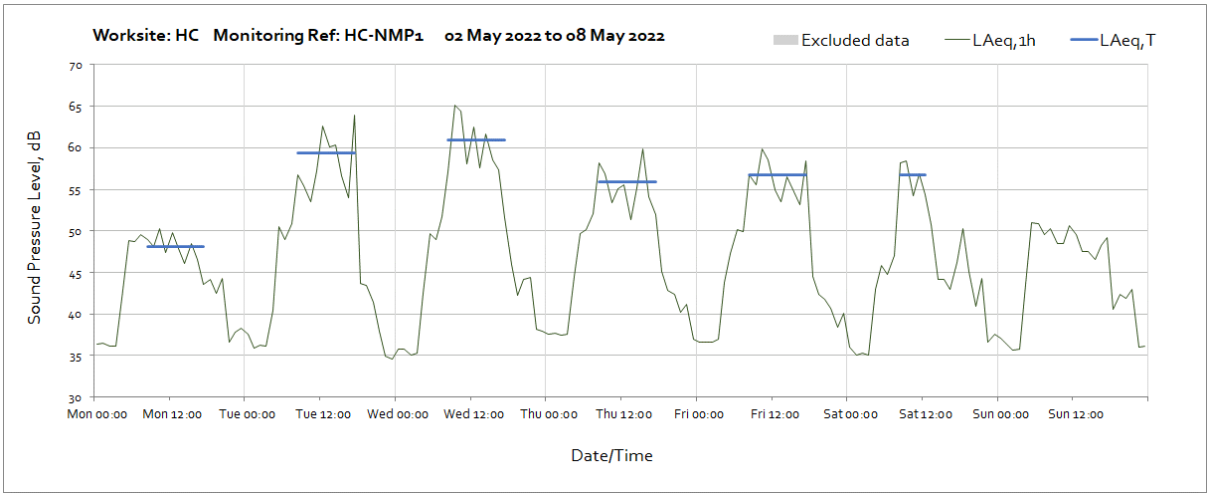

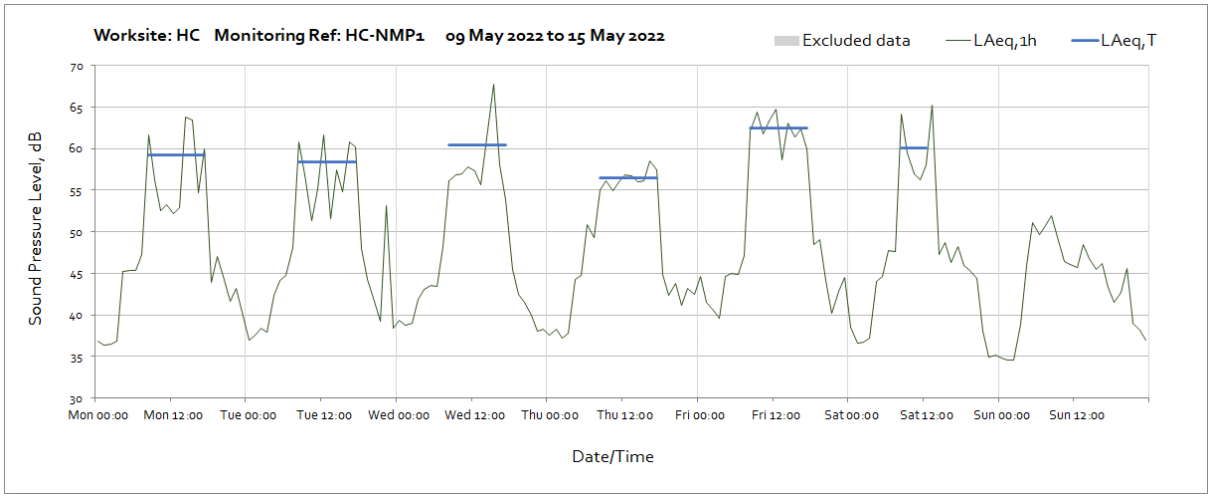
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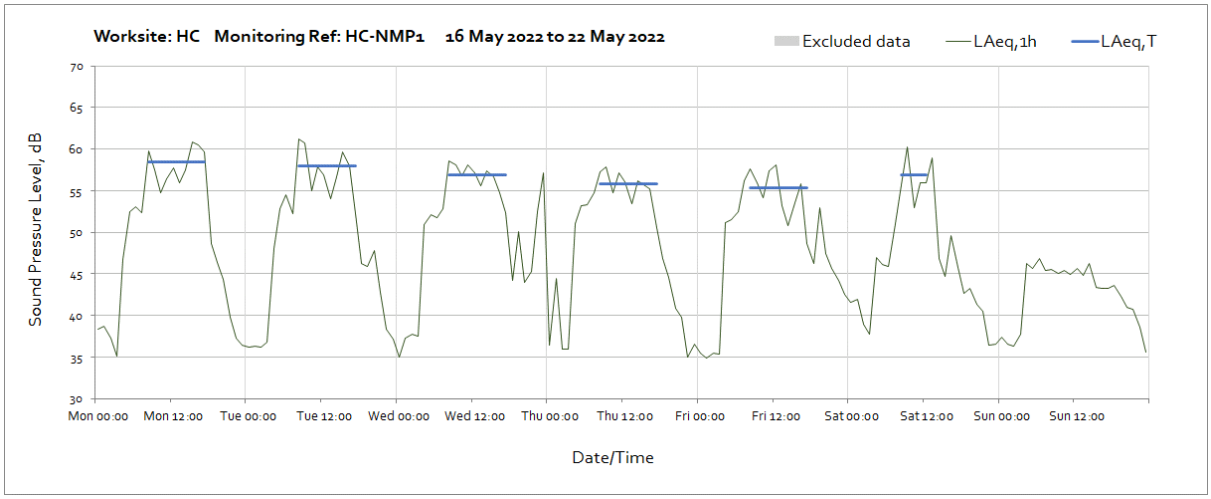
Date/Time


Worksite: HC Monitoring Ref: HC-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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Mon 00:00
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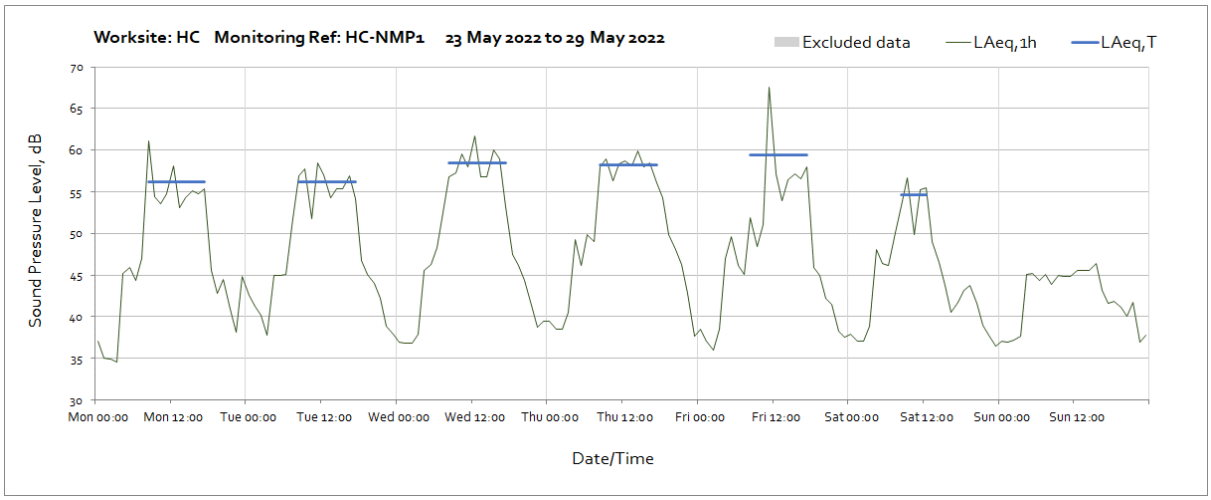
Date/Time


Worksite: HC Monitoring Ref: HC-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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Mon 00:00
Mon 12:00
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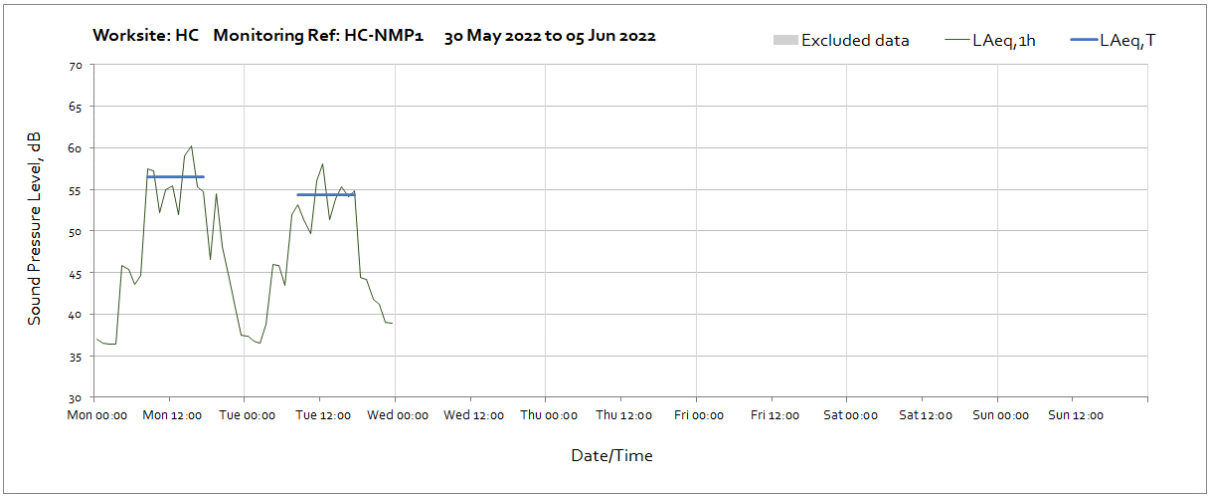
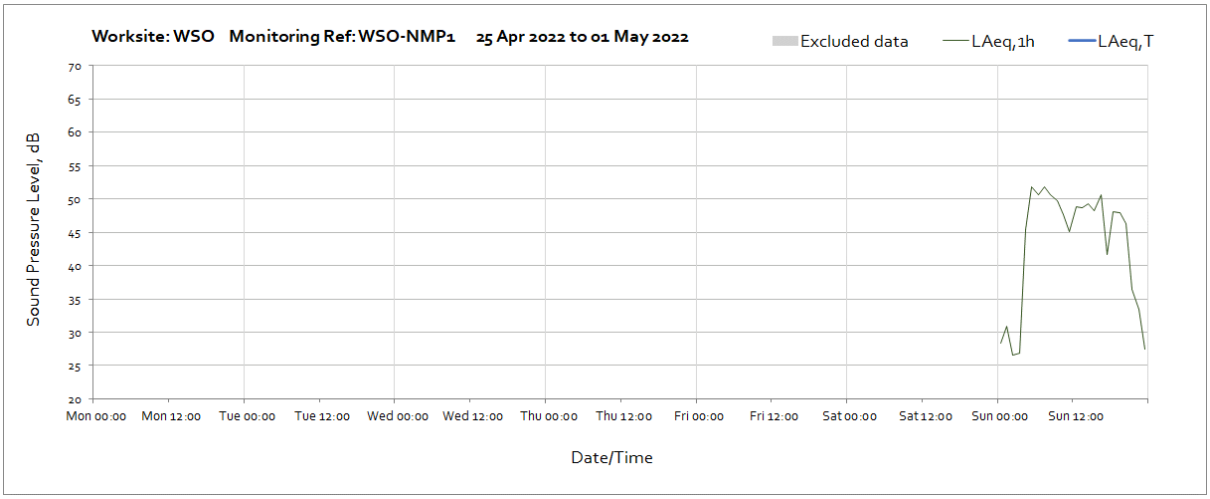
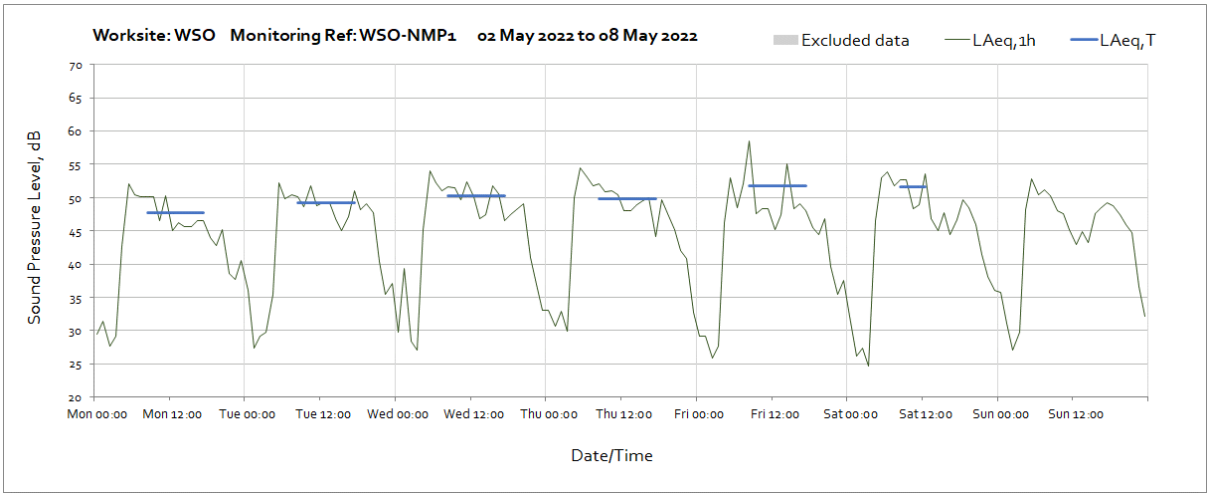
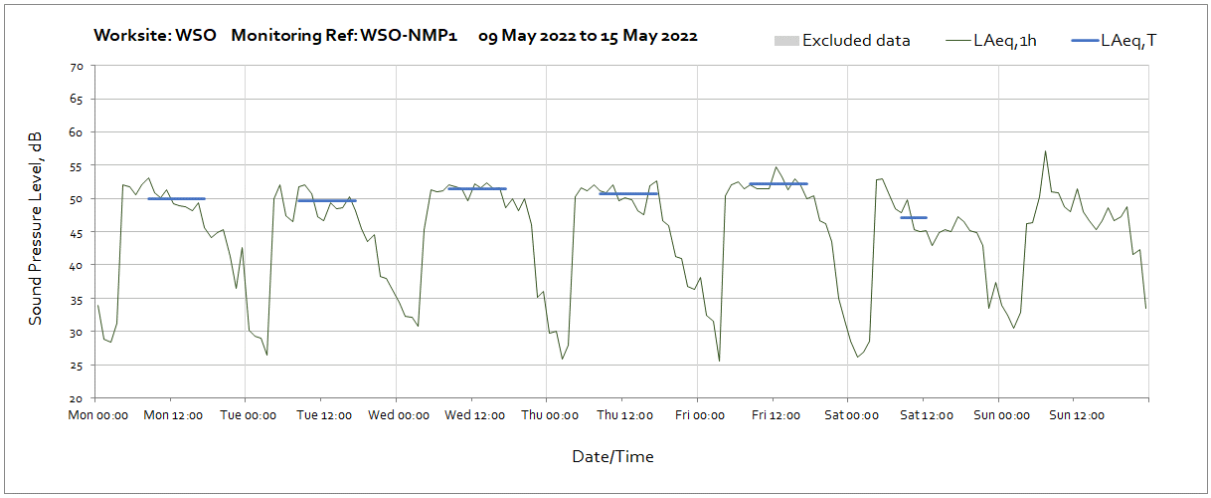
Date/Time



Worksite: WSO – Monitoring Ref: WSO-NMP1






Worksite: WSO Monitoring Ref: WSO-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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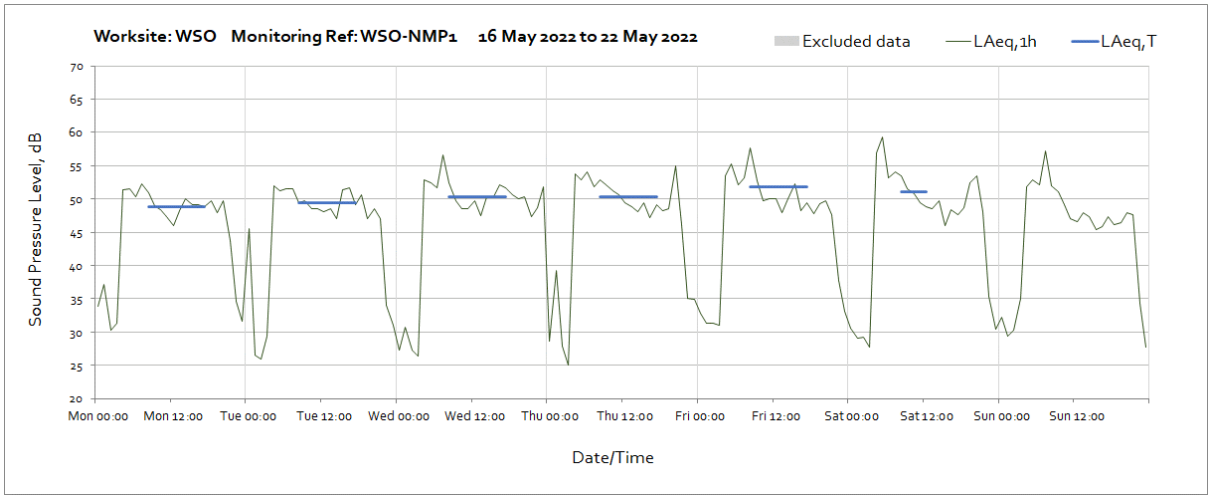
Date/Time


Worksite: WSO Monitoring Ref: WSO-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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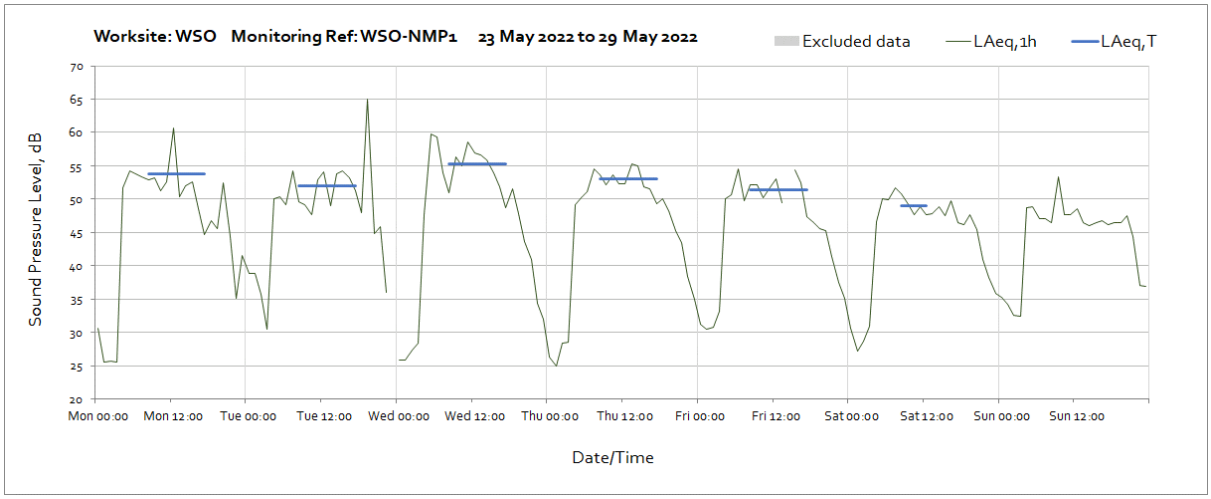
Date/Time


Worksite: WSO Monitoring Ref: WSO-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
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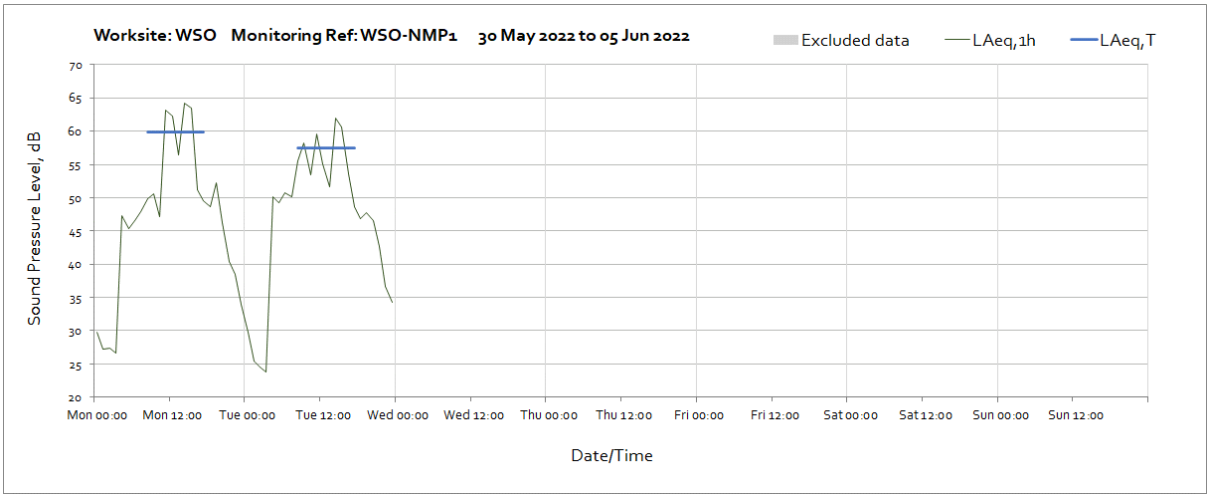
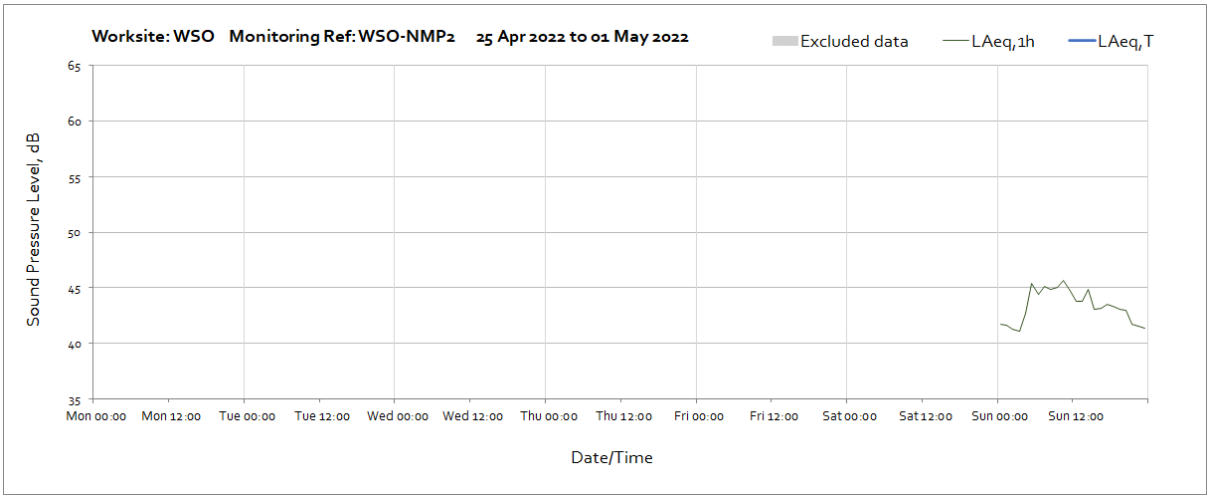
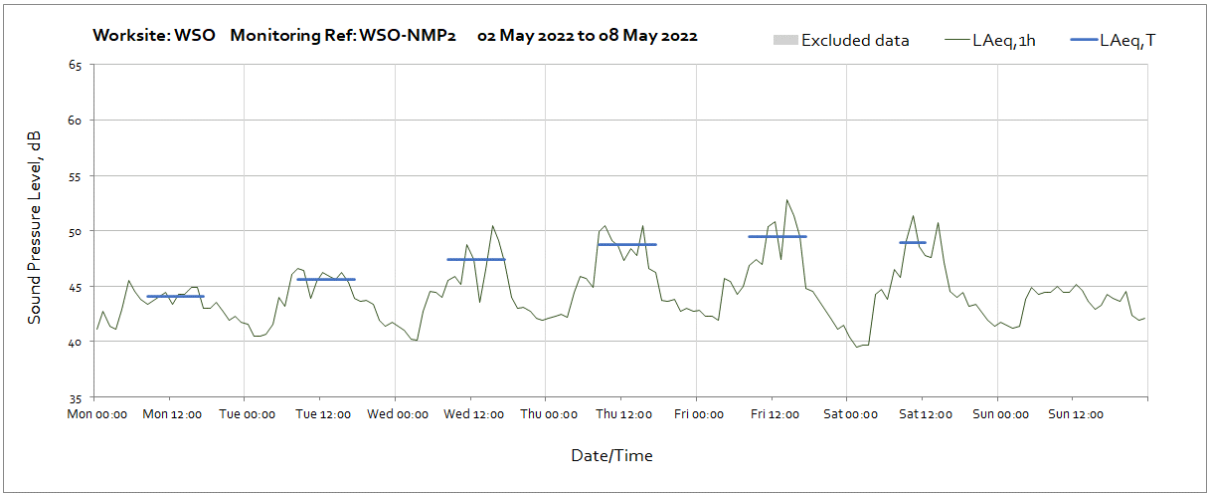
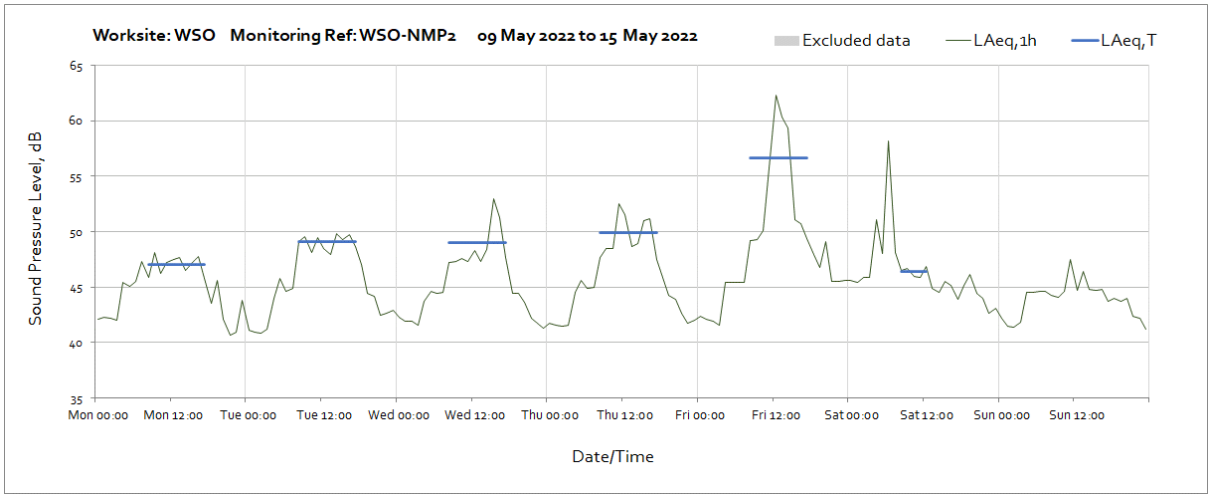
Date/Time



Worksite: WSO – Monitoring Ref: WSO-NMP2






Worksite: WSO Monitoring Ref: WSO-NMP2 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 12:00
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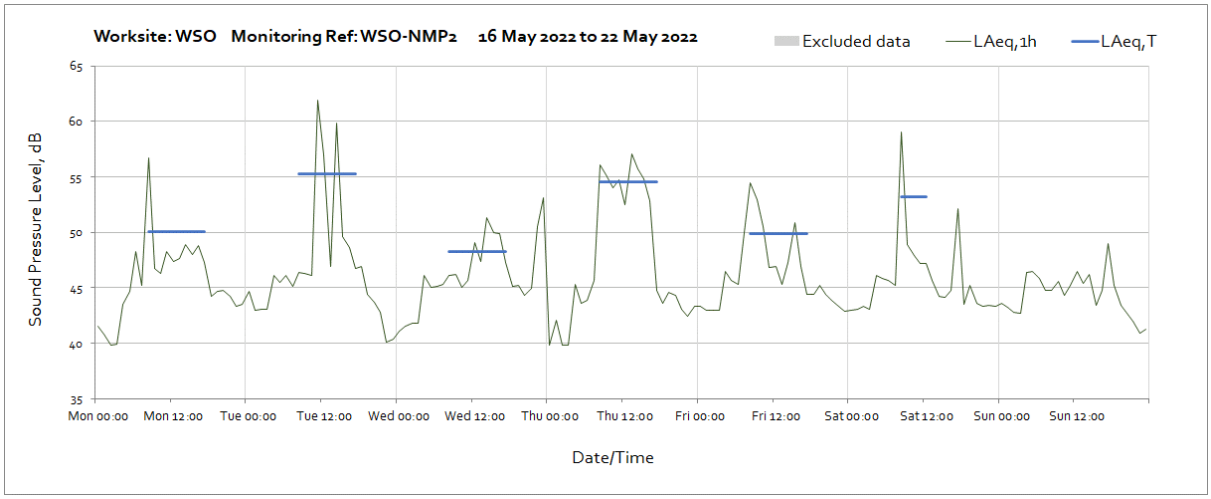
Date/Time


Worksite: WSO Monitoring Ref: WSO-NMP2 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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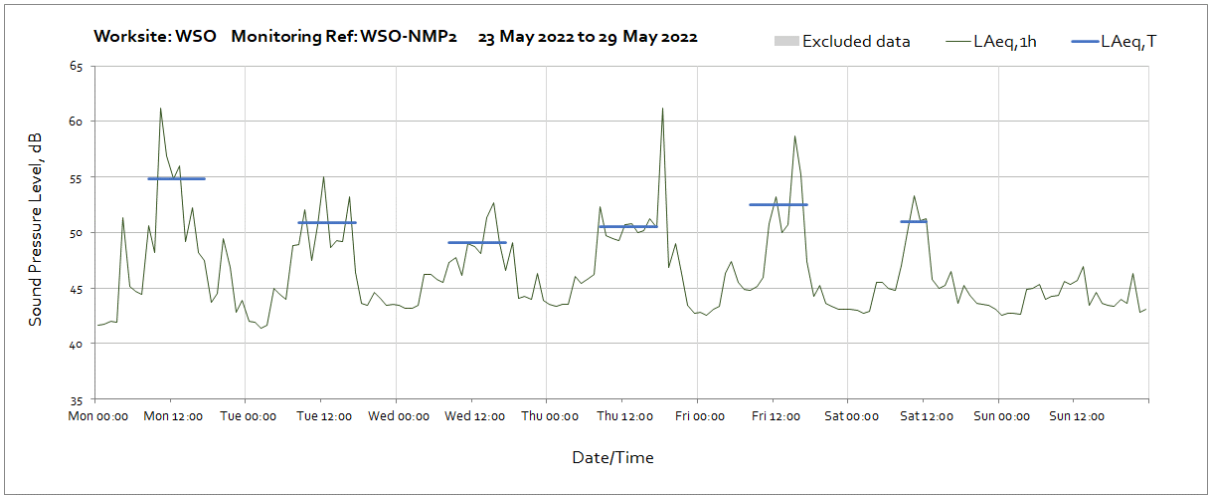
Date/Time


Worksite: WSO Monitoring Ref: WSO-NMP2 23 May 2022 to 29 May 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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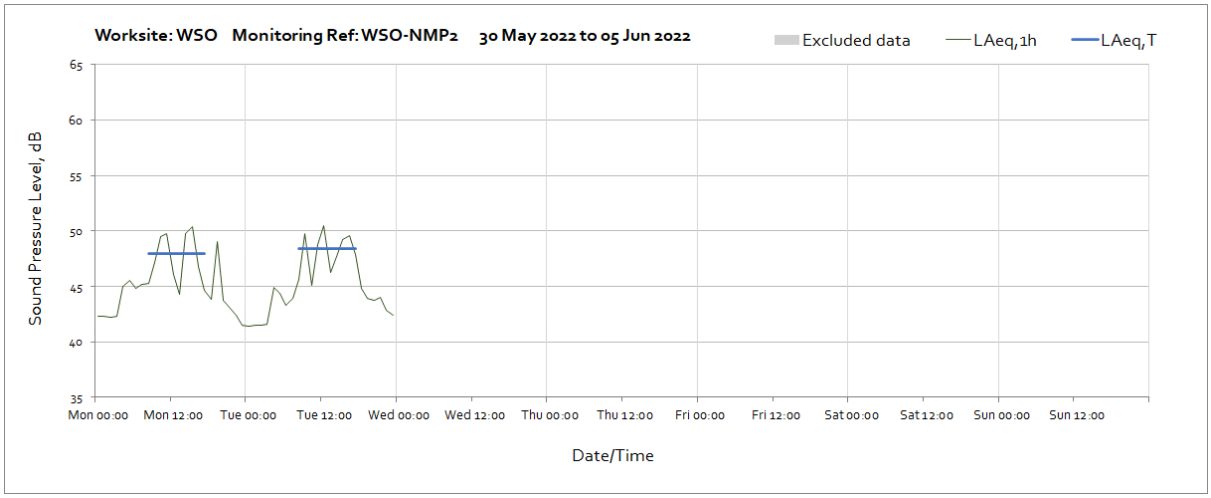
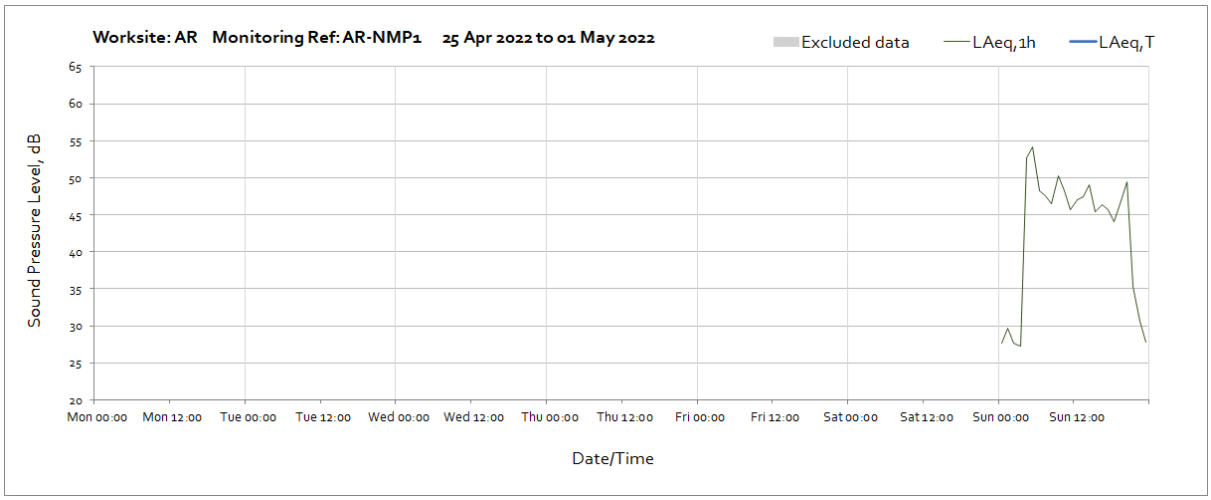
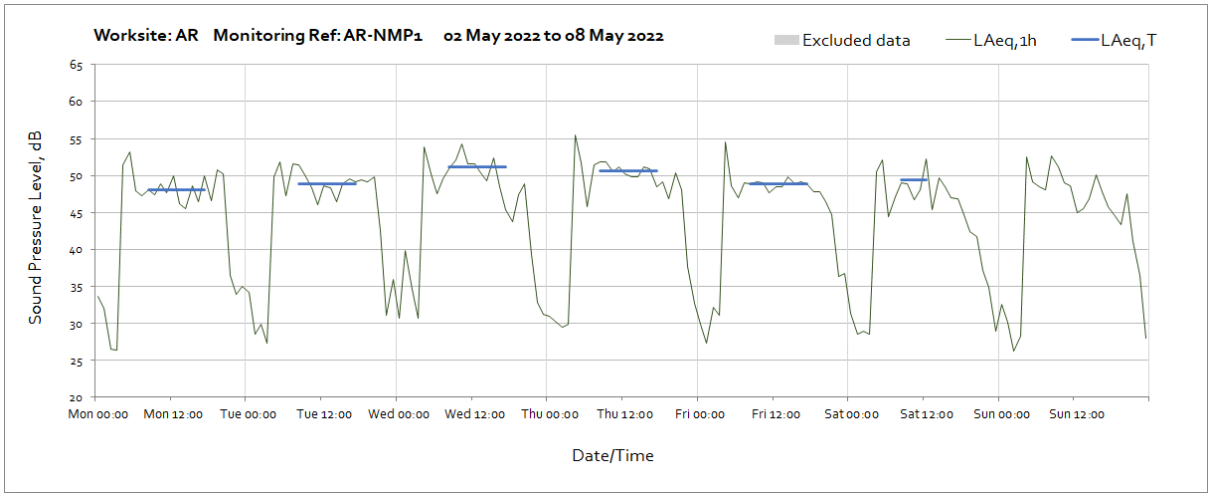
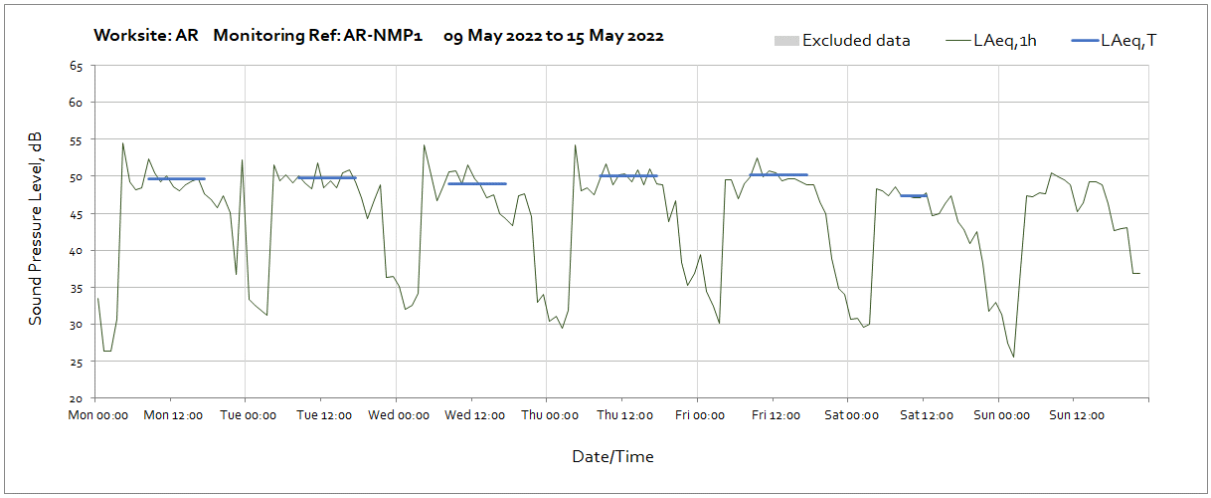
Date/Time



Worksite: AR – Monitoring Ref: AR-NMP1






Worksite: AR Monitoring Ref: AR-NMP1 09 May 2022 to 15 May 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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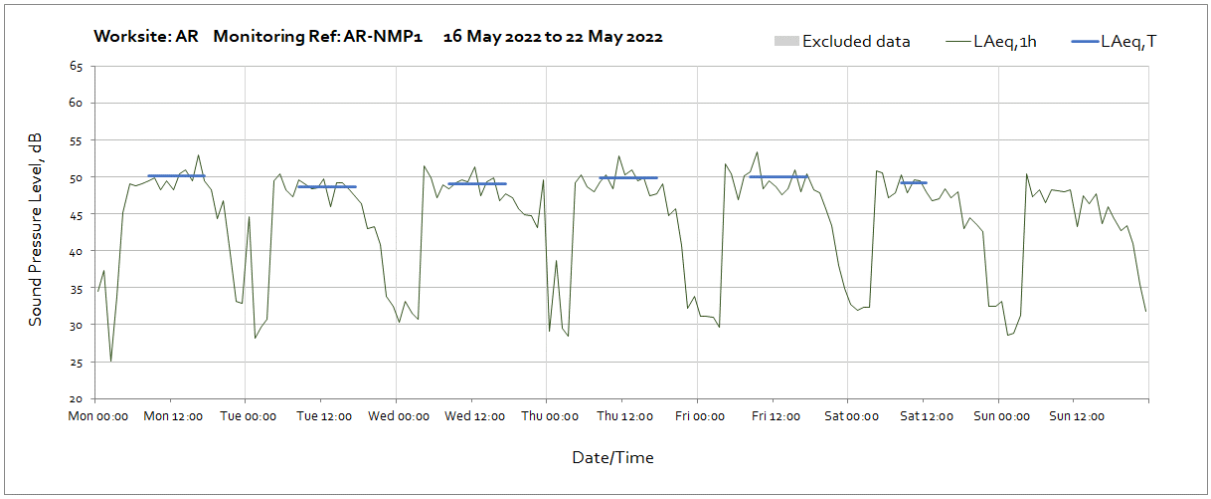
Date/Time


Worksite: AR Monitoring Ref: AR-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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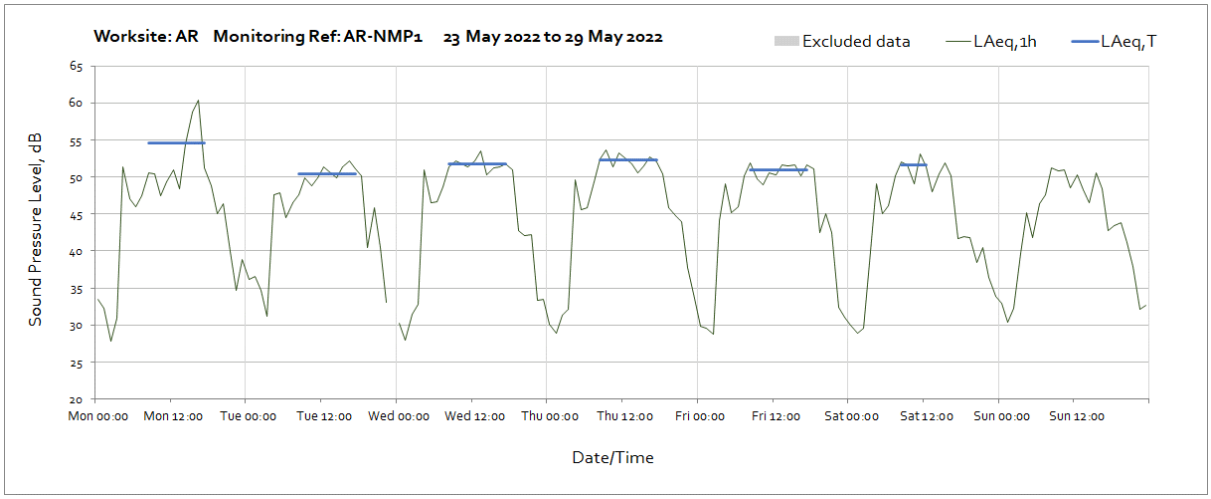
Date/Time


Worksite: AR Monitoring Ref: AR-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
65
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Mon 12:00
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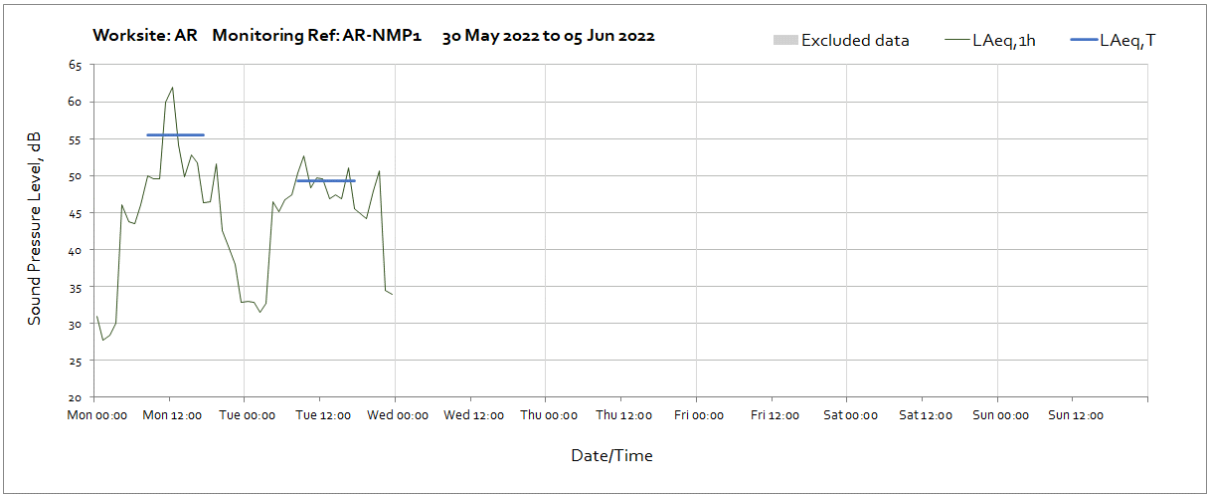
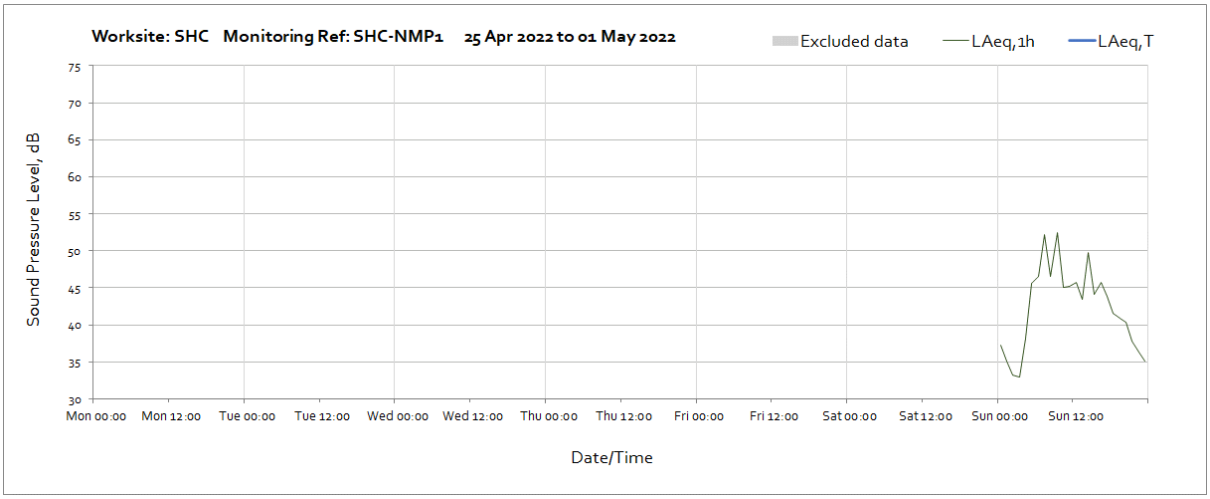
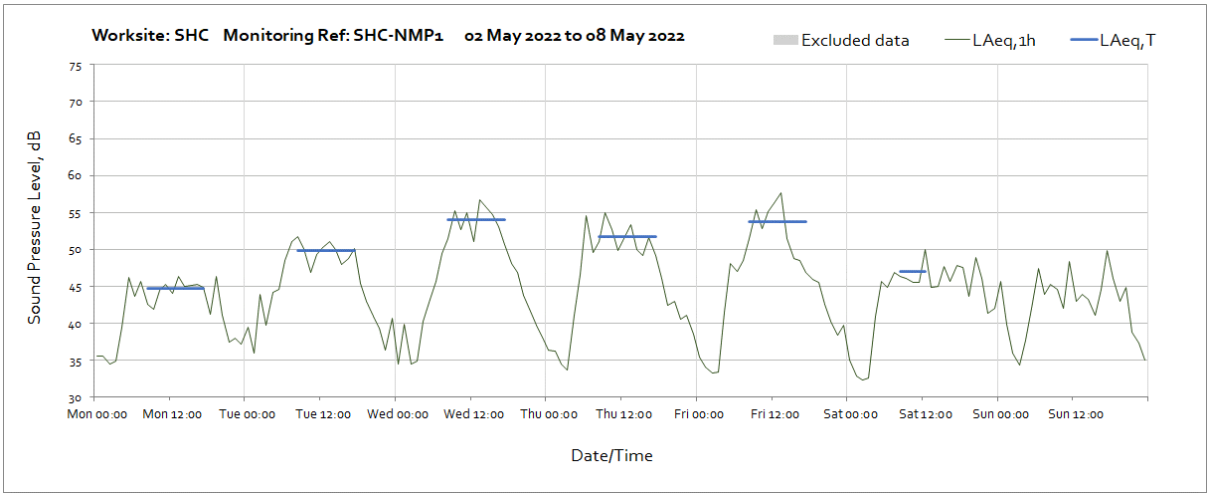
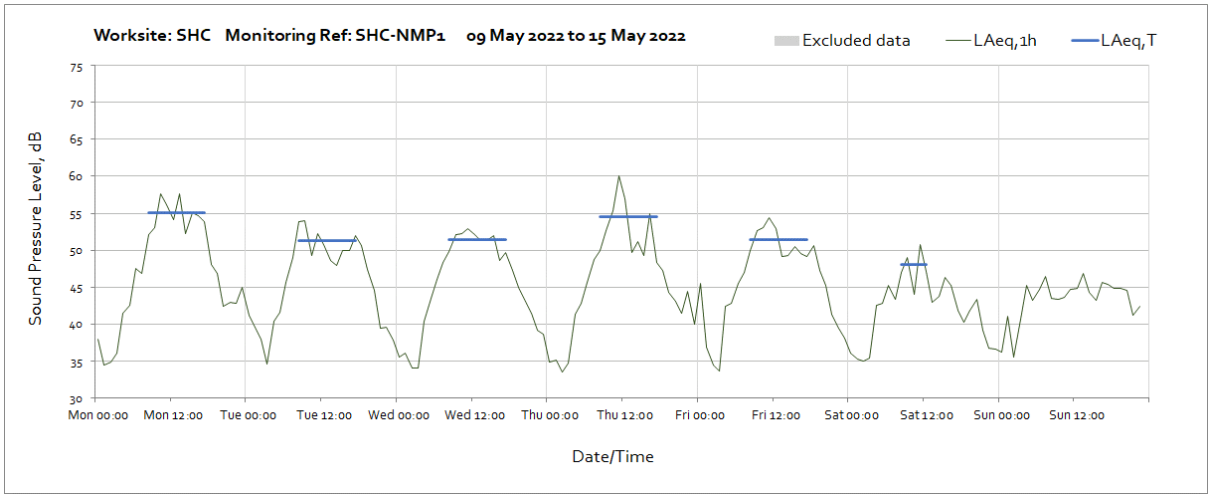
Date/Time



Worksite: SHC – Monitoring Ref: SHC-NMP1






Worksite: SHC Monitoring Ref: SHC-NMP1 09 May 2022 to 15 May 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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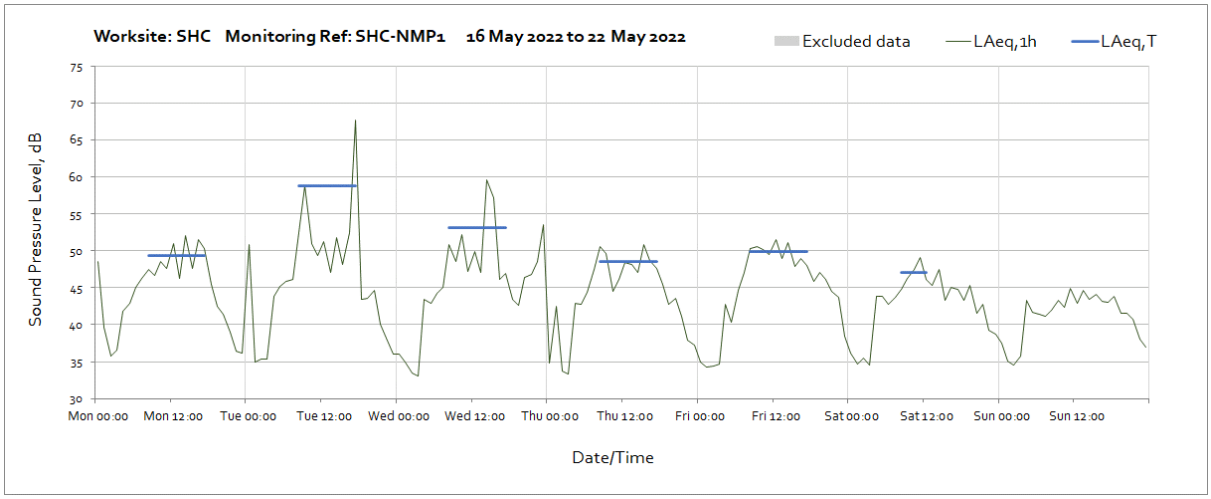
Date/Time


Worksite: SHC Monitoring Ref: SHC-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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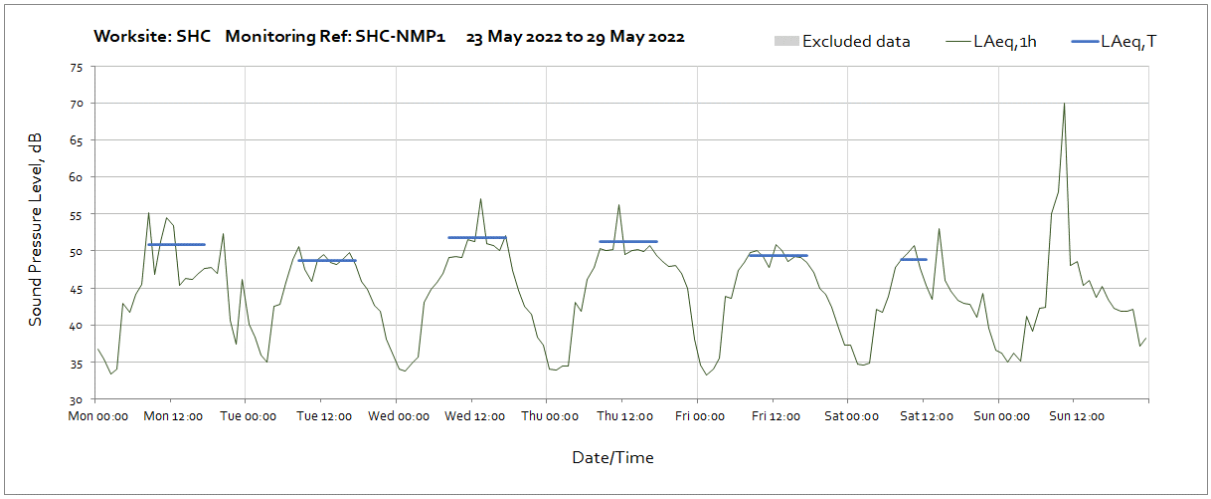
Date/Time


Worksite: SHC Monitoring Ref: SHC-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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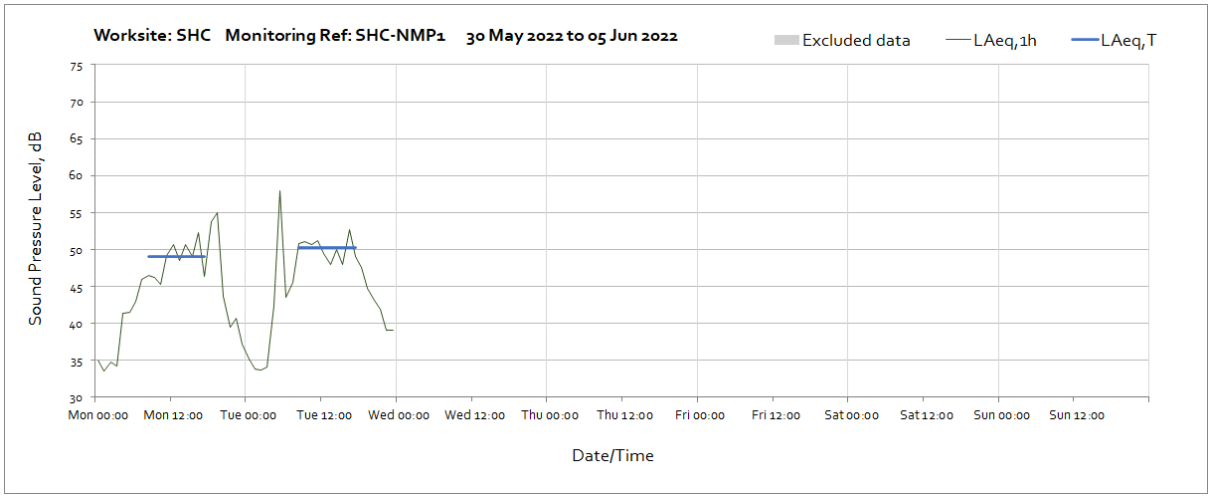
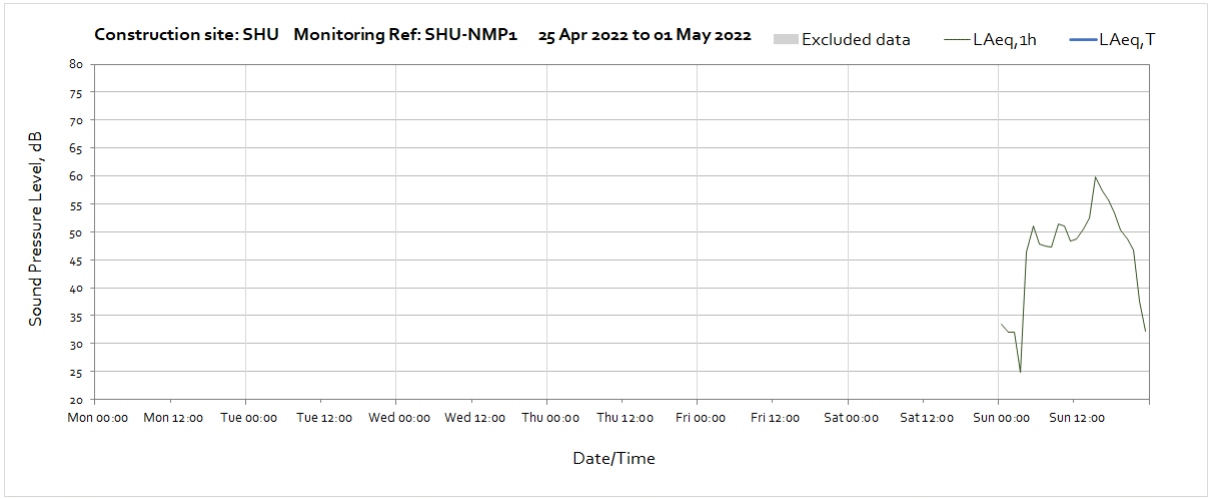
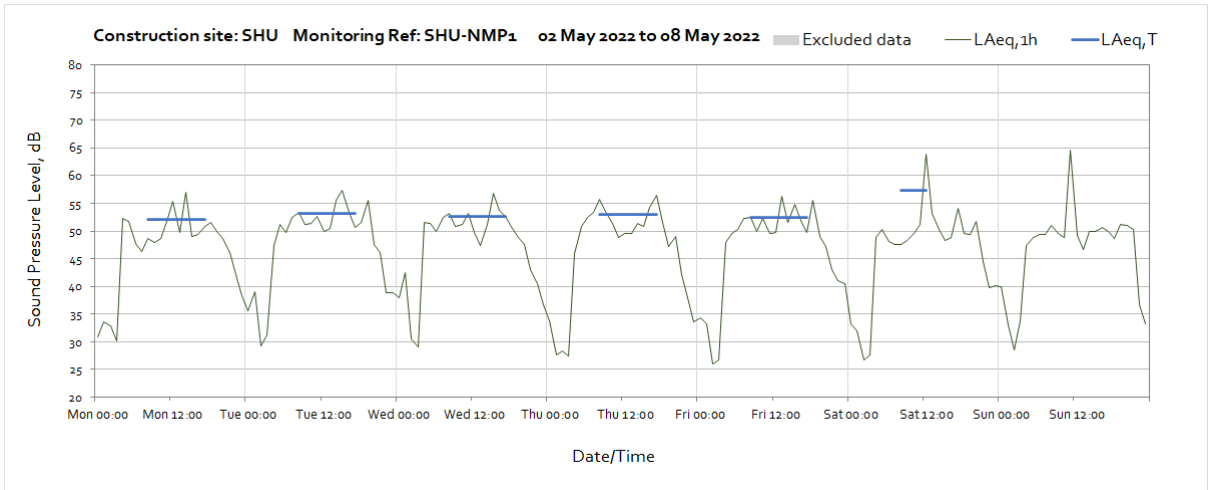
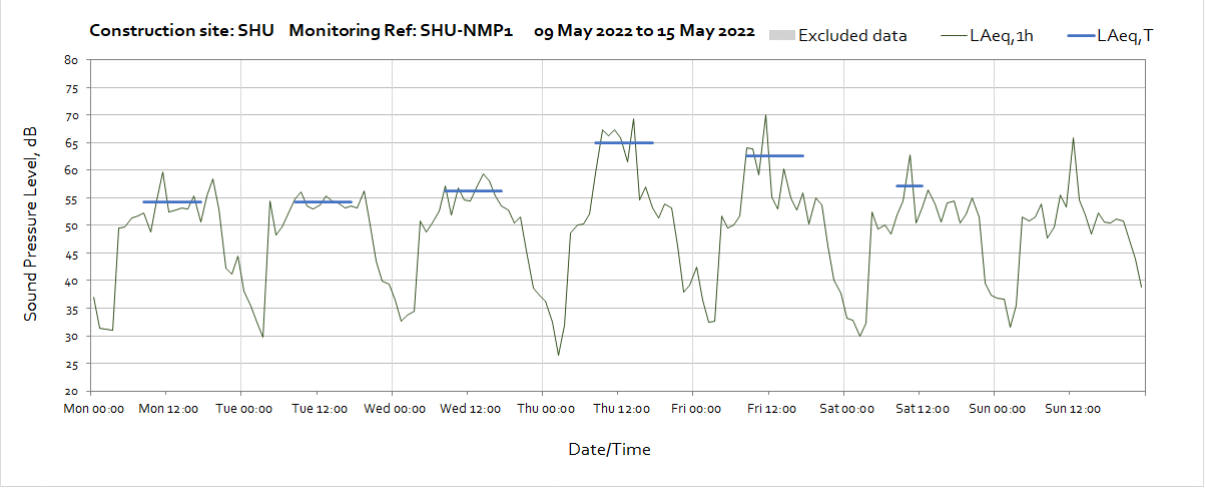
Date/Time



Worksite: SHU – Monitoring Ref: SHU-NMP1






Construction site: SHU Monitoring Ref: SHU-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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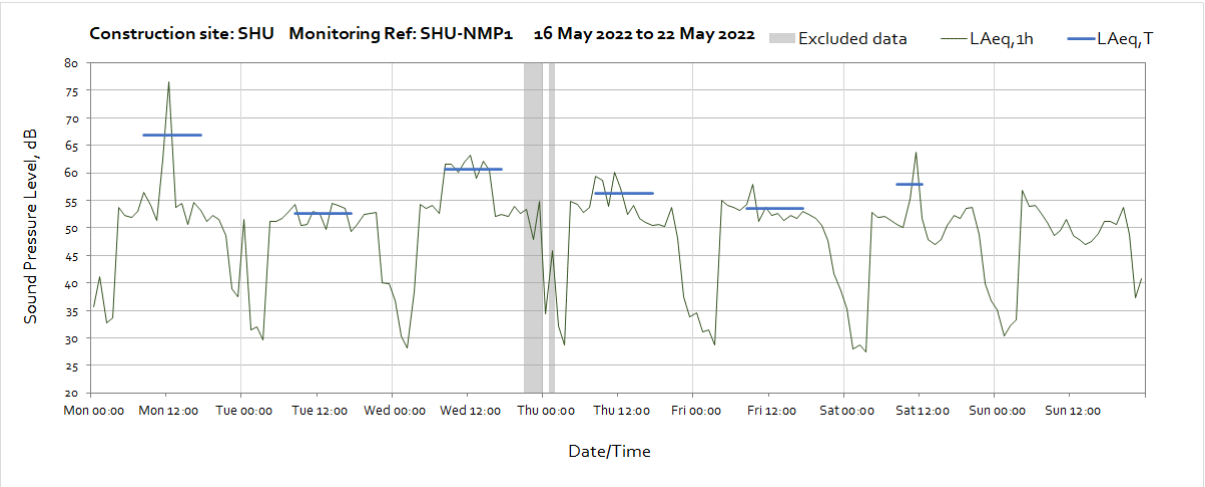
Date/Time


Construction site: SHU Monitoring Ref: SHU-NMP1 16 May 2022 to 22 May 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
80
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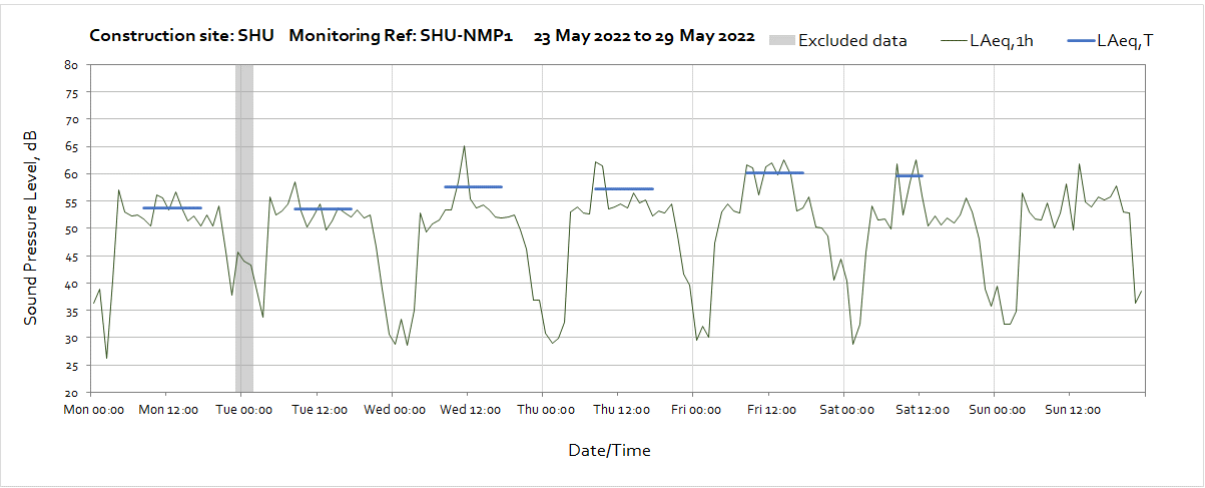
Date/Time


Construction site: SHU Monitoring Ref: SHU-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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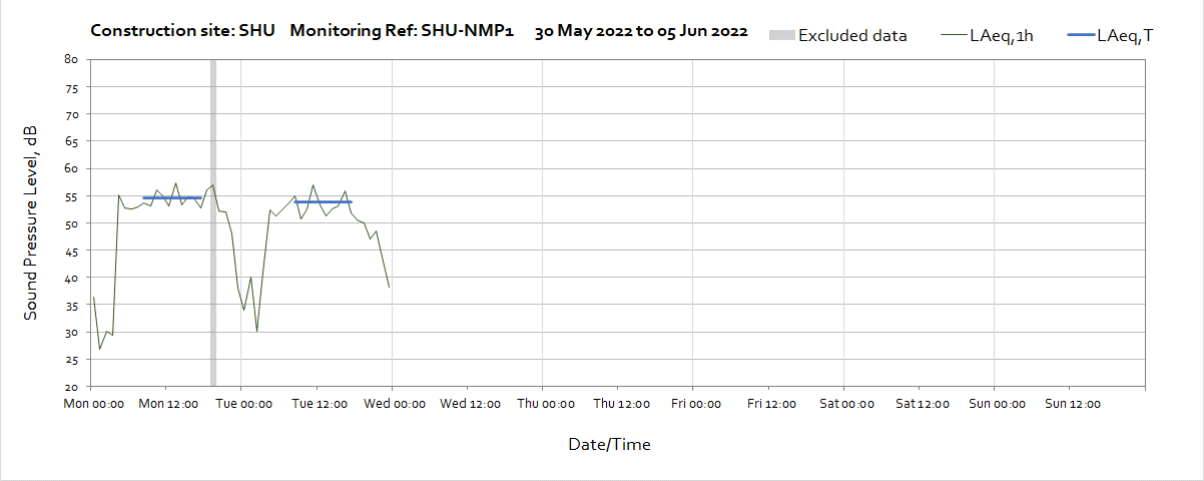
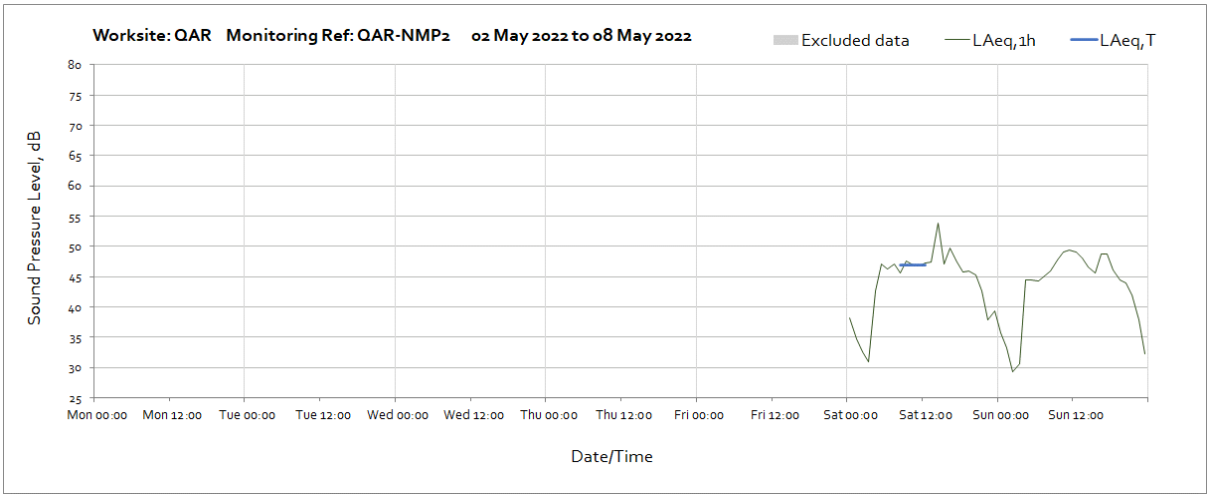
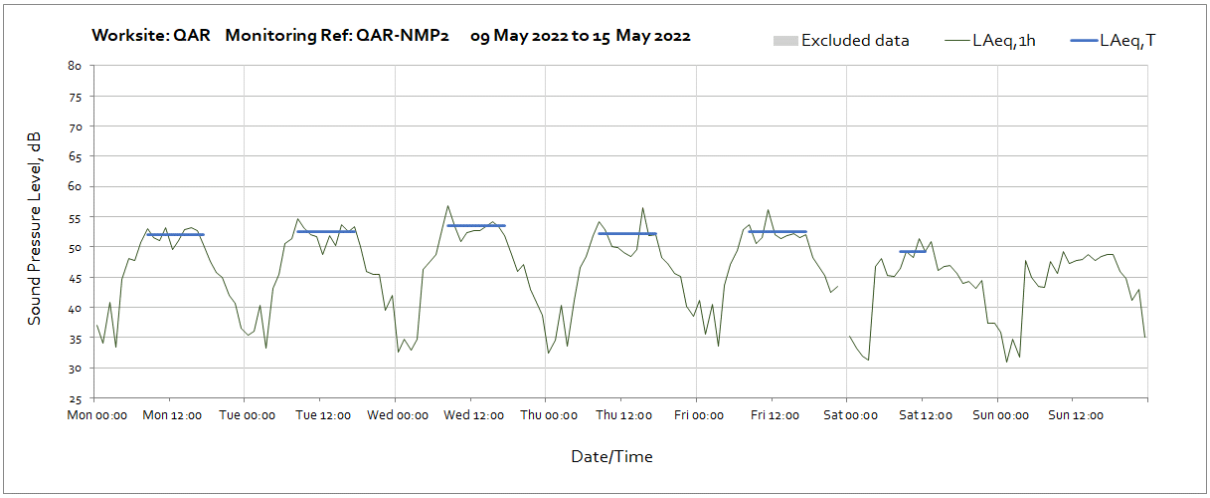
Date/Time

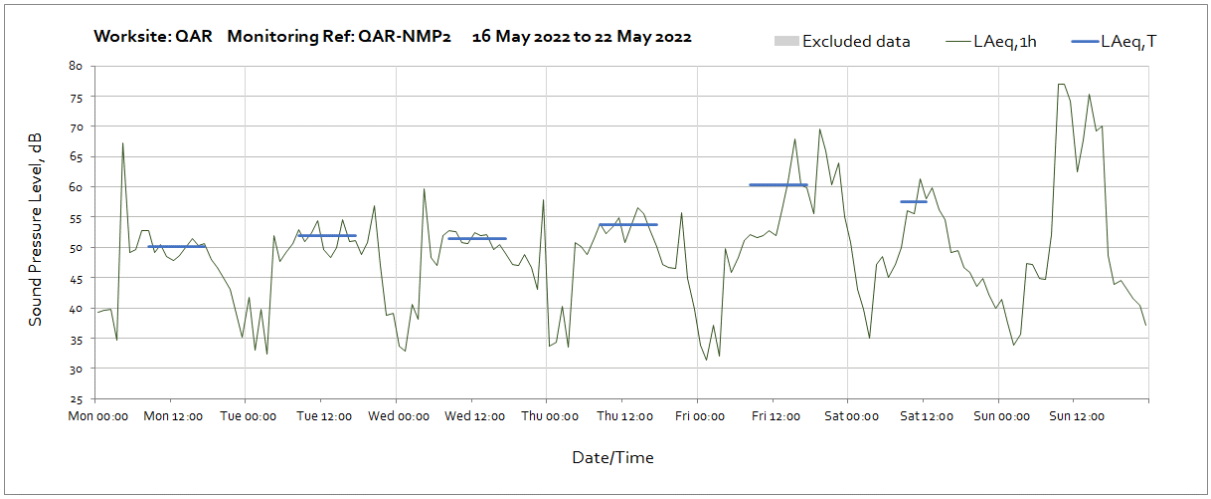


Worksite: QAR – Monitoring Ref: QAR-NMP2



Note: Missing data between Sunday 1st May and Saturday 7th May were due to monitor's system issues. A temporary monitor has been installed on Saturday 7th May.




Worksite: QAR Monitoring Ref: QAR-NMP2 16 May 2022 to 22 May 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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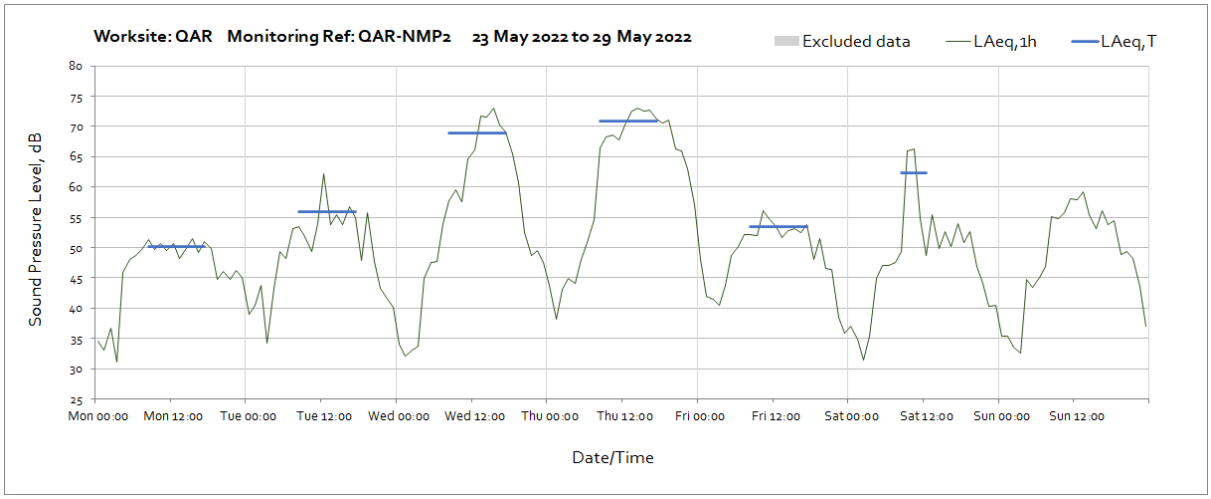
Date/Time


Worksite: QAR Monitoring Ref: QAR-NMP2 23 May 2022 to 29 May 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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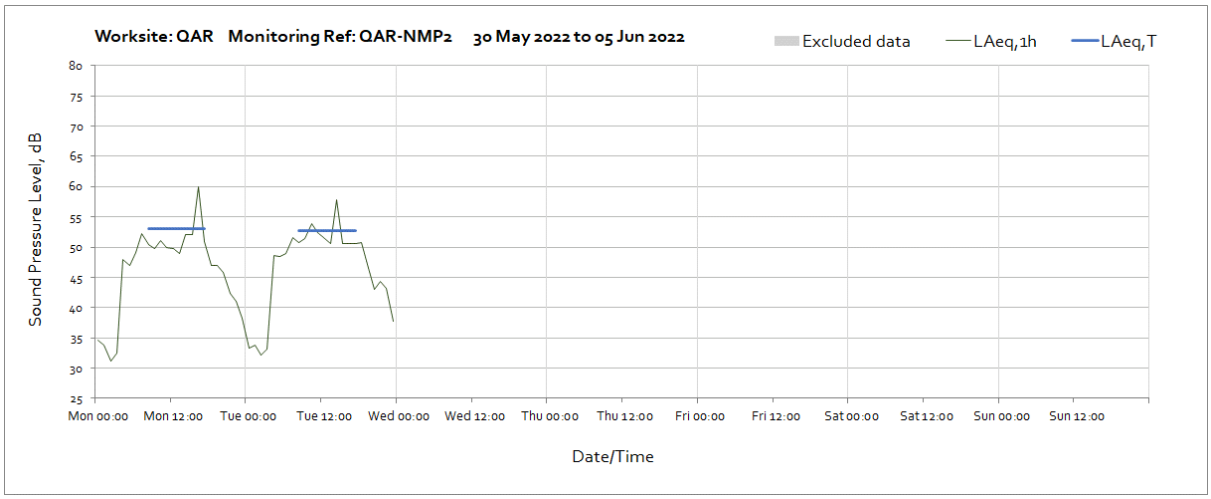
Date/Time


Worksite: QAR Monitoring Ref: QAR-NMP2 30 May 2022 to 05 Jun 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
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Mon 00:00
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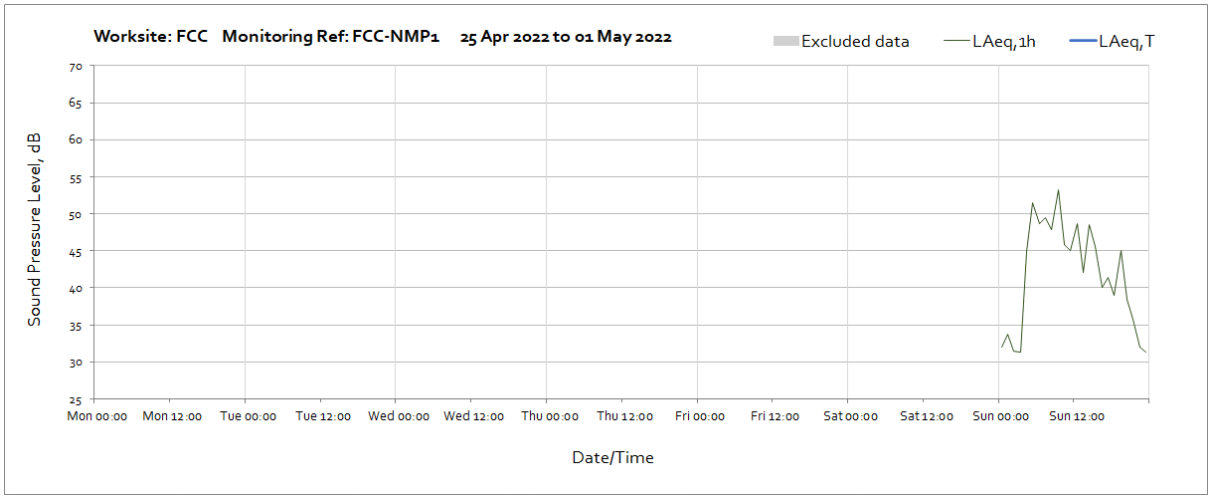
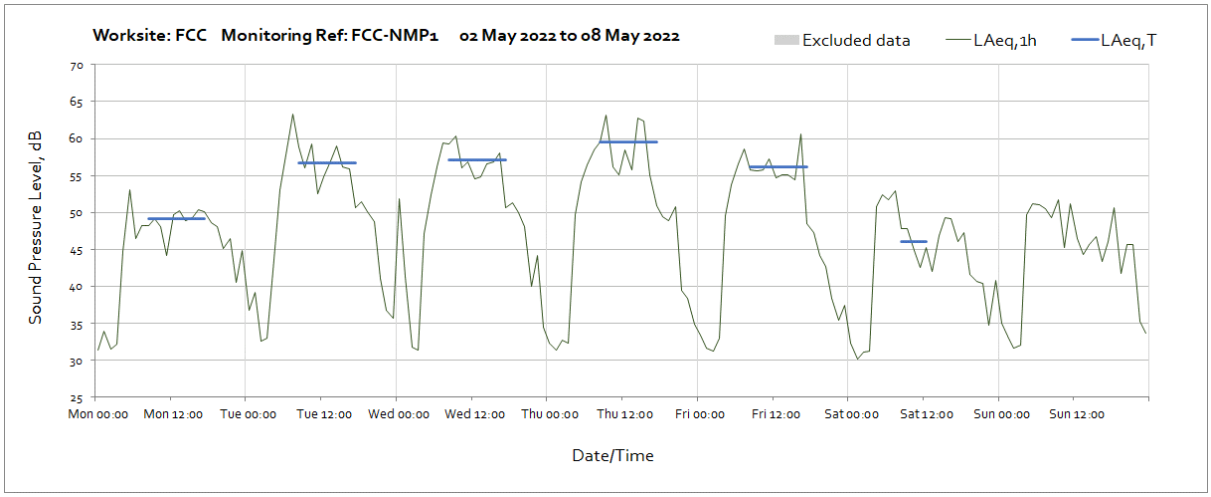
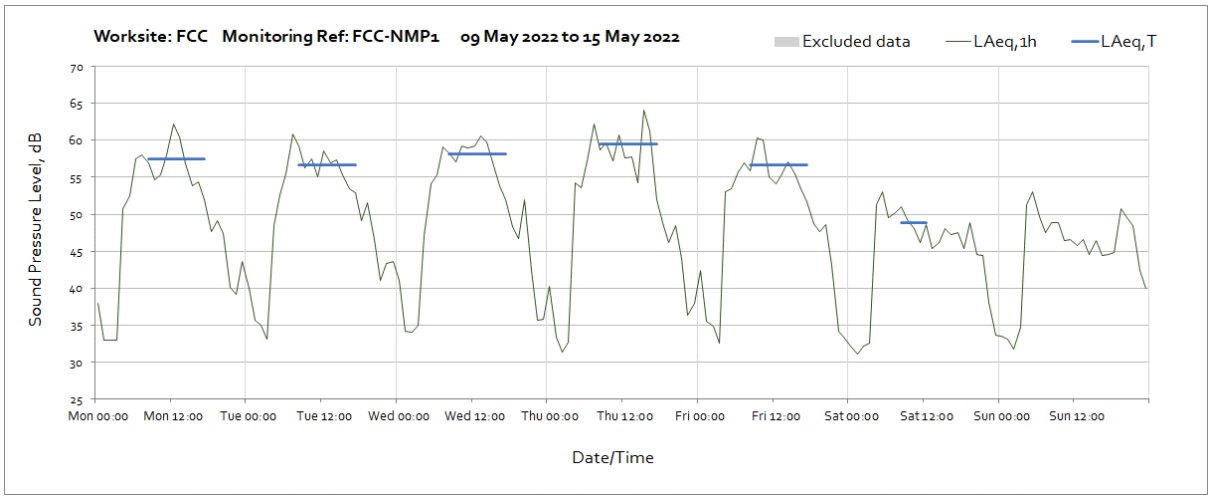
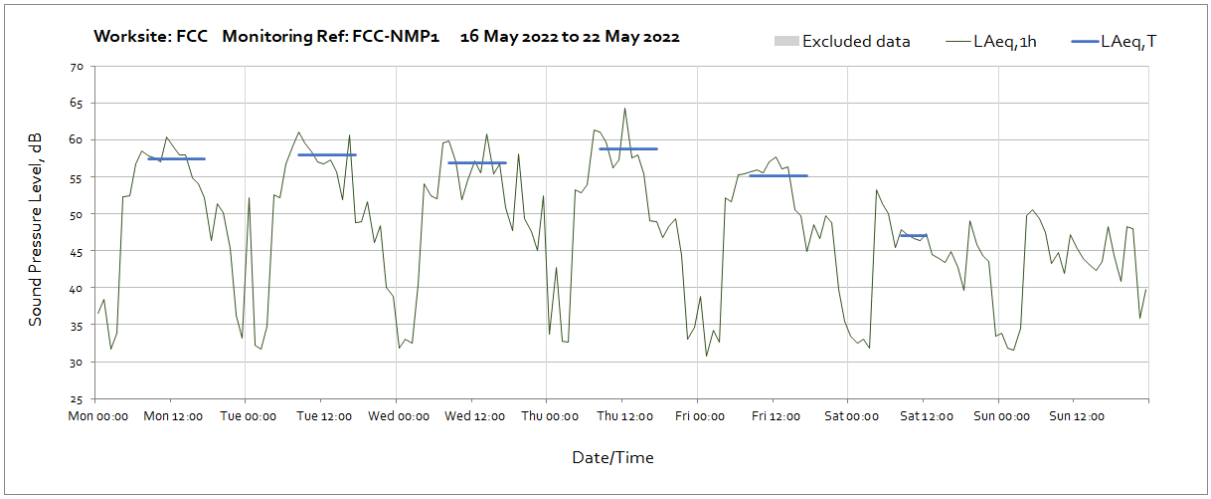
Date/Time

Worksite: FCC – Monitoring Ref: FCC-NMP1








Worksite: FCC Monitoring Ref: FCC-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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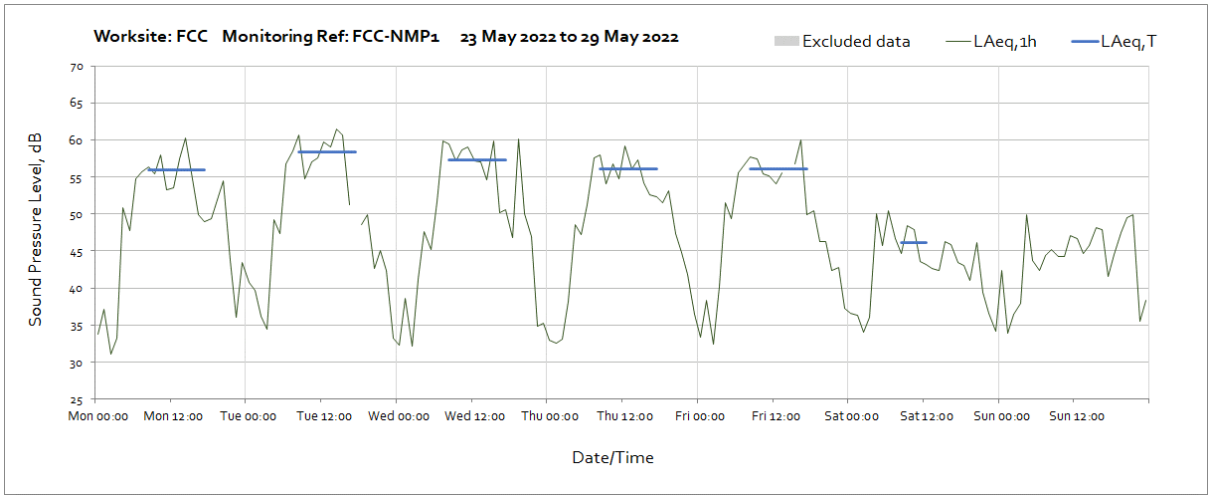
Date/Time


Worksite: FCC Monitoring Ref: FCC-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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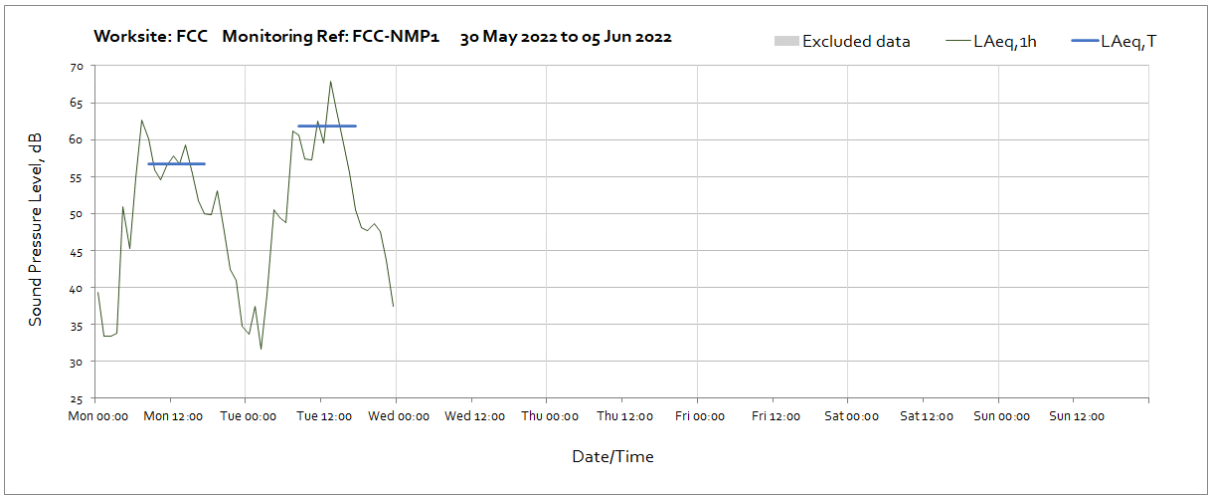
Date/Time


Worksite: FCC Monitoring Ref: FCC-NMP1 30 May 2022 to 05 Jun 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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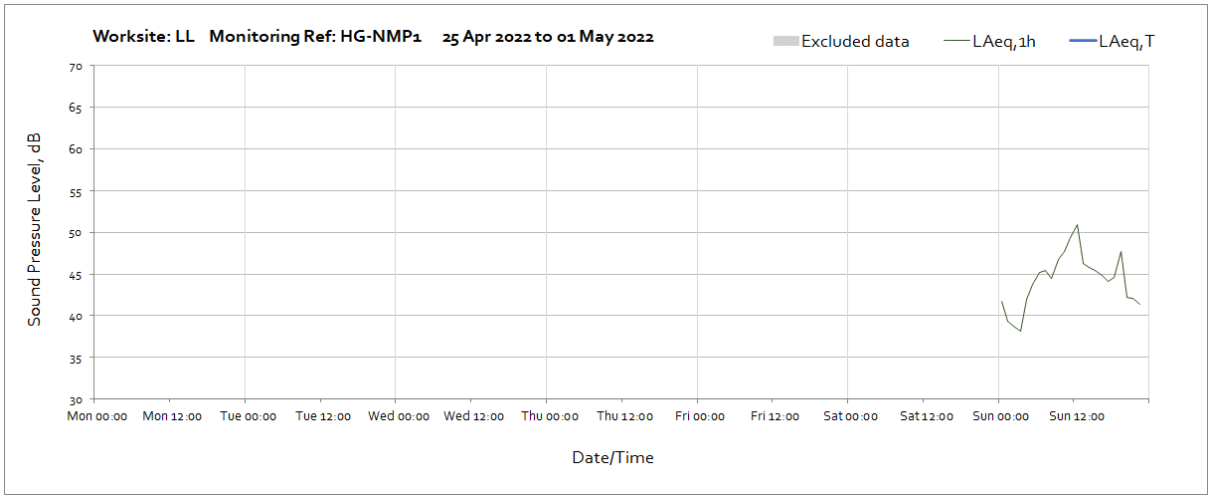
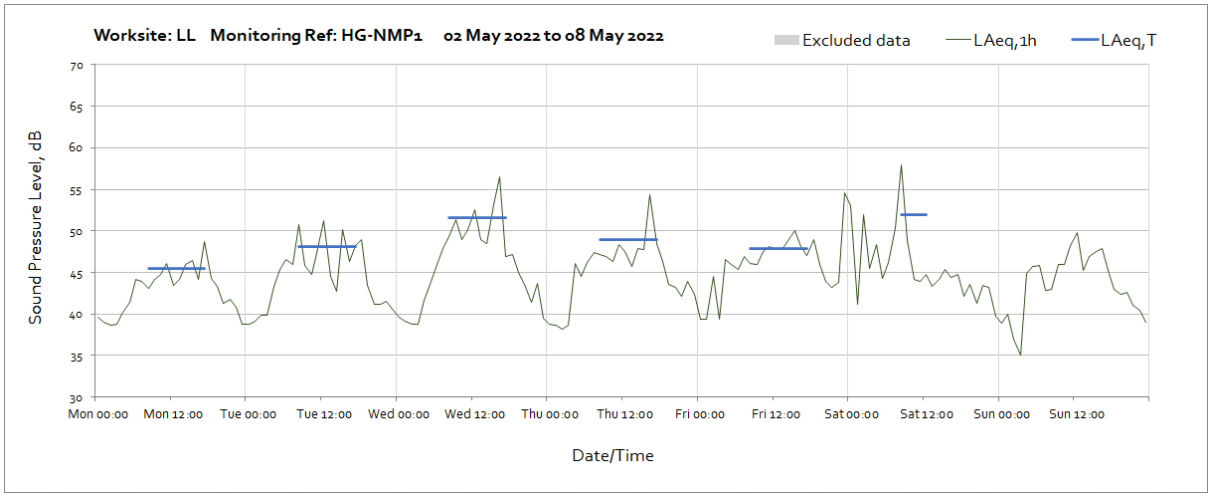
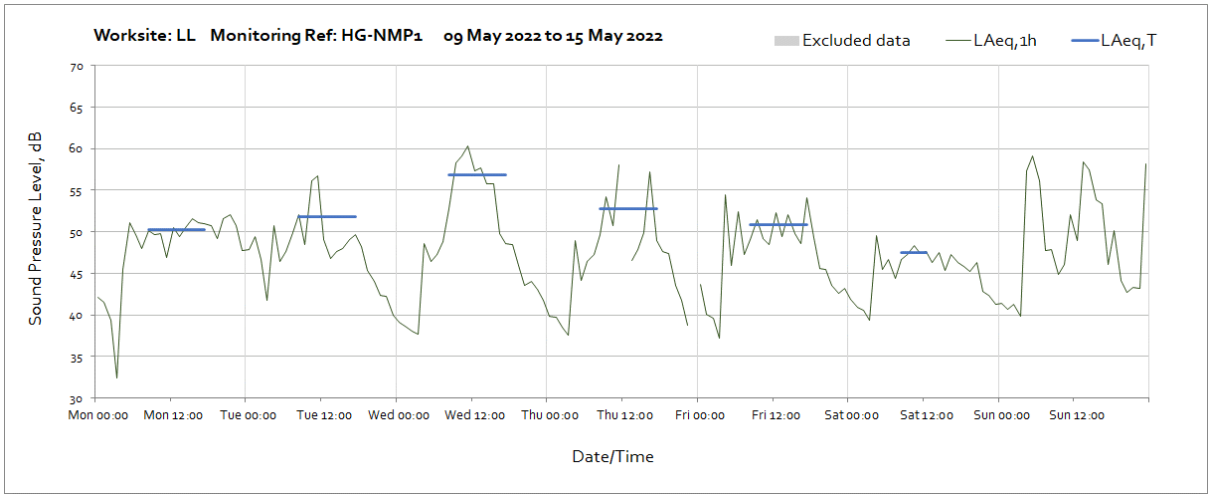
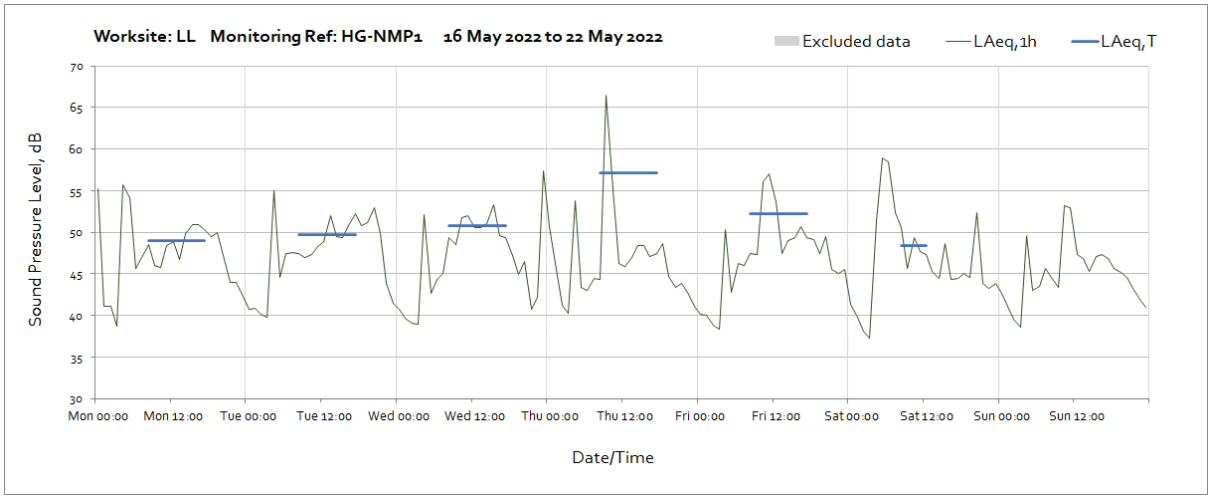
Date/Time

Worksite: LL – Monitoring Ref: HG-NMP1








Worksite: LL Monitoring Ref: HG-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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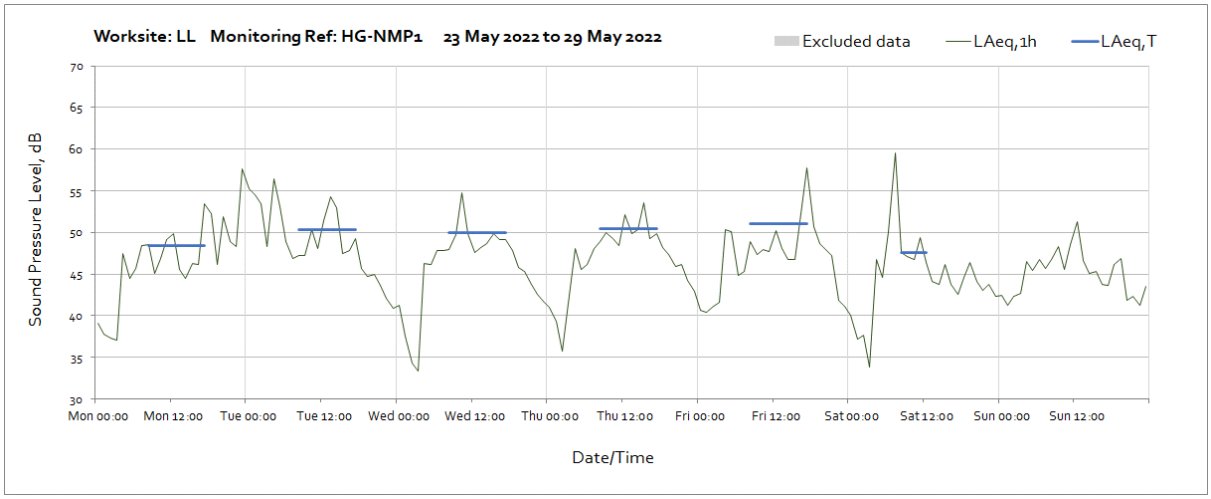
Date/Time


Worksite: LL Monitoring Ref: HG-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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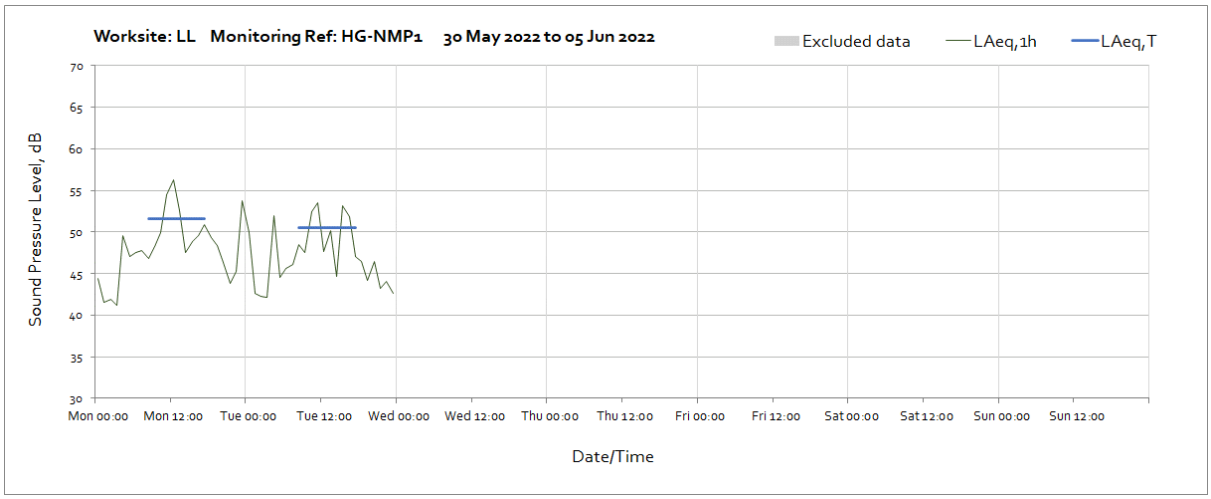
Date/Time


Worksite: LL Monitoring Ref: HG-NMP1 30 May 2022 to 05 Jun 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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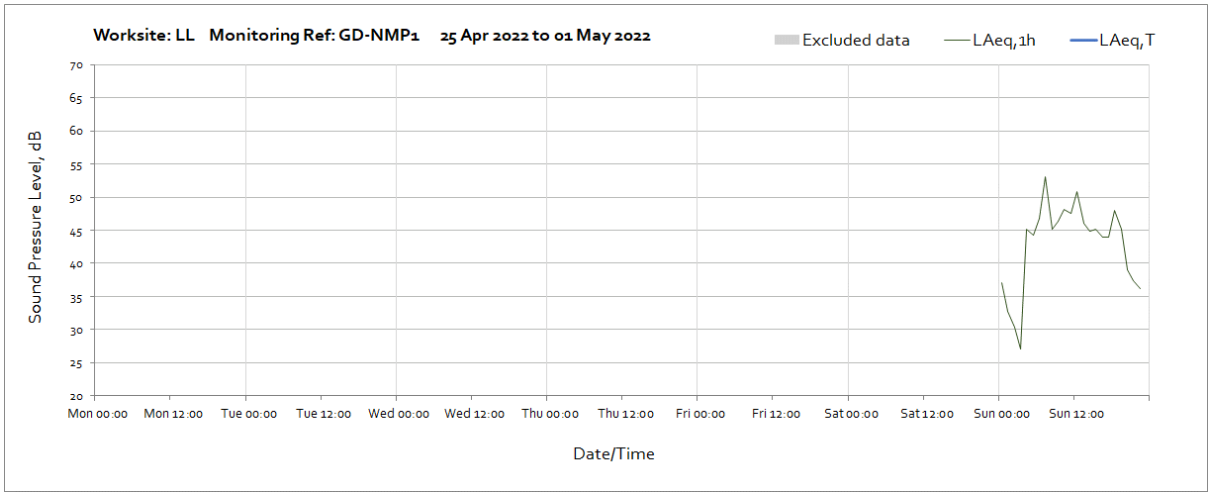
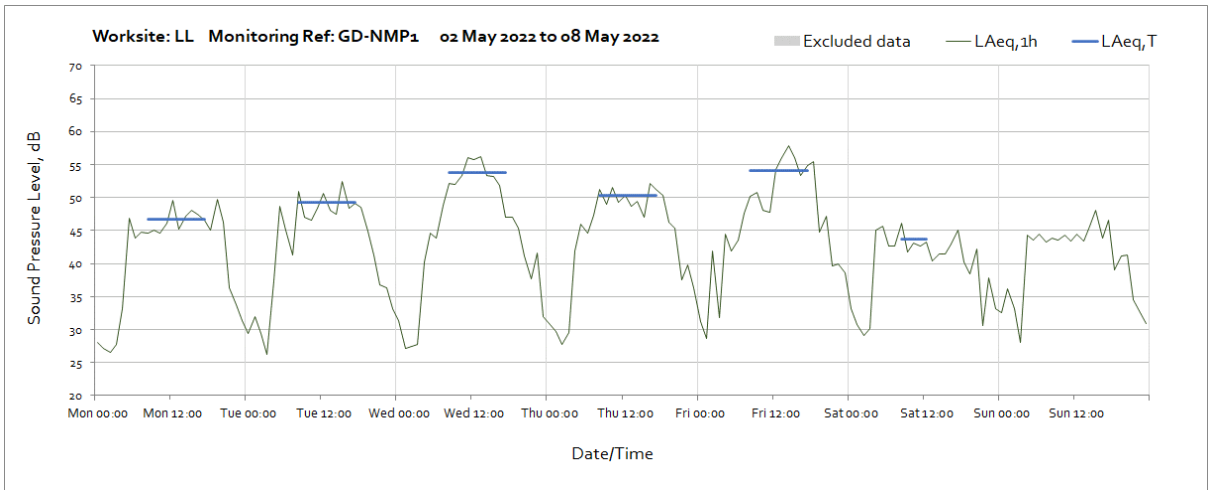
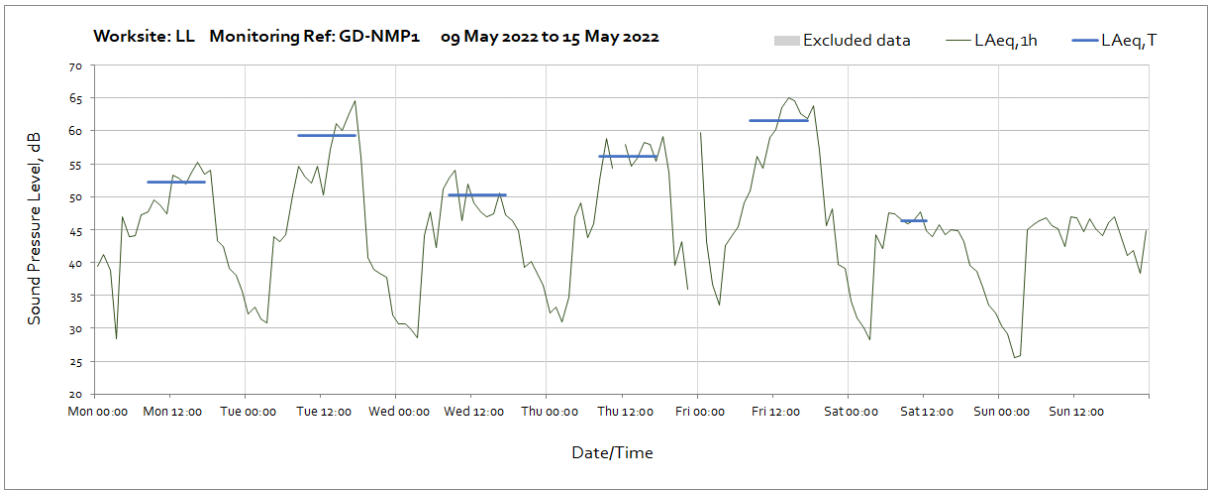
Date/Time

Worksite: LL – Monitoring Ref: GD-NMP1

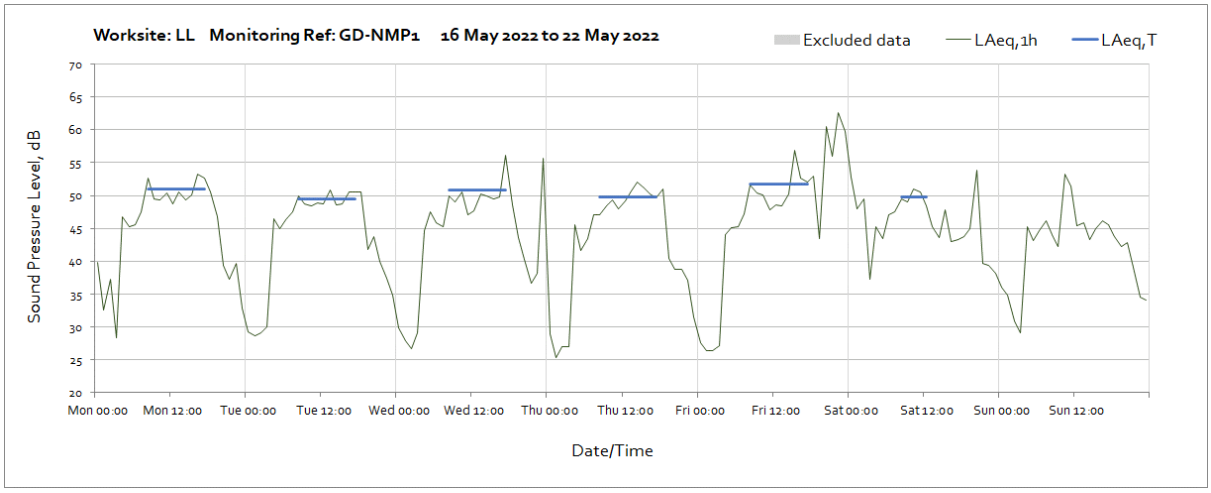


Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.





Note: Missing data at 11:00 on Thursday 12th May were due to maintenance of the monitoring station.


Worksite: LL Monitoring Ref: GD-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
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Sound Pressure Level, dB
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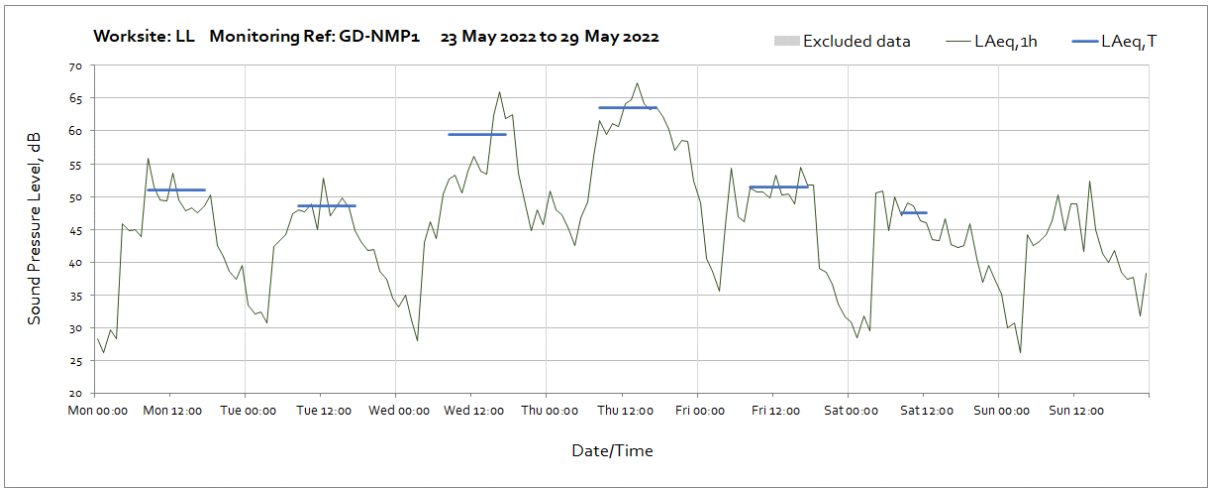
Date/Time


Worksite: LL Monitoring Ref: GD-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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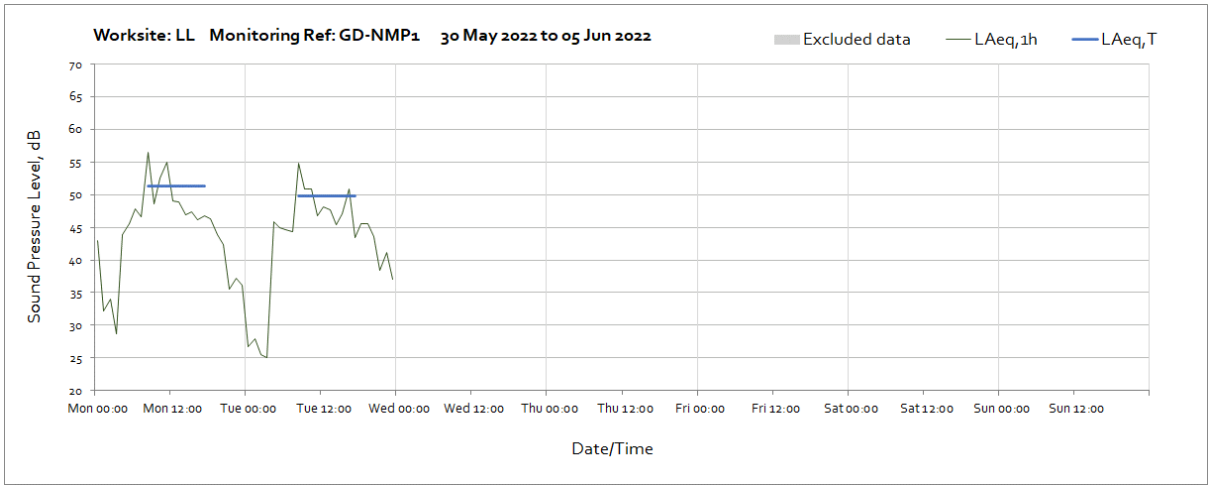
Date/Time


Worksite: LL Monitoring Ref: GD-NMP1 30 May 2022 to 05 Jun 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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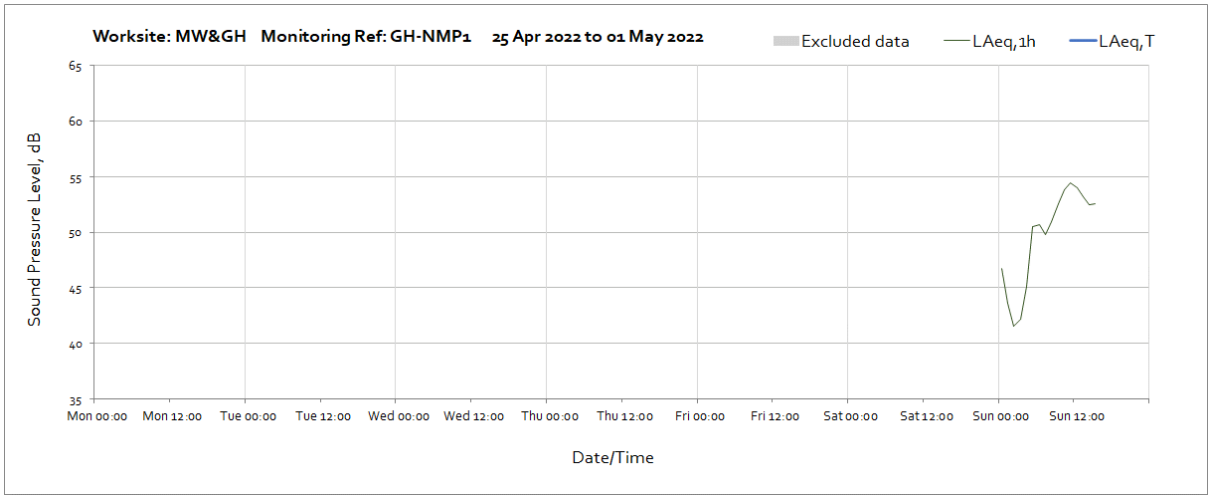
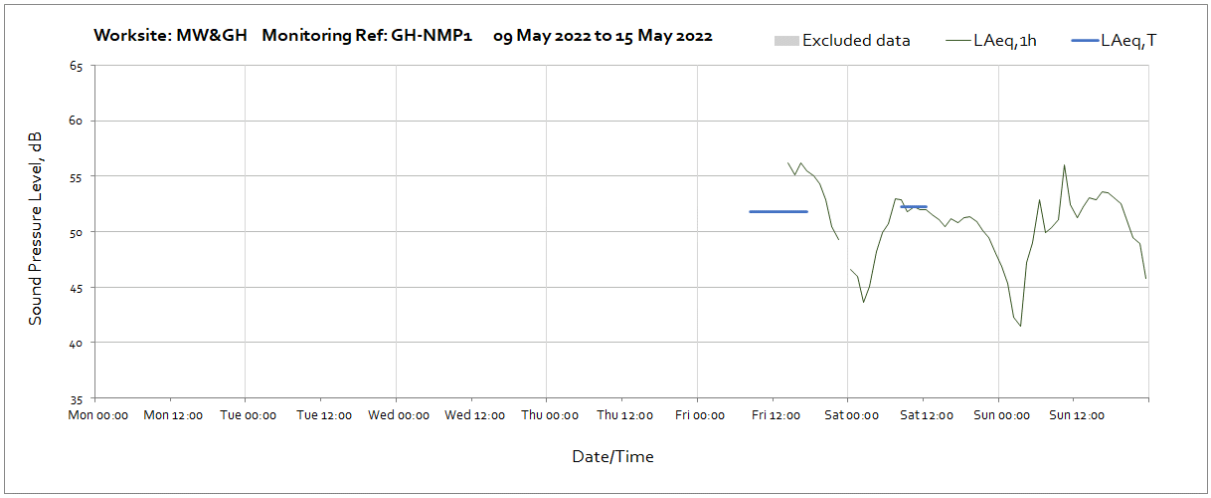
Date/Time

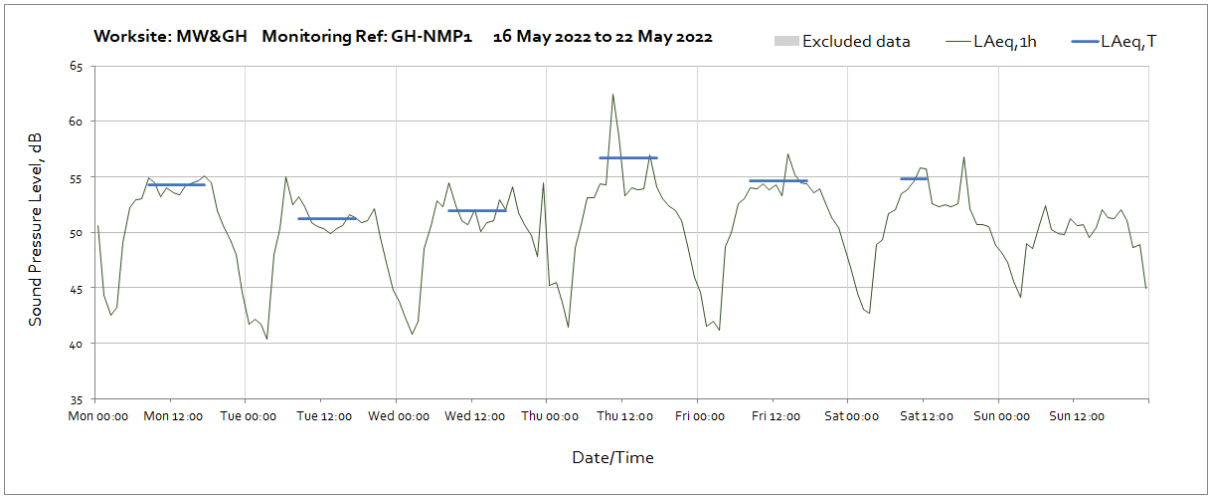
Worksite: MW&GH – Monitoring Ref: GH-NMP1

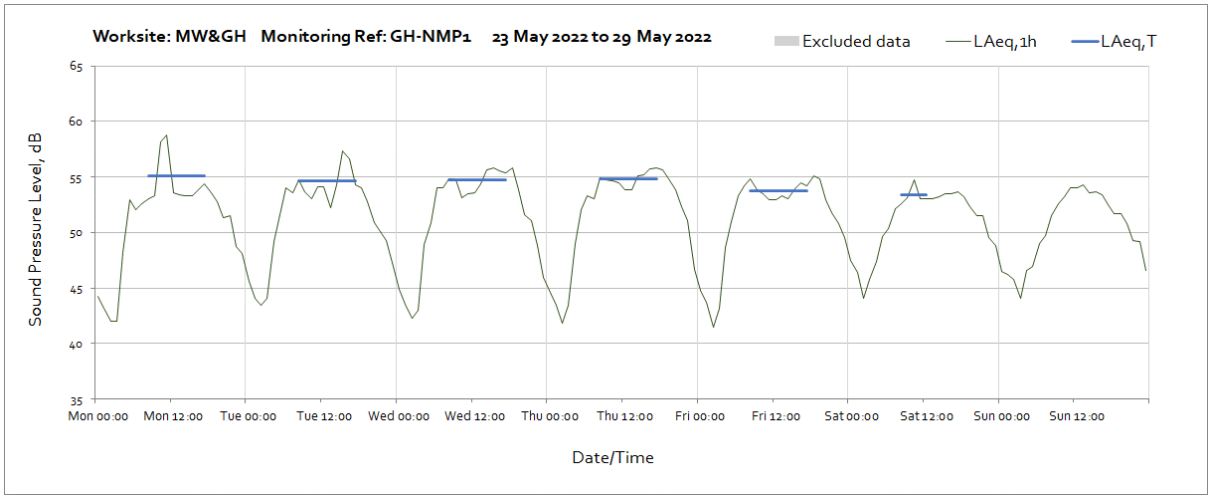


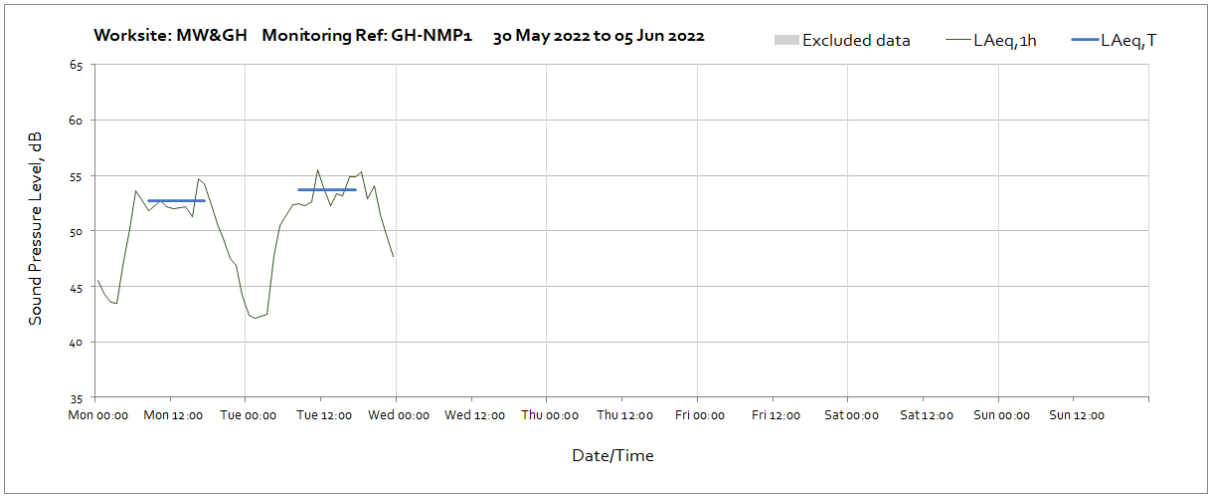
Note: Missing data from 16:00 on Sunday 1st May to 14:00 on Friday 13th May were due to solar controller issues and loss of power and at the monitoring station.



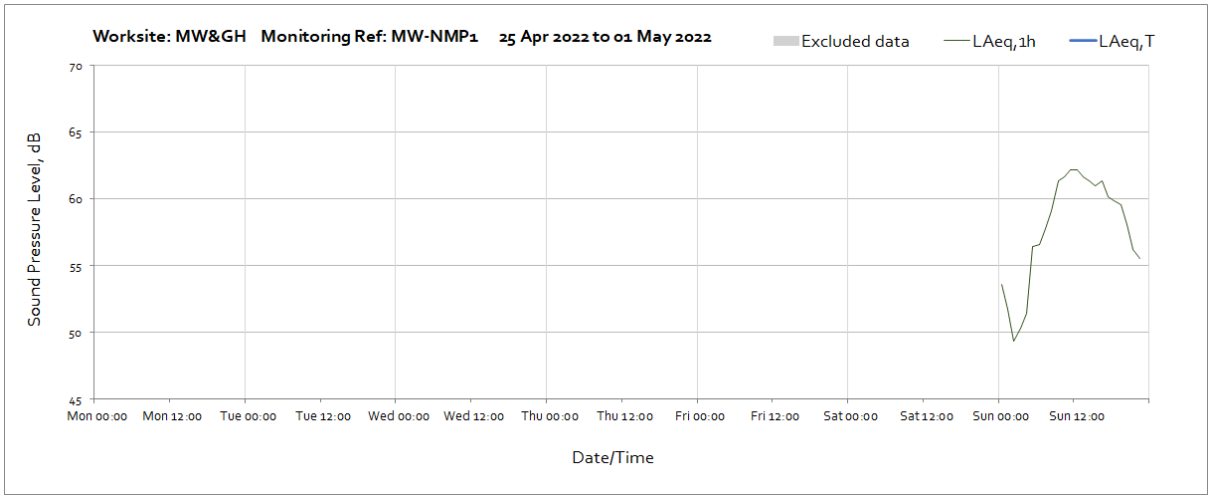
Note: Missing data from 16:00 on Sunday 1st May to 14:00 on Friday 13th May were due to solar controller issues and loss of power and at the monitoring station.



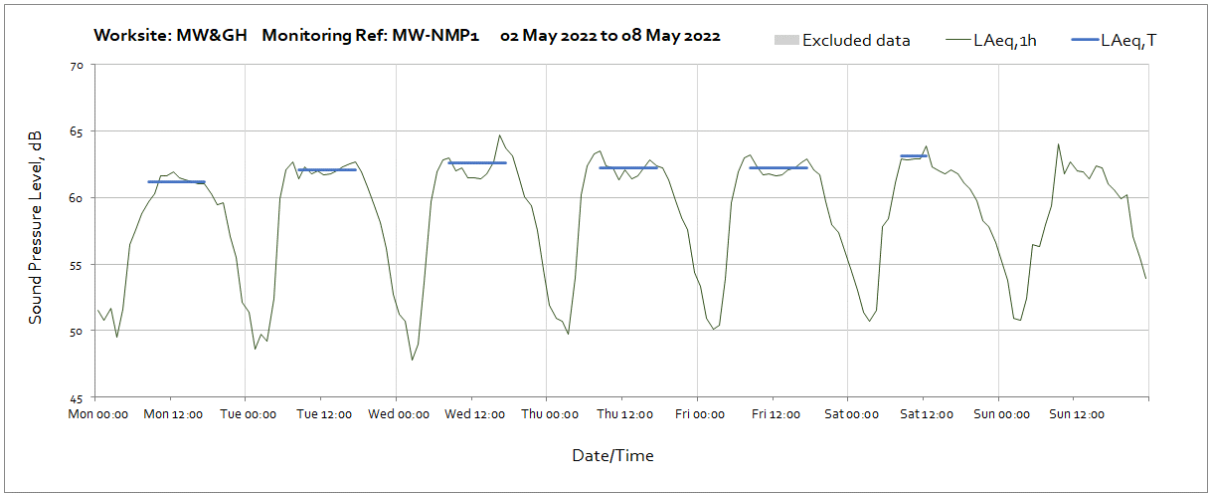




Worksite: MW&GH – Monitoring Ref: MW-NMP1



Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.


Worksite: MW&GH Monitoring Ref: MW-NMP1 02 May 2022 to 08 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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Mon 00:00
Mon 12:00
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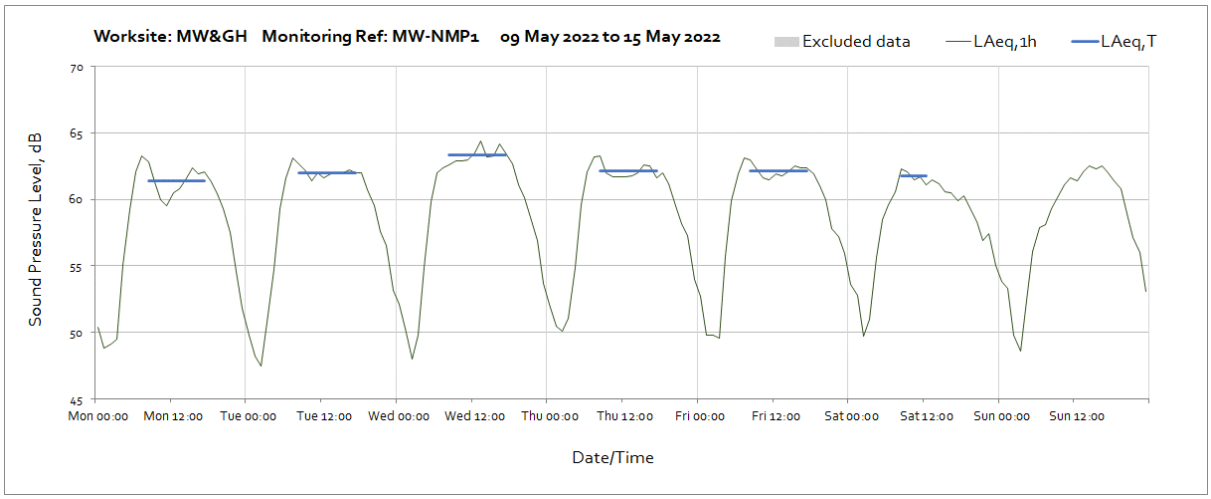
Date/Time


Worksite: MW&GH Monitoring Ref: MW-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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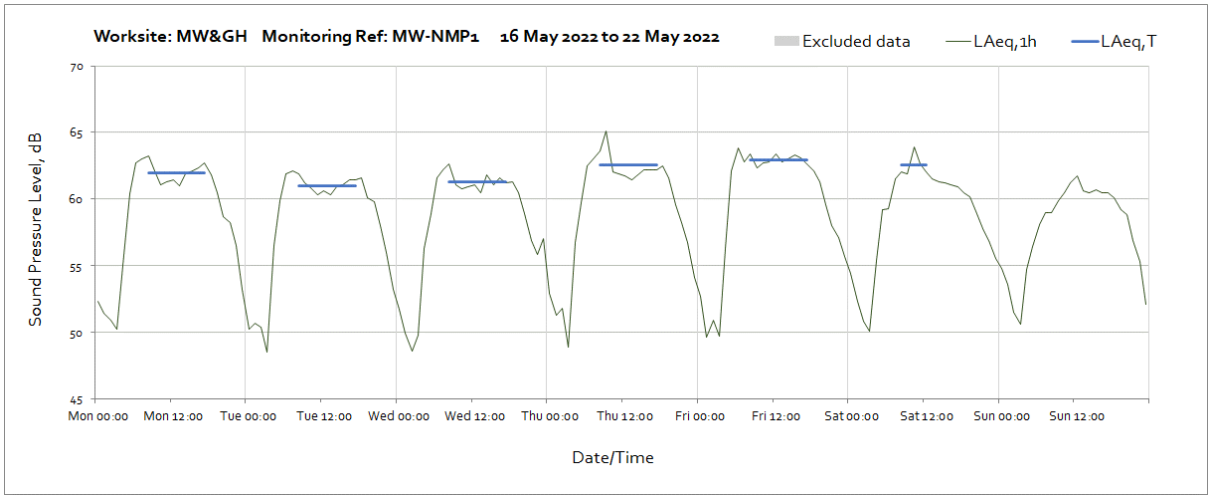
Date/Time


Worksite: MW&GH Monitoring Ref: MW-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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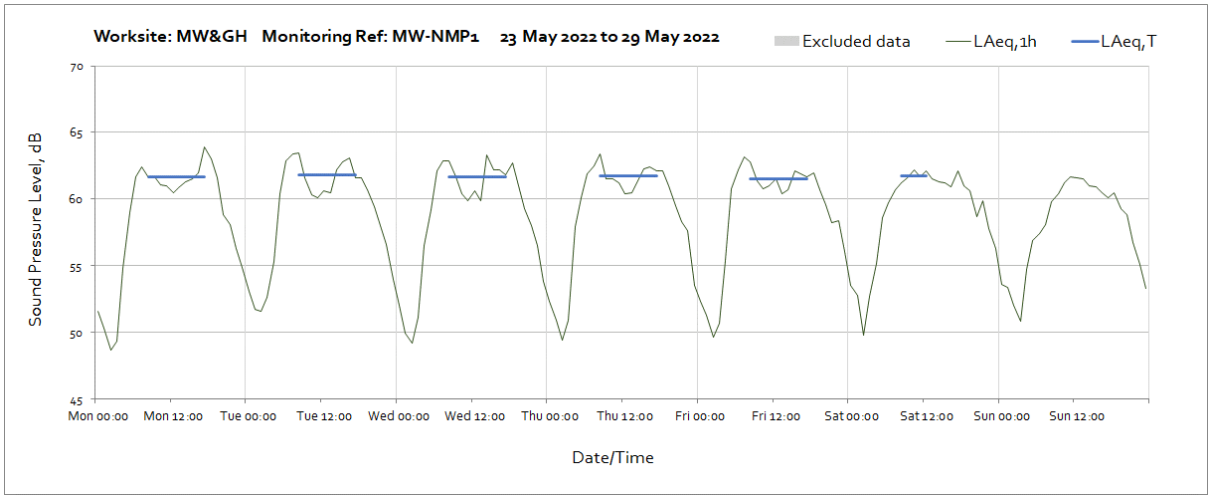
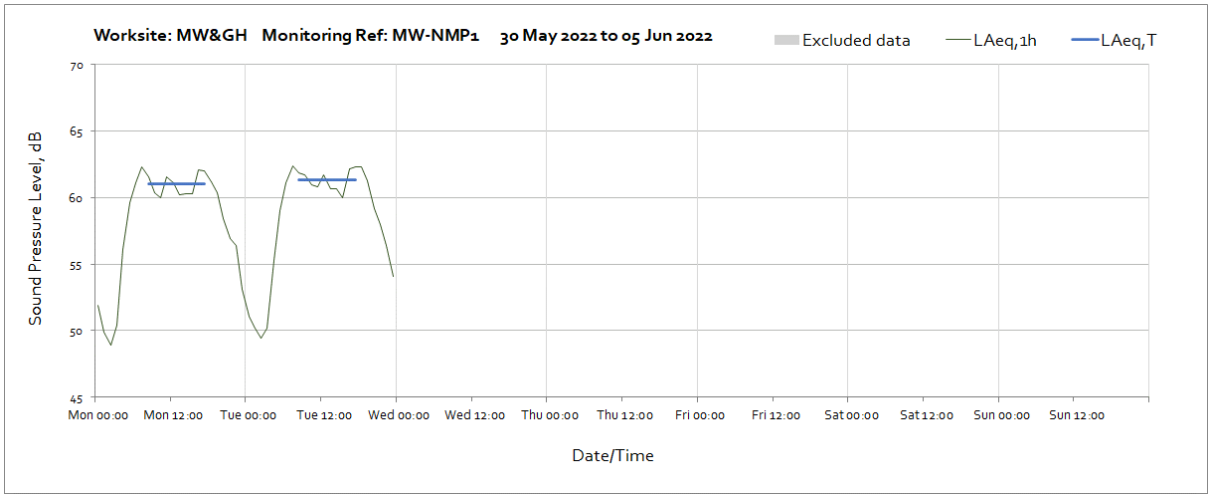
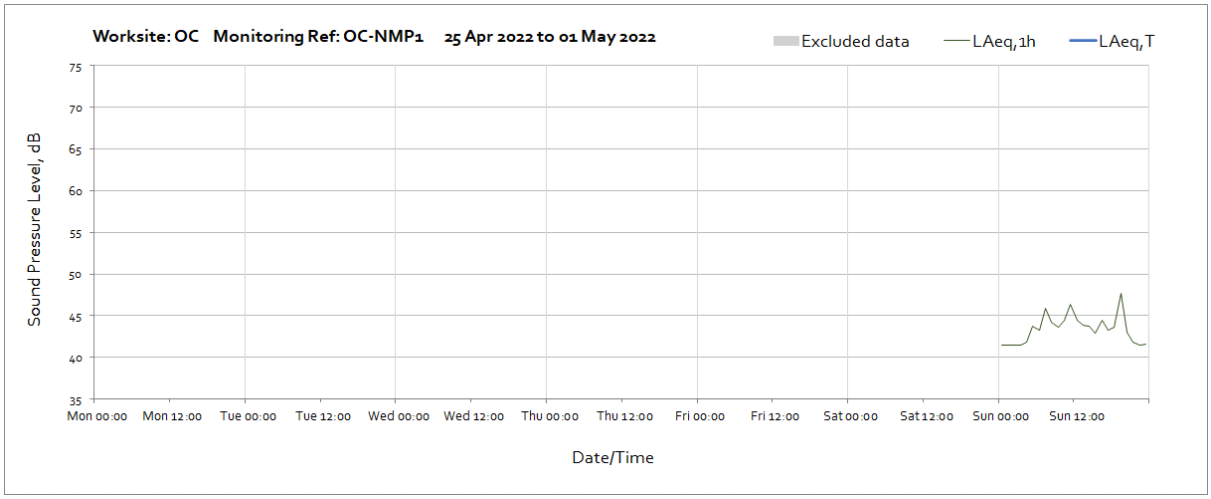
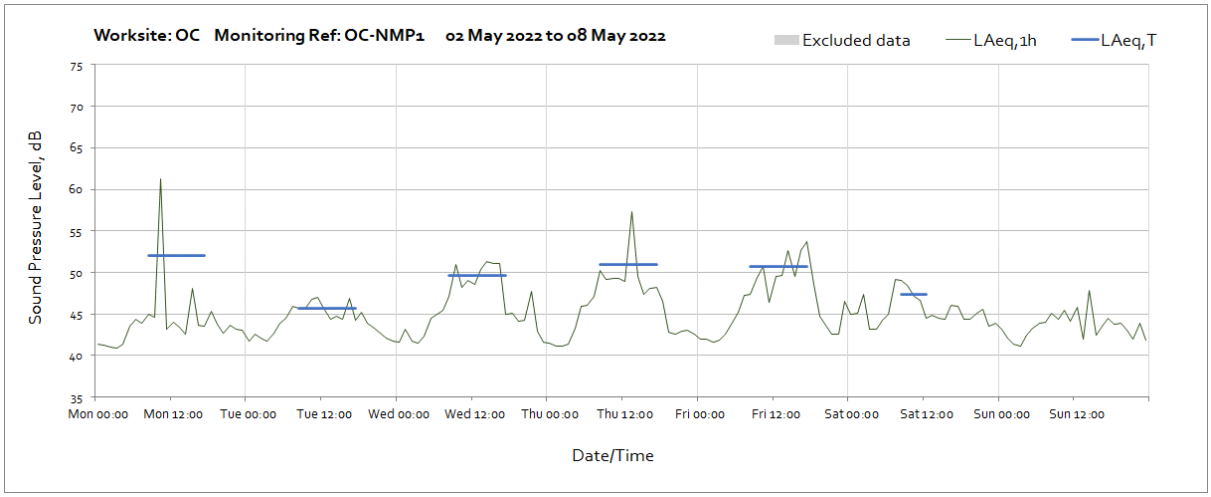
Date/Time





Worksite: OC – Monitoring Ref: OC-NMP1




Worksite: OC Monitoring Ref: OC-NMP1 02 May 2022 to 08 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
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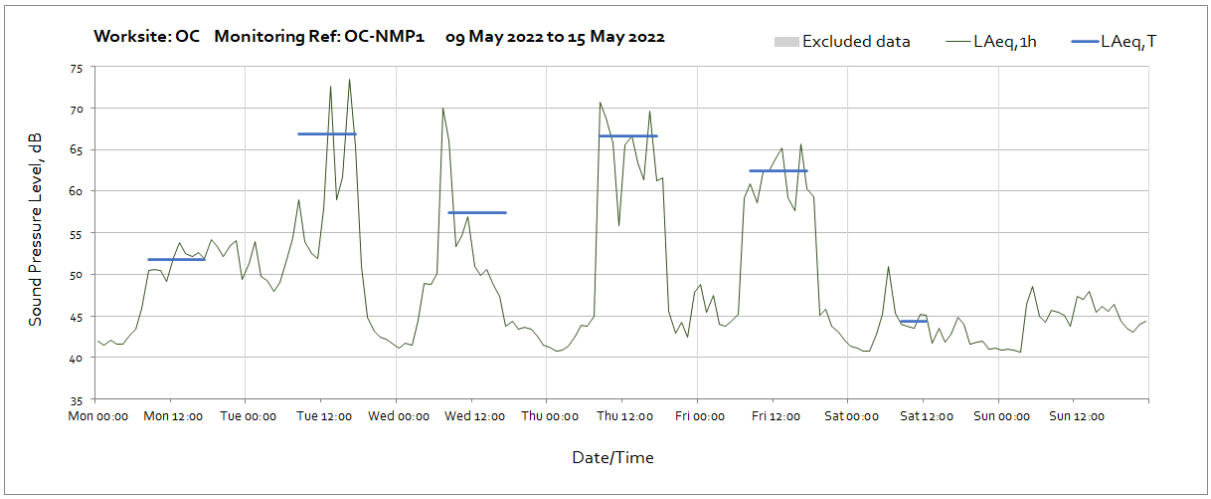
Date/Time


Worksite: OC Monitoring Ref: OC-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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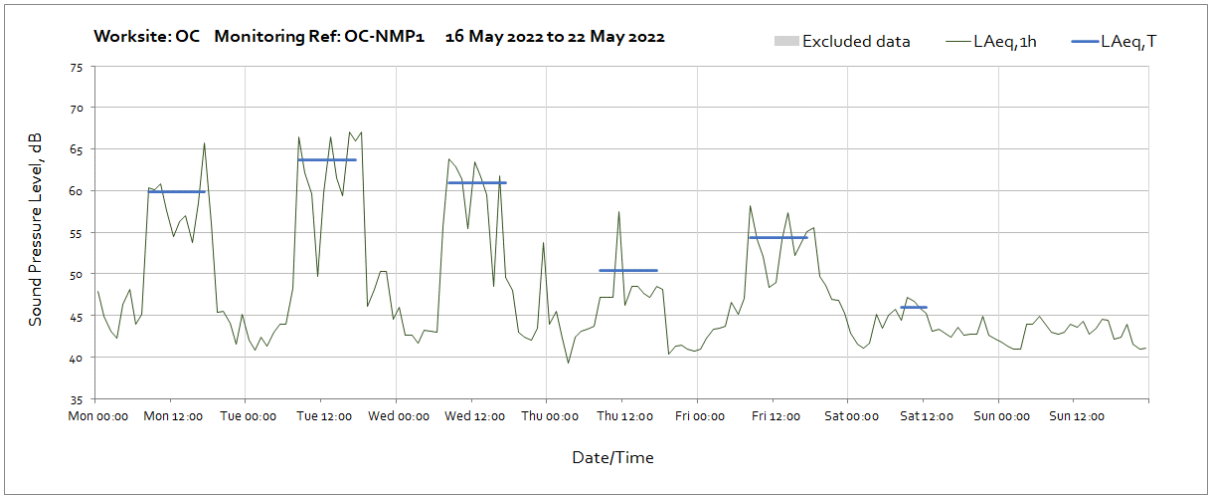
Date/Time


Worksite: OC Monitoring Ref: OC-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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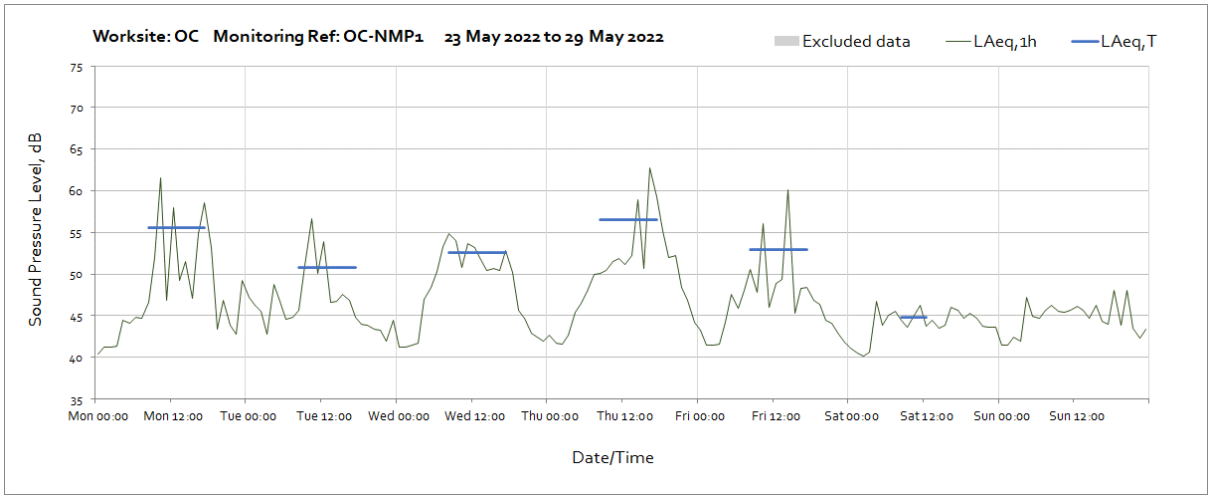
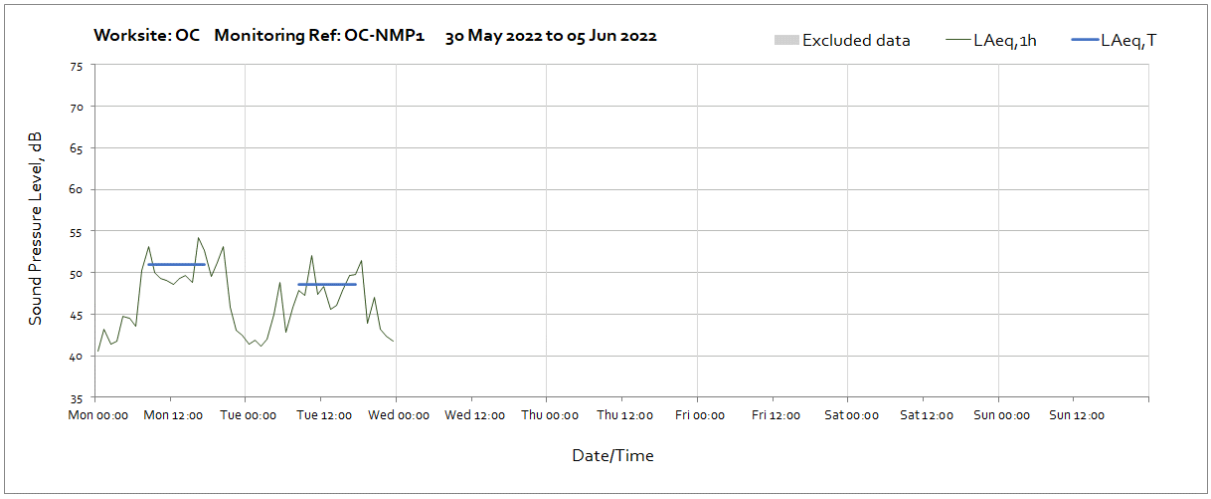
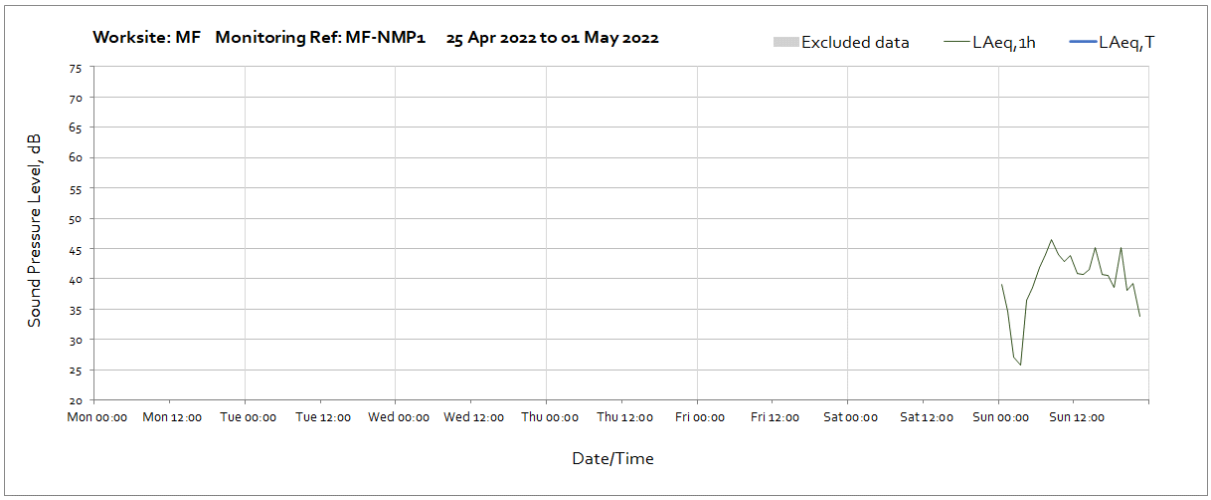
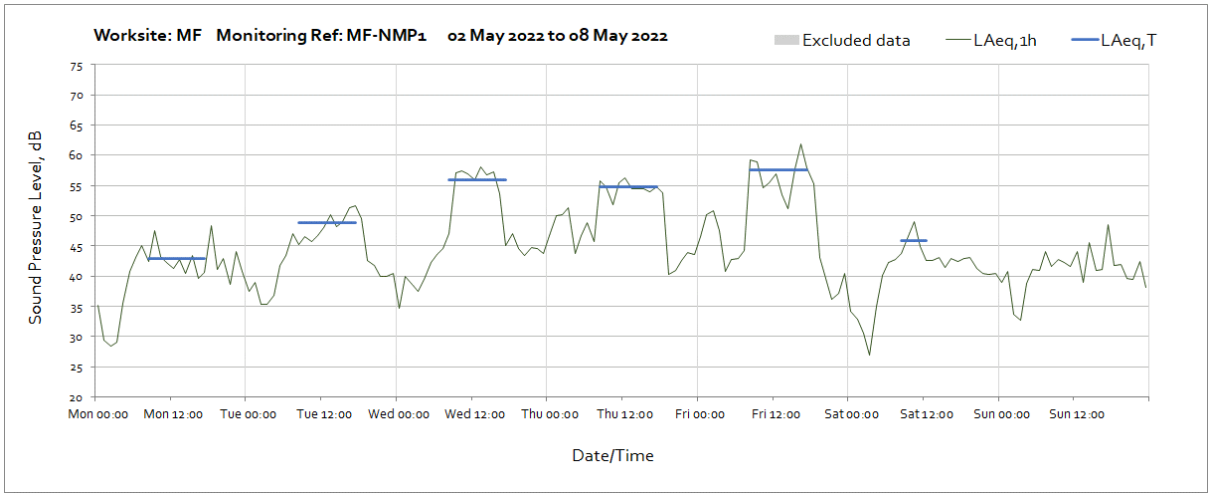




Worksite: OC – Monitoring Ref: MF-NMP1



Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.


Worksite: MF Monitoring Ref: MF-NMP1 02 May 2022 to 08 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
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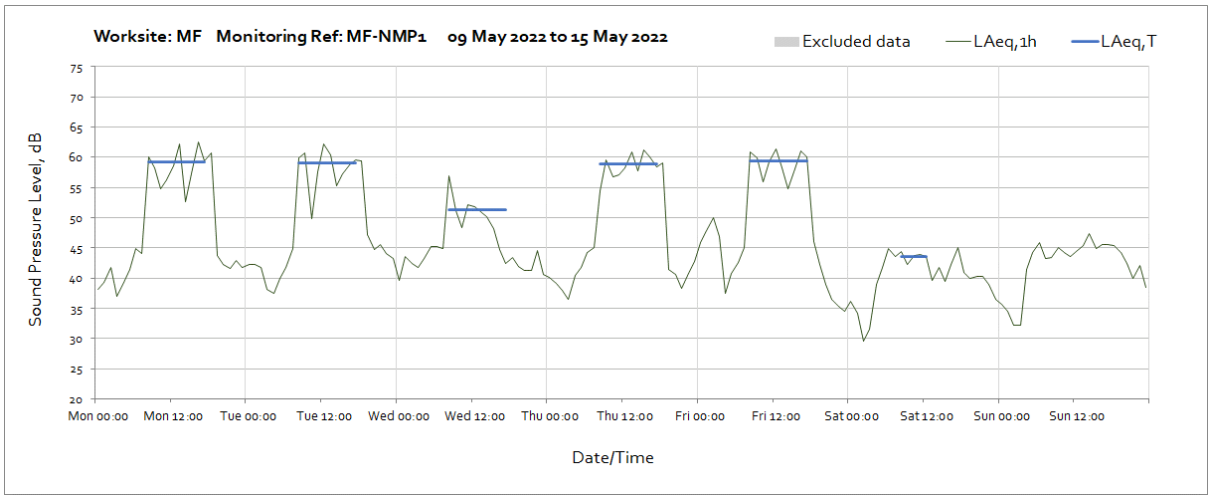
Date/Time


Worksite: MF Monitoring Ref: MF-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Wed 00:00
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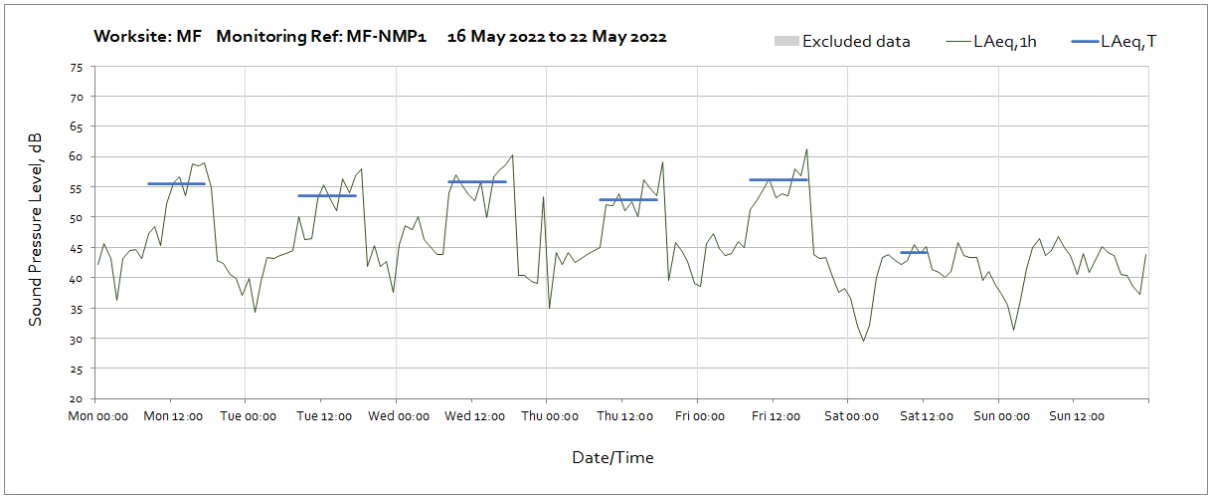
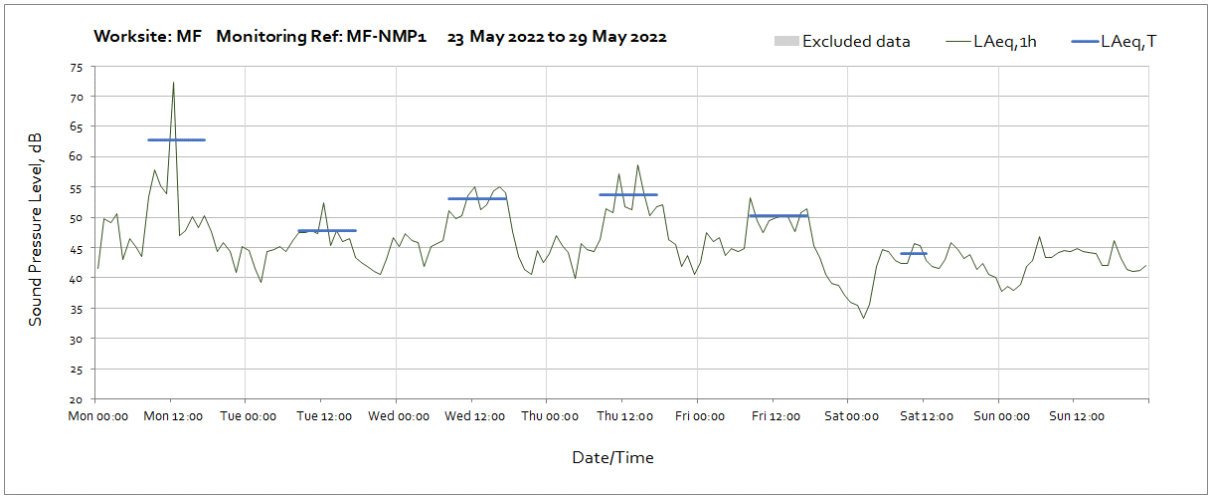
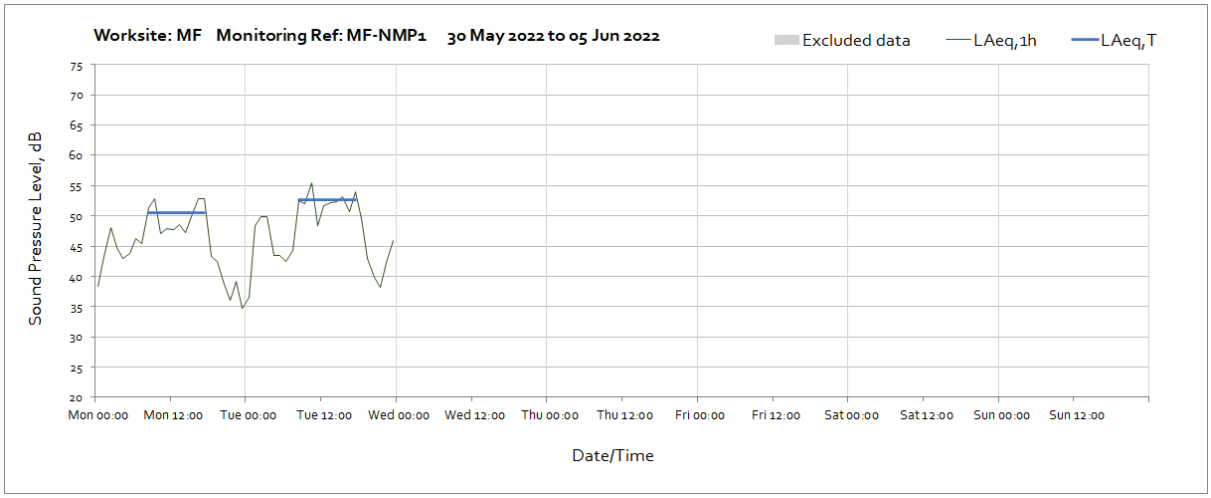
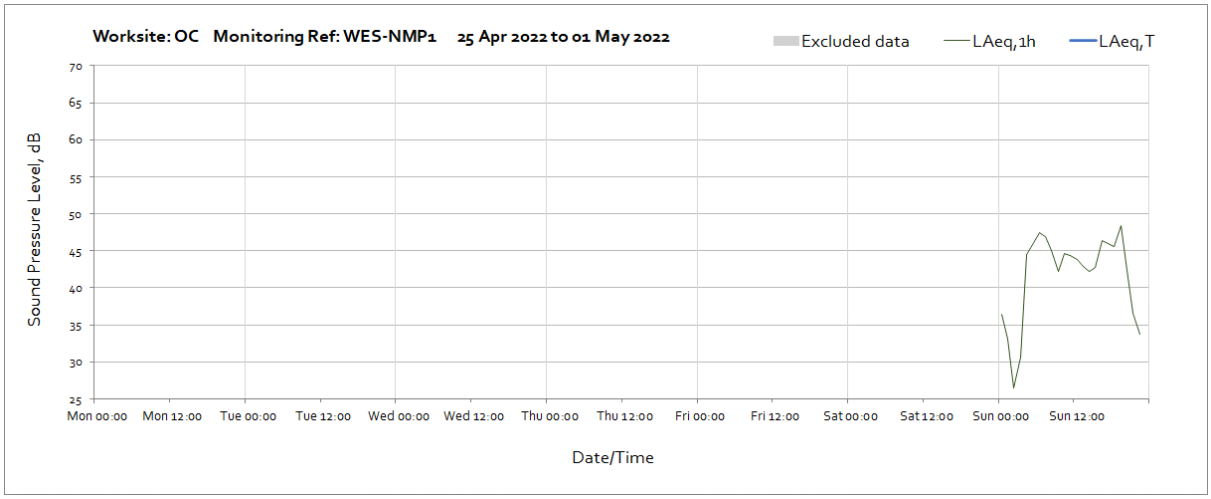
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MF Monitoring Ref: MF-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
70
65
60
55
50
45
40
35
30
25
20
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

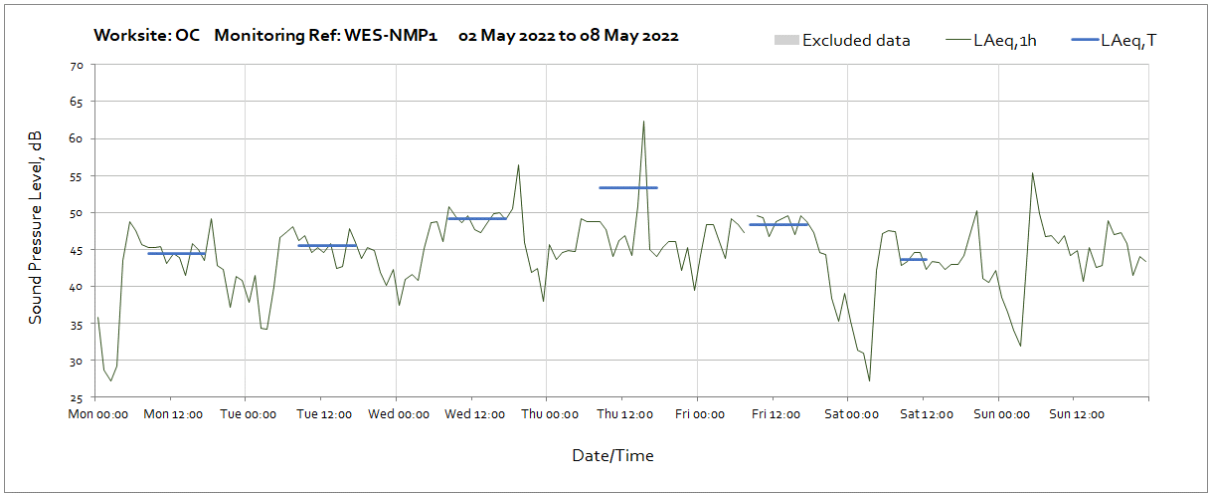




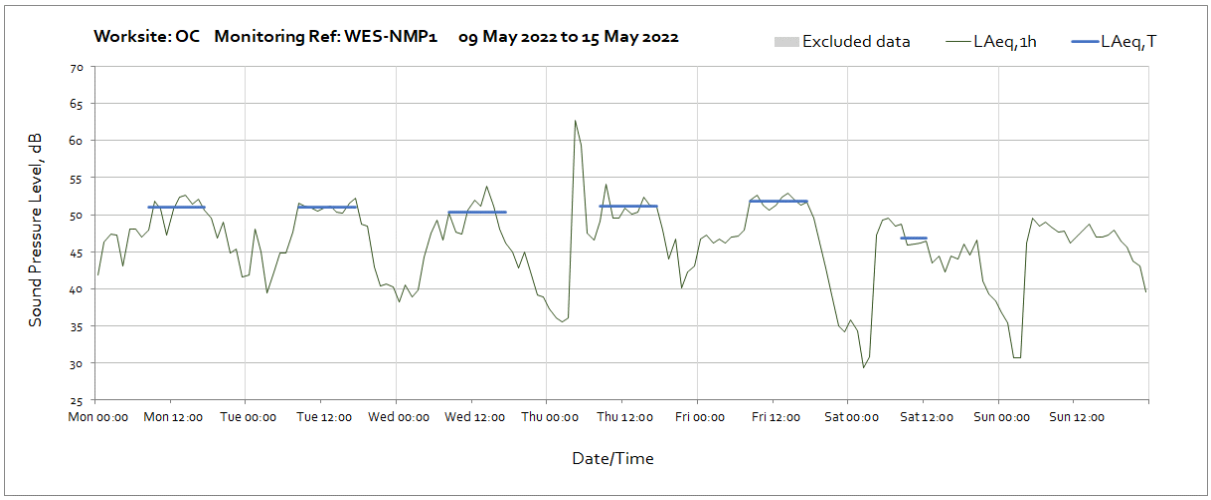
Worksite: OC – Monitoring Ref: WES-NMP1

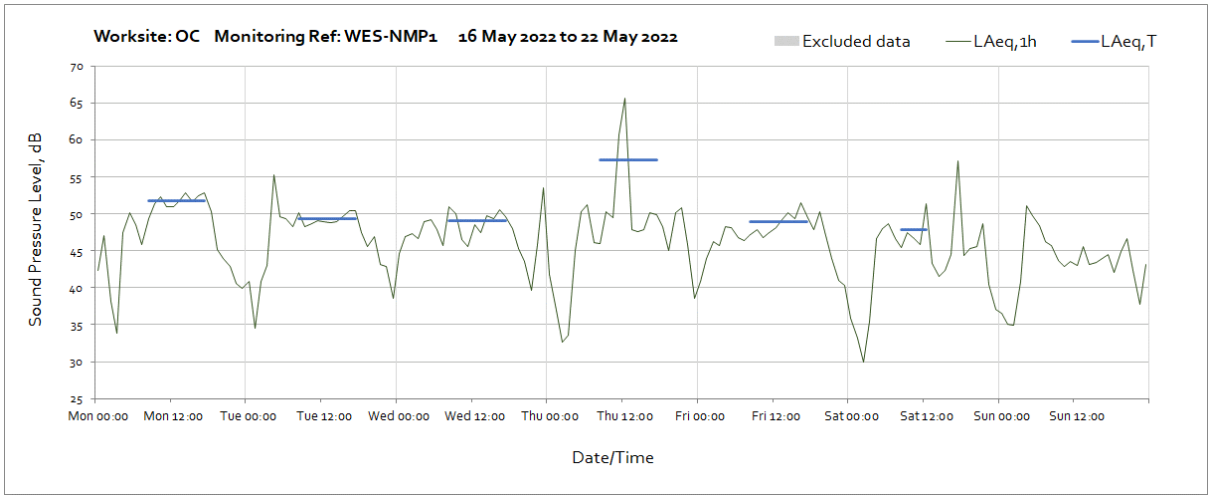


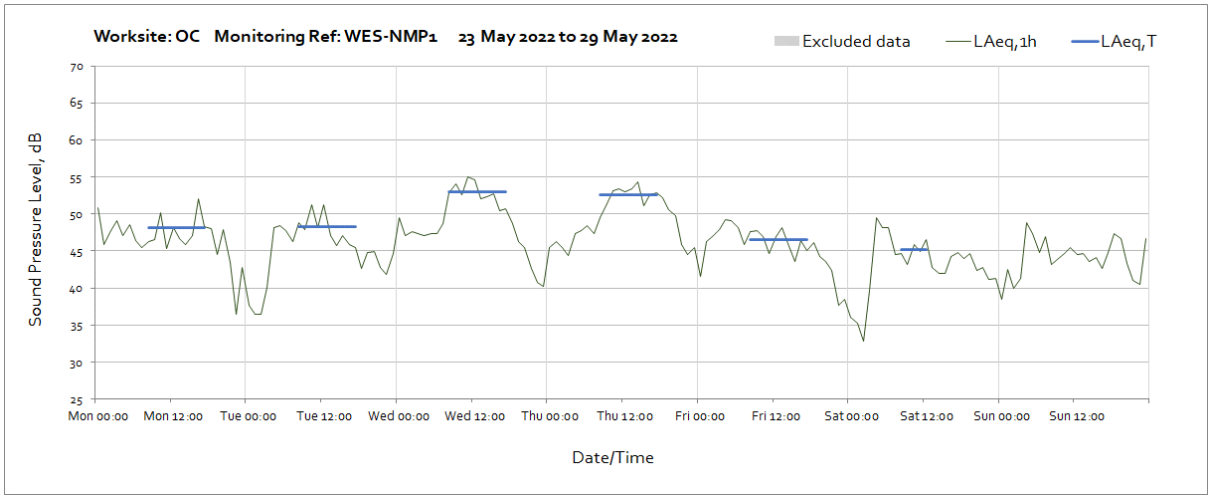
Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.



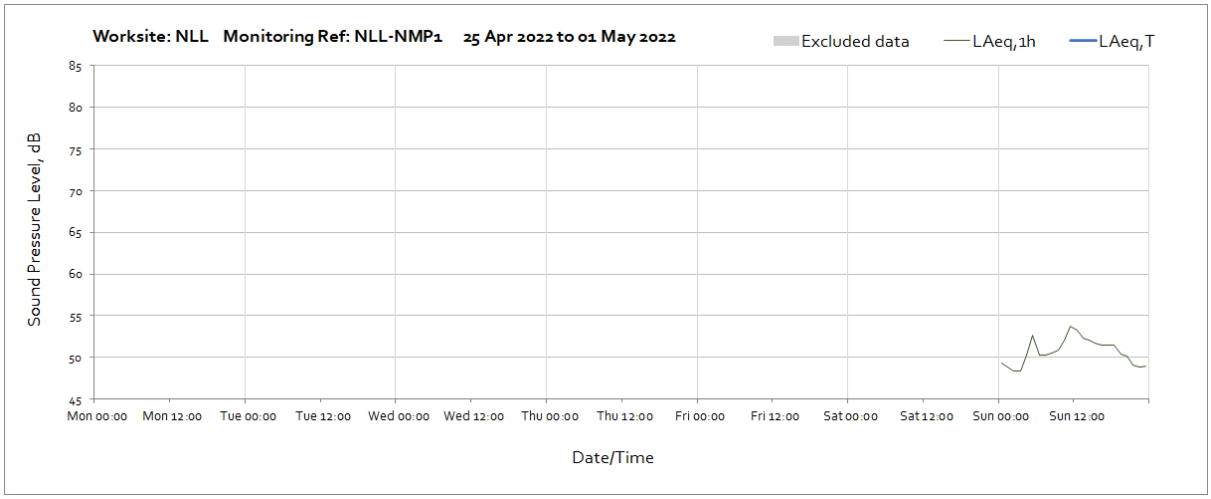
Note: Missing data at 08:00 on Friday 6st May were due to maintenance of the monitoring station.

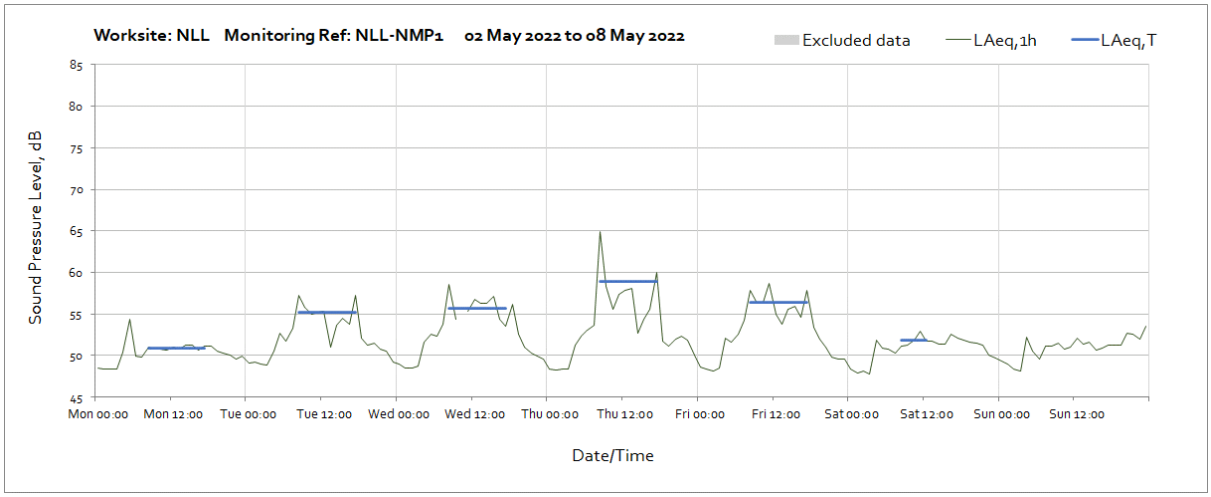






Worksite: NLL – Monitoring Ref: NLL-NMP1




Worksite: NLL Monitoring Ref: NLL-NMP1 02 May 2022 to 08 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
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70
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60
55
50
45
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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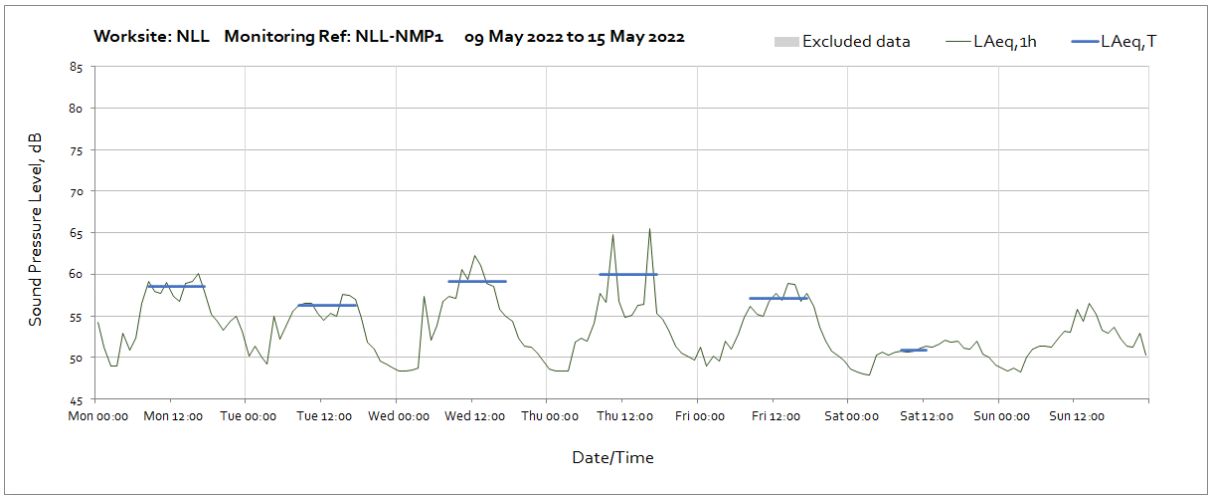
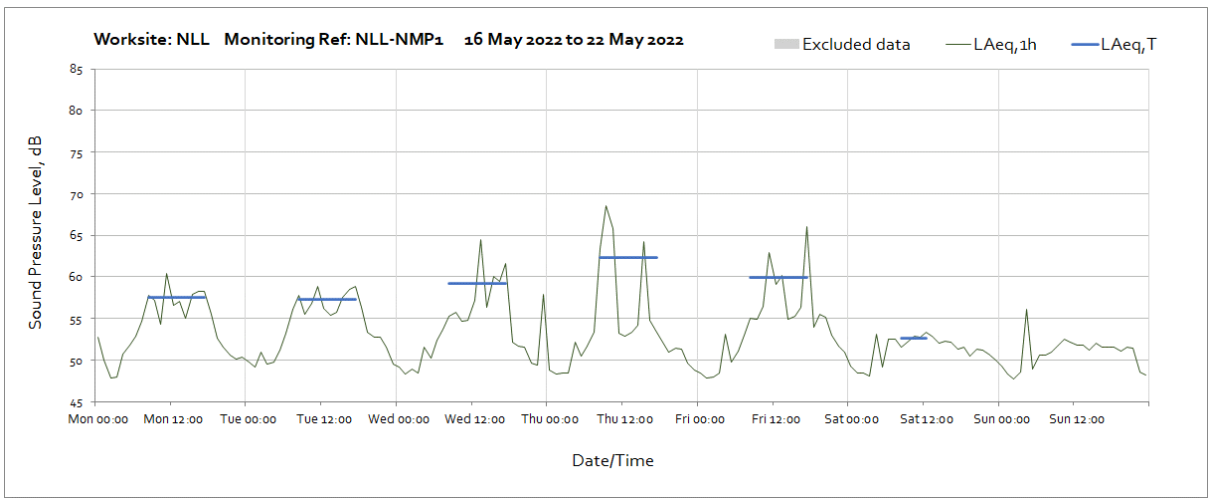
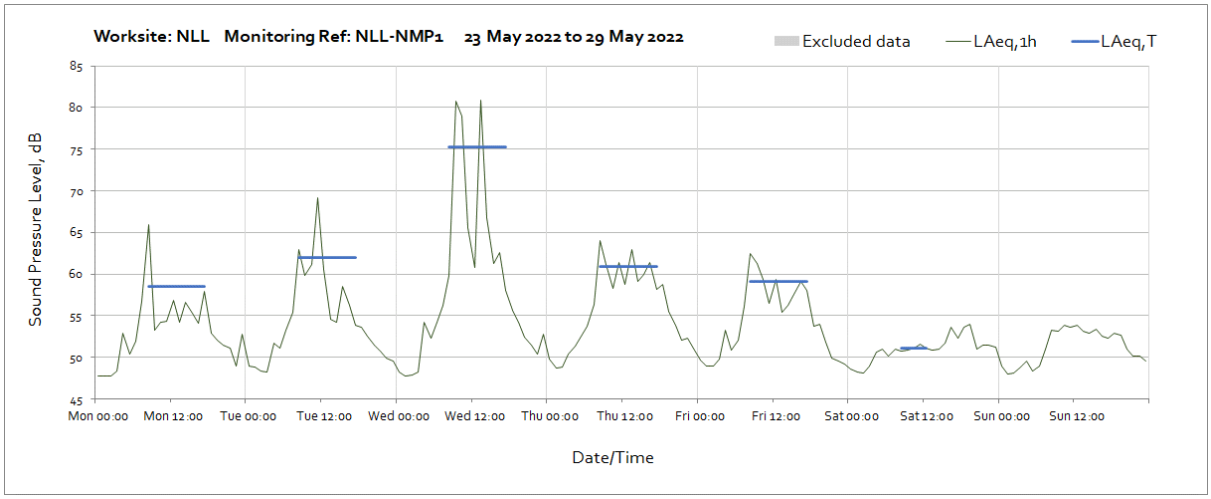
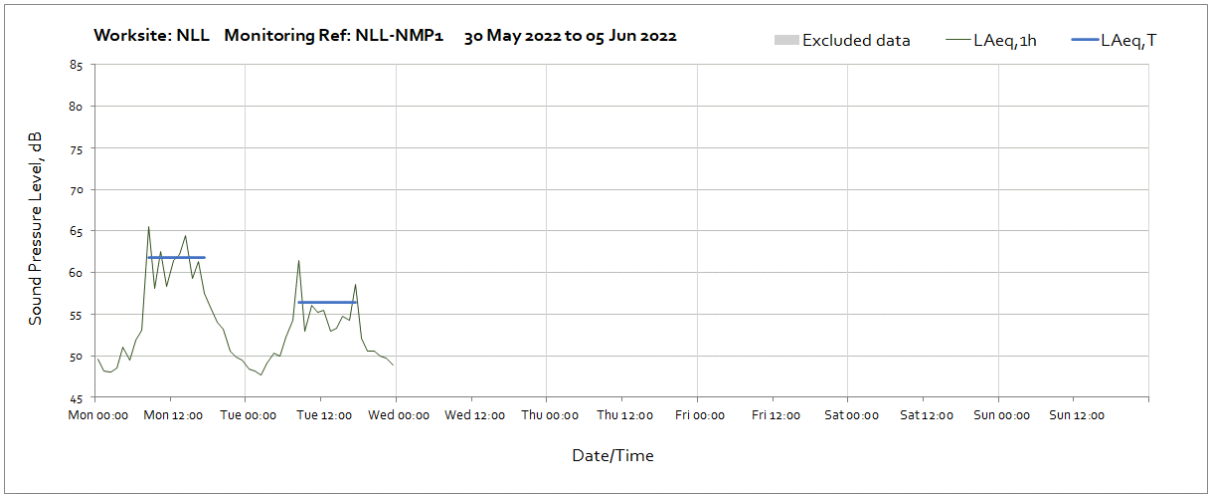
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

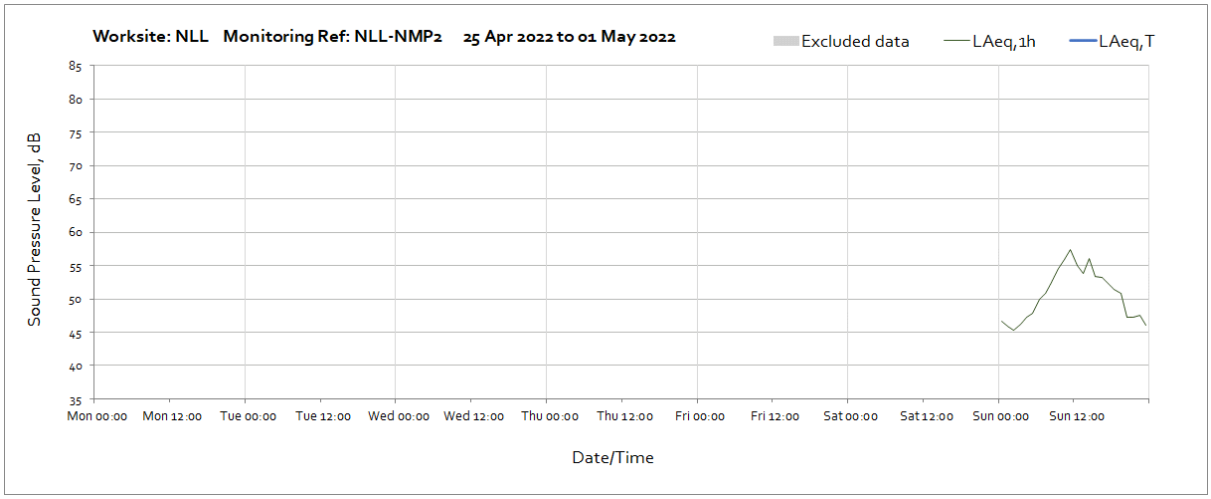

Worksite: NLL Monitoring Ref: NLL-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

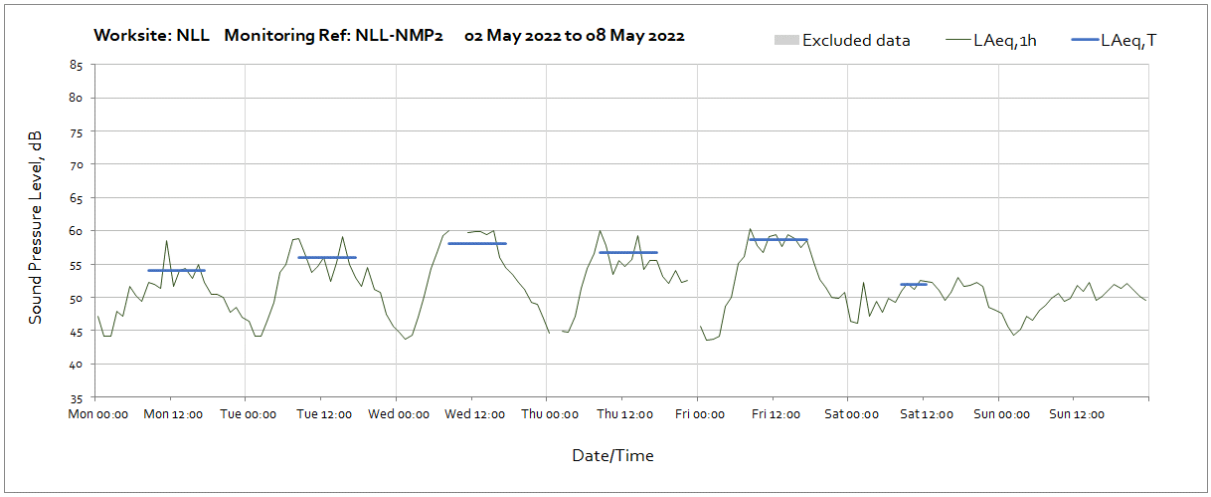

Worksite: NLL Monitoring Ref: NLL-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time



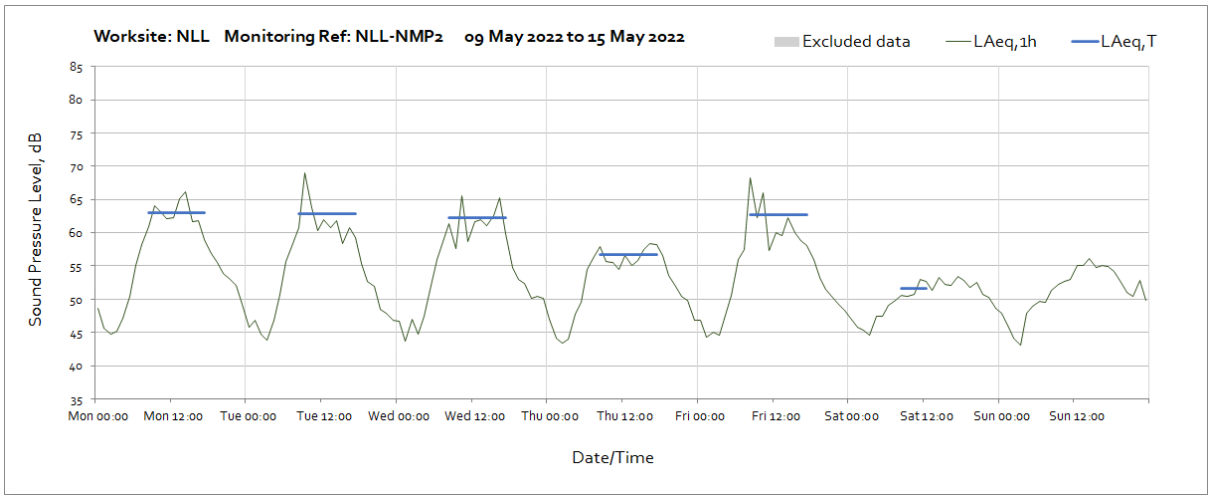


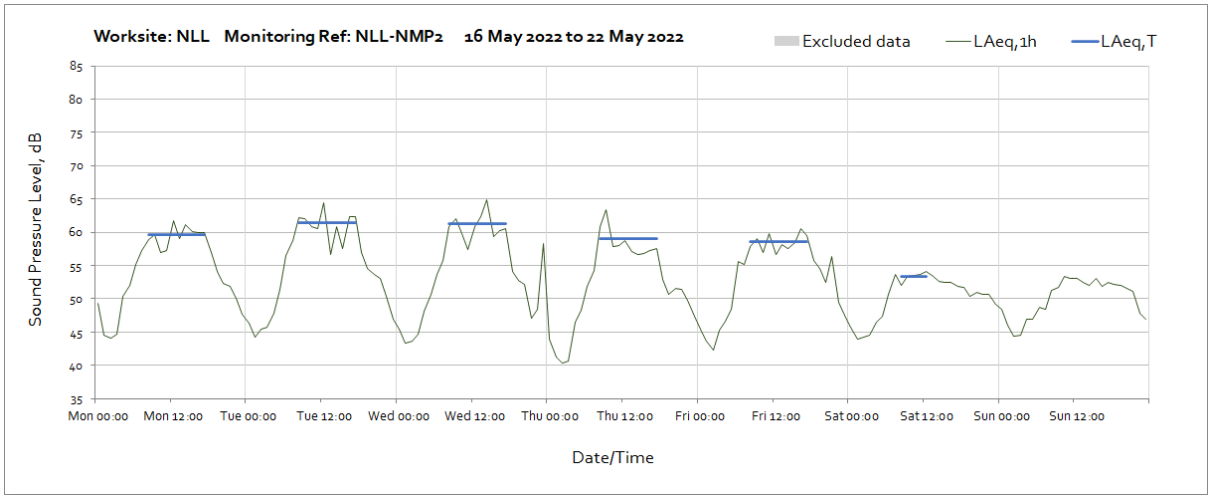
Worksite: NLL – Monitoring Ref: NLL-NMP2

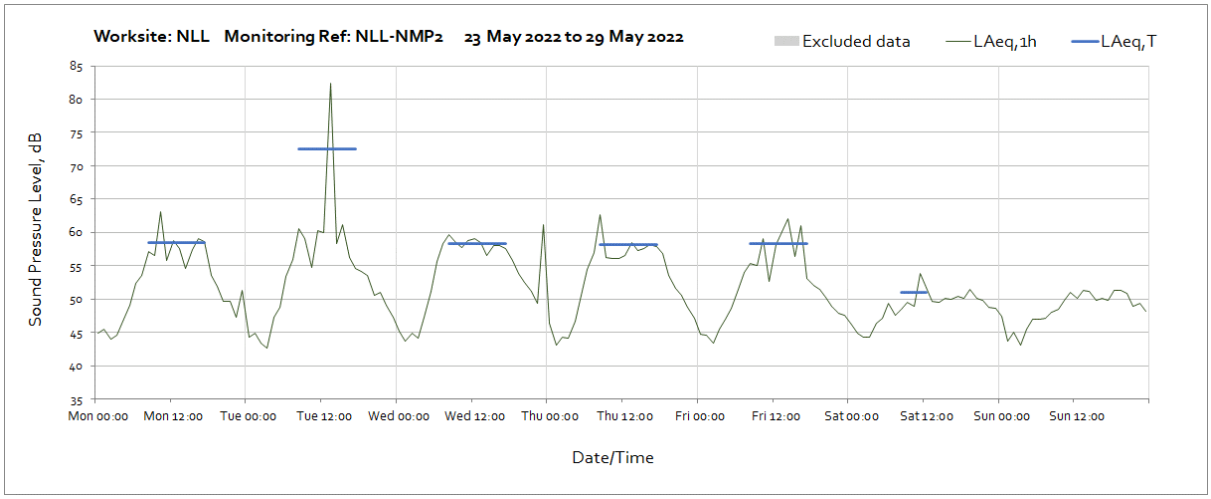


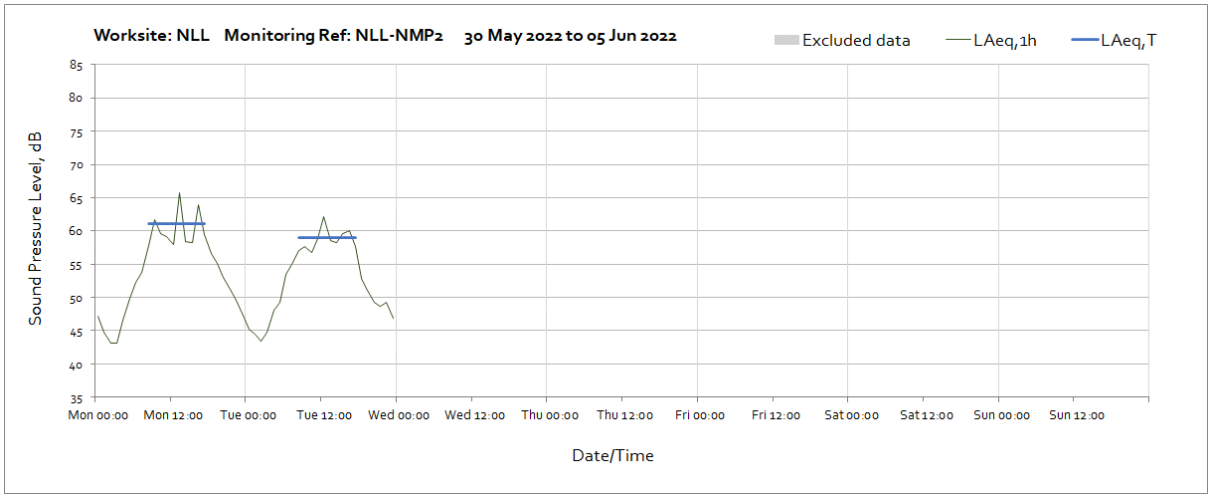


Note: Missing data between 08:00 and 10:00 on Wednesday 4th May and at 01:00 and 23:00 on Thursday 5th May were due to maintenance of the monitoring station and to a system glitch respectively.

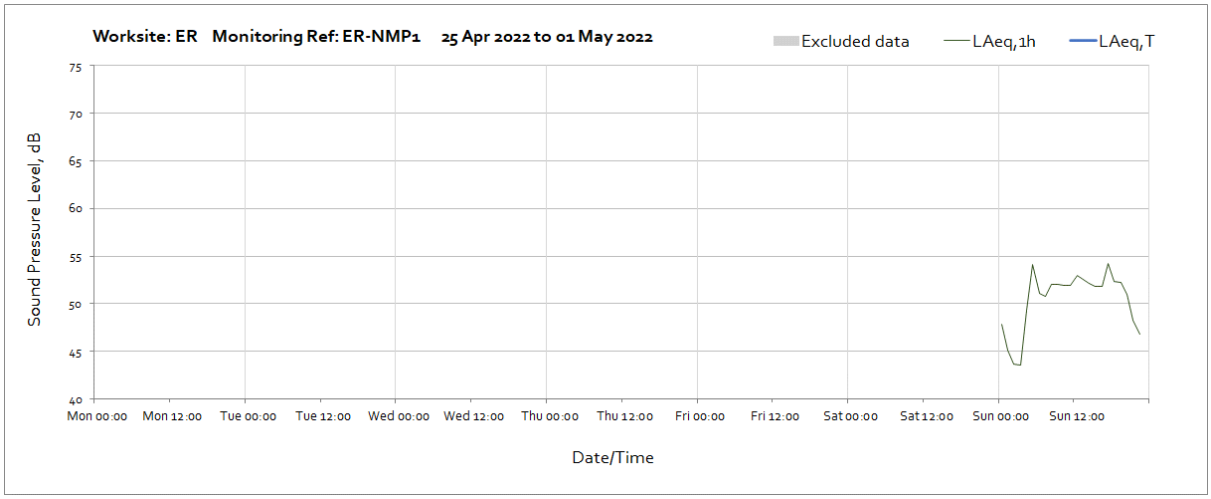




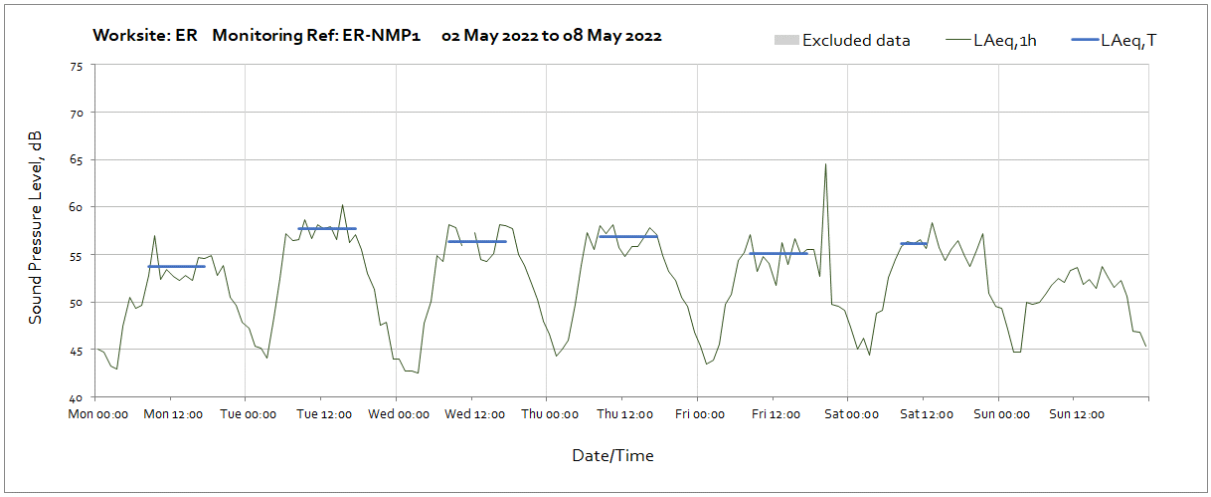




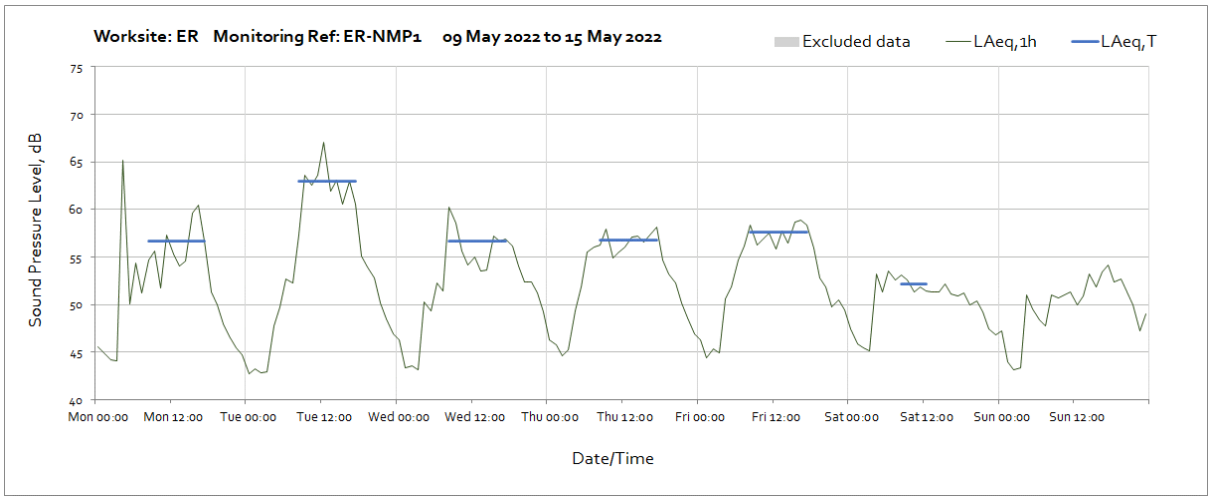
Worksite: ER – Monitoring Ref: ER-NMP1

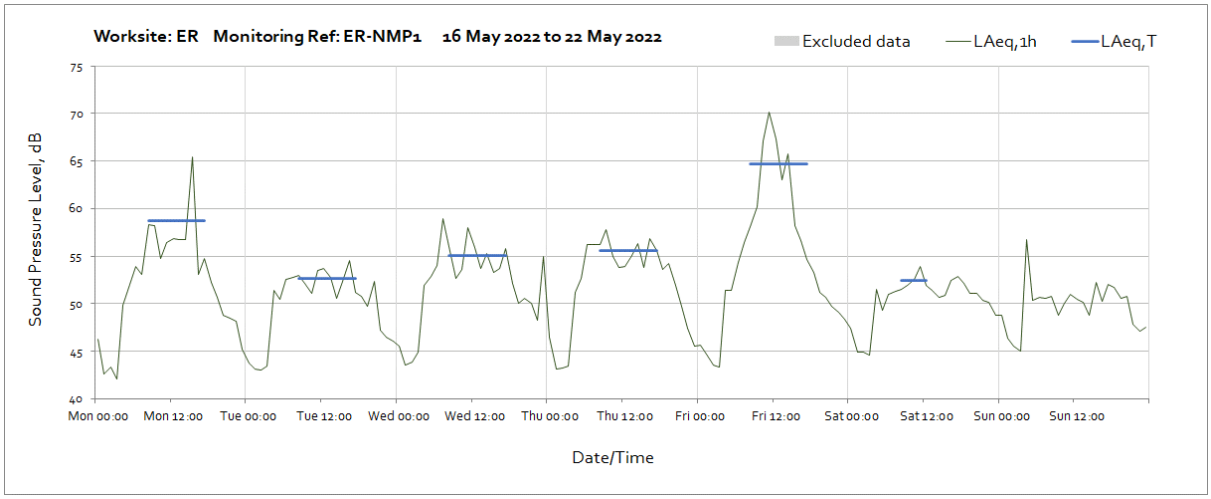


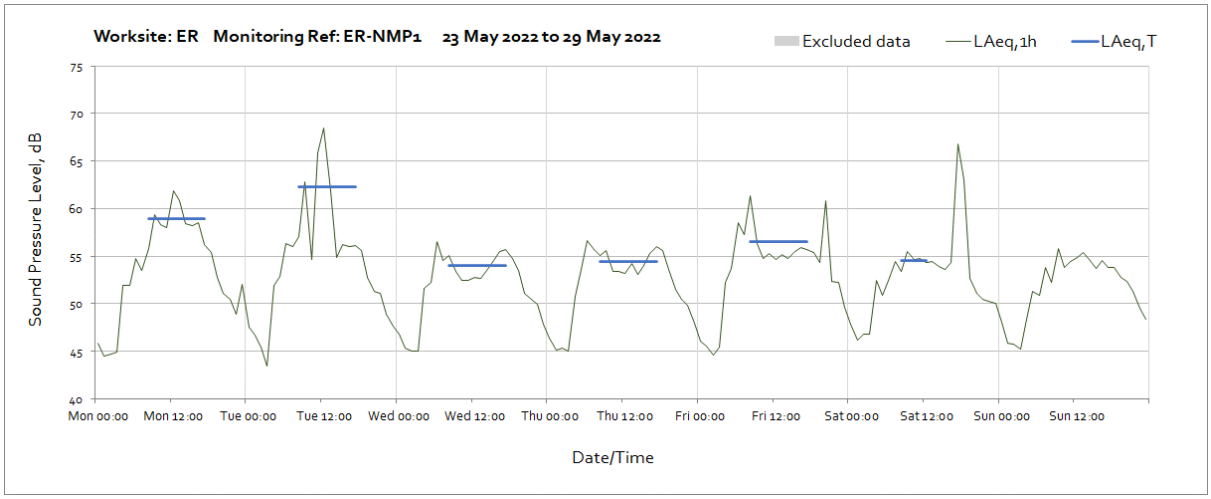
Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.

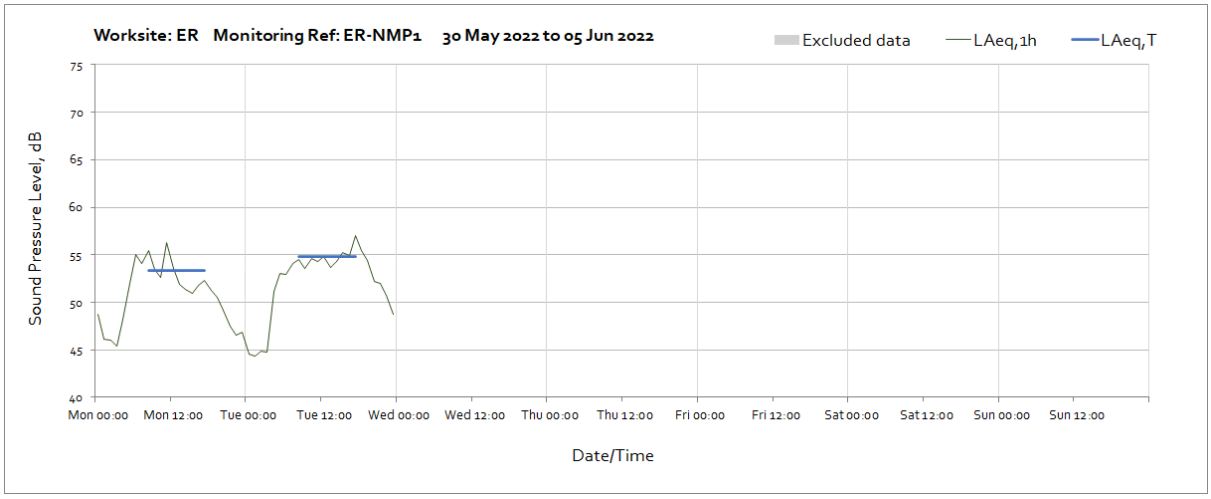


Note: Missing data at 11:00 on Wednesday 4th May were due to maintenance of the monitoring station.

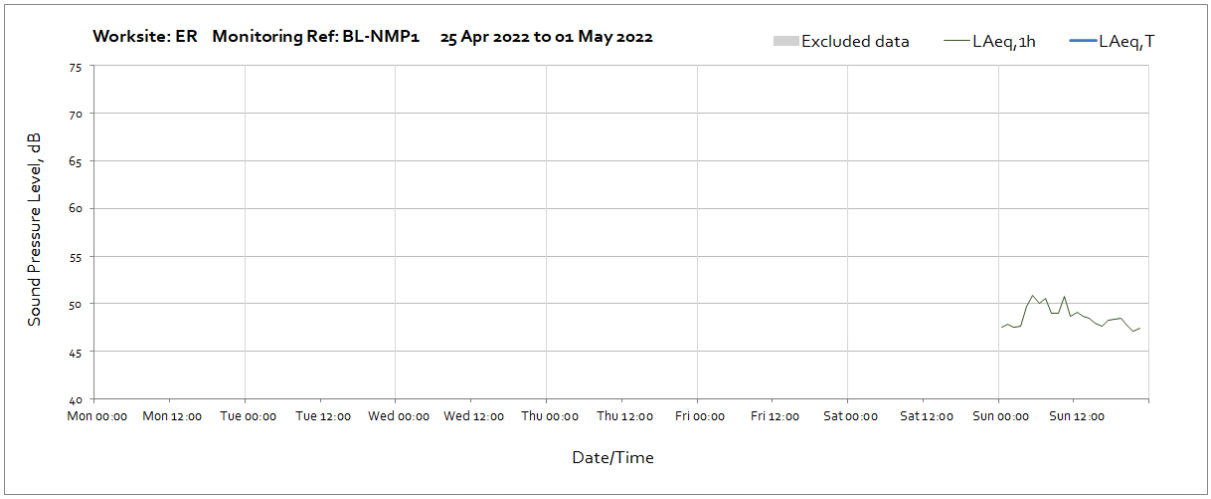




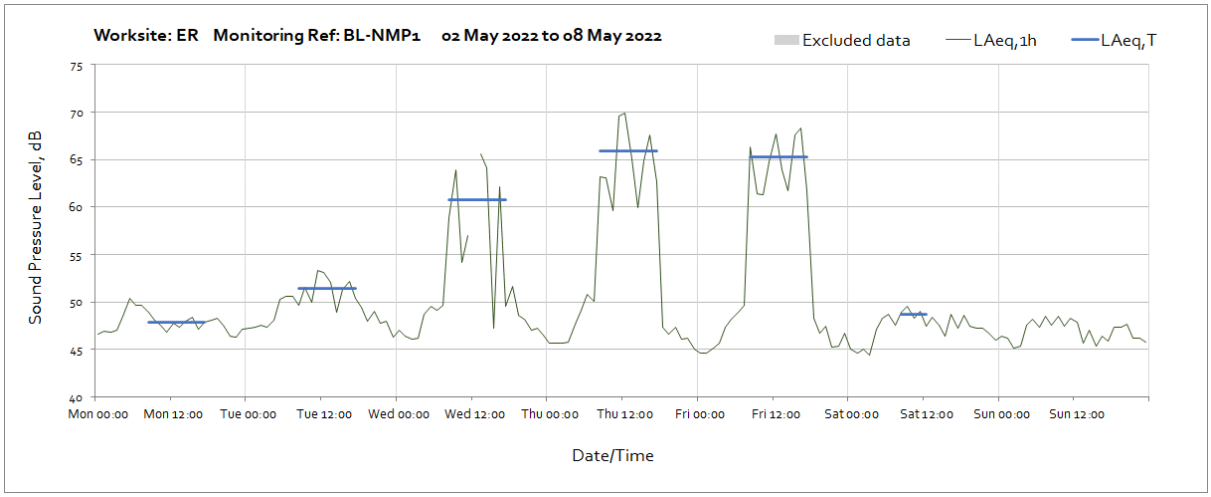




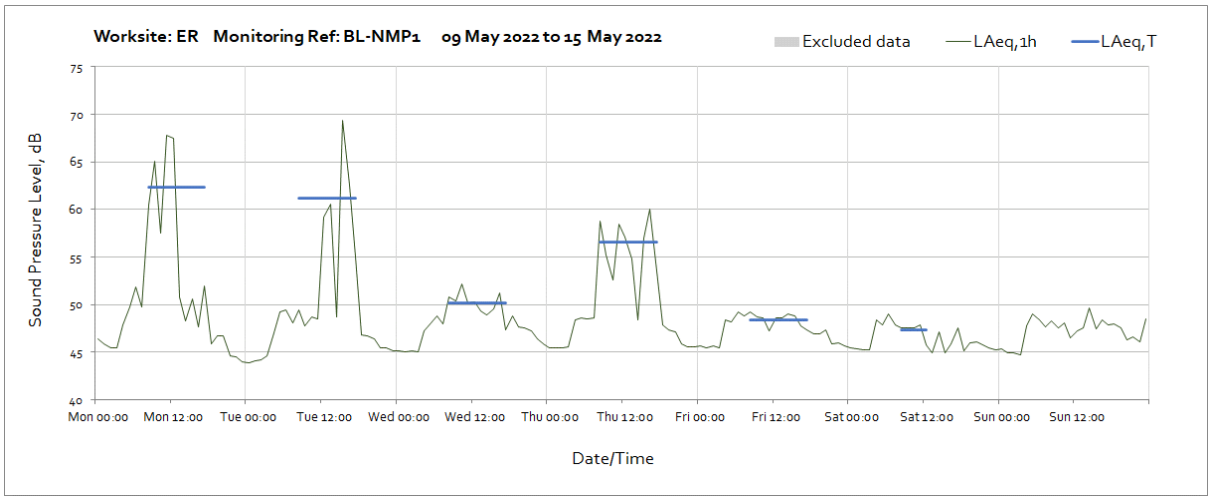
Worksite: ER – Monitoring Ref: BL-NMP1

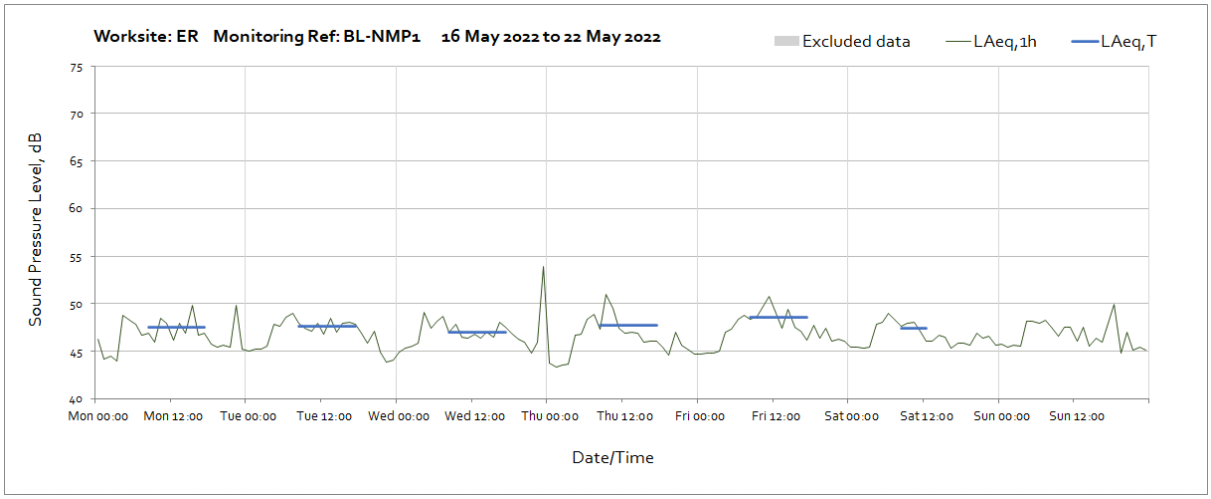


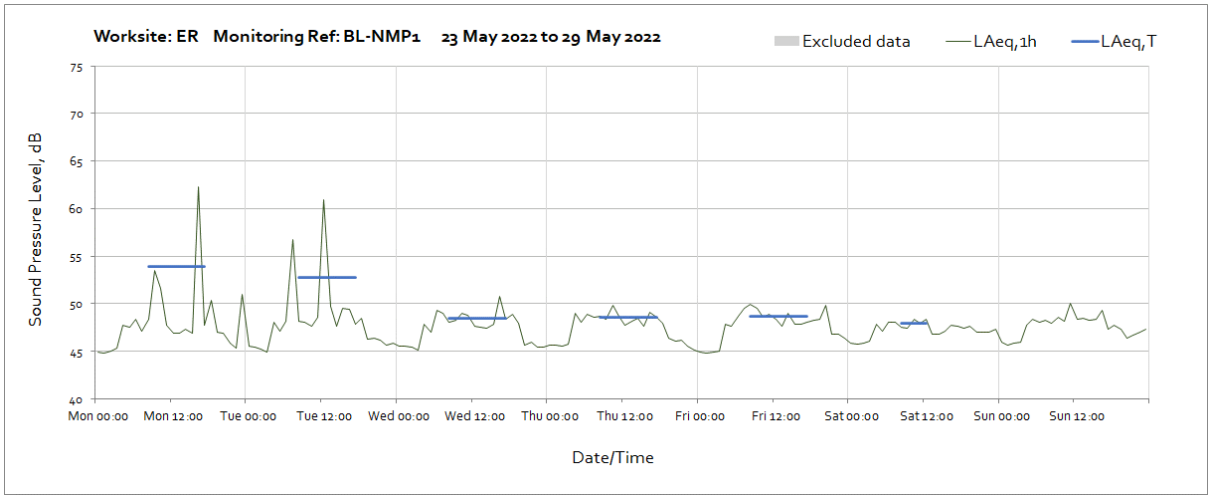
Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.

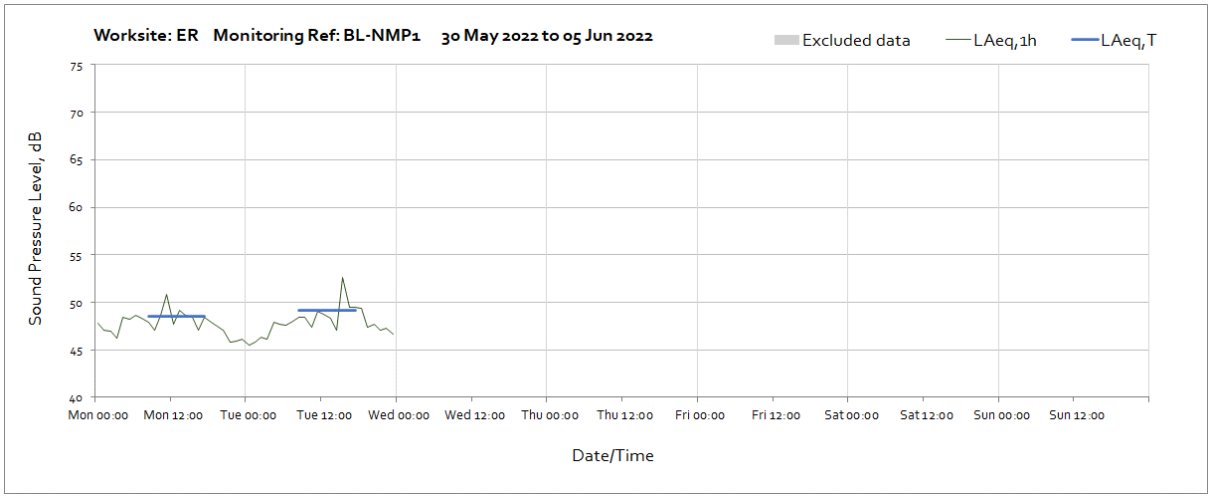


Note: Missing data at 13:00 on Wednesday 4th May were due to maintenance of the monitoring station.

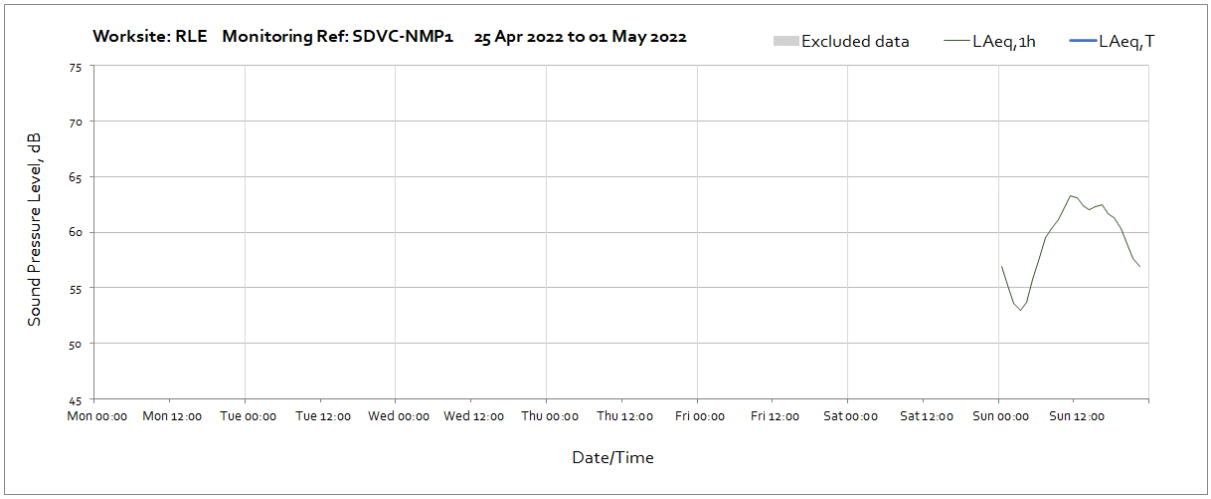




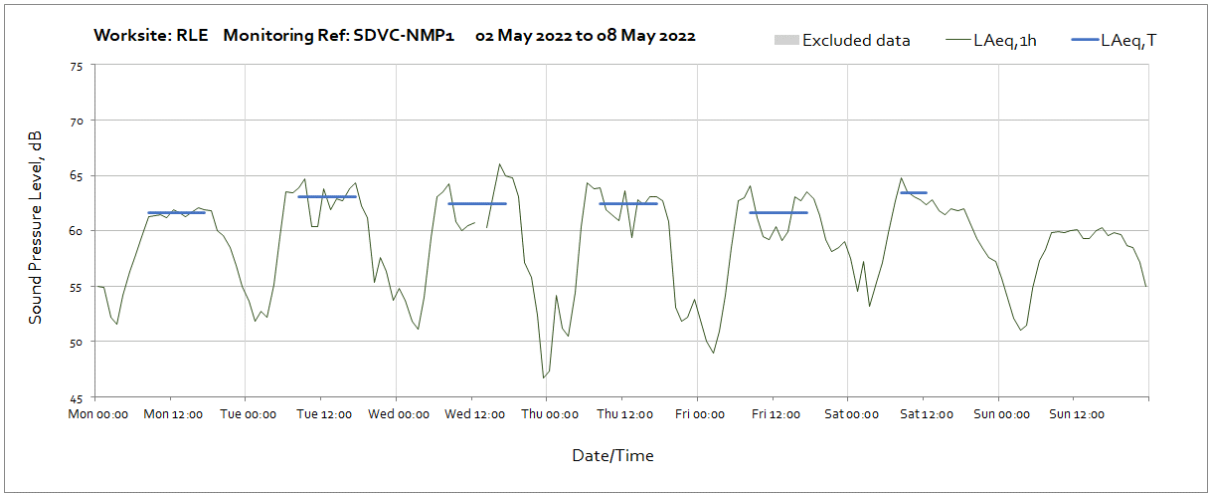




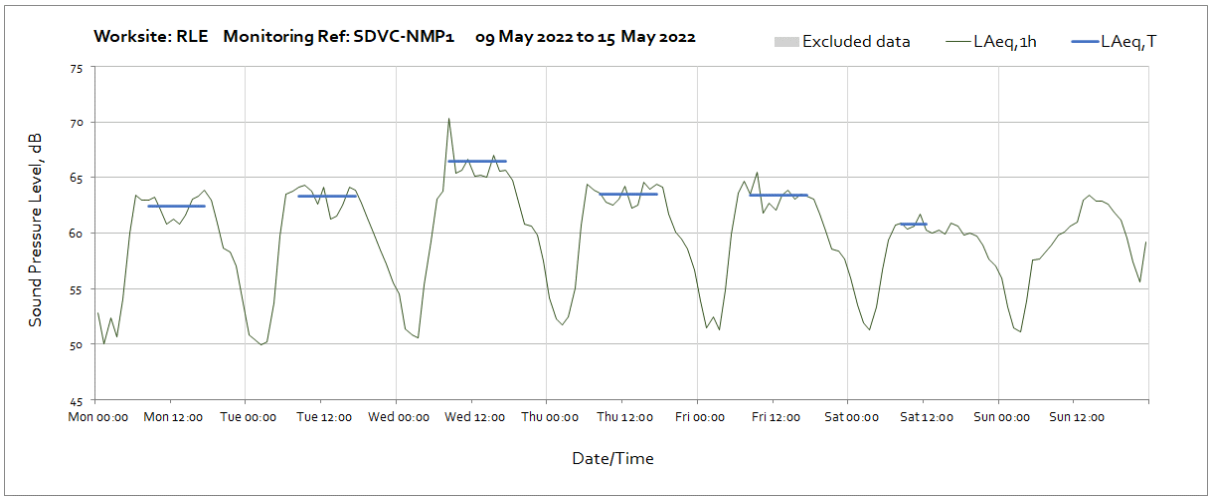
Worksite: RLE – Monitoring Ref: SDVC-NMP1

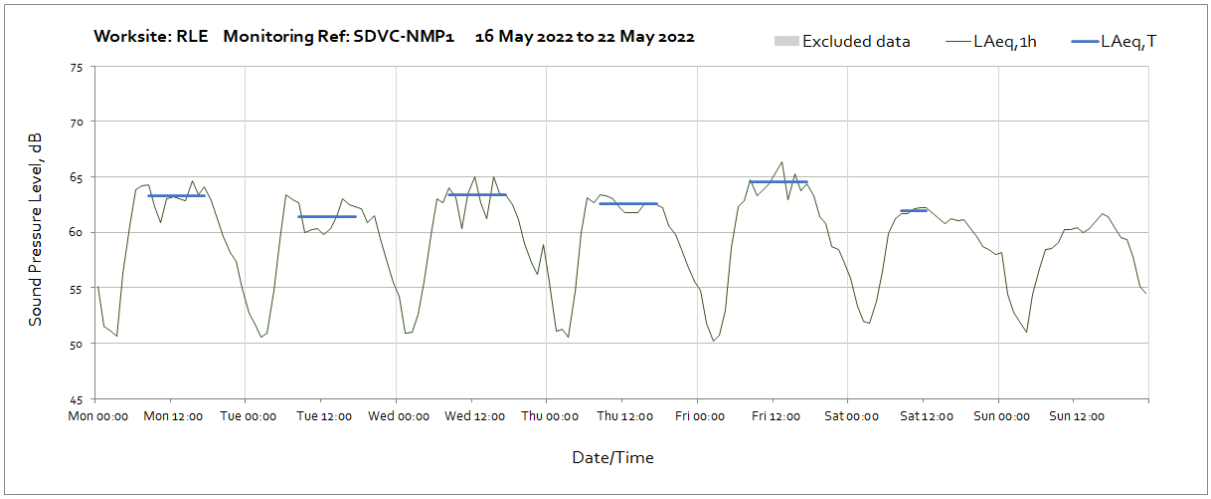


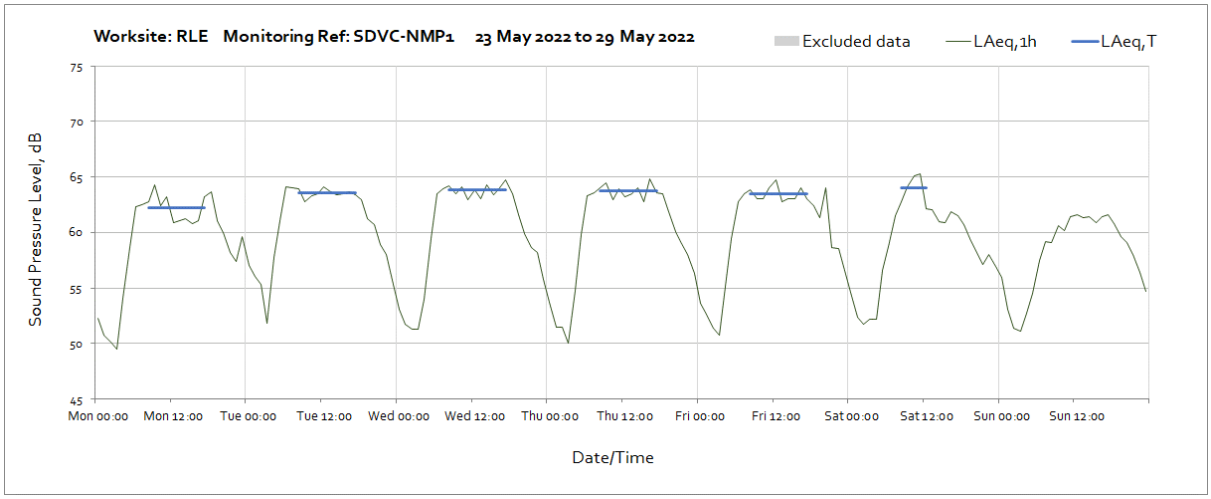
Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.

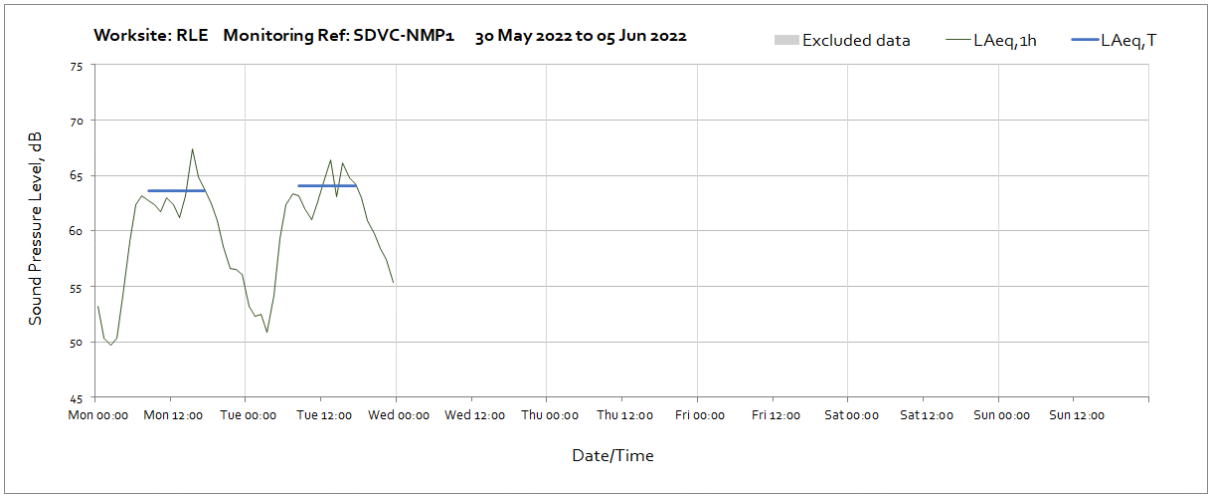


Note: Missing data at 13:00 on Wednesday 4th May were due to maintenance of the monitoring station.

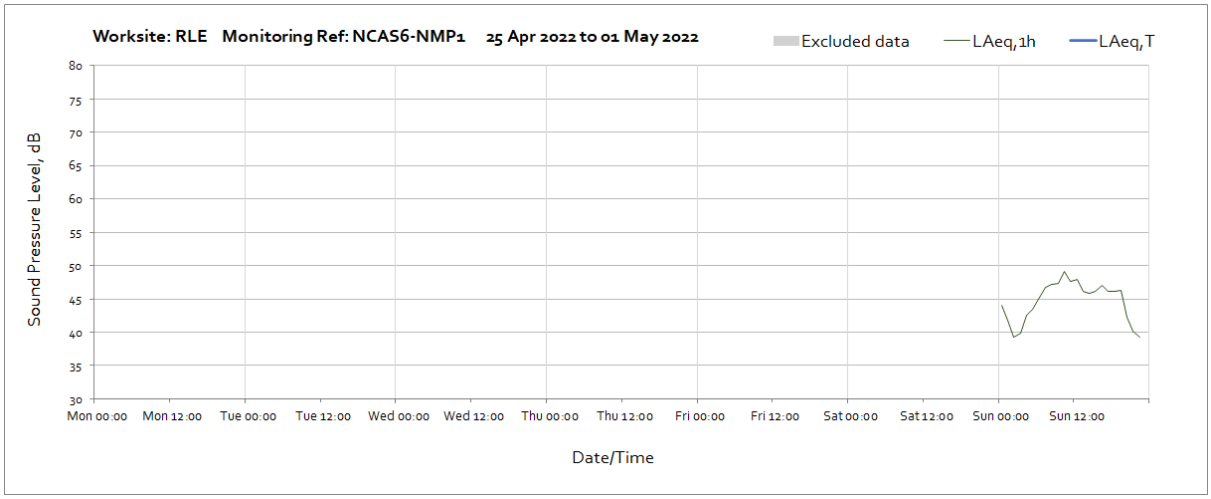




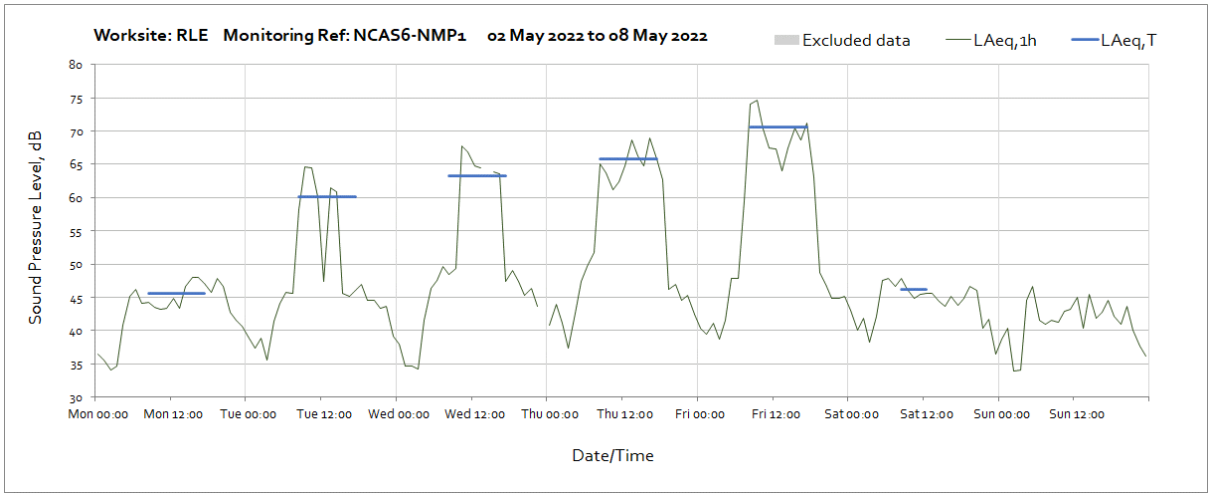




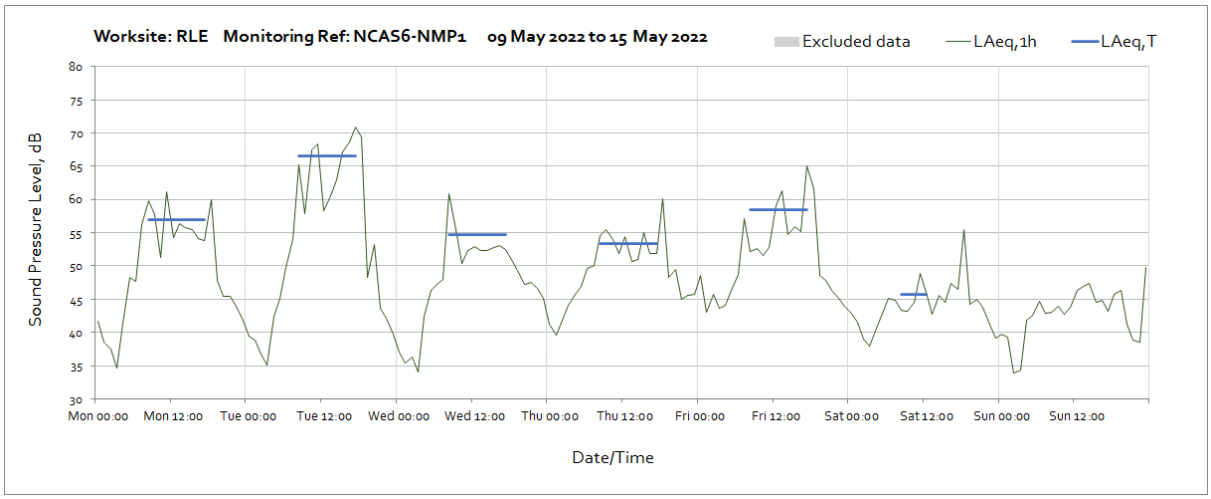
Worksite: RLE – Monitoring Ref: NCAS6-NMP1

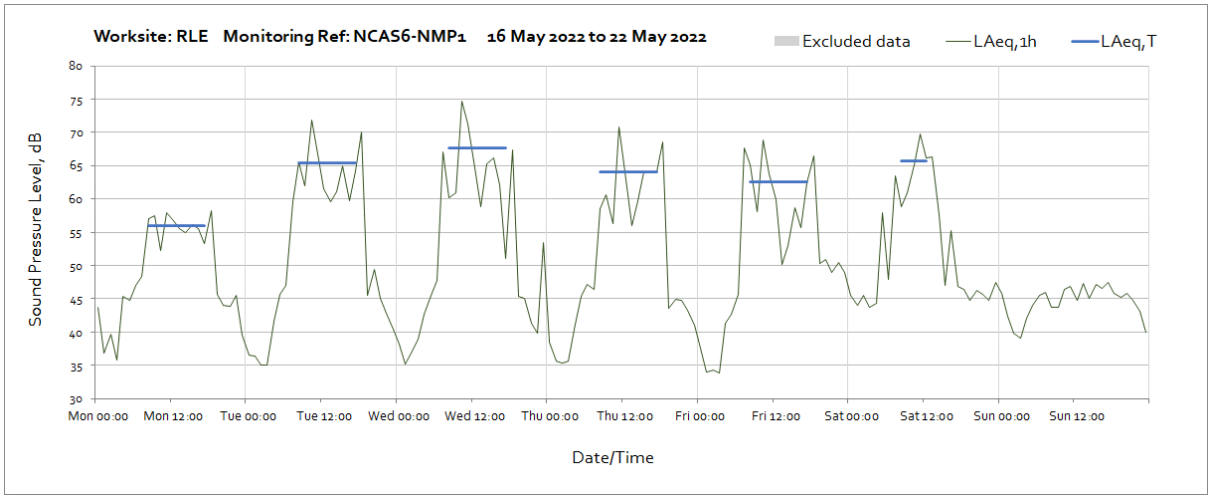


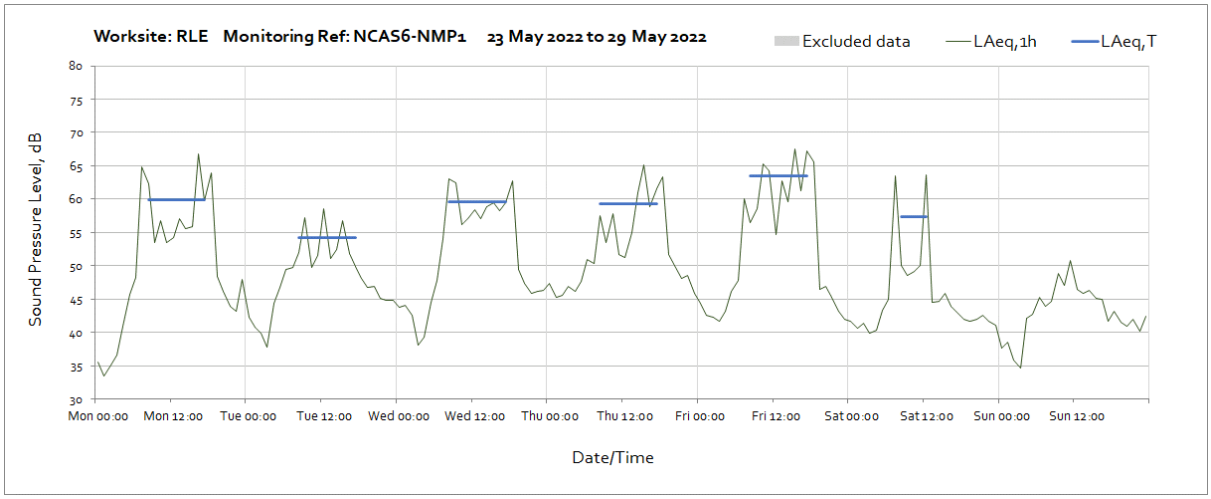
Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.

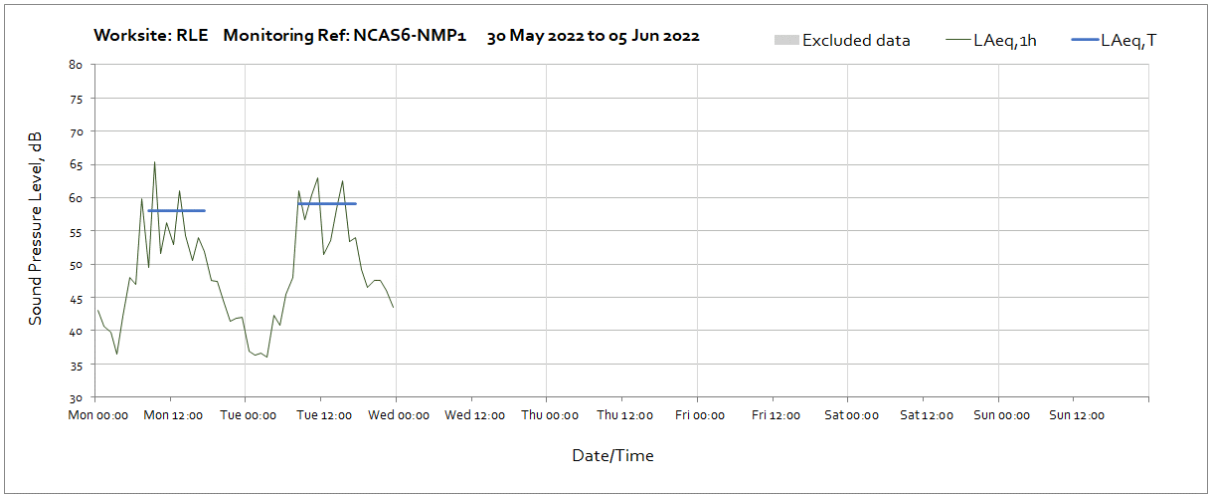


Note: Missing data at 14:00 on Wednesday 4th May and at 04:00 on Thursday 5th May were due to maintenance of the monitoring station and to a system glitch respectively.

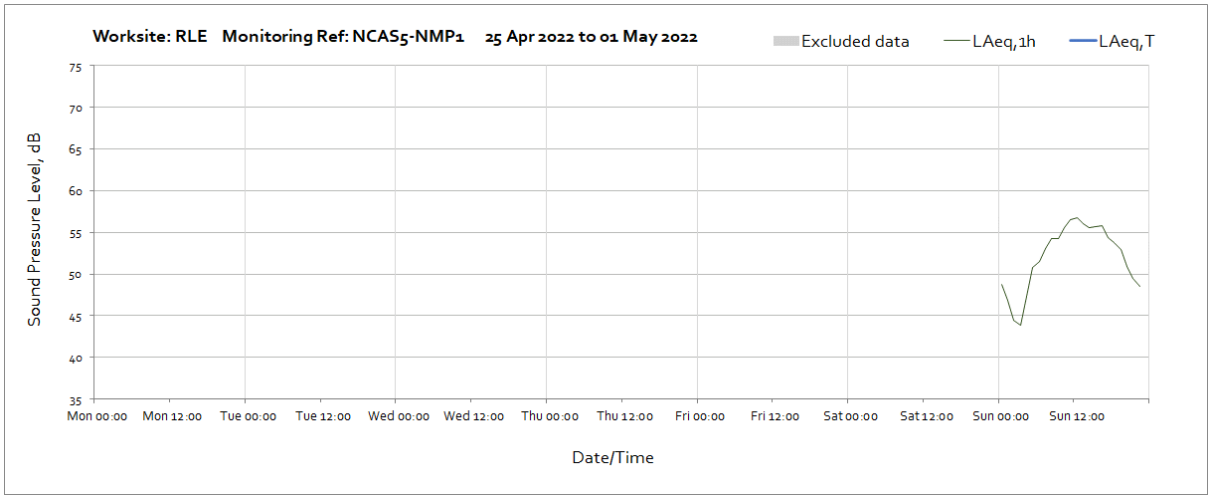




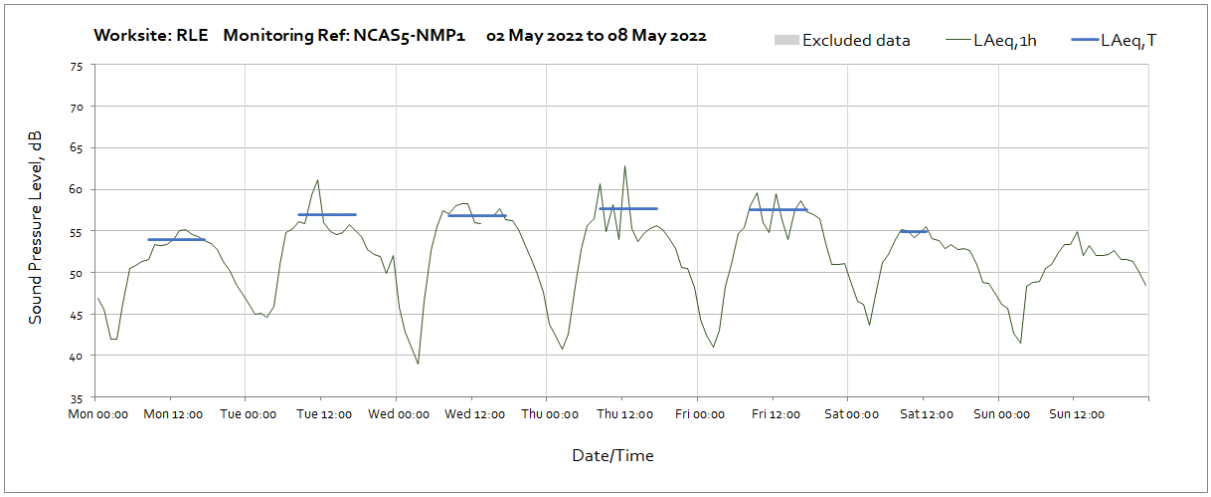




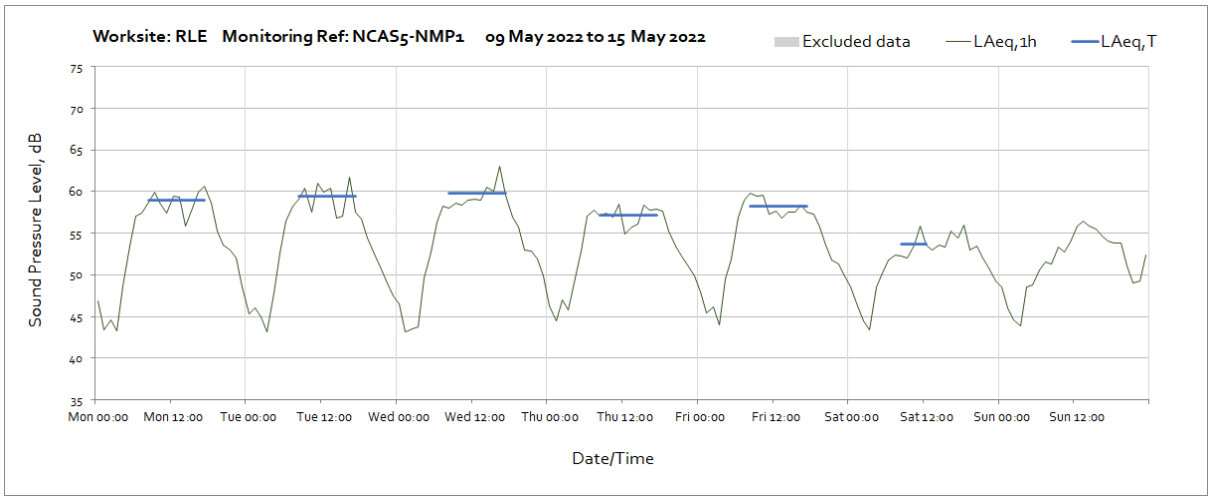
Worksite: RLE – Monitoring Ref: NCAS5-NMP1

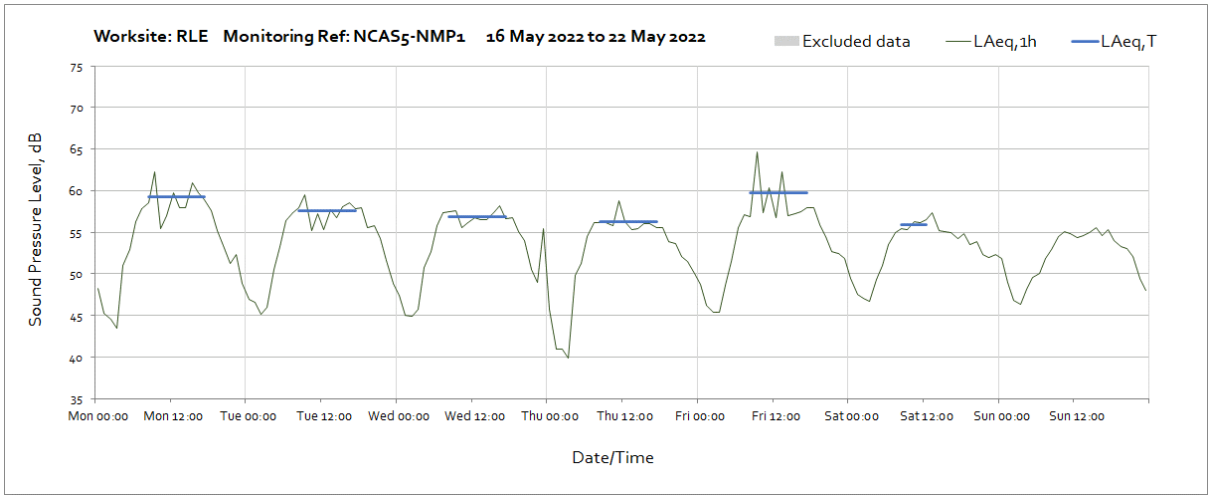


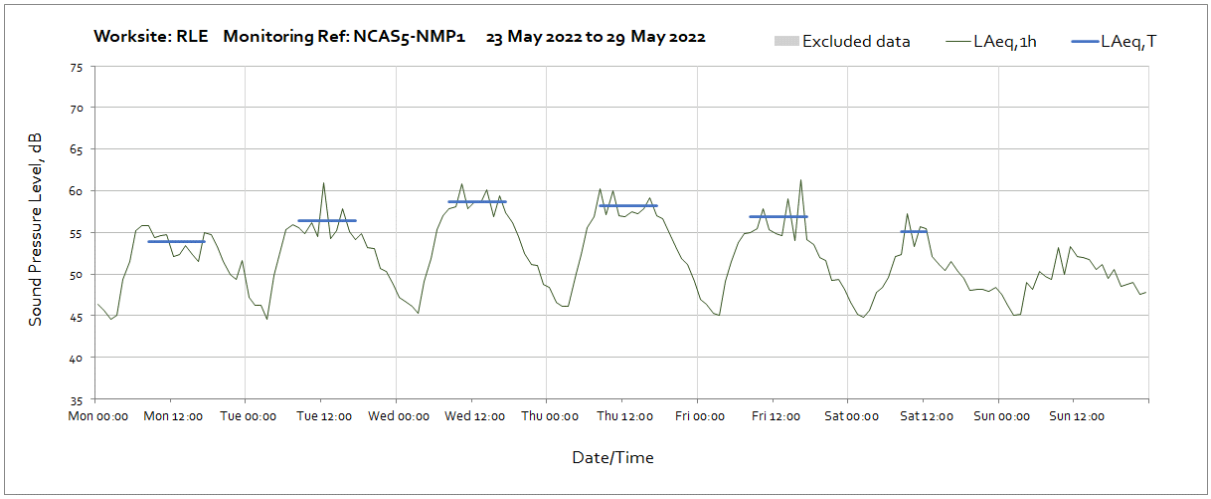
Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.

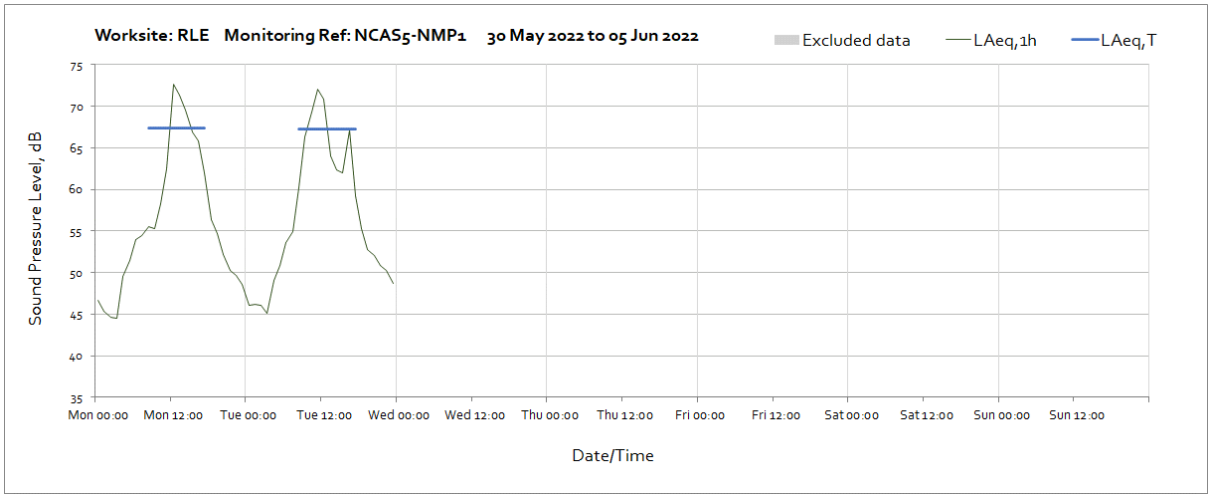


Note: Missing data at 14:00 on Wednesday 4th May were due to maintenance of the monitoring station.

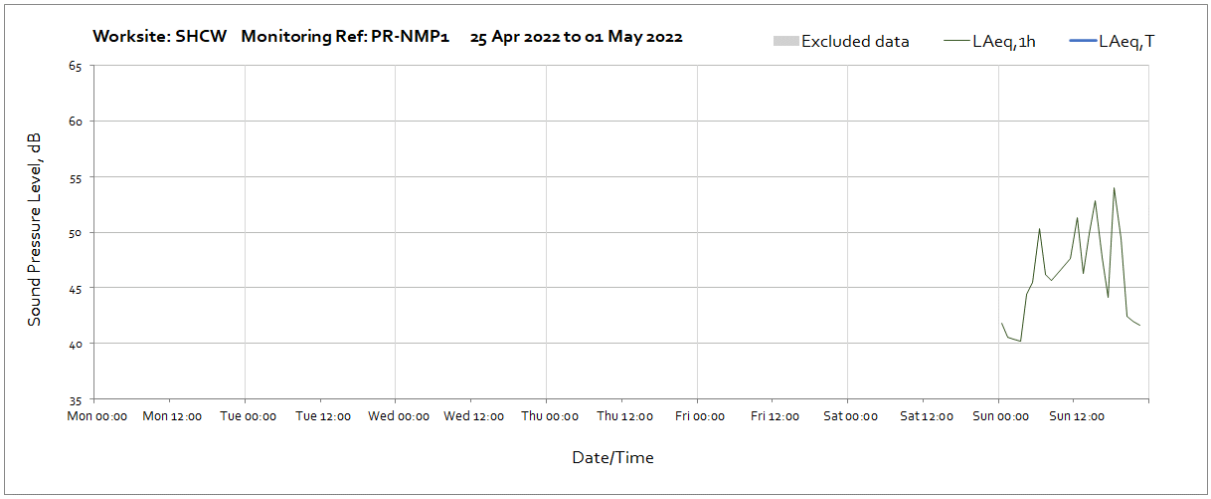




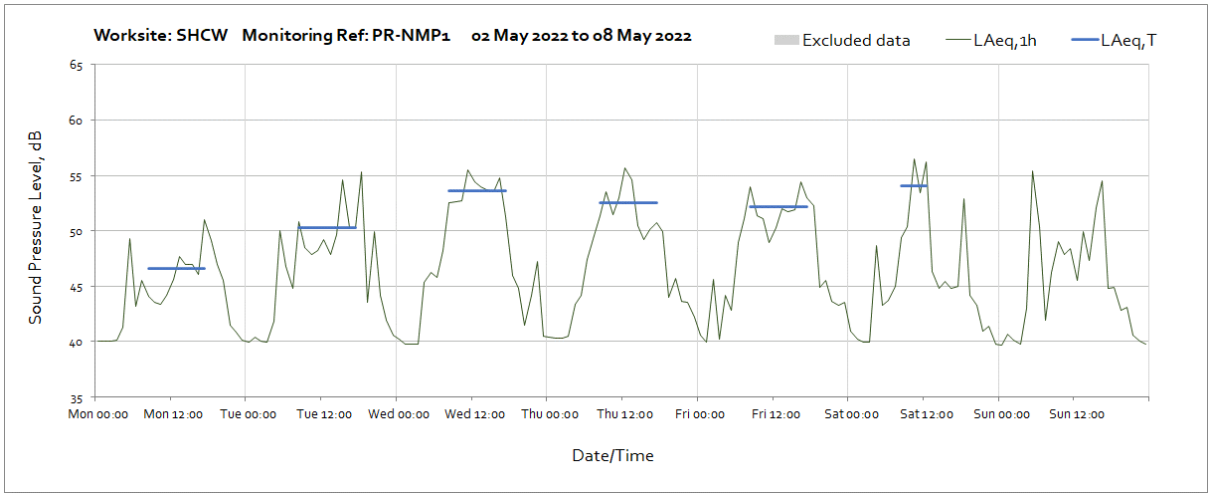


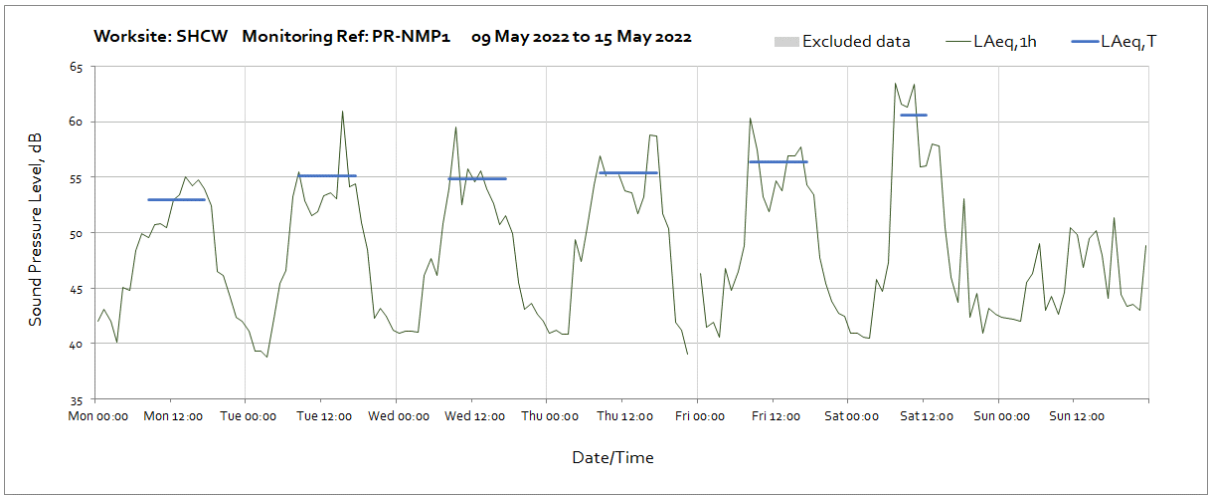


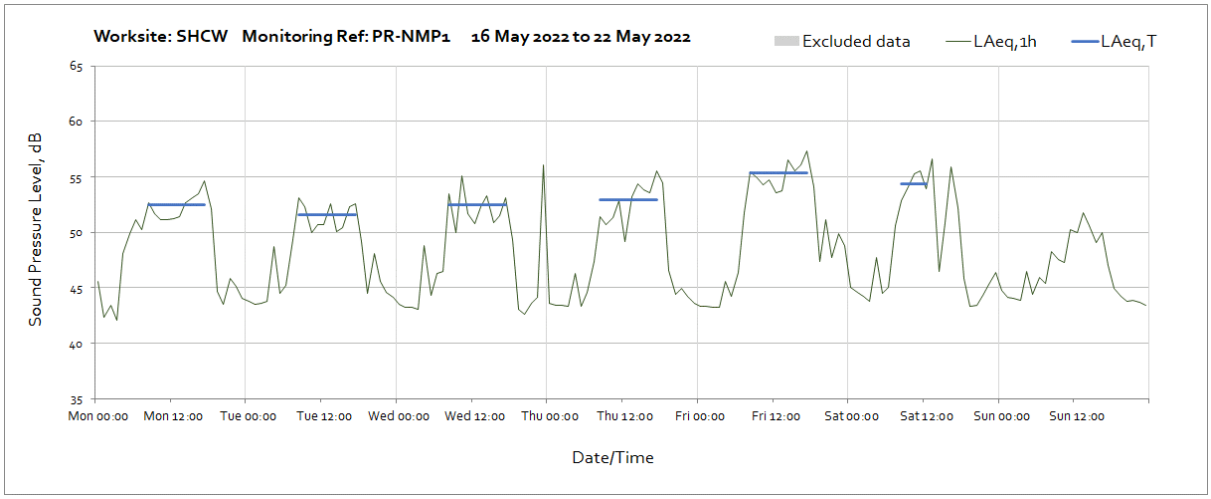
Worksite: SHCW – Monitoring Ref: PR-NMP1



Note: Missing data at 23:00 on Sunday 1st May were due to a system glitch.


Worksite: SHCW Monitoring Ref: PR-NMP1 02 May 2022 to 08 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
65
60
55
50
45
40
35
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: SHCW Monitoring Ref: PR-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
65
60
55
50
45
40
35
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: SHCW Monitoring Ref: PR-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
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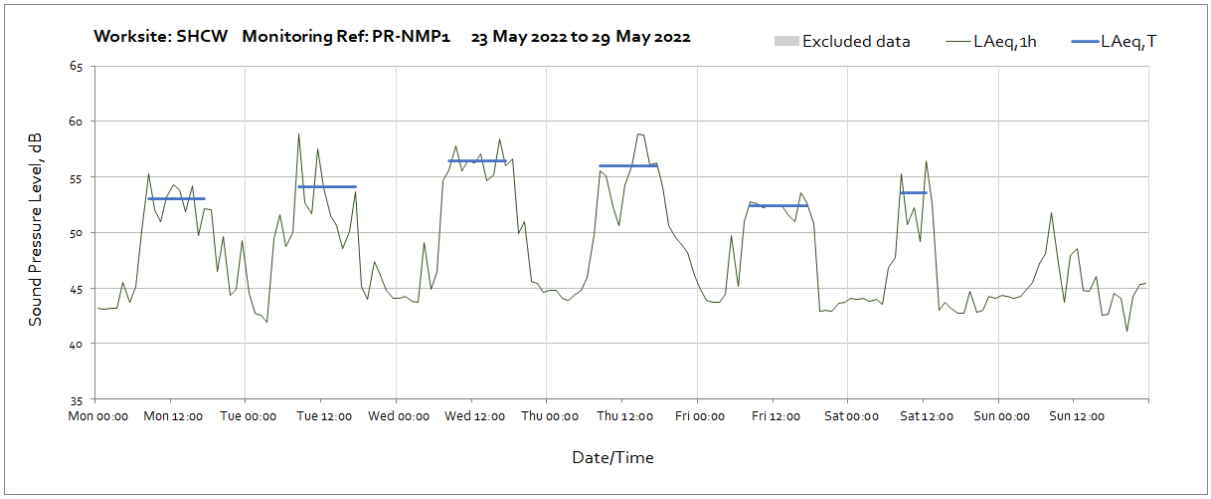
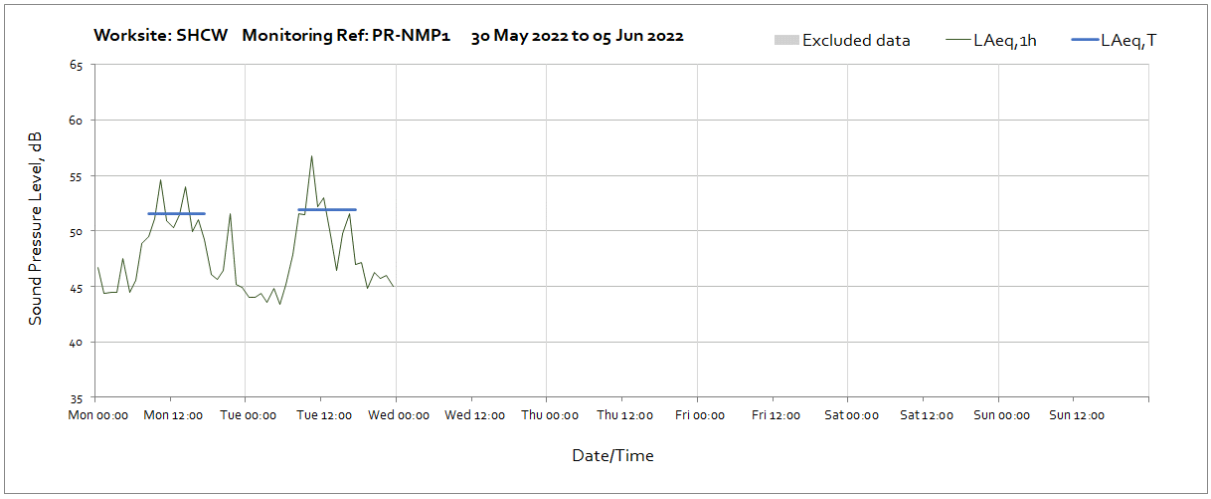
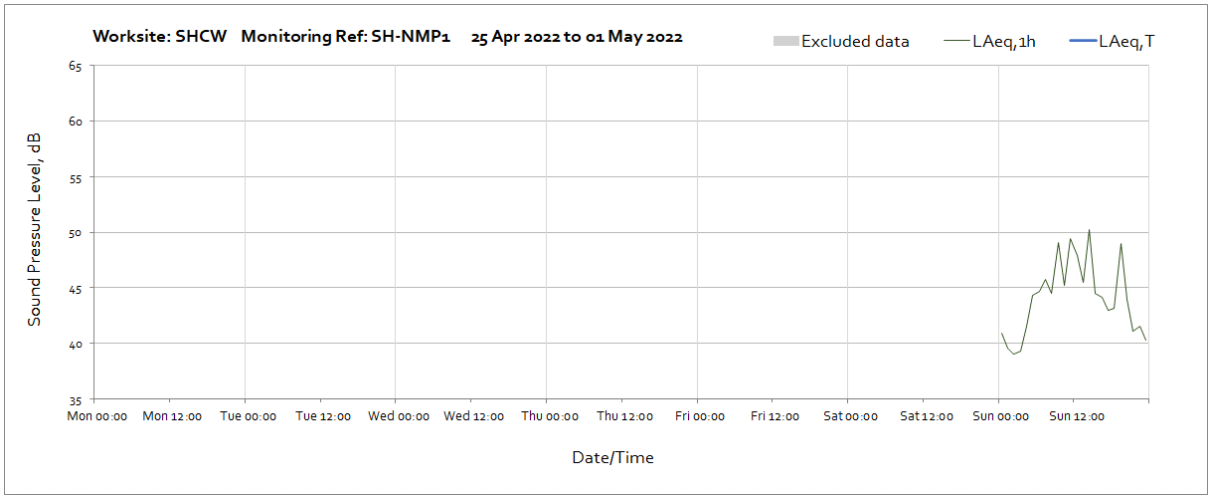
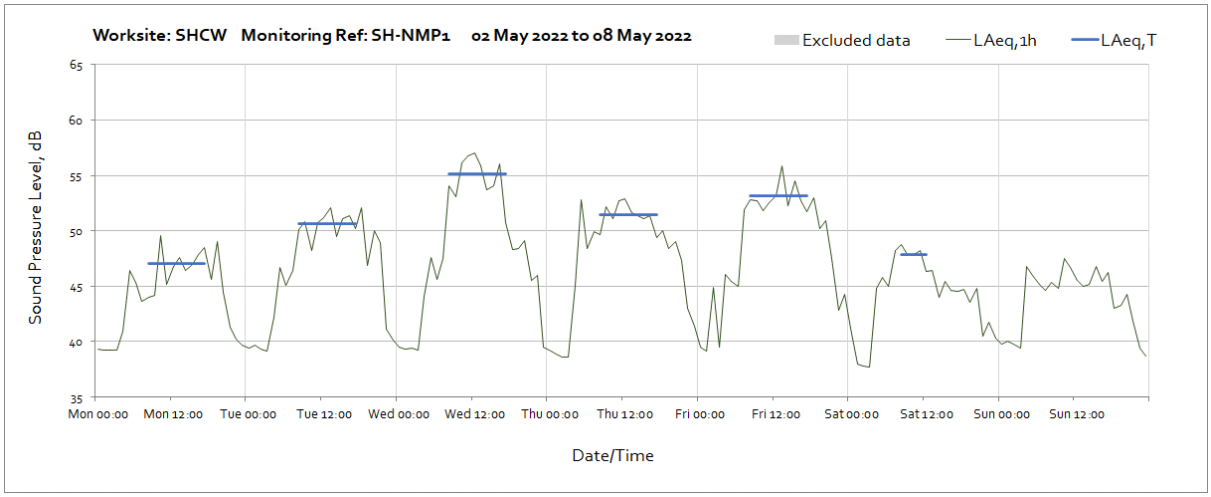
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

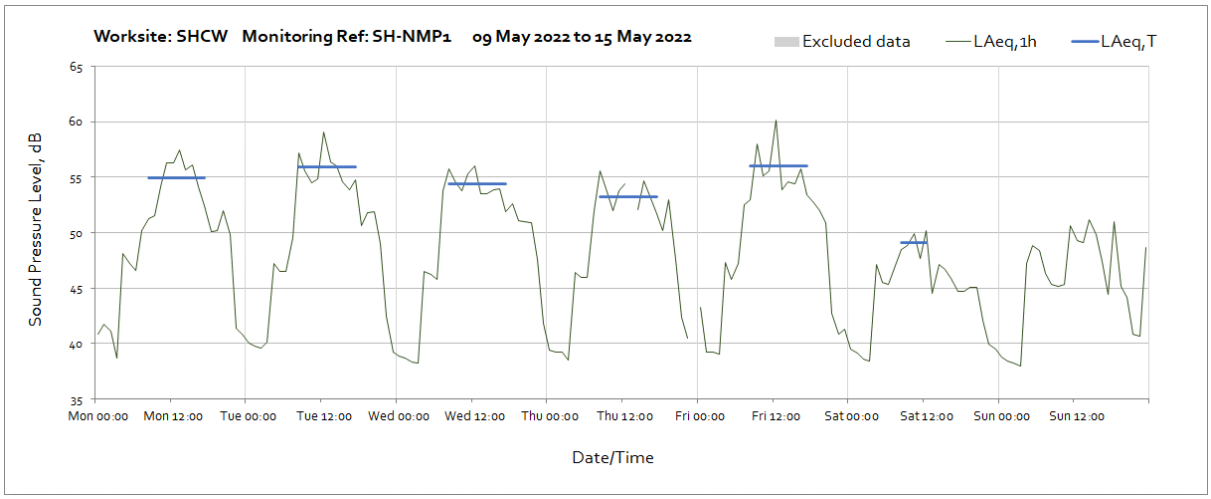




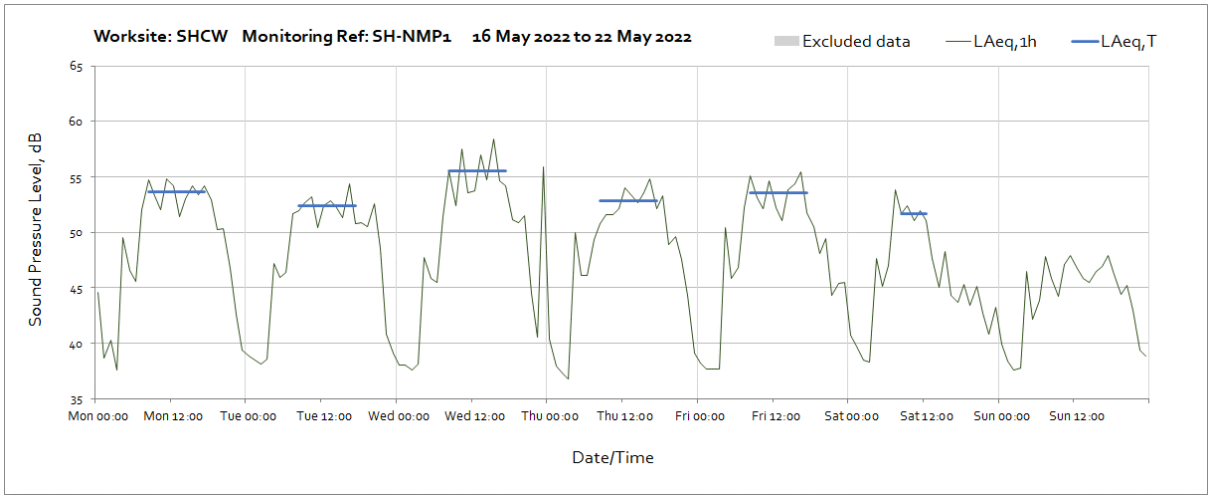
Worksite: SHCW – Monitoring Ref: SH-NMP1

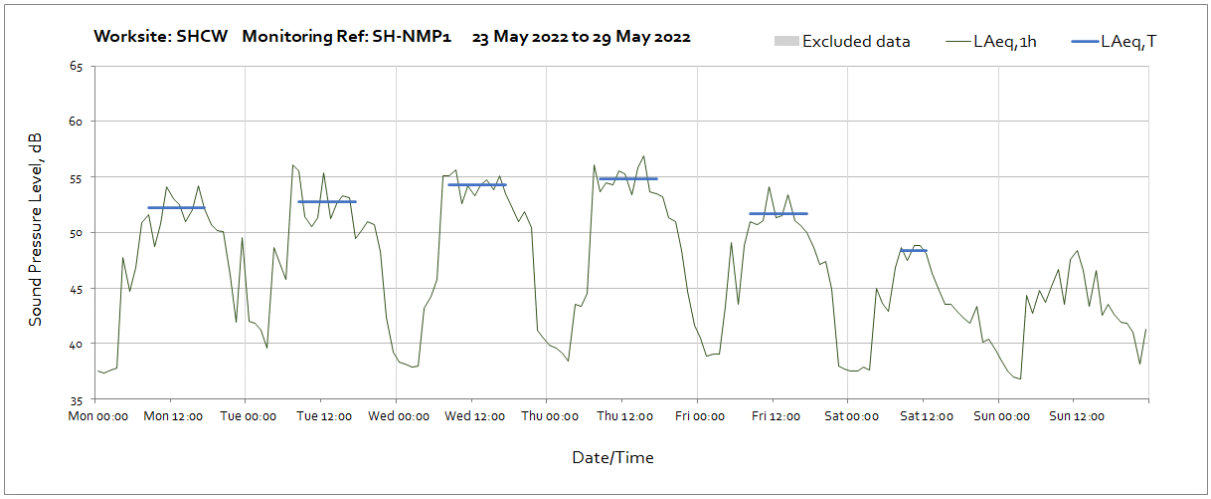


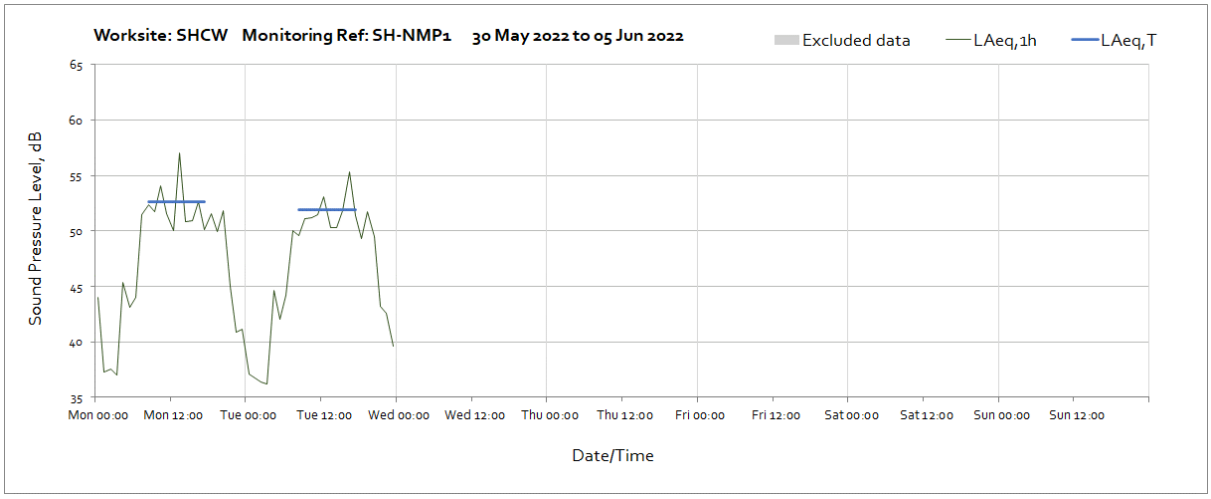




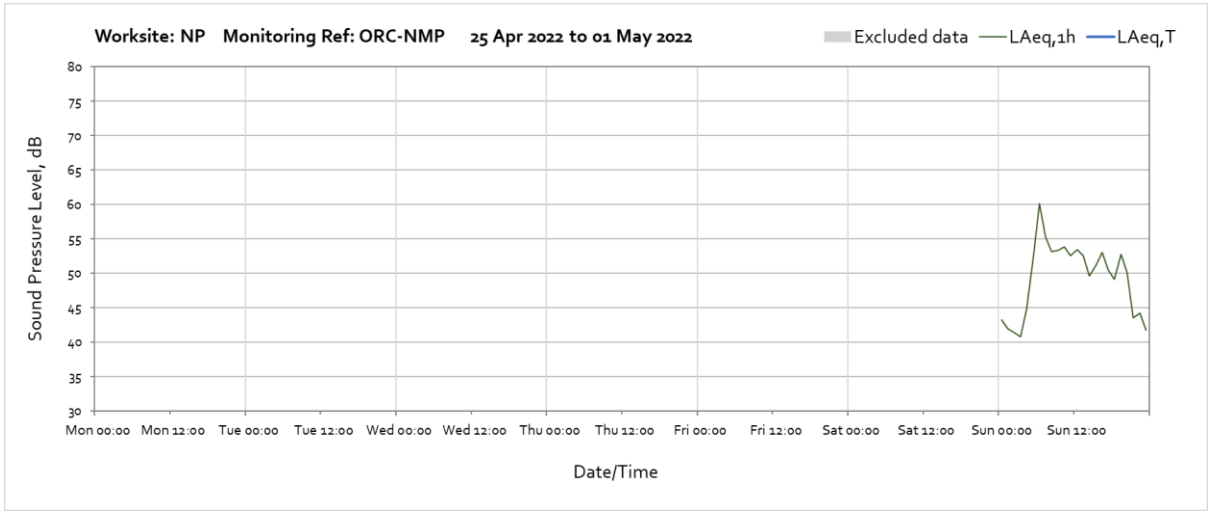
Note: Missing data at 13:00 on Thursday 12th May were due to maintenance of the monitoring station.

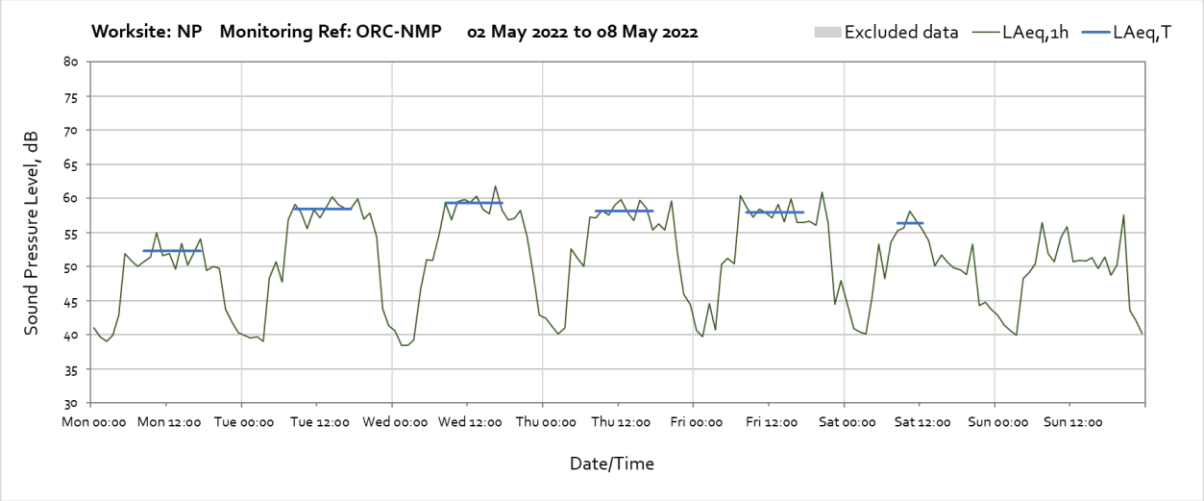






Worksite: NP – Monitoring Ref: ORC-NMP1




Worksite: NP Monitoring Ref: ORC-NMP 02 May 2022 to 08 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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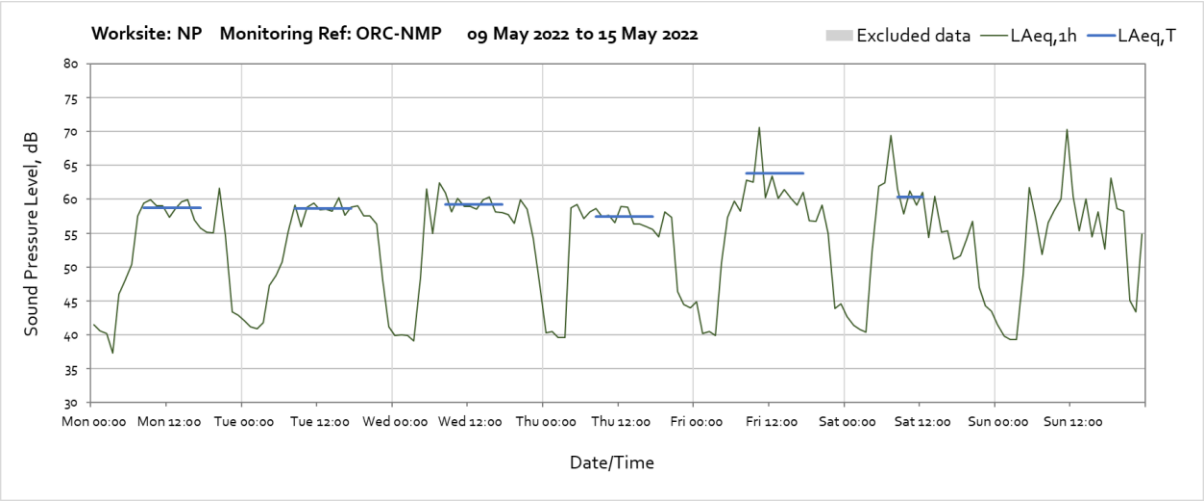
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: NP Monitoring Ref: ORC-NMP 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
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Fri 00:00
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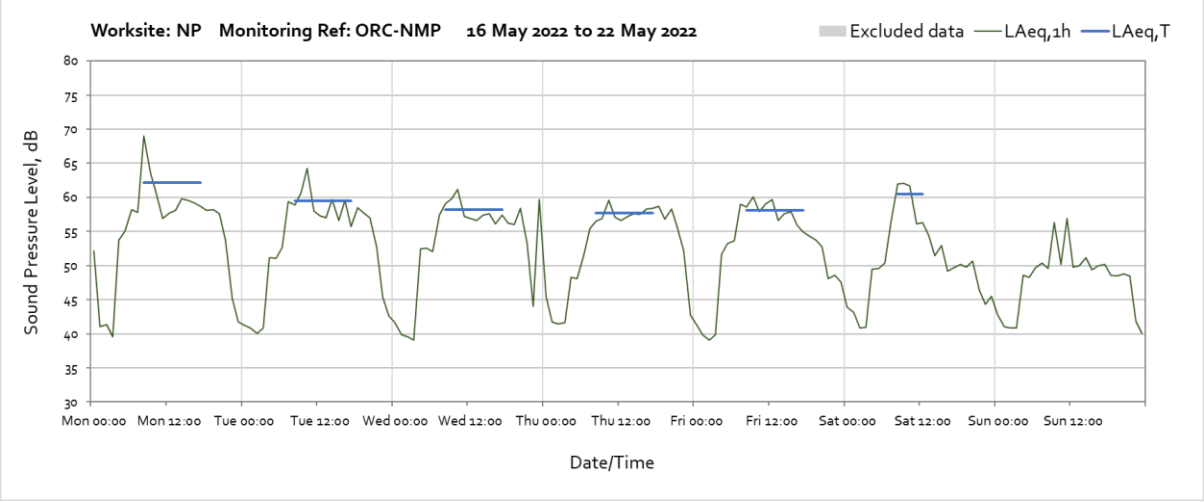
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: NP Monitoring Ref: ORC-NMP 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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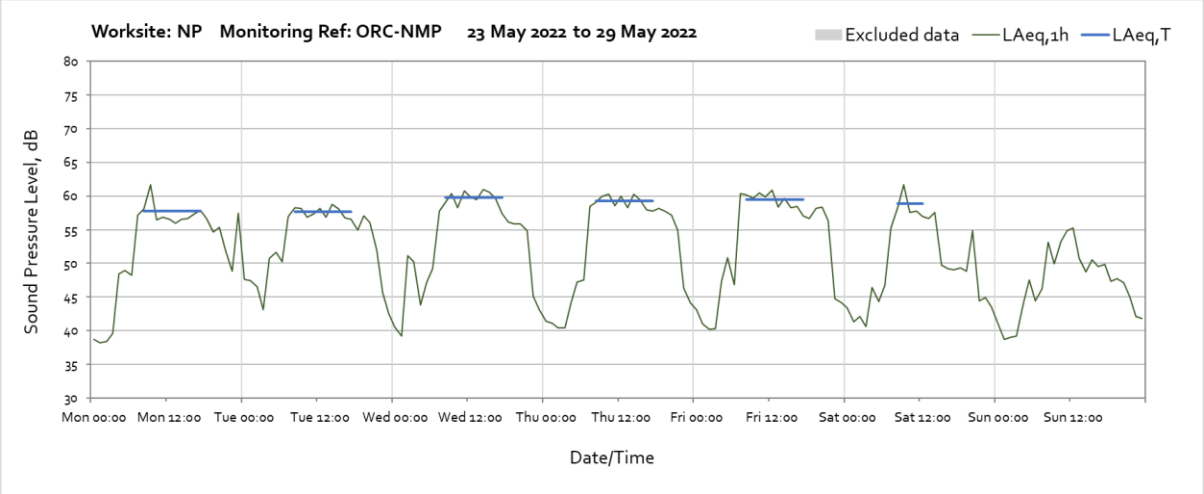
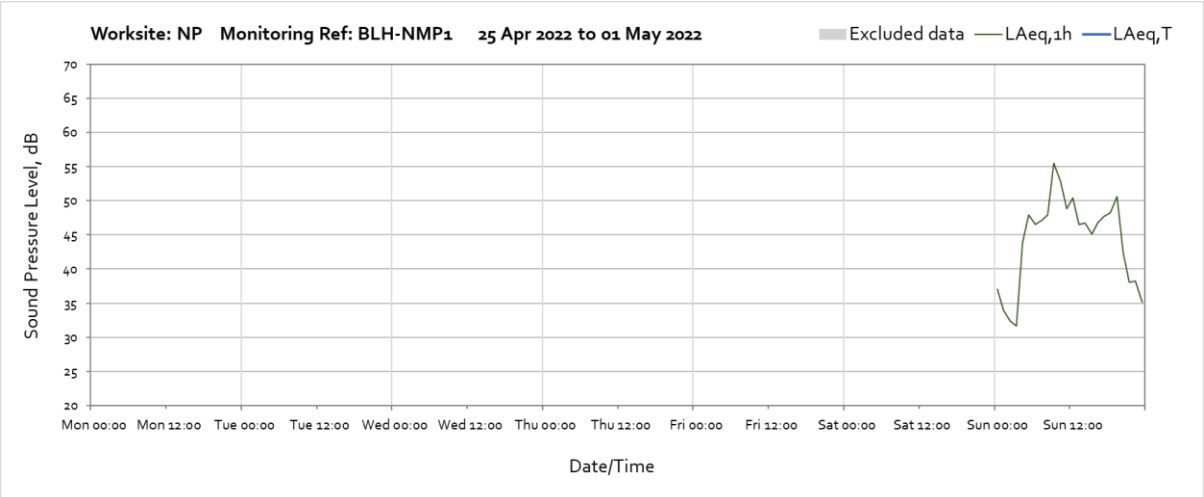
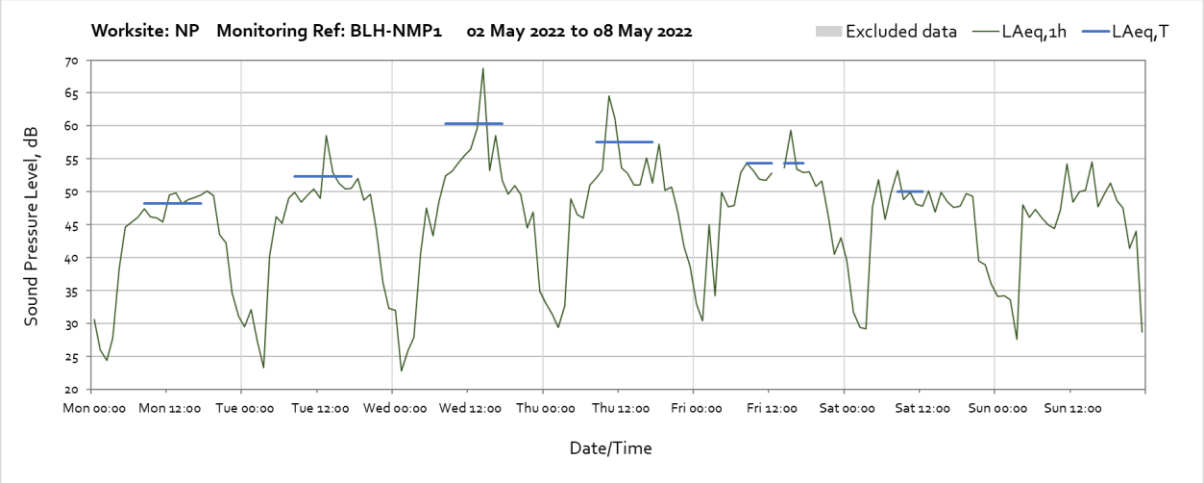
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

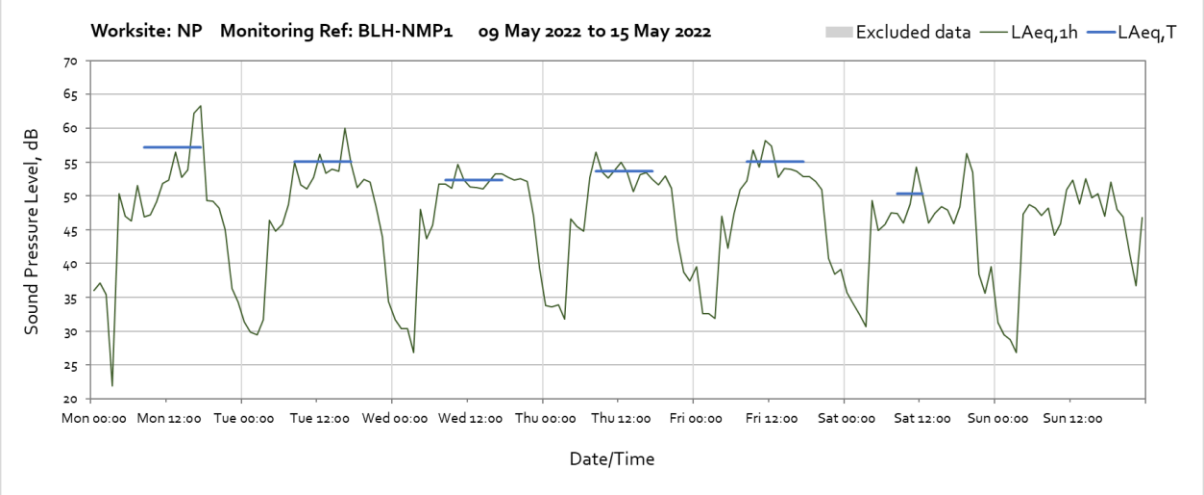


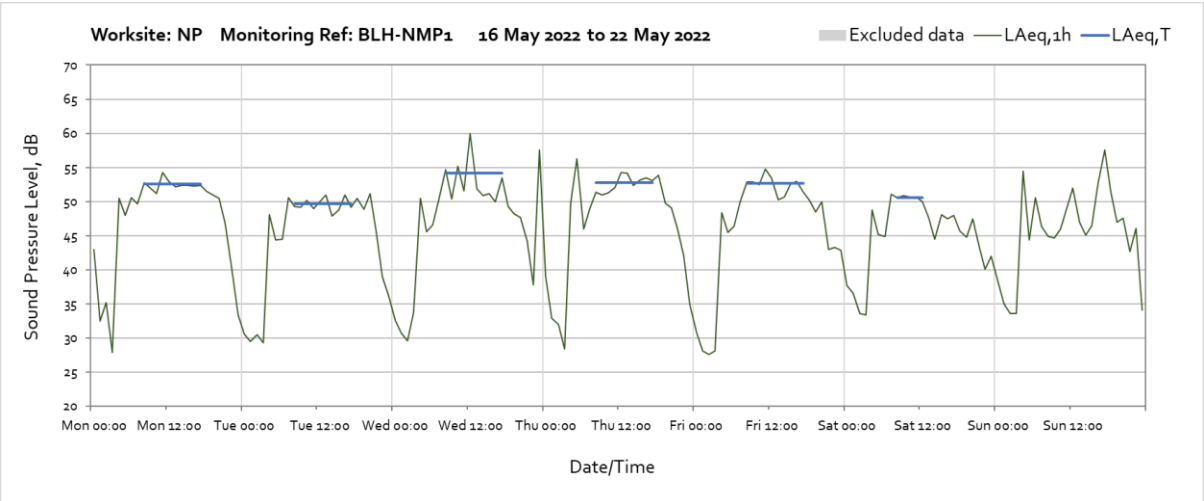
Worksite: NP – Monitoring Ref: BLH-NMP1

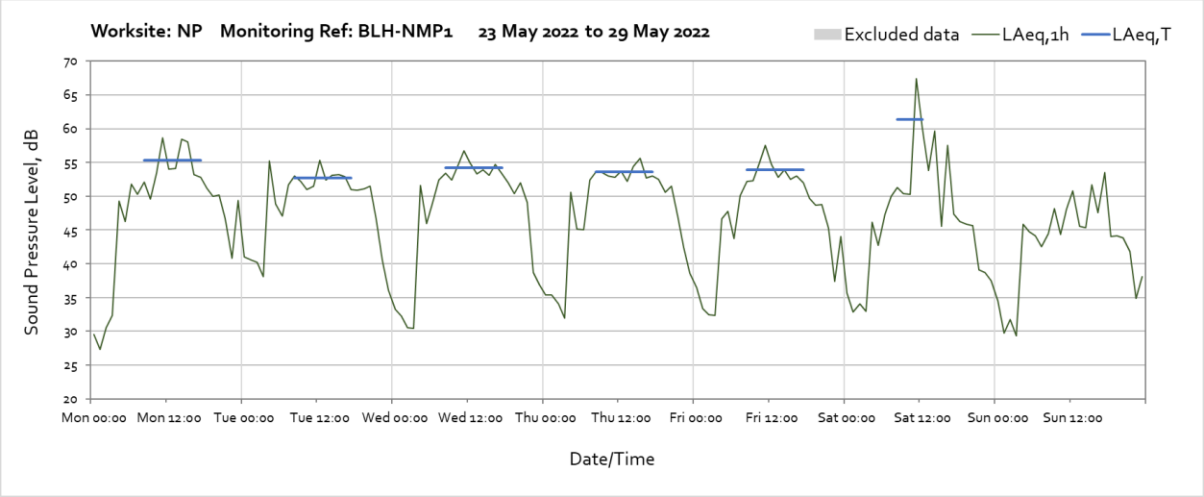


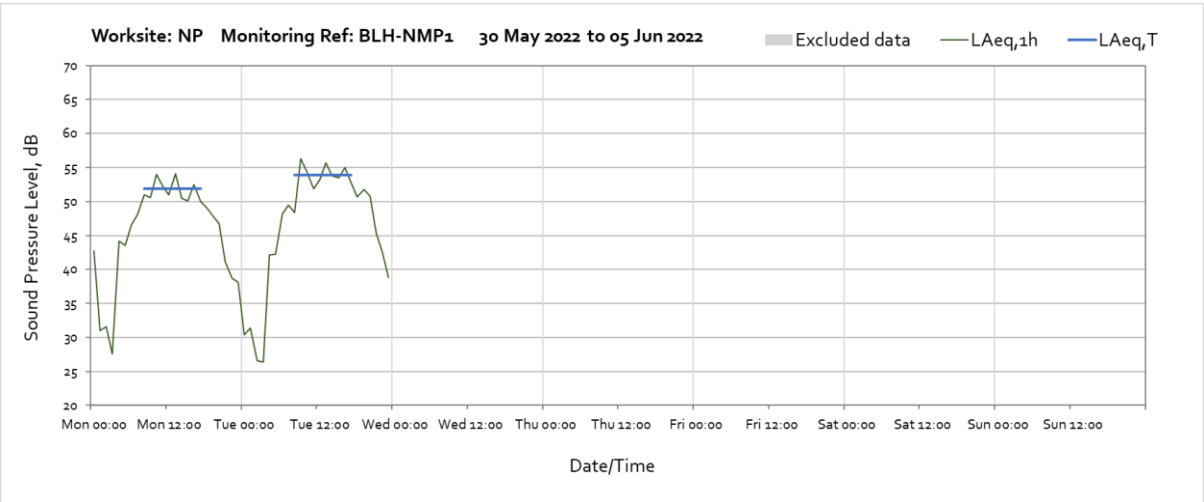


Note: Missing data between 13:00 and 14:00 on 6th May was due to monitor maintenance.

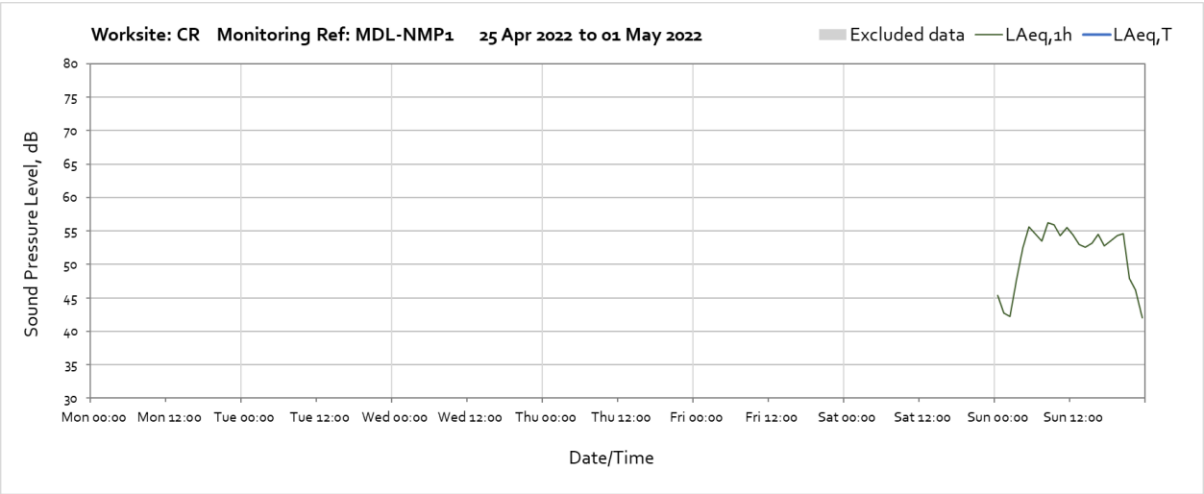


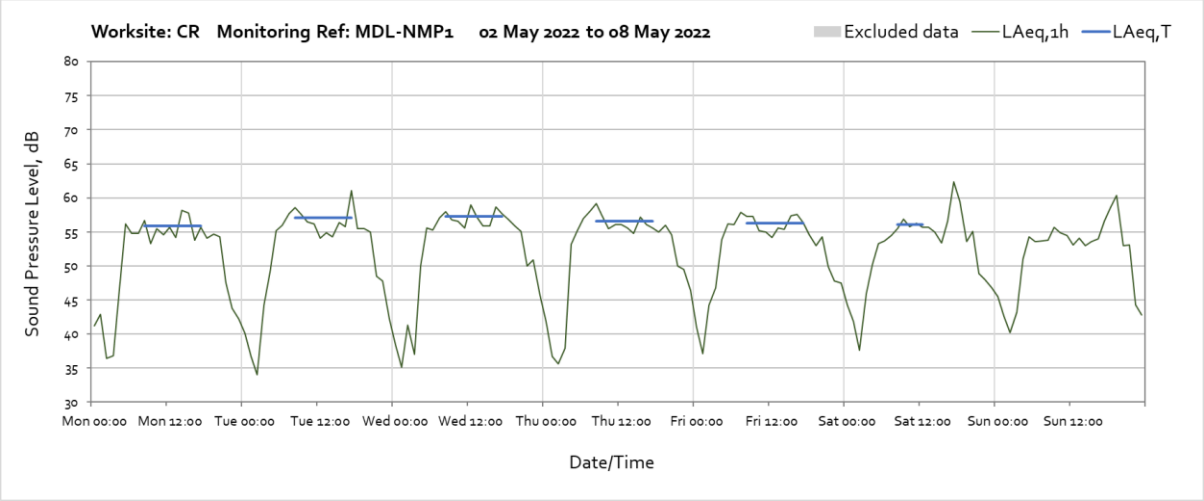


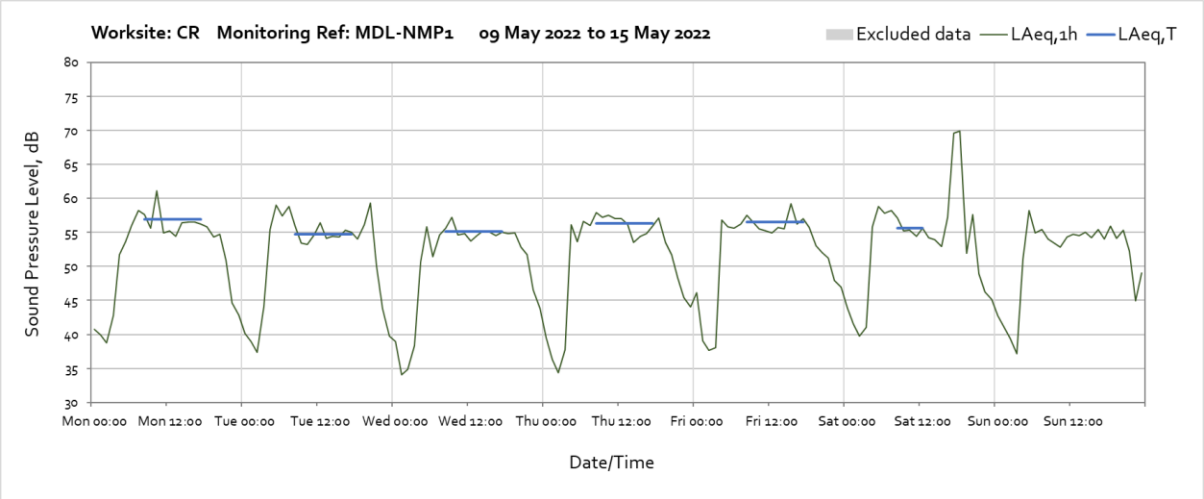


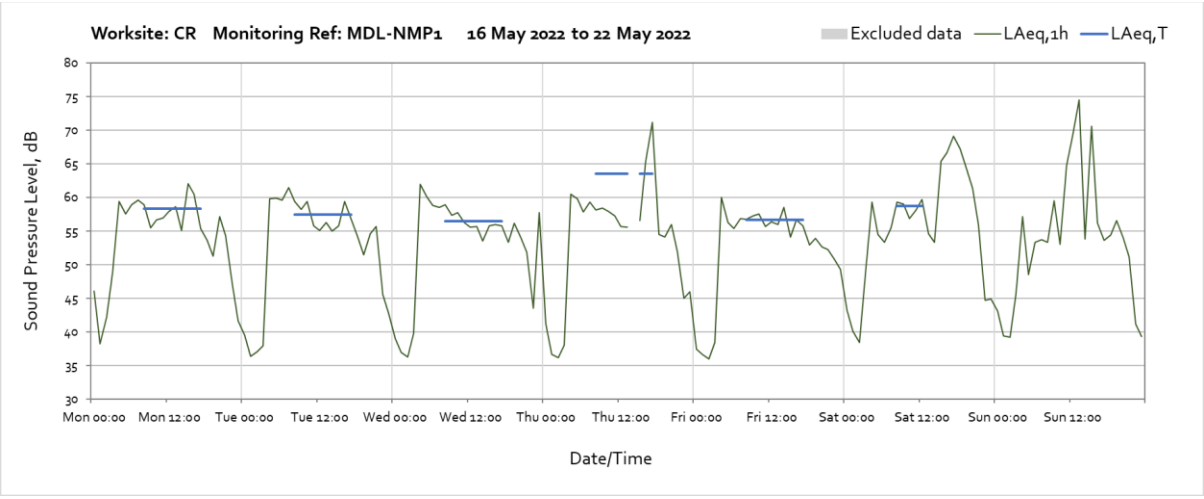


Worksite: CR – Monitoring Ref: MDL-NMP1

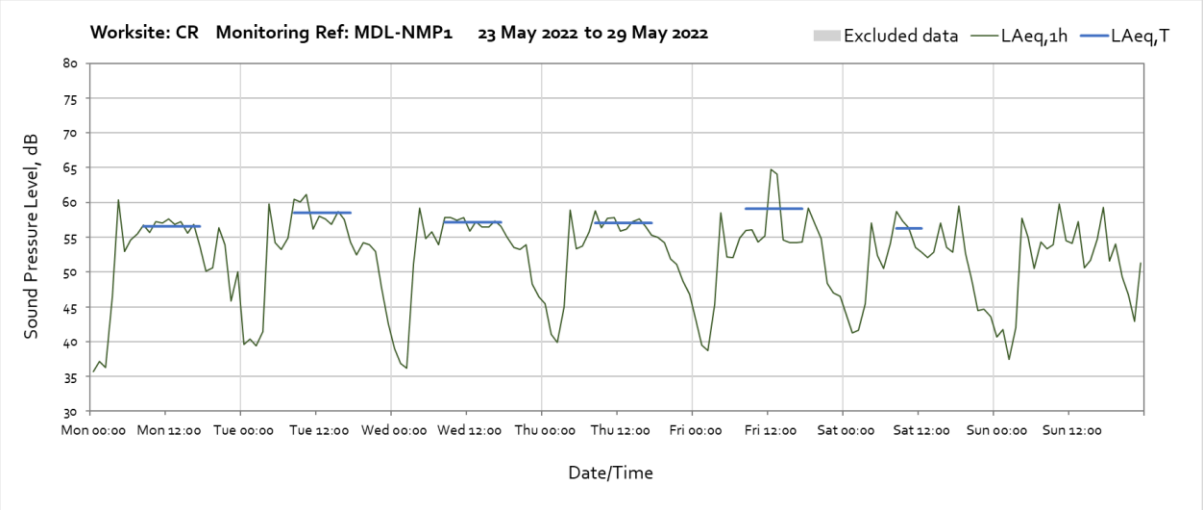


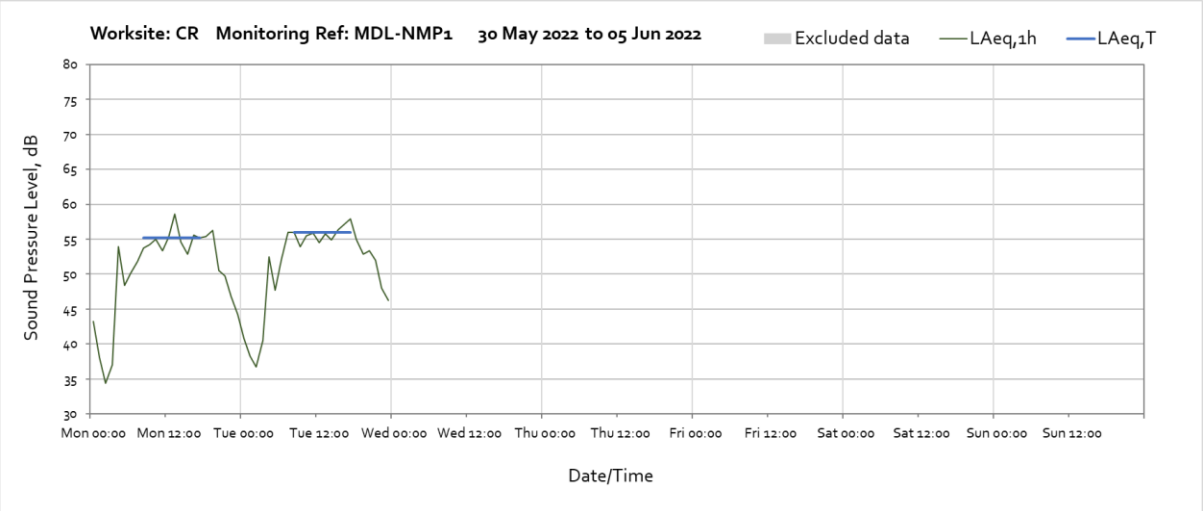




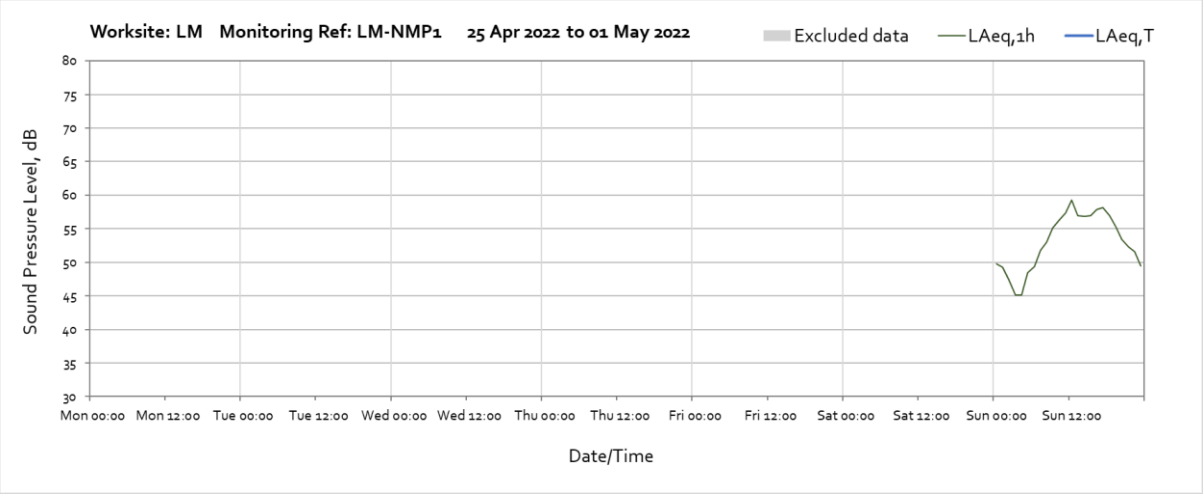


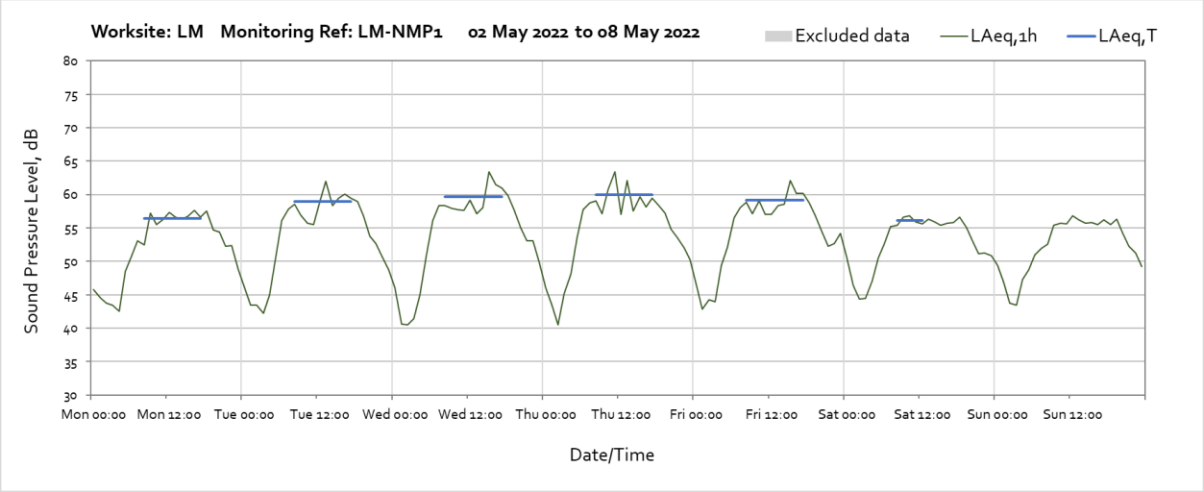
Note: Missing data between 01:00 and 02:00wsa due to monitor settings update.

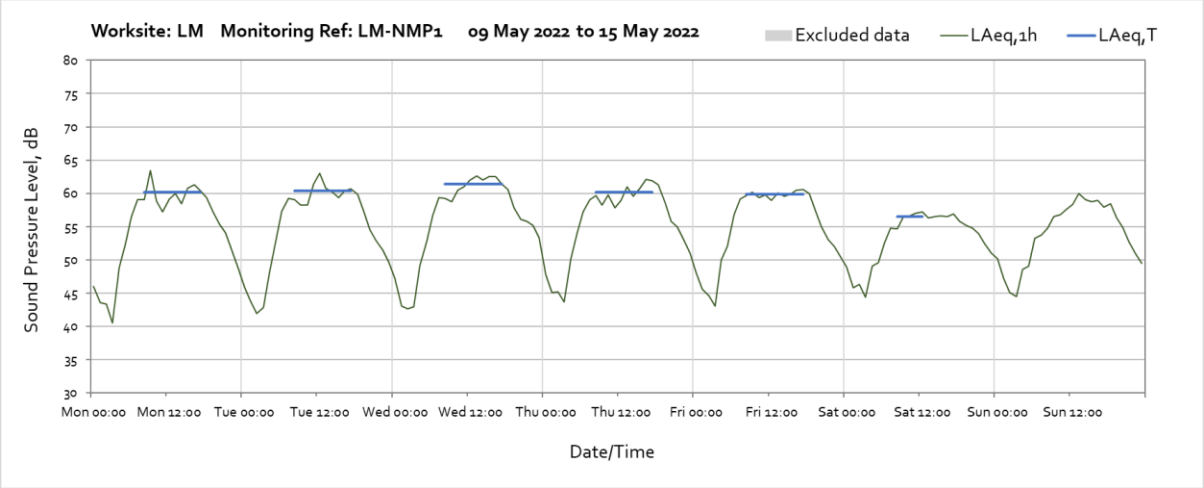


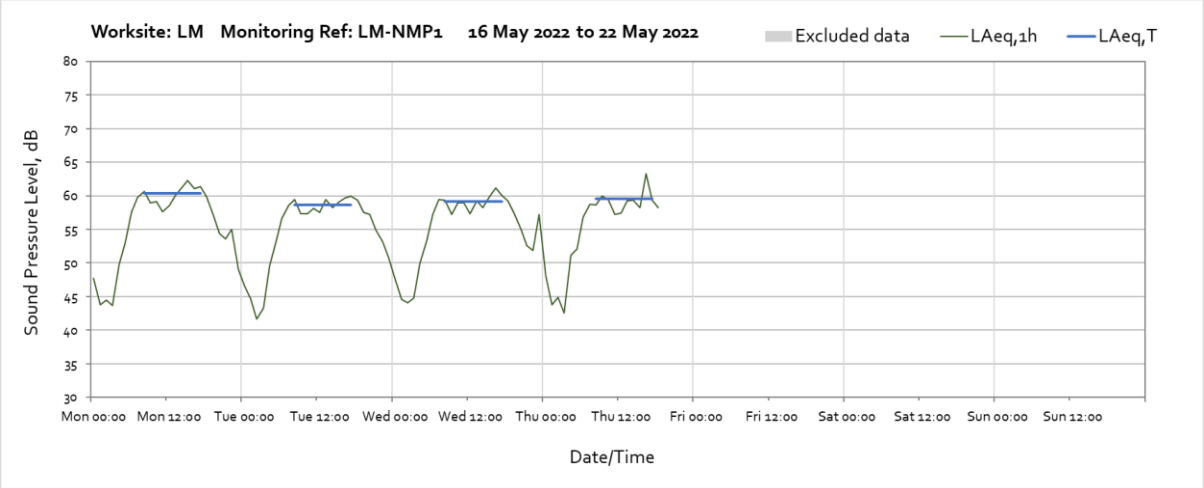


Worksite: LM – Monitoring Ref: LM-NMP1

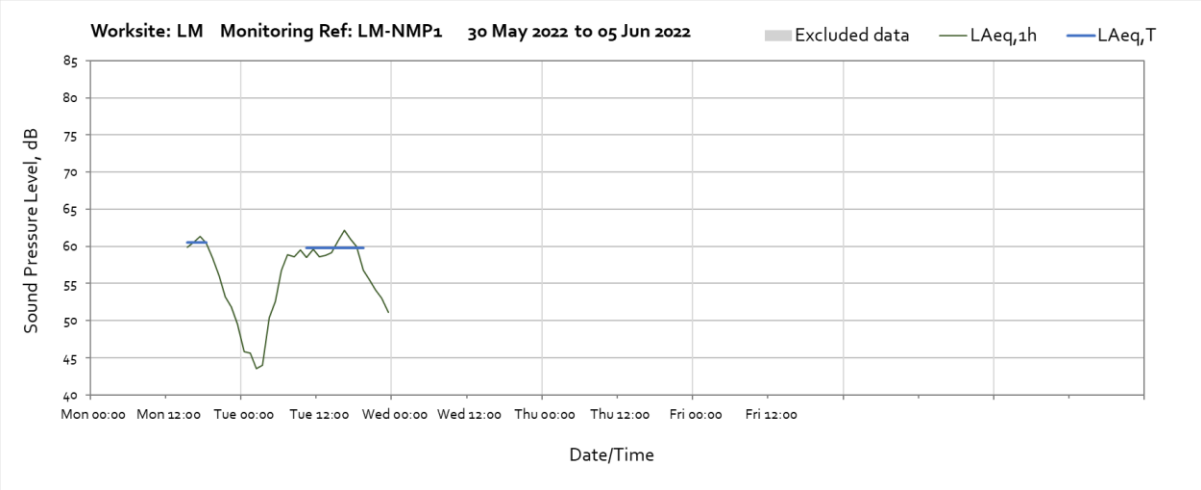






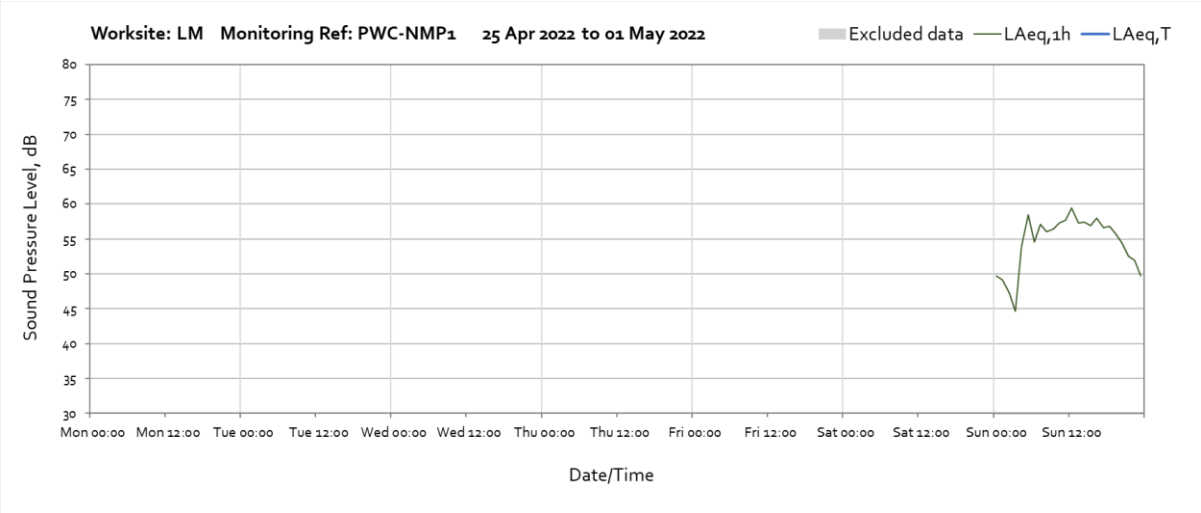


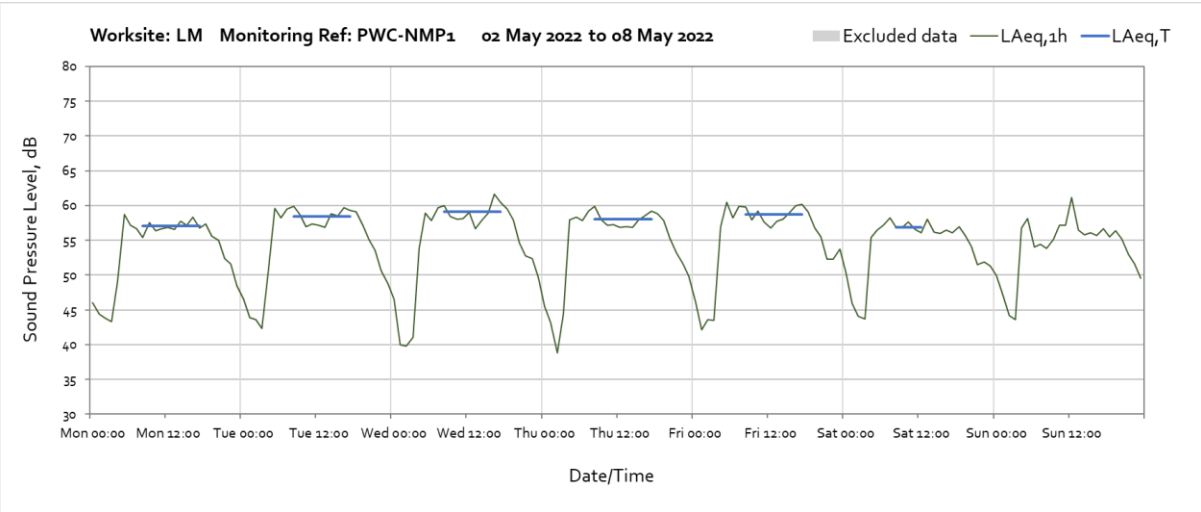
Note: Missing data between 19th June at 19:00 till 30th June at 15:00 was due to a broken power cable which has now been replaced.

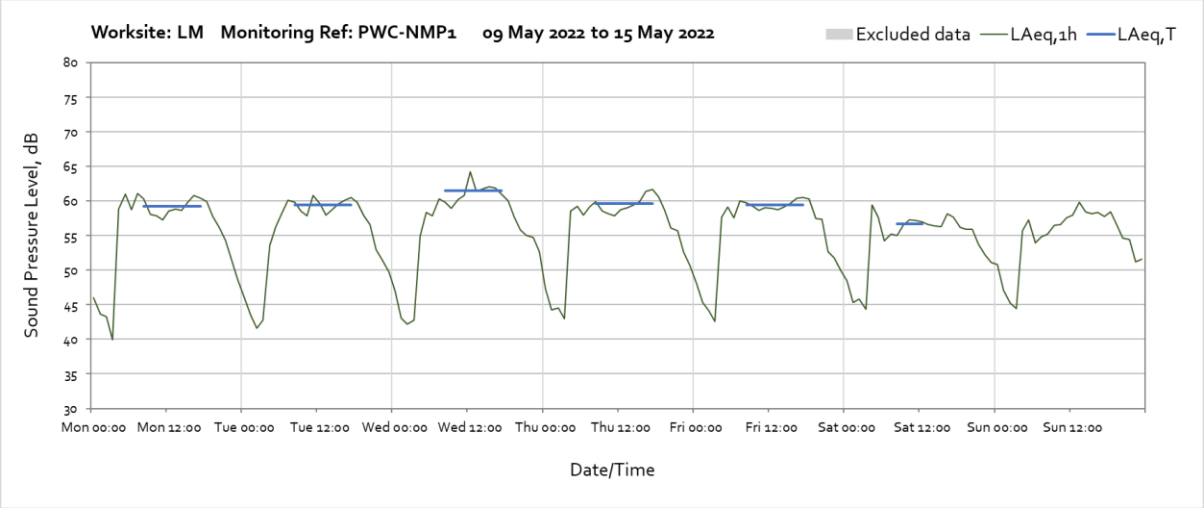


Note: Missing data between 19th June at 19:00 till 30th June at 15:00 was due to a broken power cable which has now been replaced.

Worksite: LM – Monitoring Ref: PWC-NMP1






Worksite: LM Monitoring Ref: PWC-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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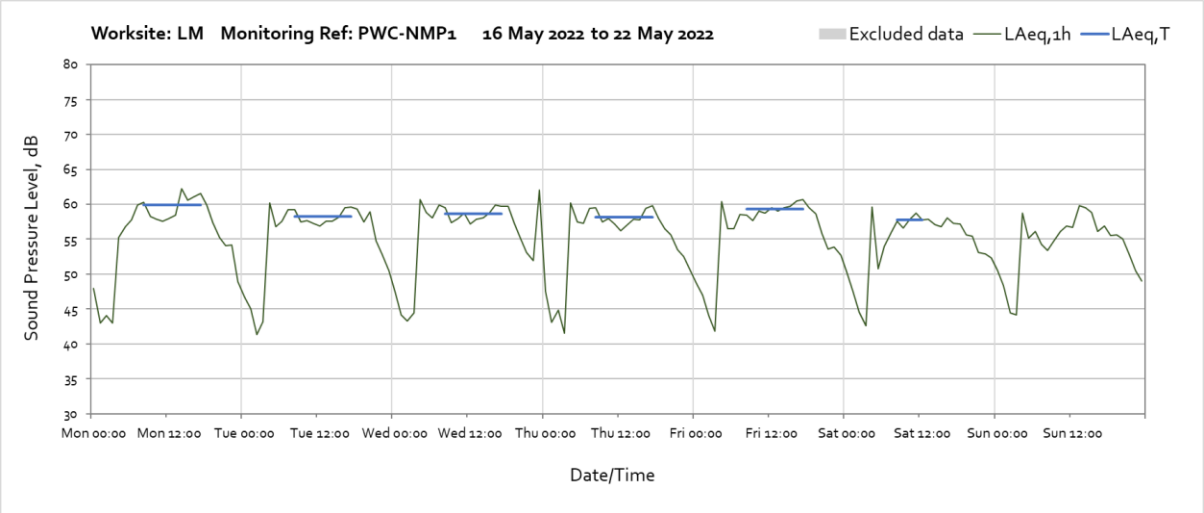
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: LM Monitoring Ref: PWC-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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Thu 12:00
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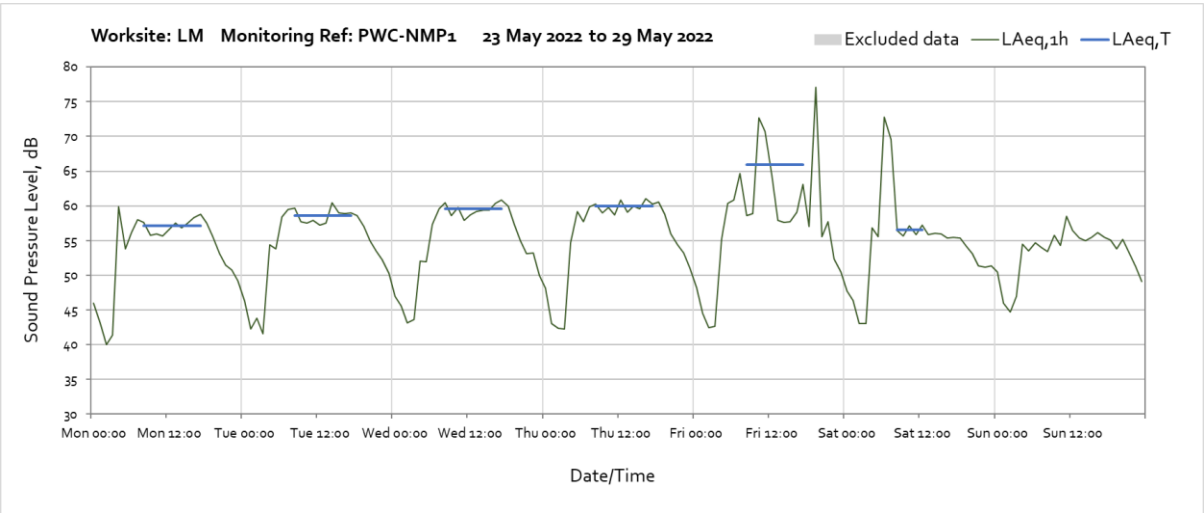
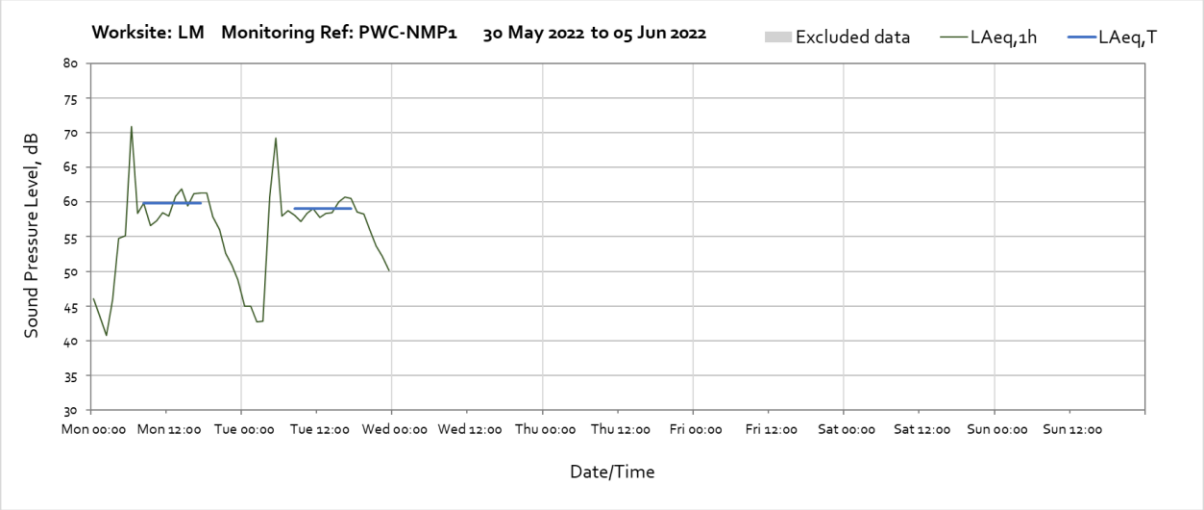
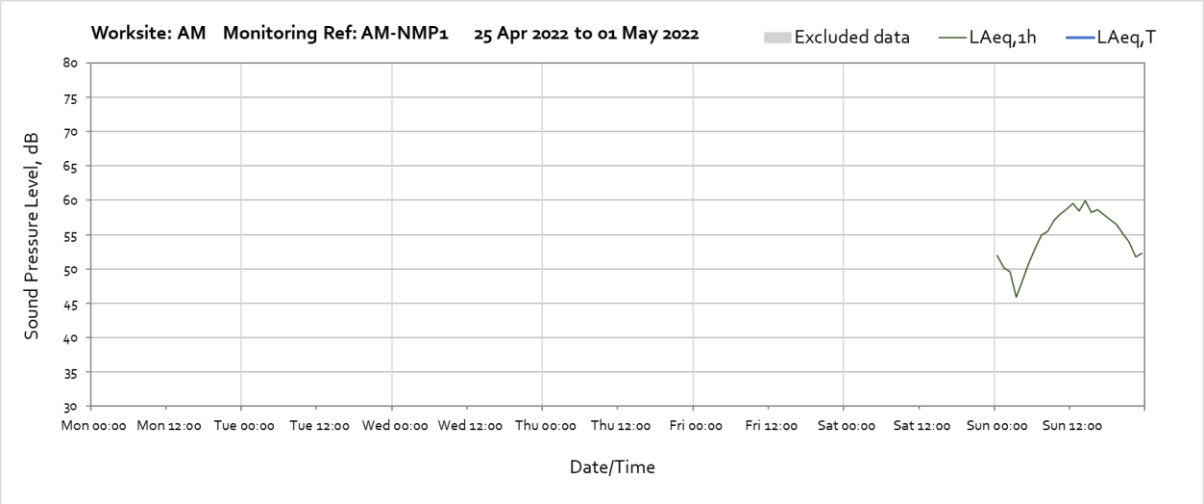
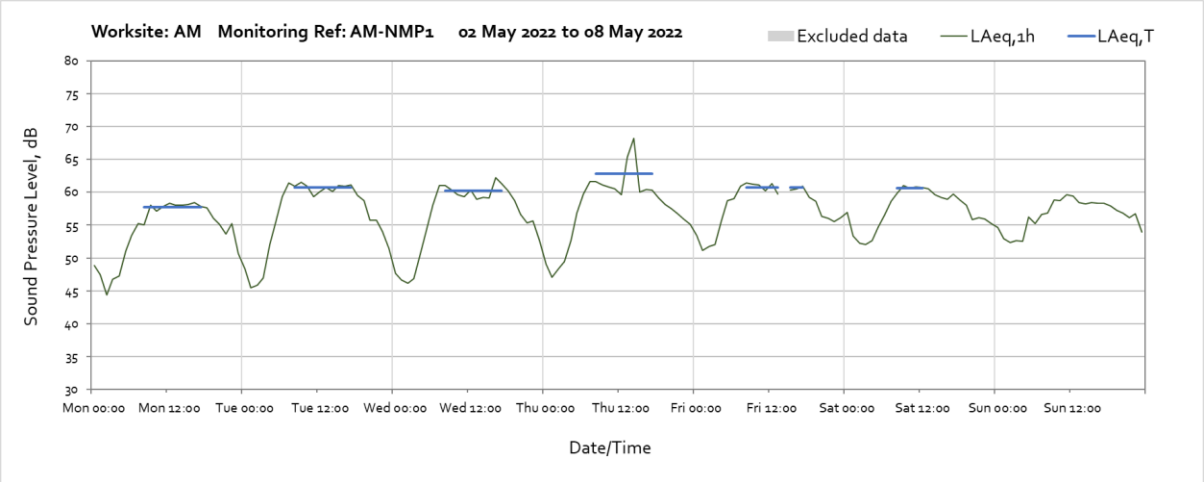
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: LM Monitoring Ref: PWC-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
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

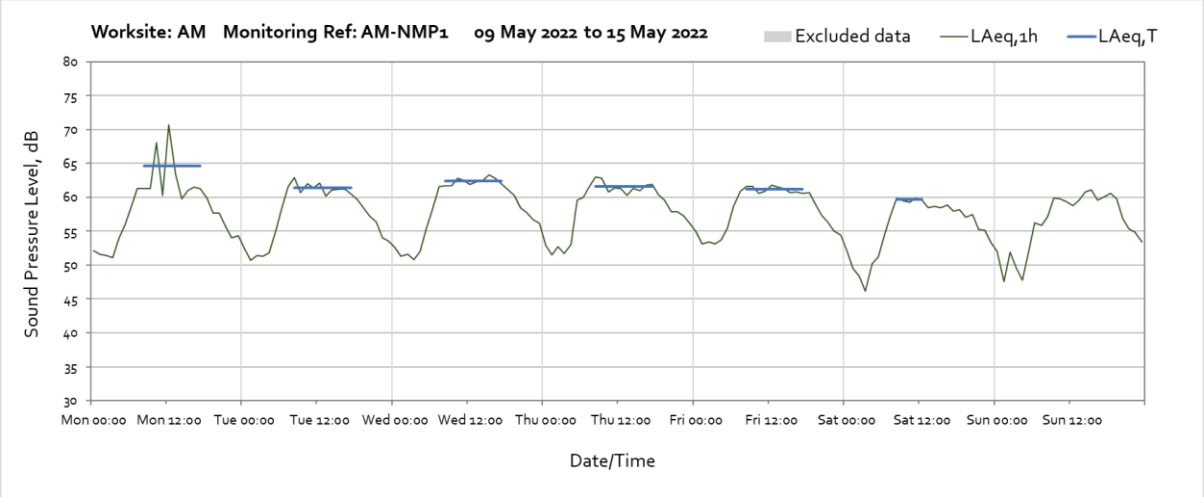


Worksite: AM – Monitoring Ref: AM-NMP1





Note: Missing data between 14:00 and 15:00 on 6th May was due to monitor field calibration.


Worksite: AM Monitoring Ref: AM-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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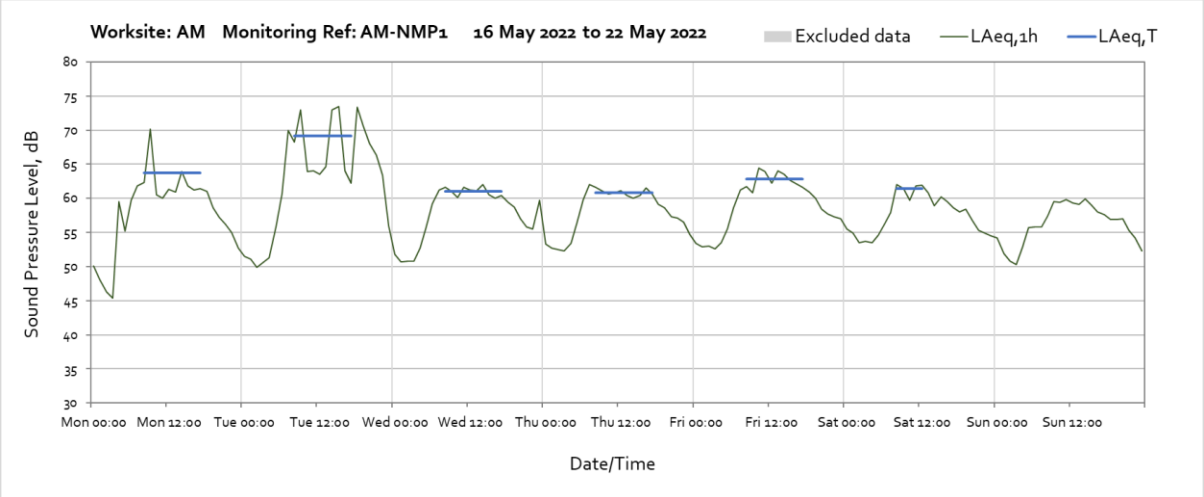
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: AM Monitoring Ref: AM-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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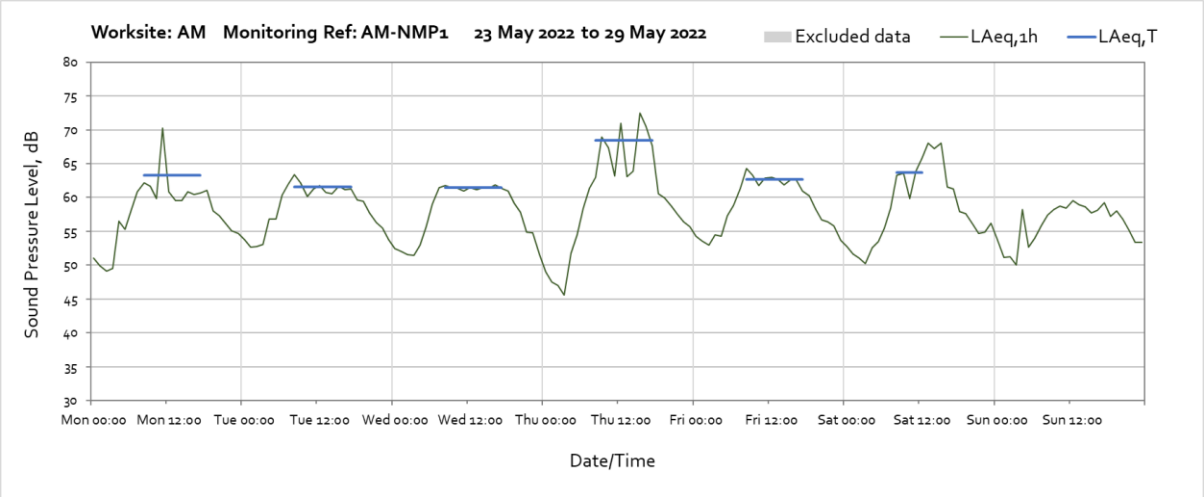
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: AM Monitoring Ref: AM-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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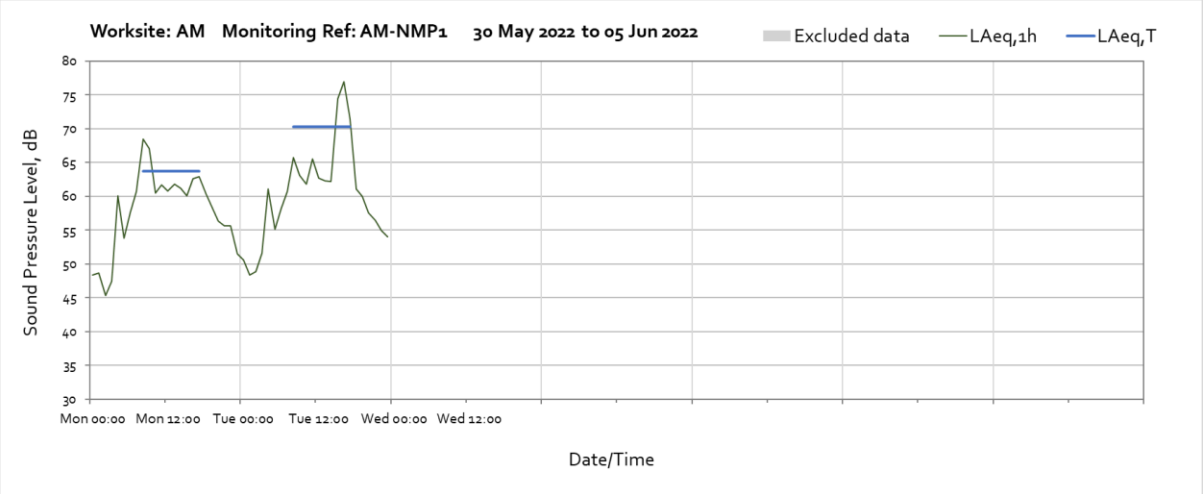
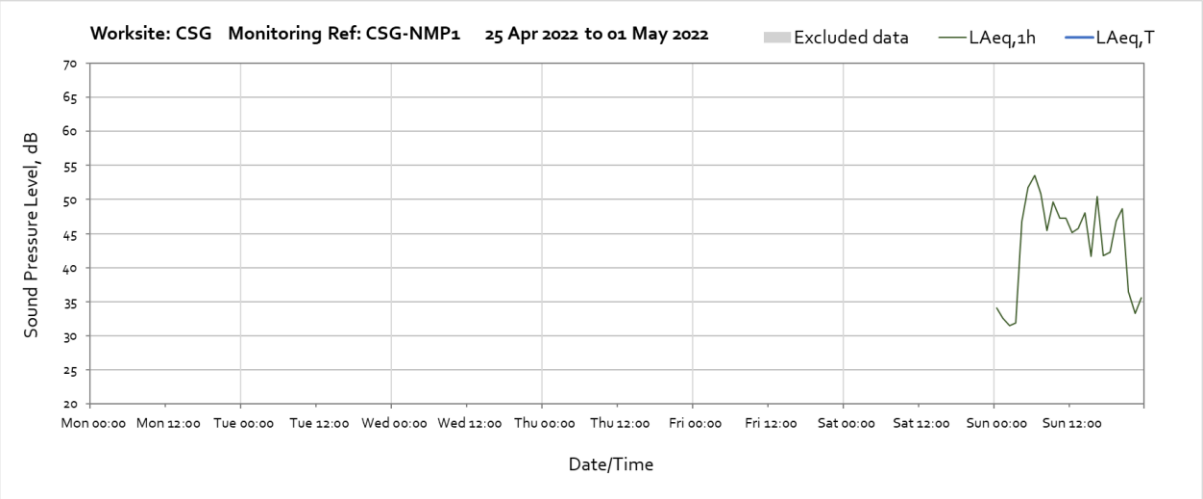
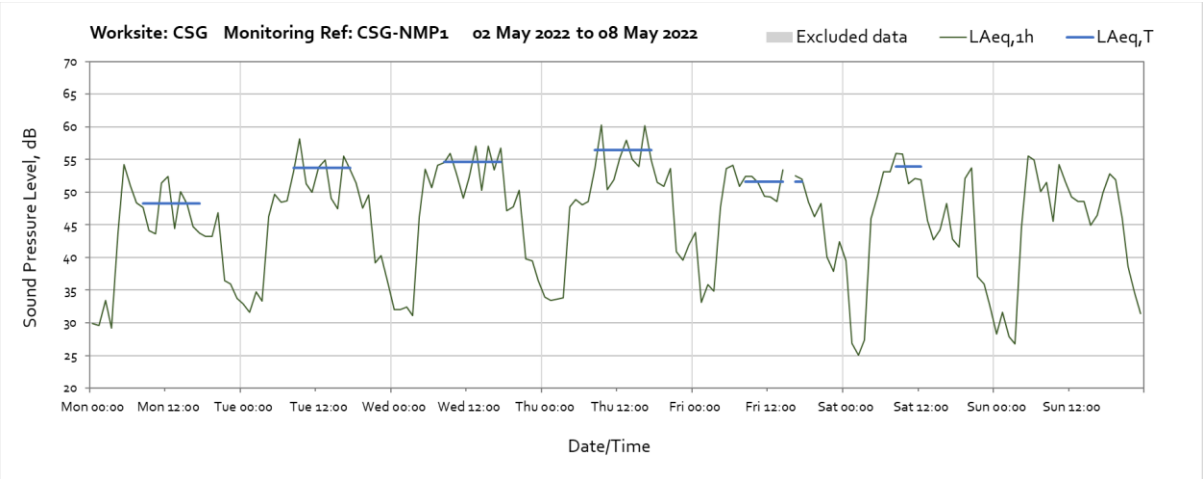
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

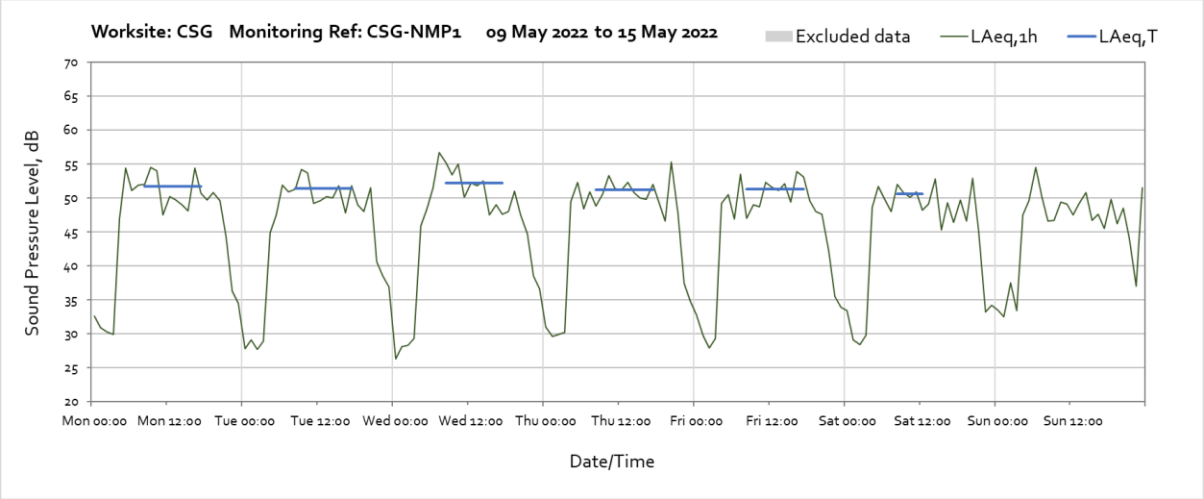


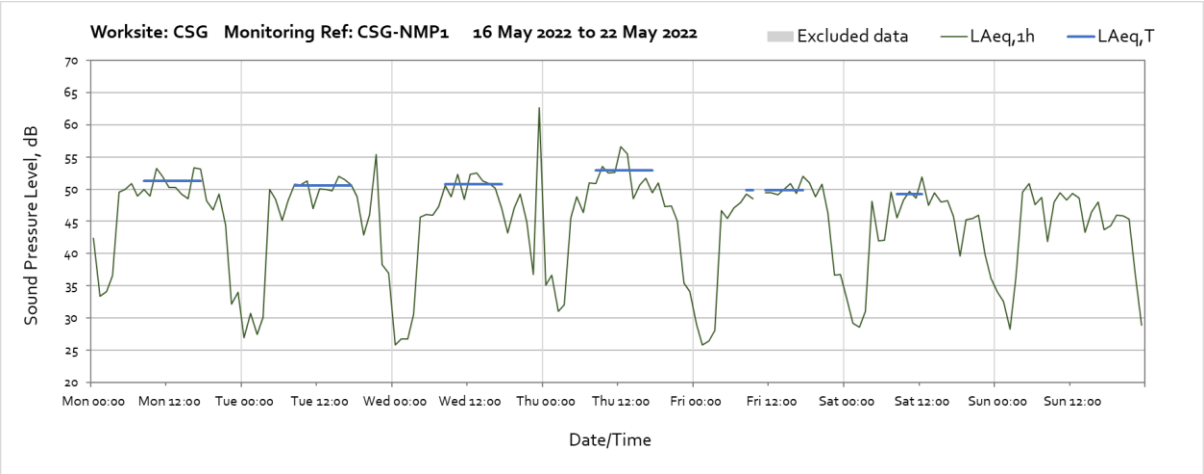
Worksite: CSG – Monitoring Ref: CSG-NMP1



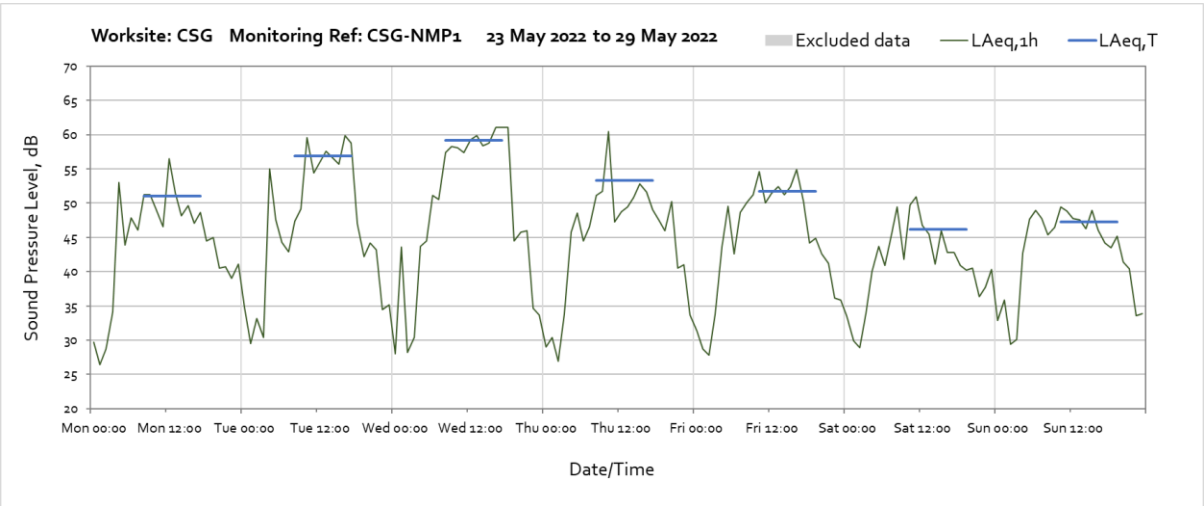


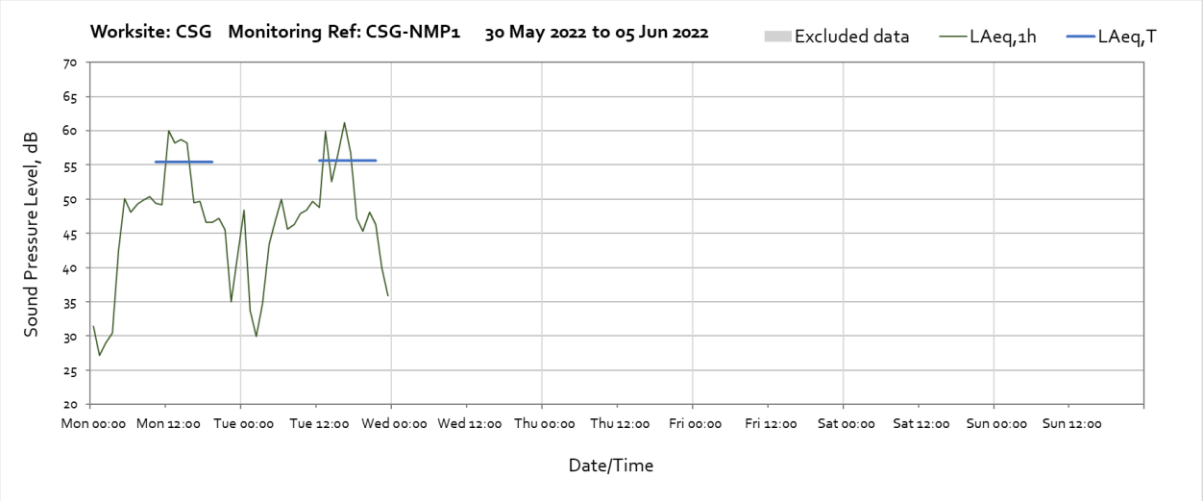
Note: Missing data between 15:00 and 16:00 on 6th May was due to monitor field calibration.



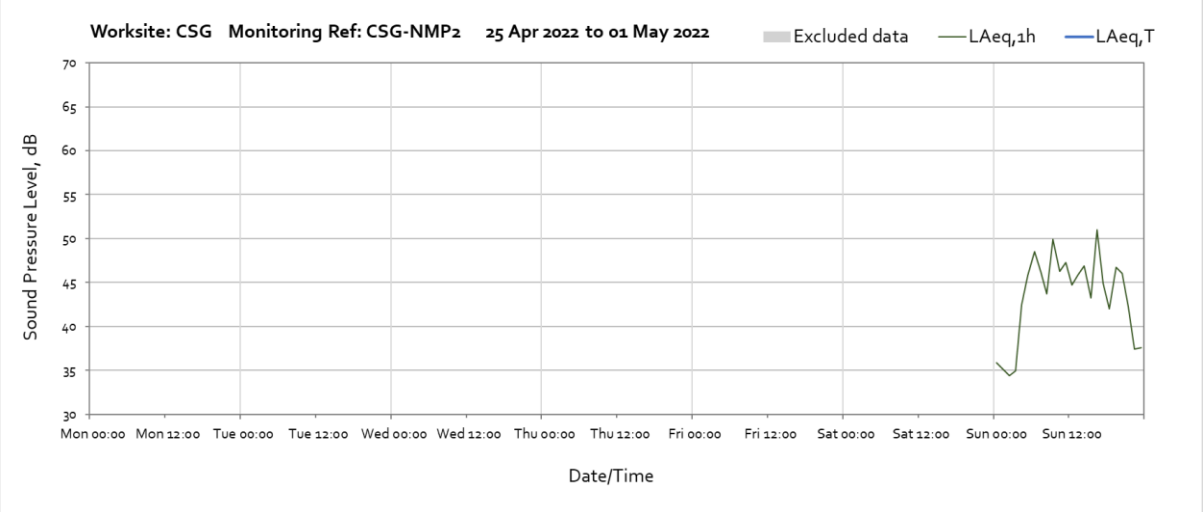


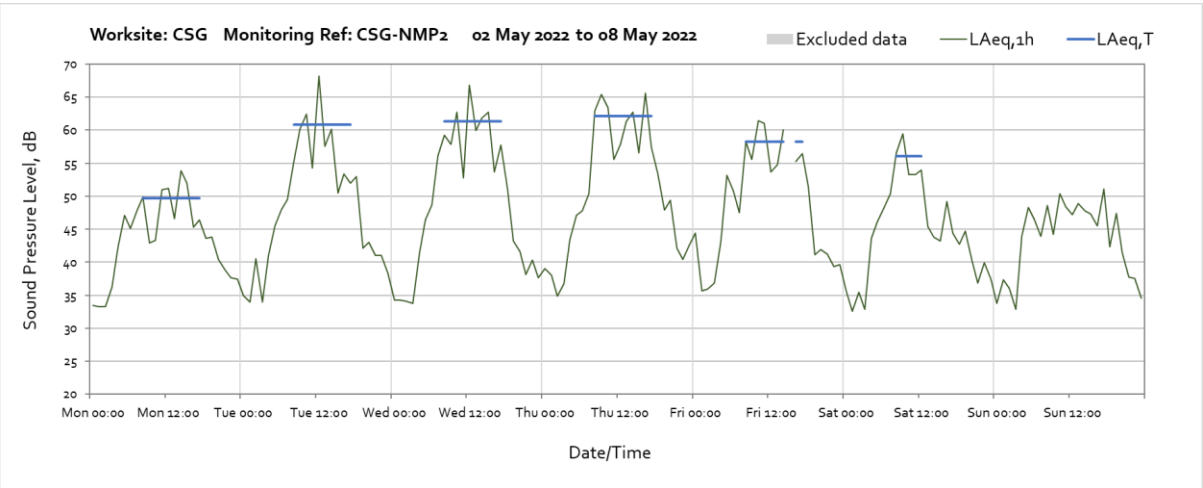
Note: Missing data between 10:00 and 11:00 on 20th May was due to monitor maintenance.



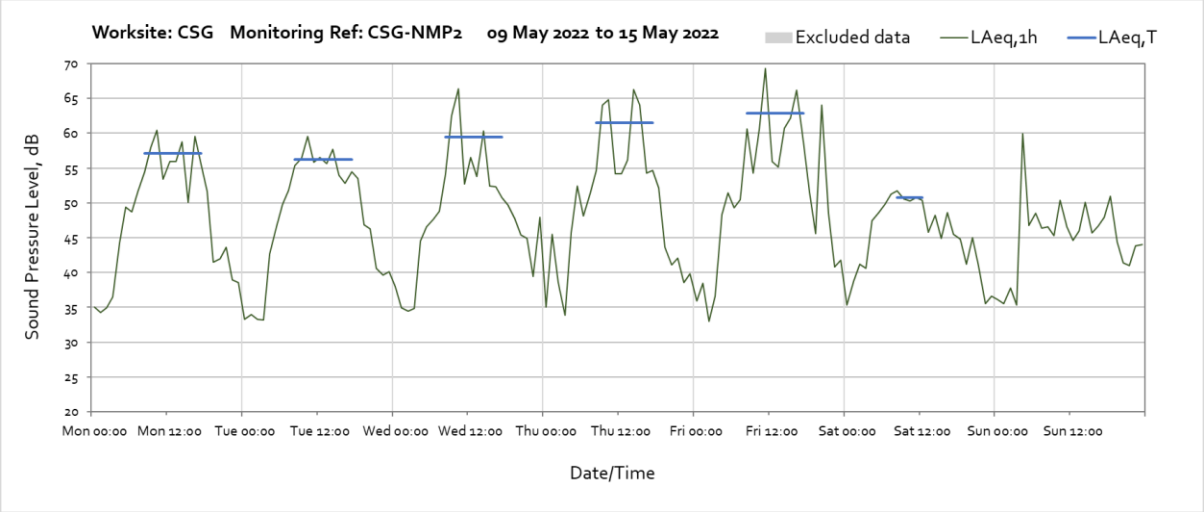


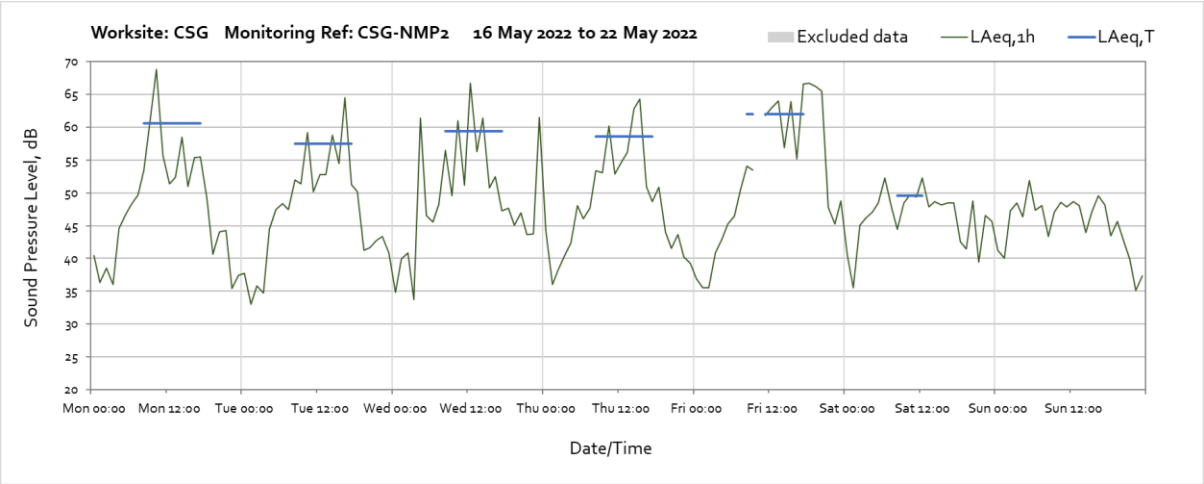
Worksite: CSG – Monitoring Ref: CSG-NMP2



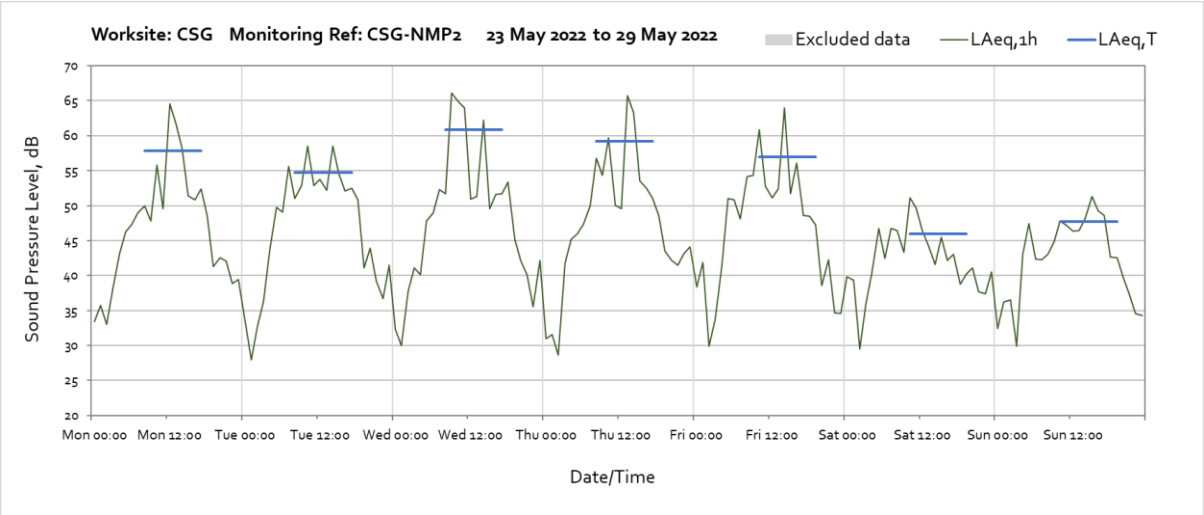


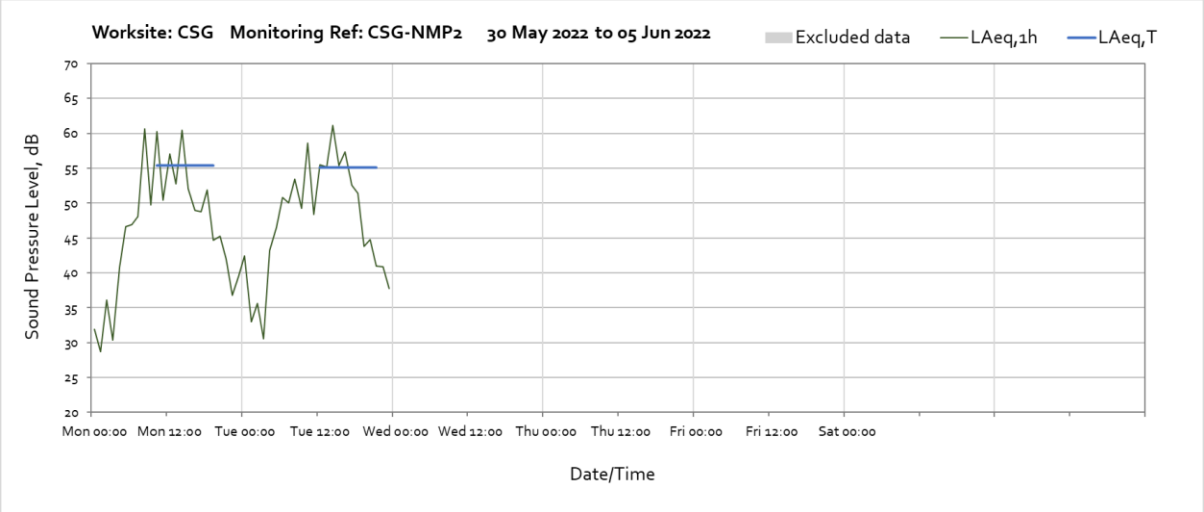
Note: Missing data between 15:00 and 16:00 on 6th May was due to field calibration of monitor.



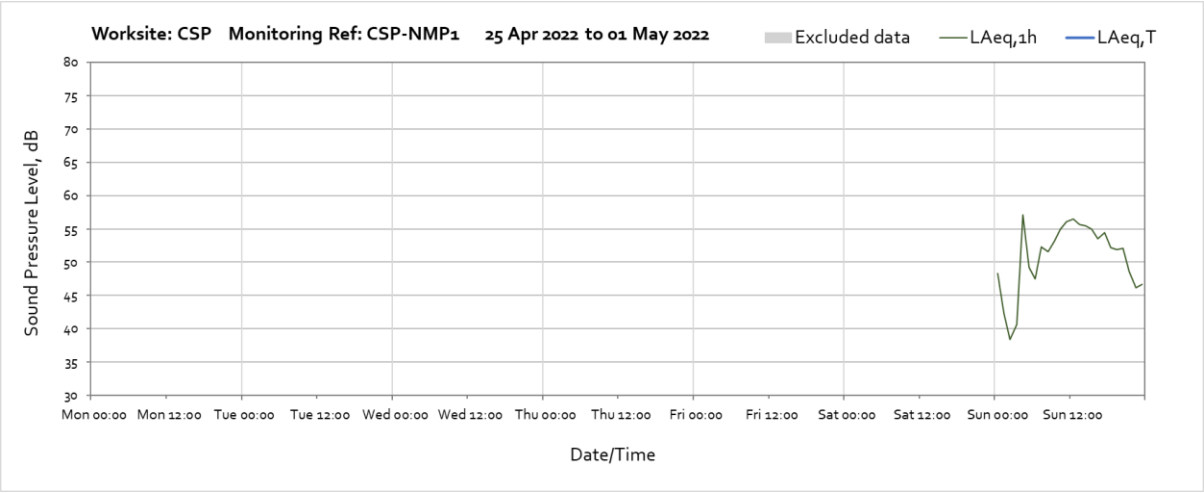


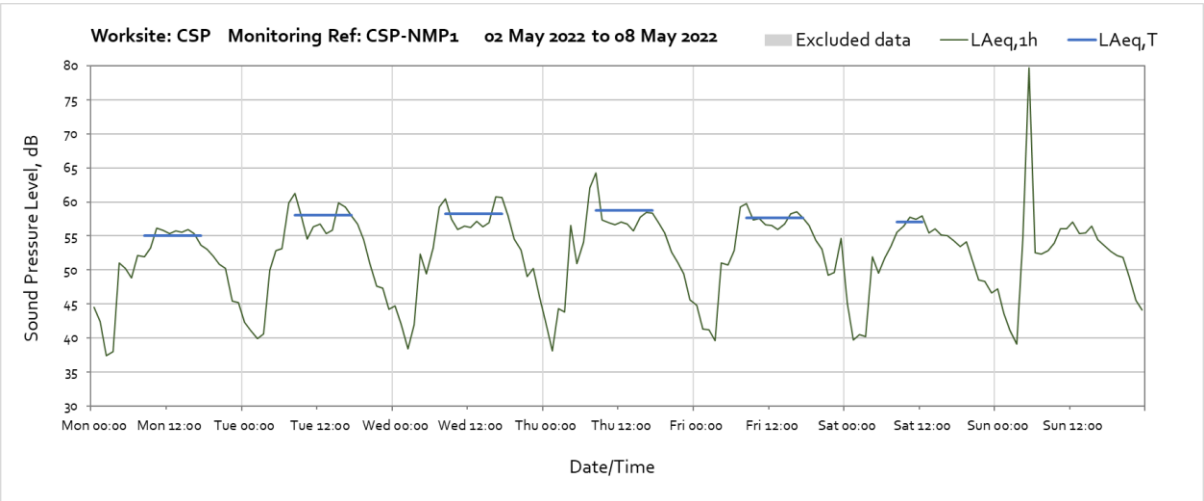
Note: Missing data between 10:00 and 11:00 on the 20th May was due to monitor maintenance.

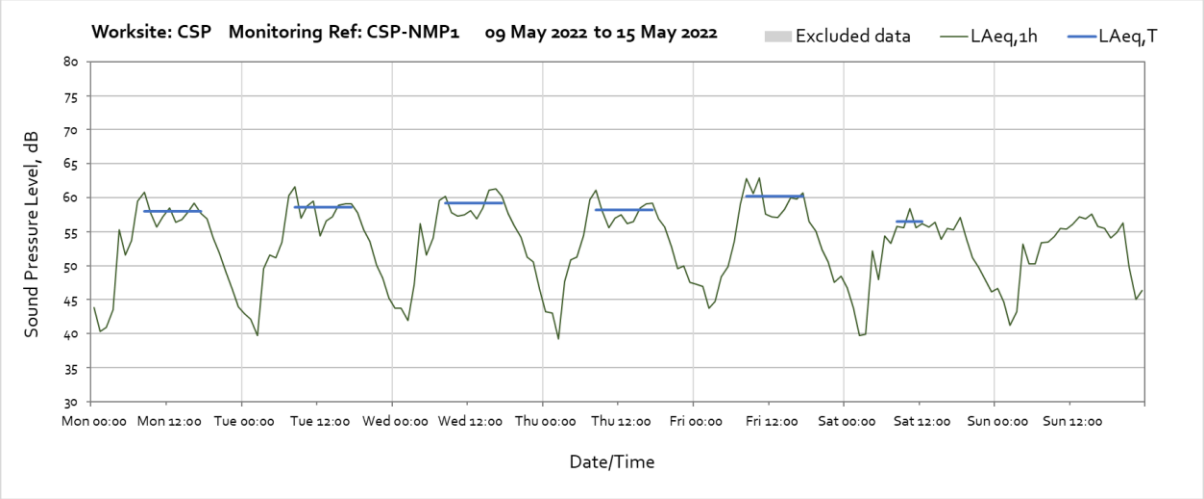




Worksite: CSP – Monitoring Ref: CSP-NMP1






Worksite: CSP Monitoring Ref: CSP-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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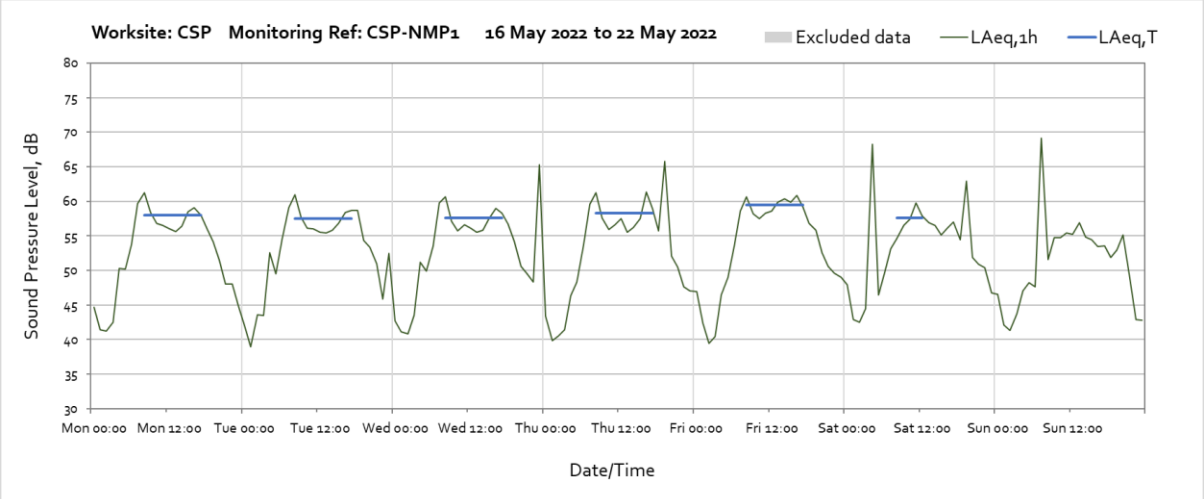
Date/Time


Worksite: CSP Monitoring Ref: CSP-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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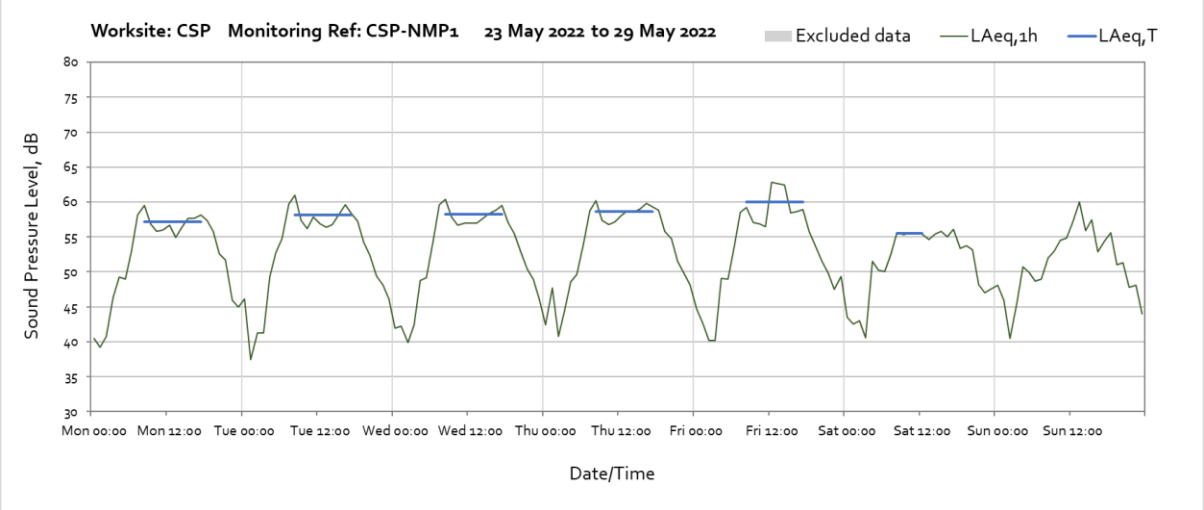
Date/Time


Worksite: CSP Monitoring Ref: CSP-NMP1 23 May 2022 to 29 May 2022
Excluded data
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LAeq,T
Sound Pressure Level, dB
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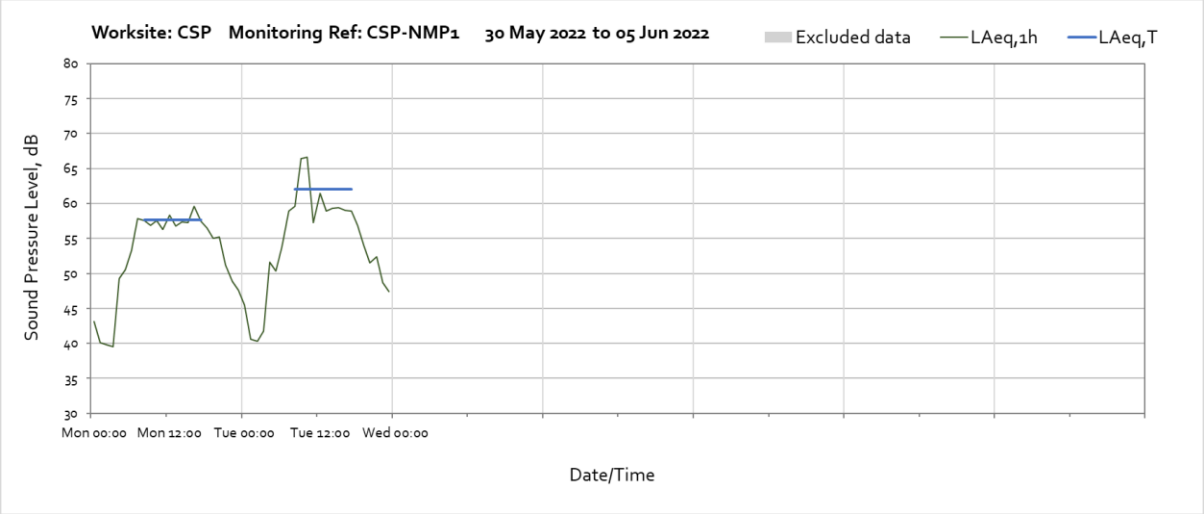
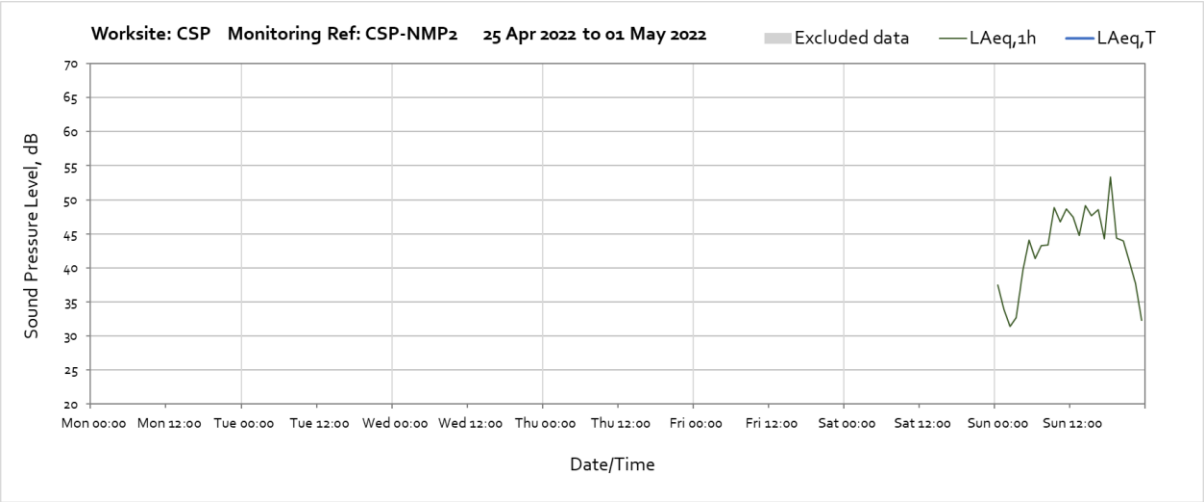
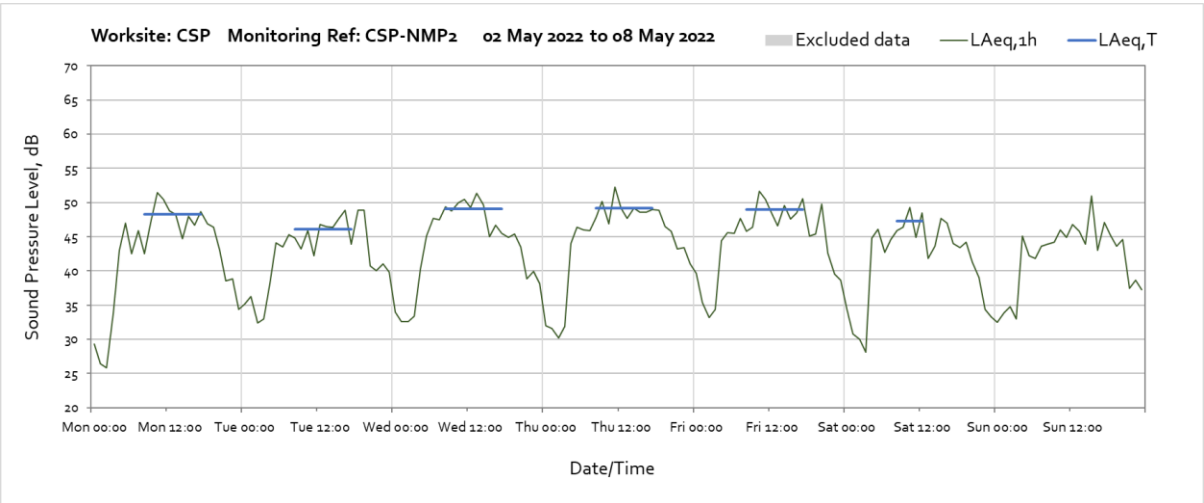
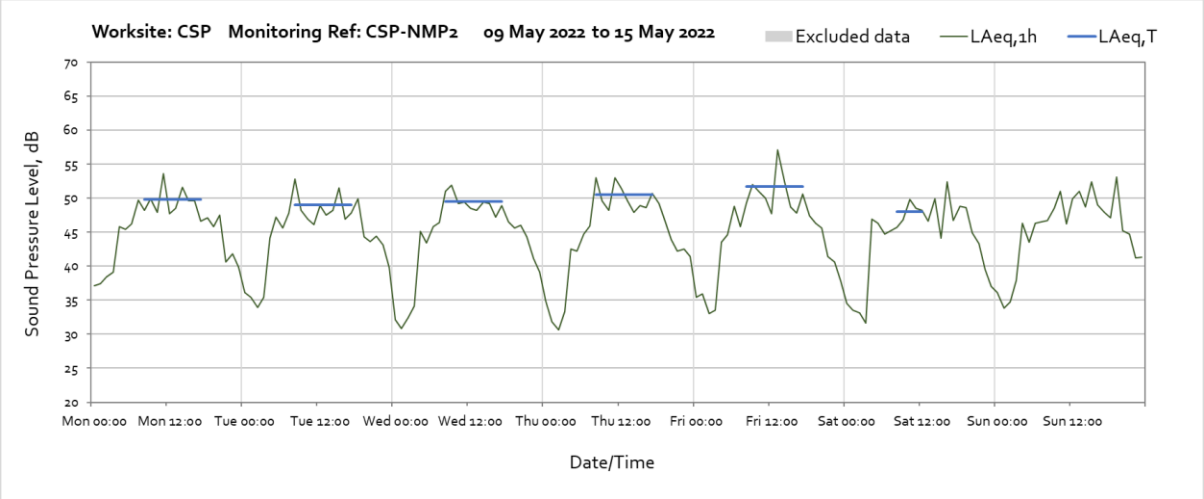
Date/Time

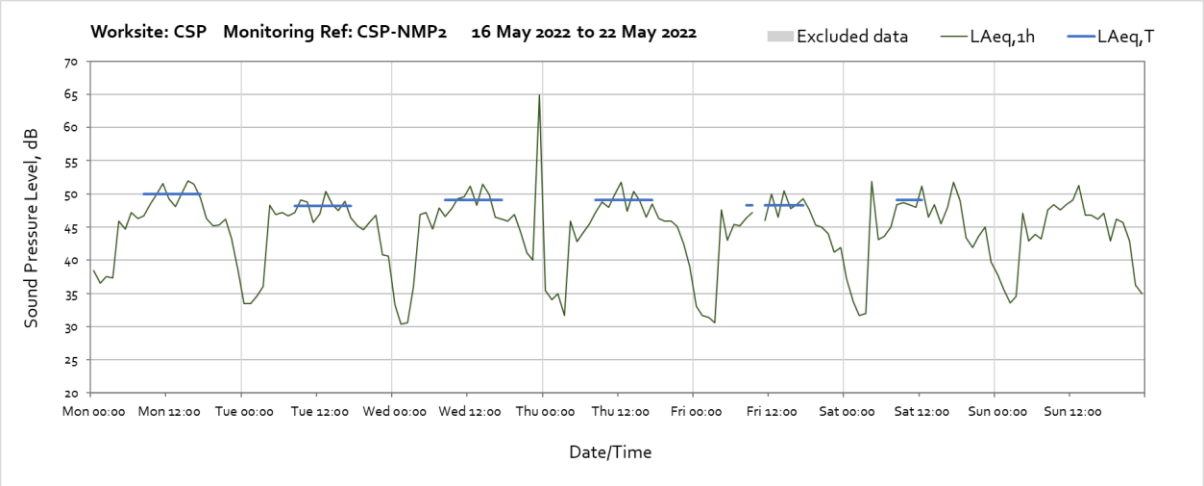


Worksite: CSP – Monitoring Ref: CSP-NMP2

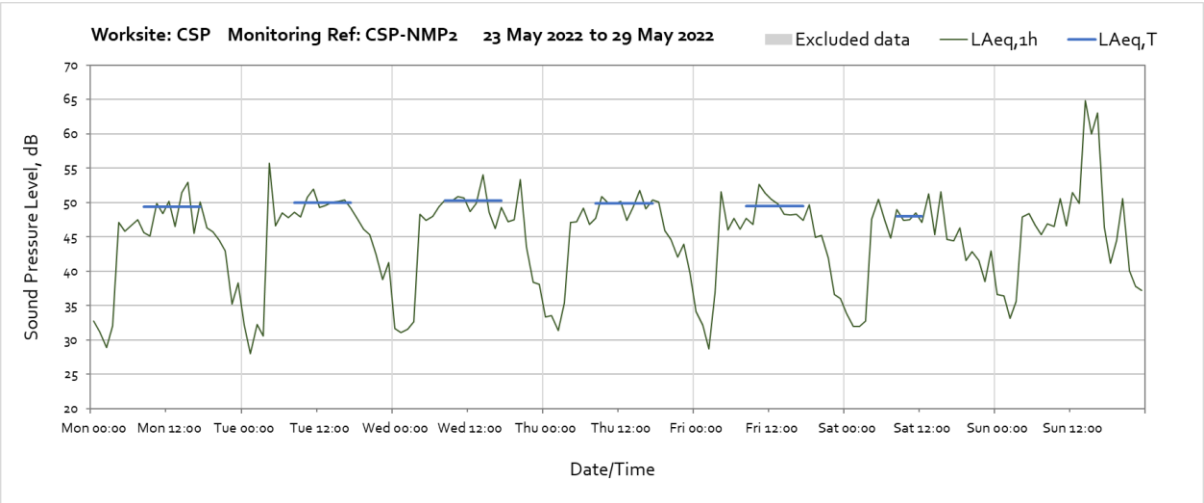


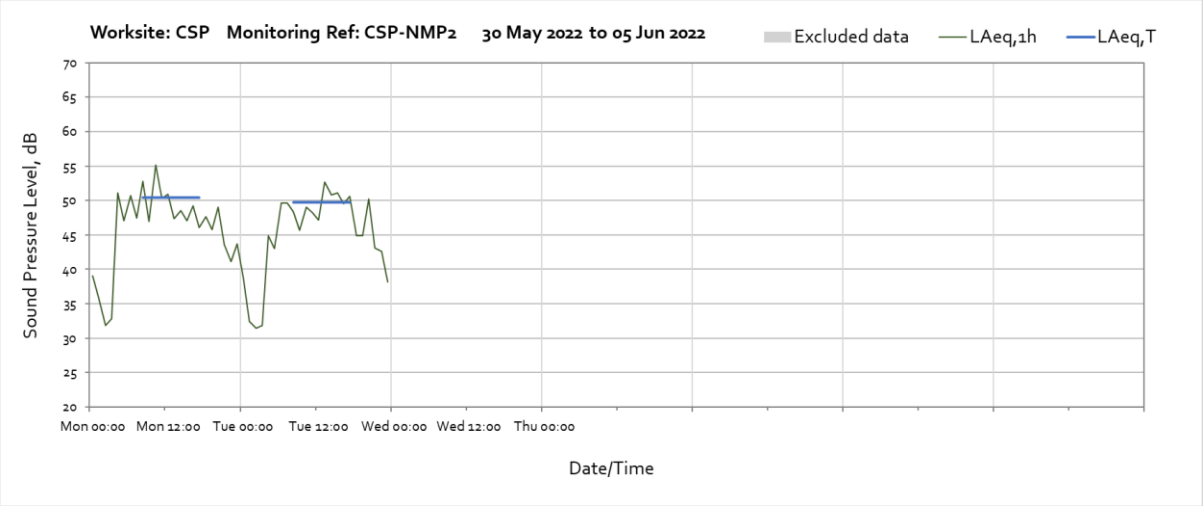




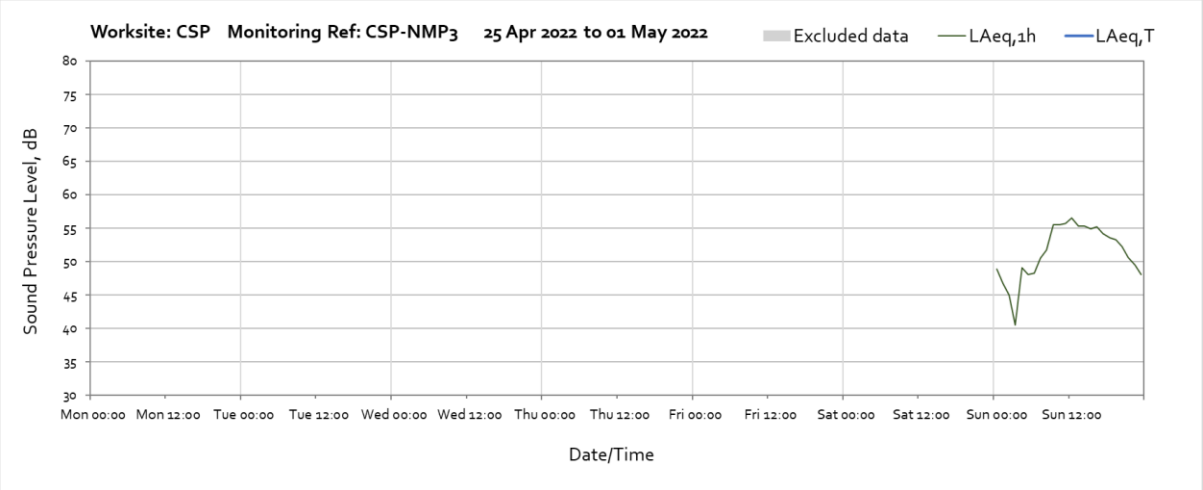


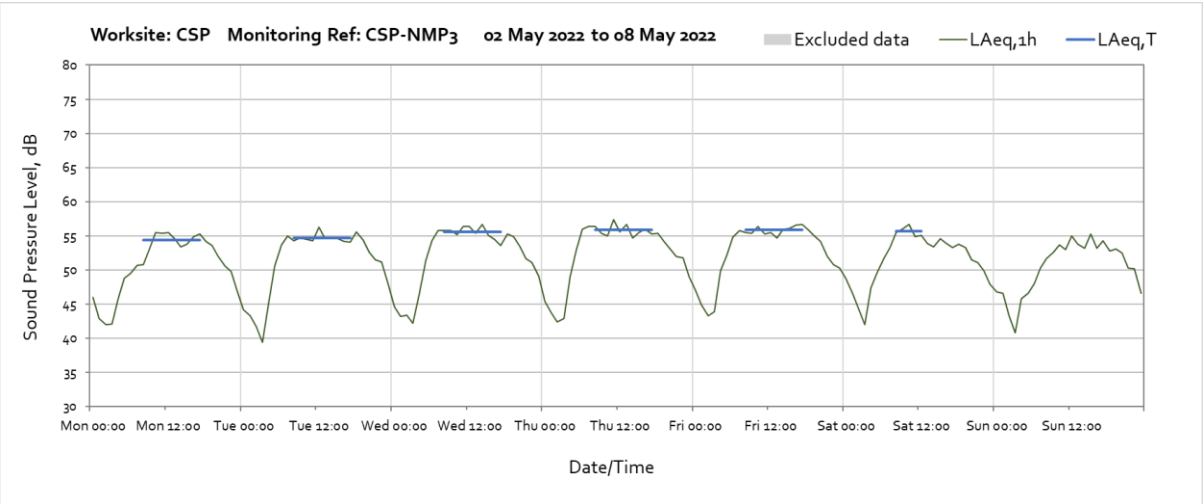
Note: Missing data between 10:00 and 11:00 on 20th May was due to monitor maintenance.

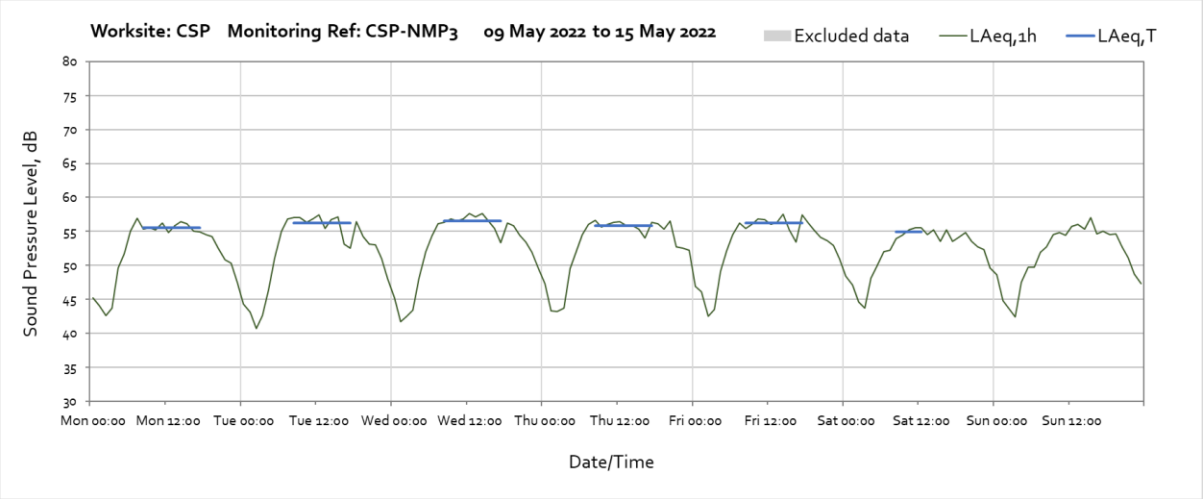


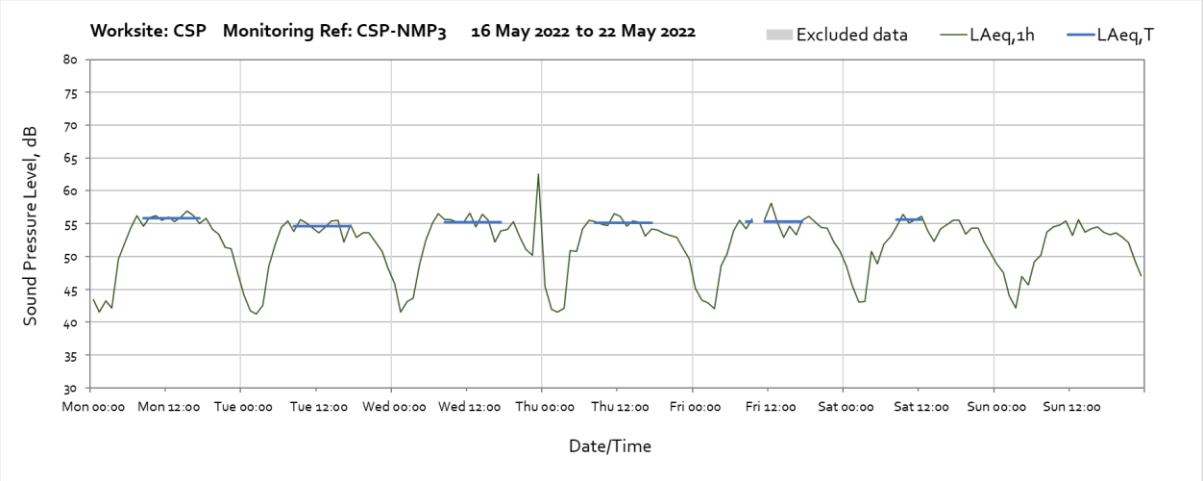


Worksite: CSP – Monitoring Ref: CSP-NMP3

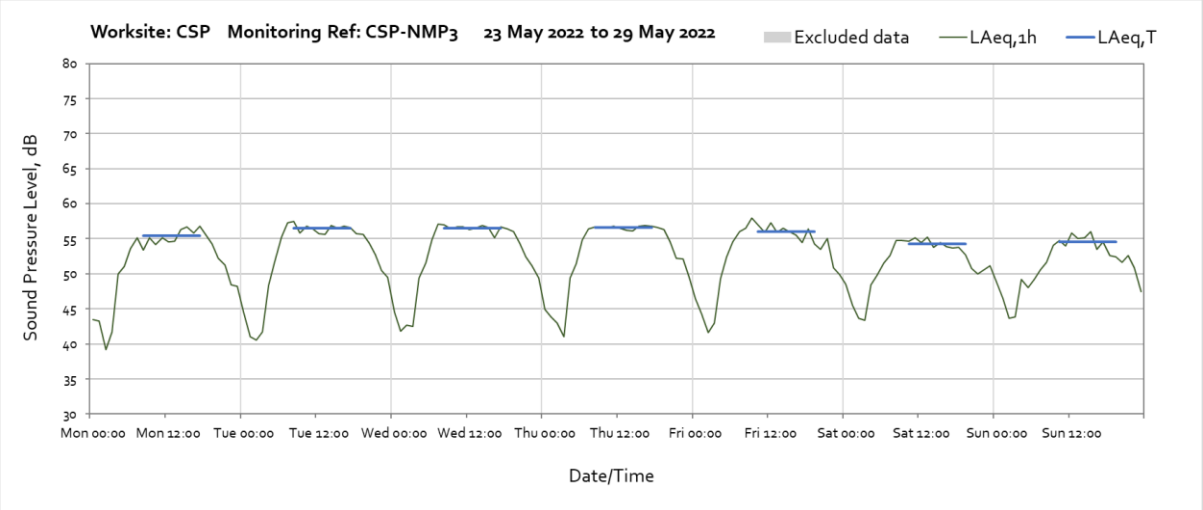


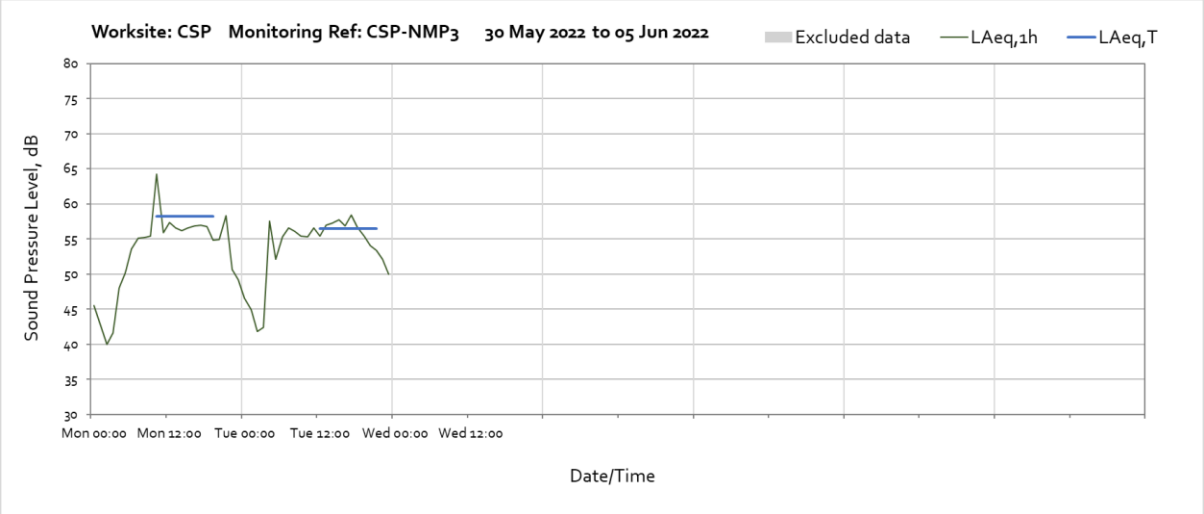




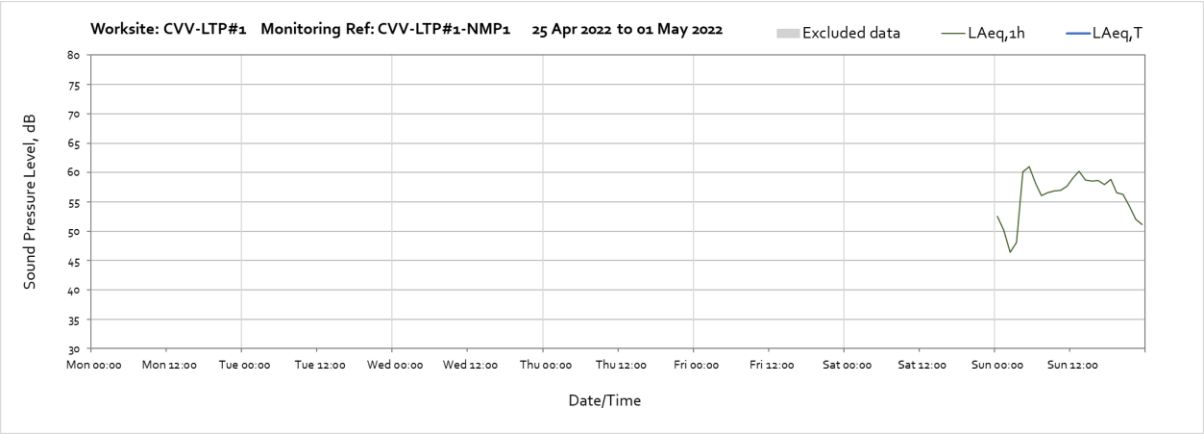


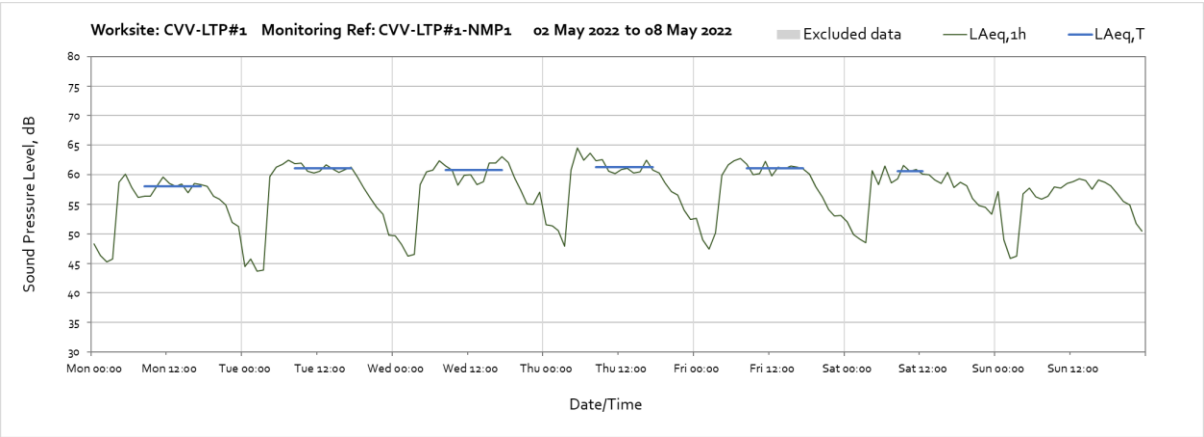
Note: Missing data between 10:00 and 11:00 on 20th May was due to monitor maintenance.

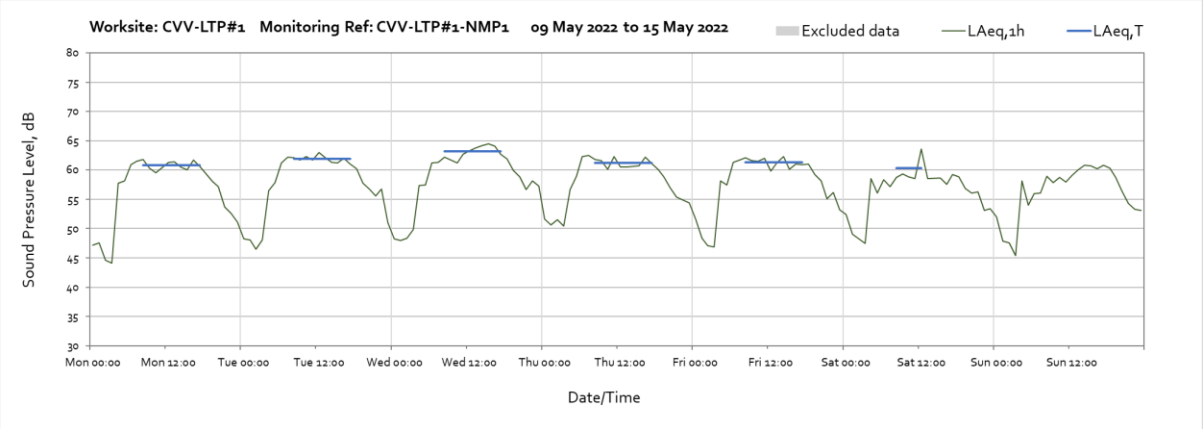


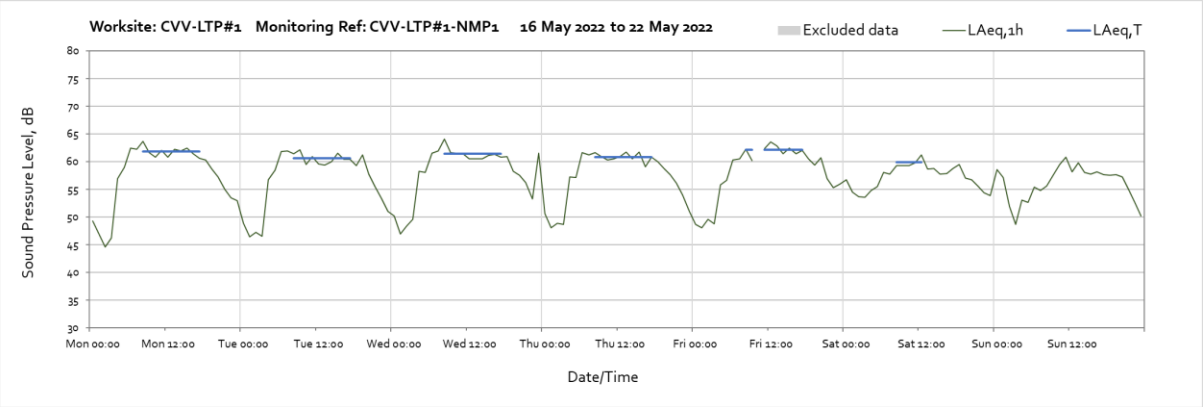


Worksite: CVV-LPT#1 – Monitoring Ref: CVV-LPT#1-NMP1

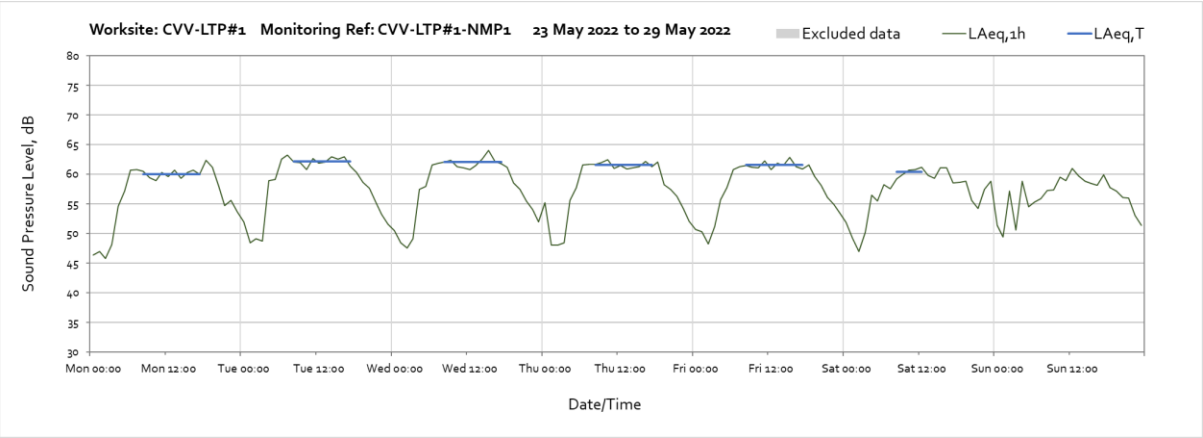


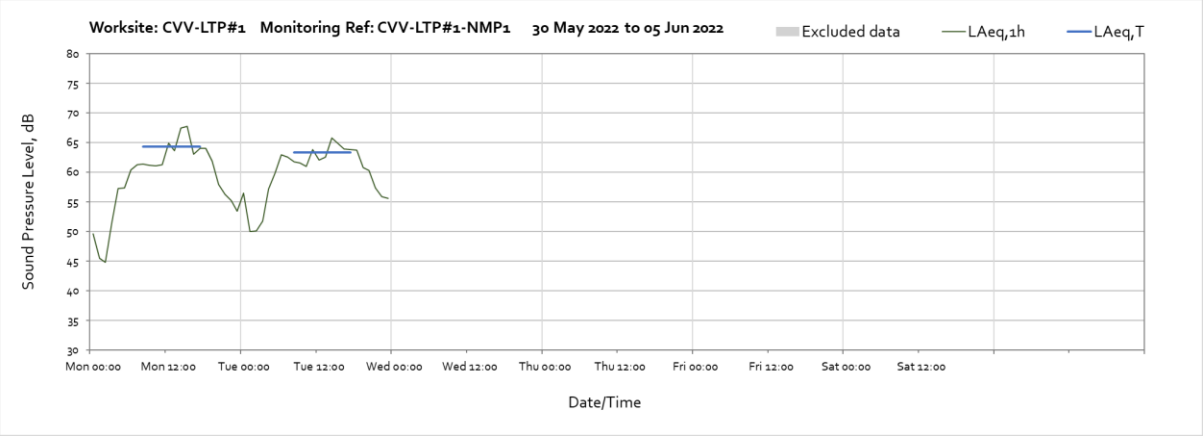




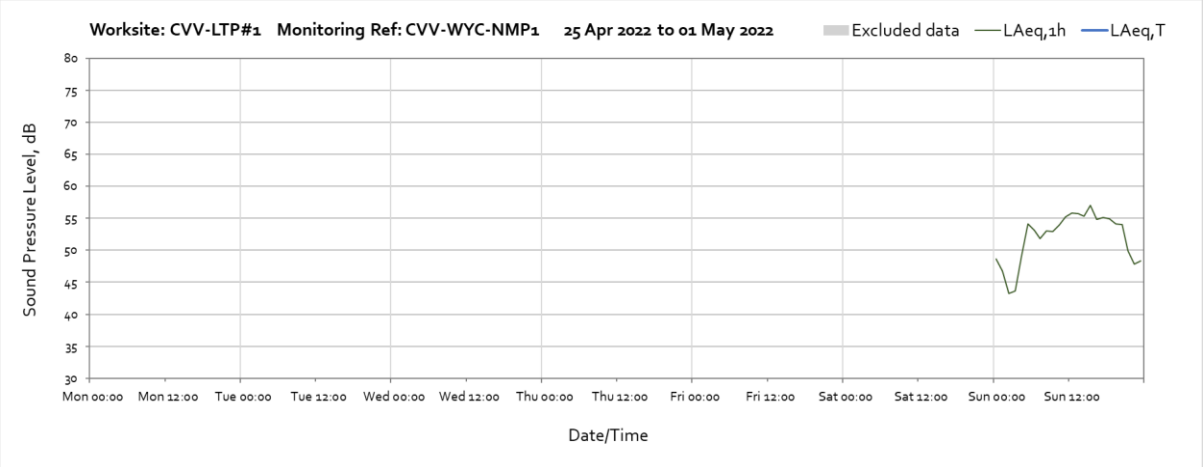


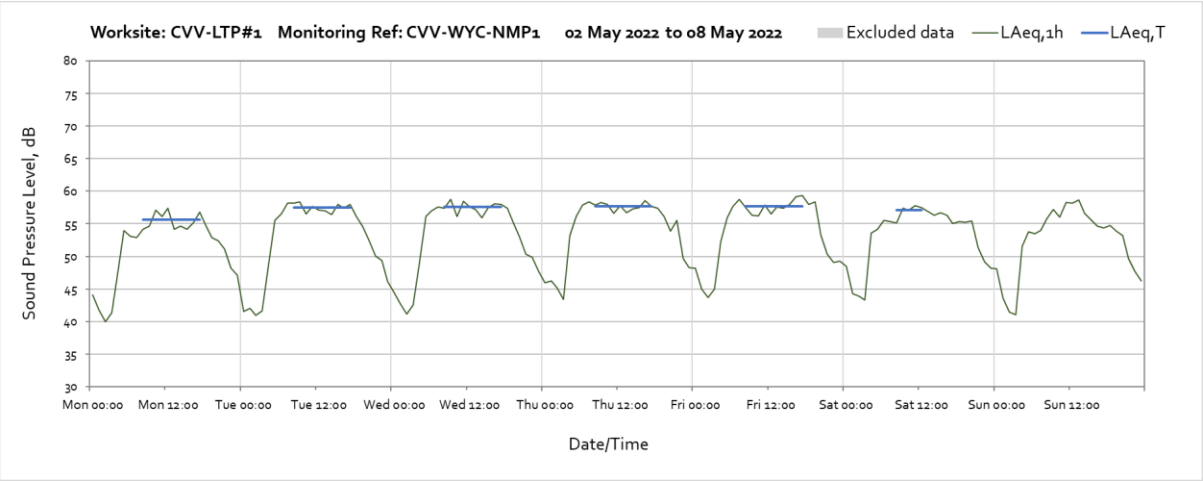
Note: Missing data between 14:00 and 15:00 on the 14th May was due to loss of remote connection.

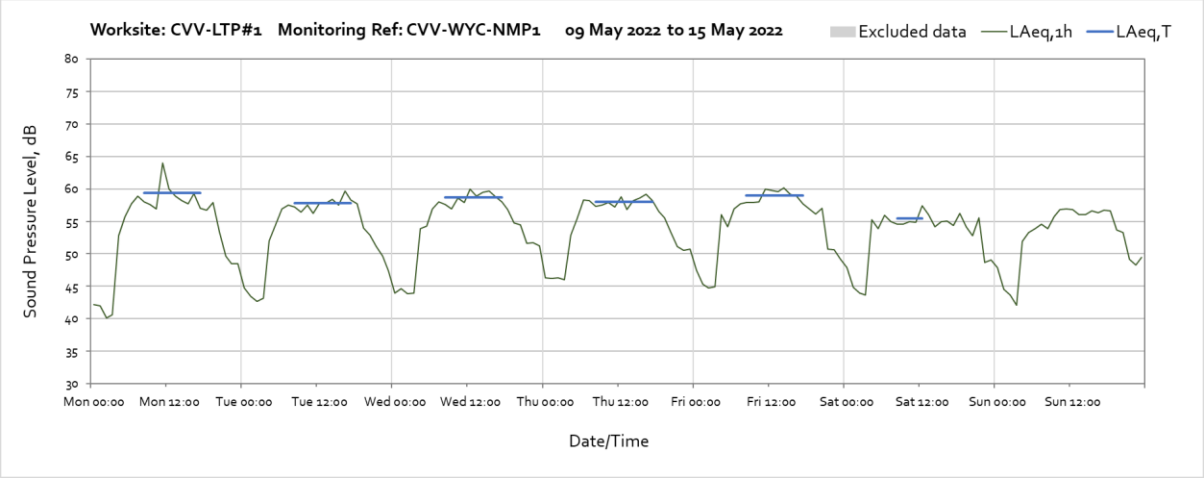




Worksite: CVV-LPT#1 – Monitoring Ref: CVV-WYC-NMP1






Worksite: CVV-LTP#1 Monitoring Ref: CVV-WYC-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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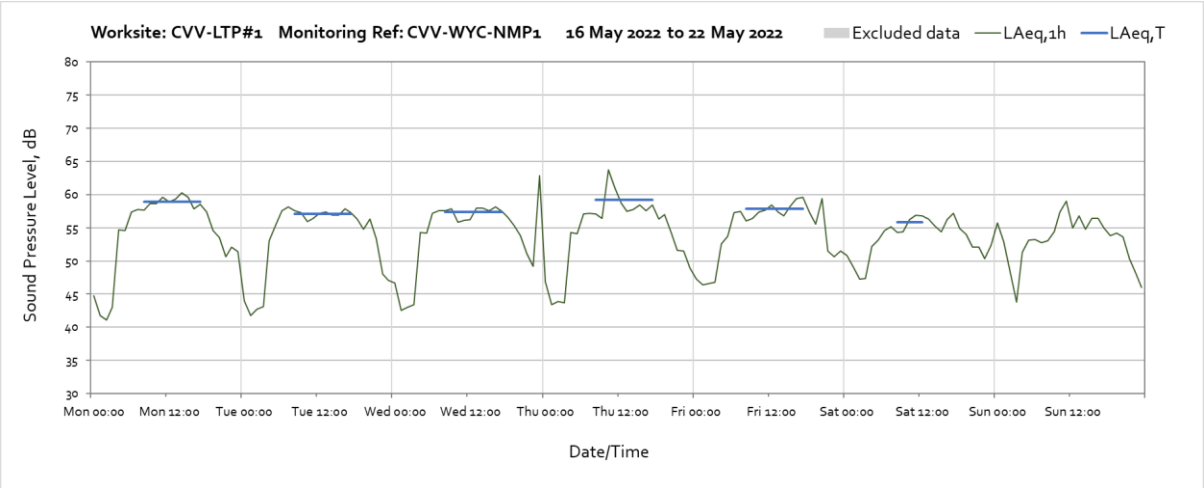
Date/Time


Worksite: CVV-LTP#1 Monitoring Ref: CVV-WYC-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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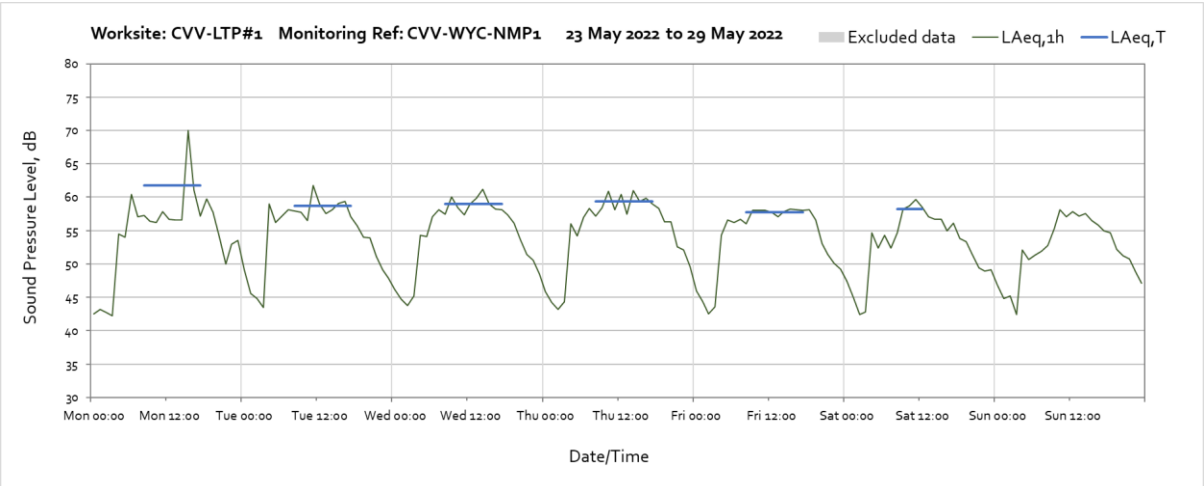
Date/Time


Worksite: CVV-LTP#1 Monitoring Ref: CVV-WYC-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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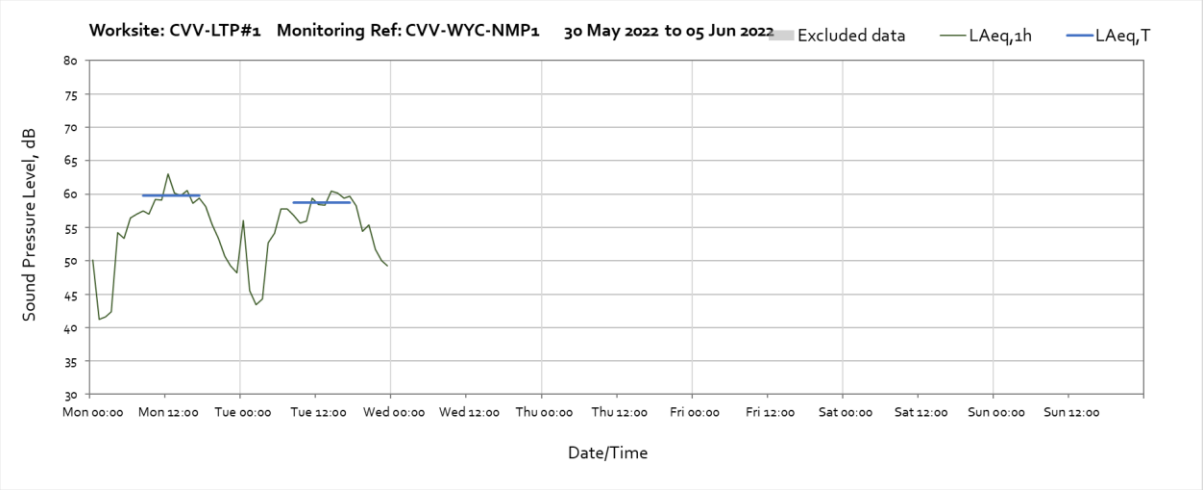
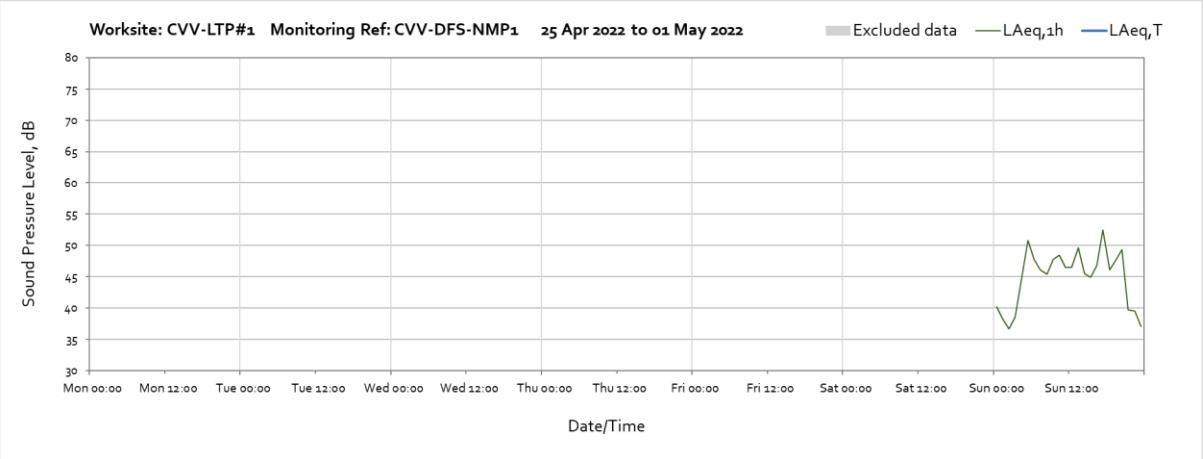
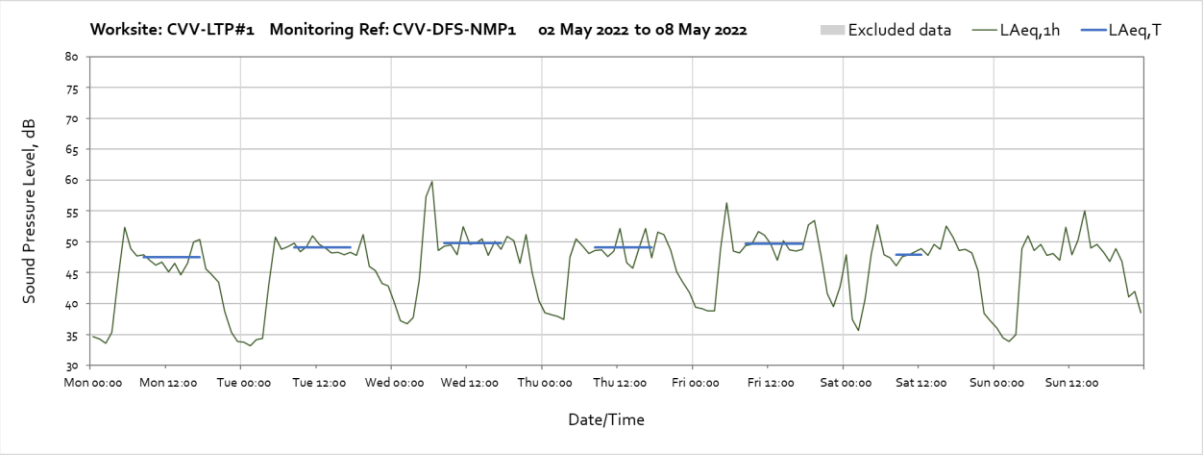
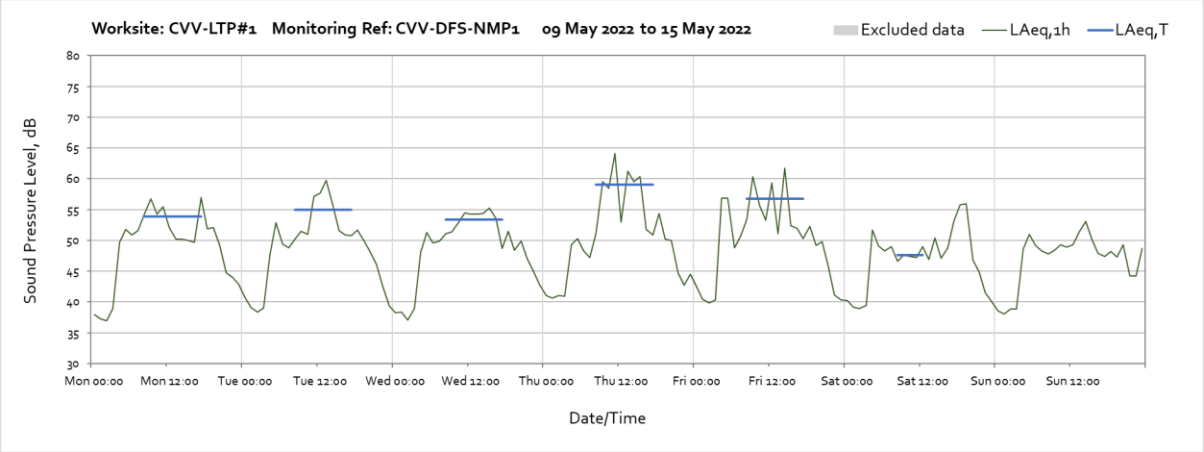
Date/Time



Worksite: CVV-LTP#1 – Monitoring Ref: CVV-DFS-NMP1






Worksite: CVV-LTP#1 Monitoring Ref: CVV-DFS-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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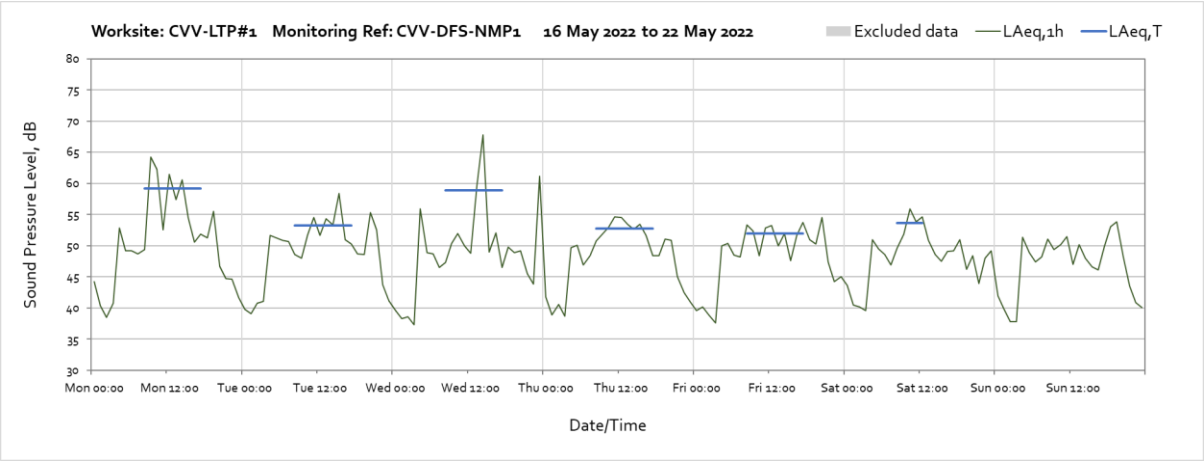
Date/Time


Worksite: CVV-LTP#1 Monitoring Ref: CVV-DFS-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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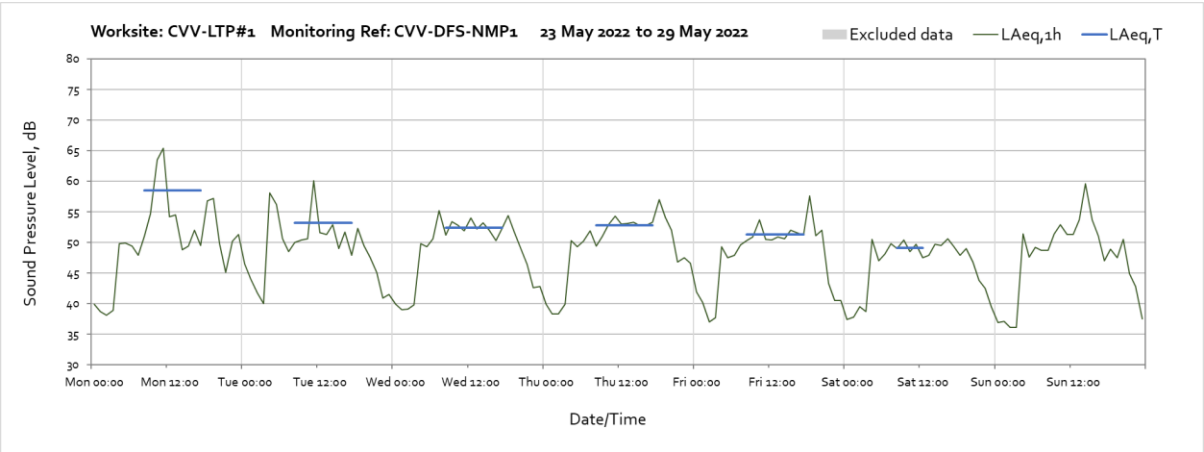
Date/Time


Worksite: CVV-LTP#1 Monitoring Ref: CVV-DFS-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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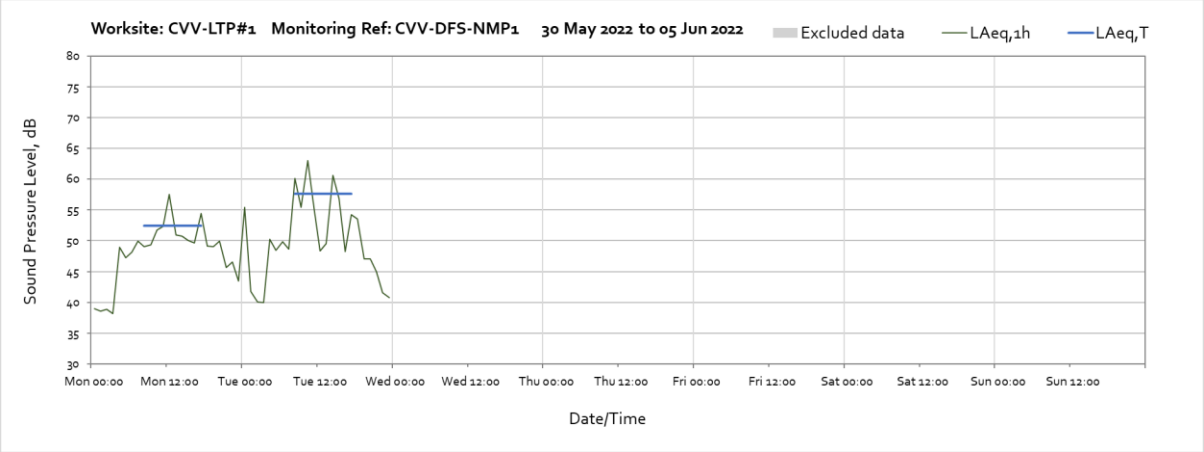
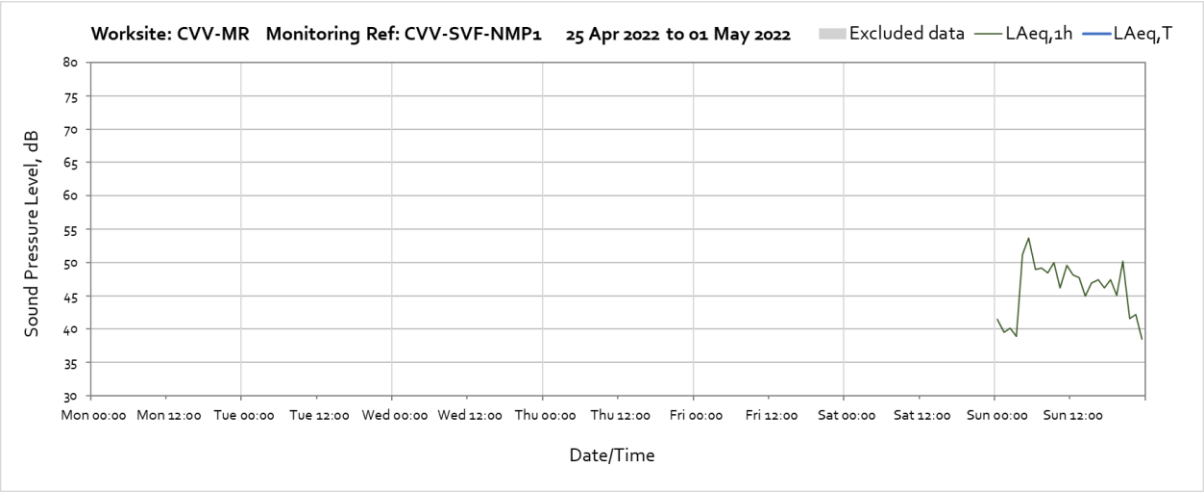
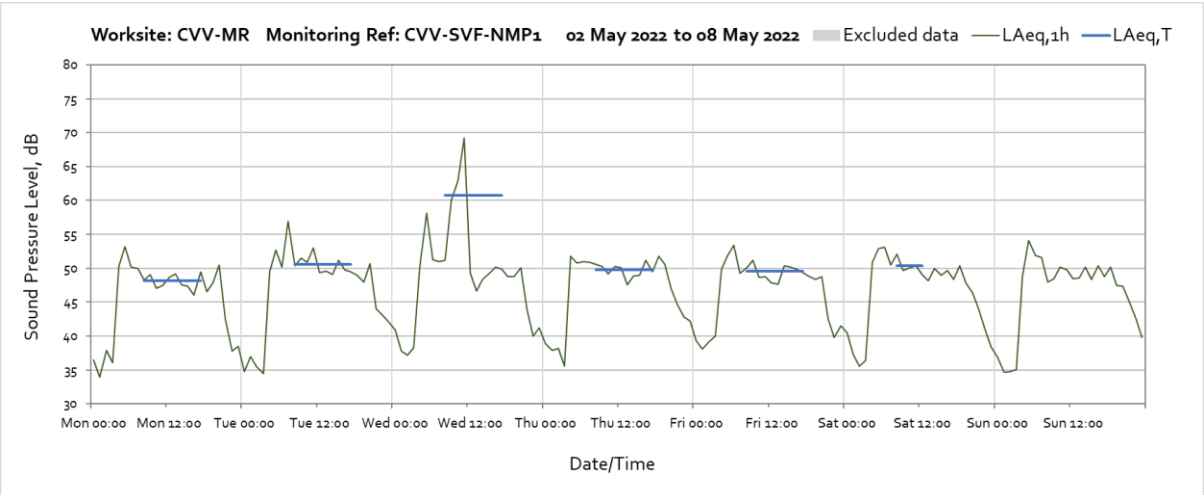
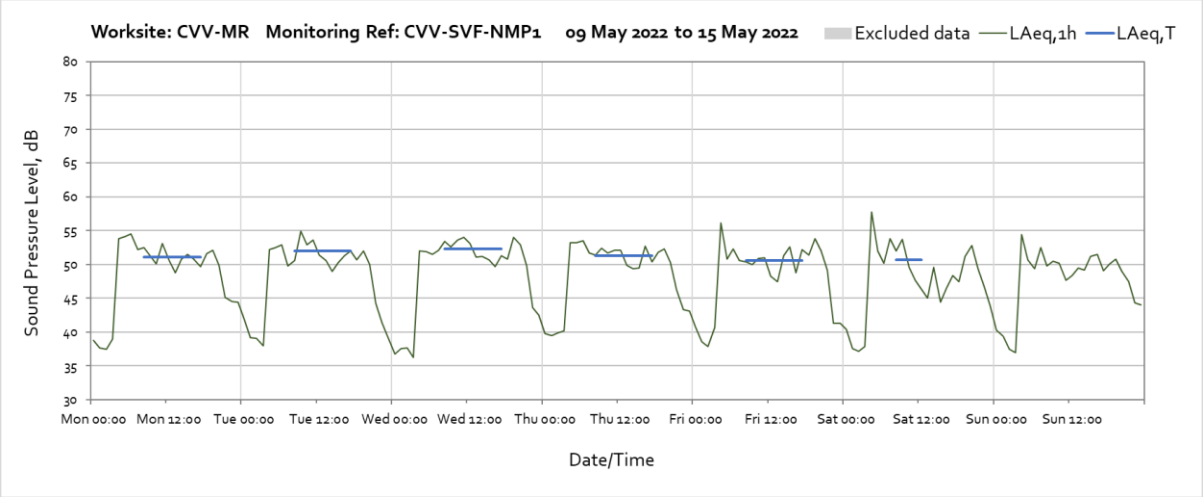
Date/Time



Worksite: CVV-MR – Monitoring Ref: CVV-SVF-NMP1






Worksite: CVV-MR Monitoring Ref: CVV-SVF-NMP1 09 May 2022 to 15 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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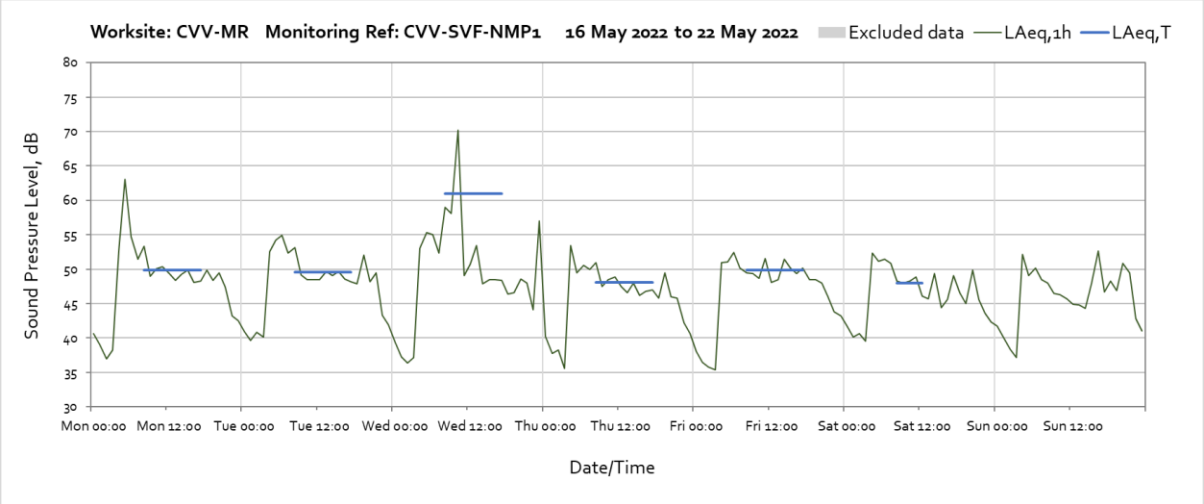
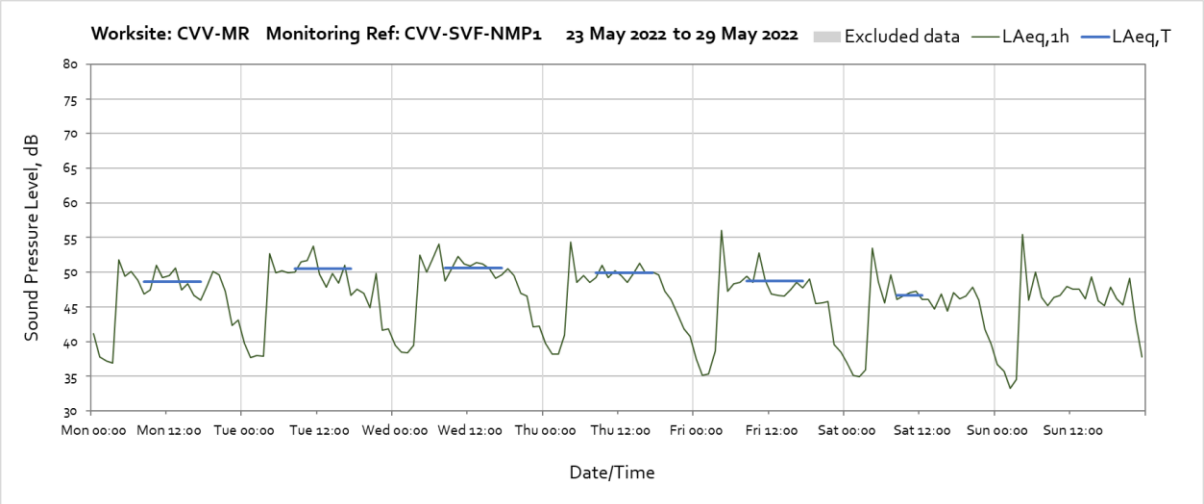
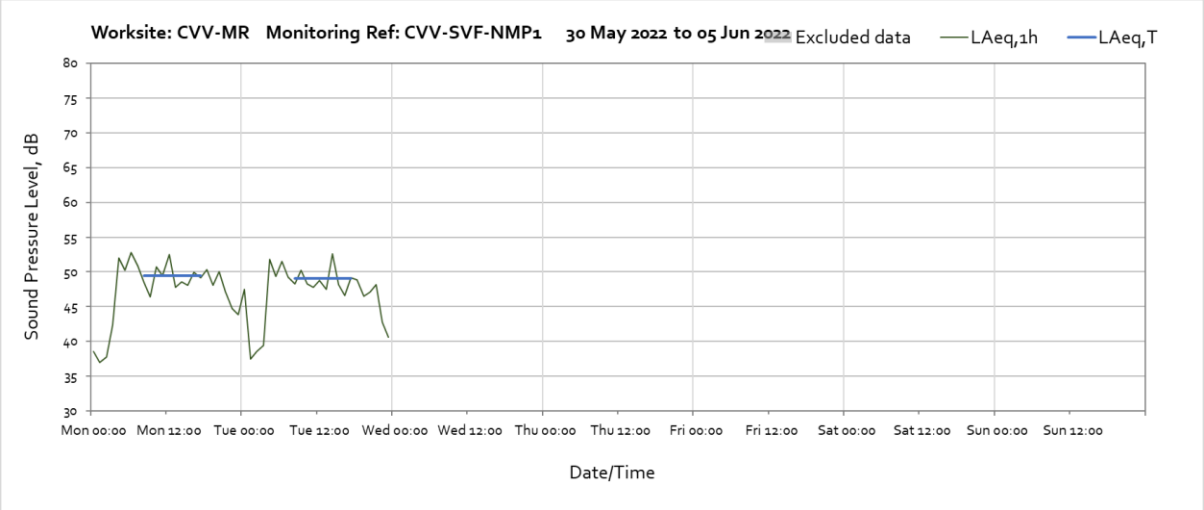
Sun 12:00
Date/Time


Worksite: CVV-MR Monitoring Ref: CVV-SVF-NMP1 16 May 2022 to 22 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
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

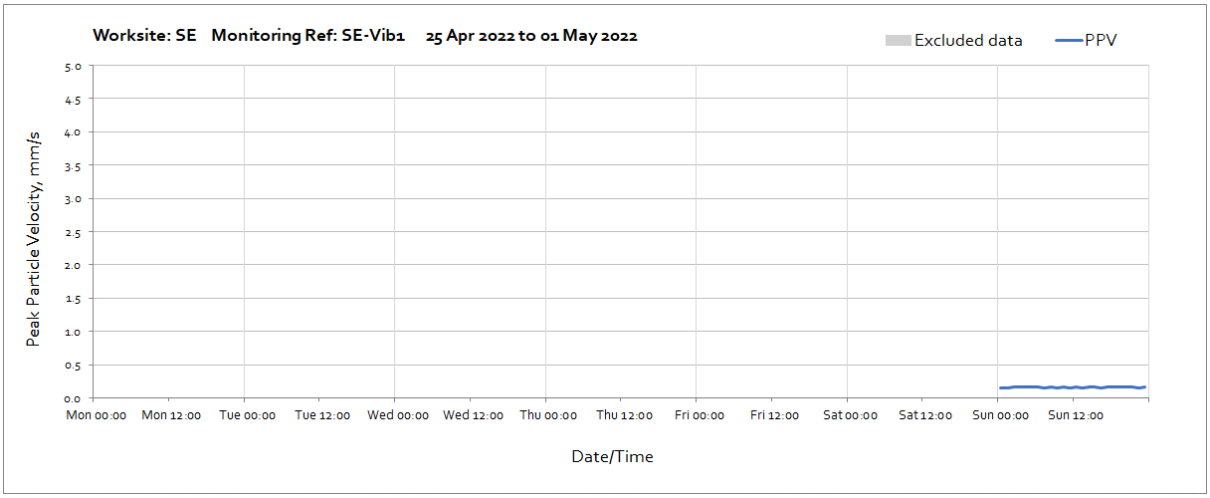

Worksite: CVV-MR Monitoring Ref: CVV-SVF-NMP1 23 May 2022 to 29 May 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

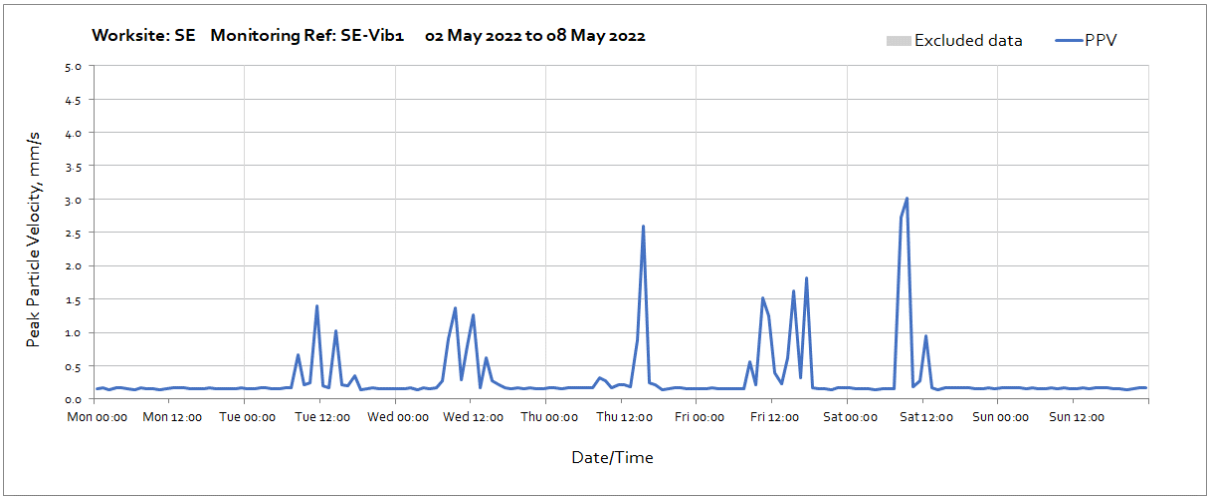

Worksite: CVV-MR Monitoring Ref: CVV-SVF-NMP1 30 May 2022 to 05 Jun 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
50
45
40
35
30
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

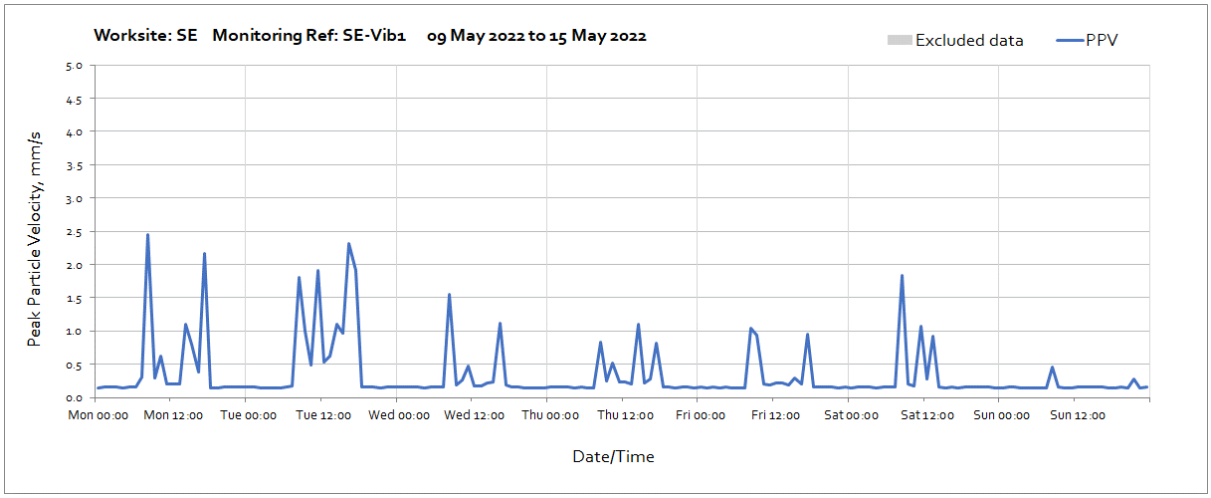
Vibration

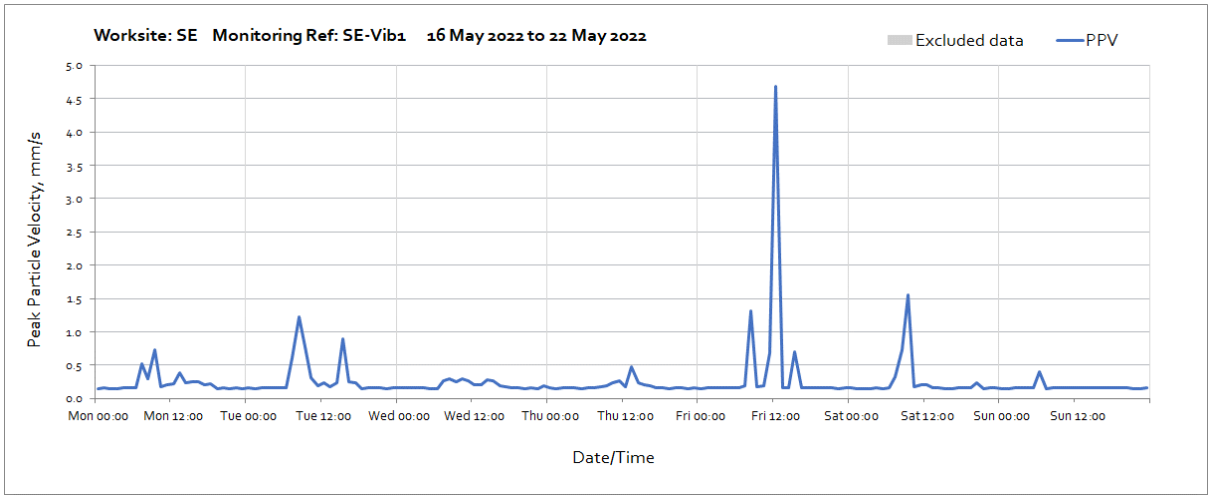
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axes x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which are not representative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

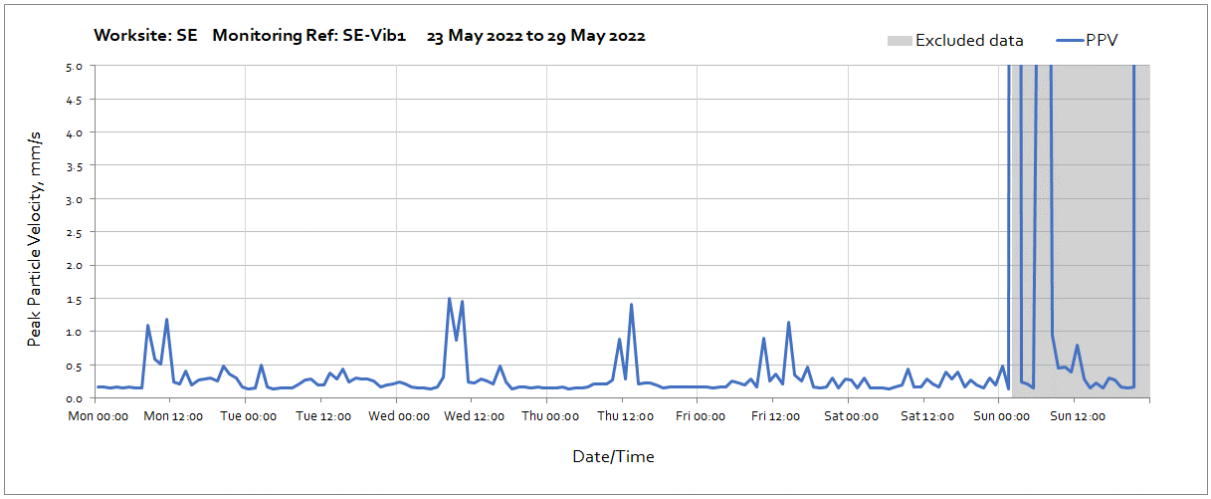
Worksite: SE – Monitoring Ref: SE-Vib 1



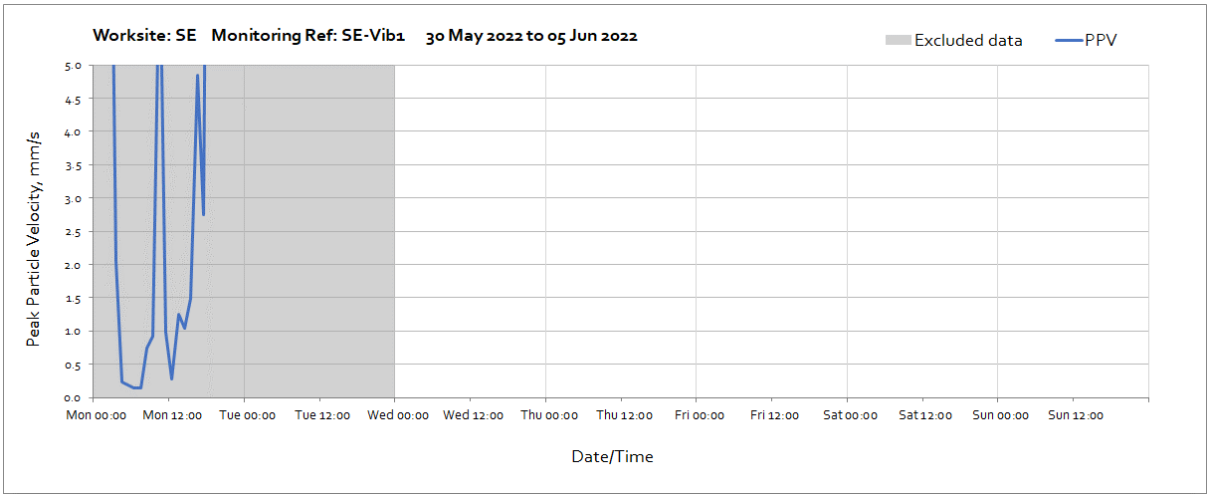






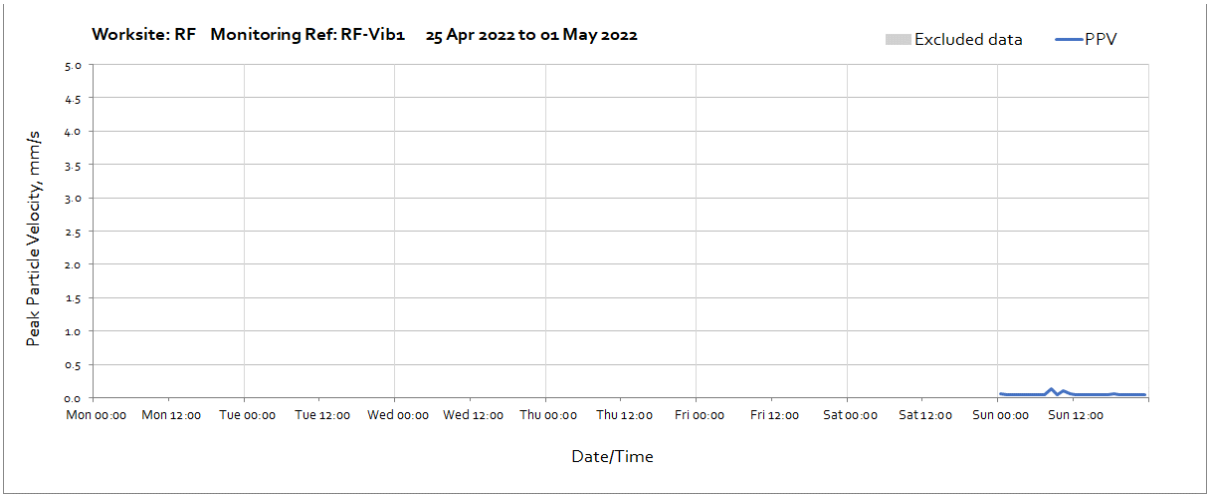


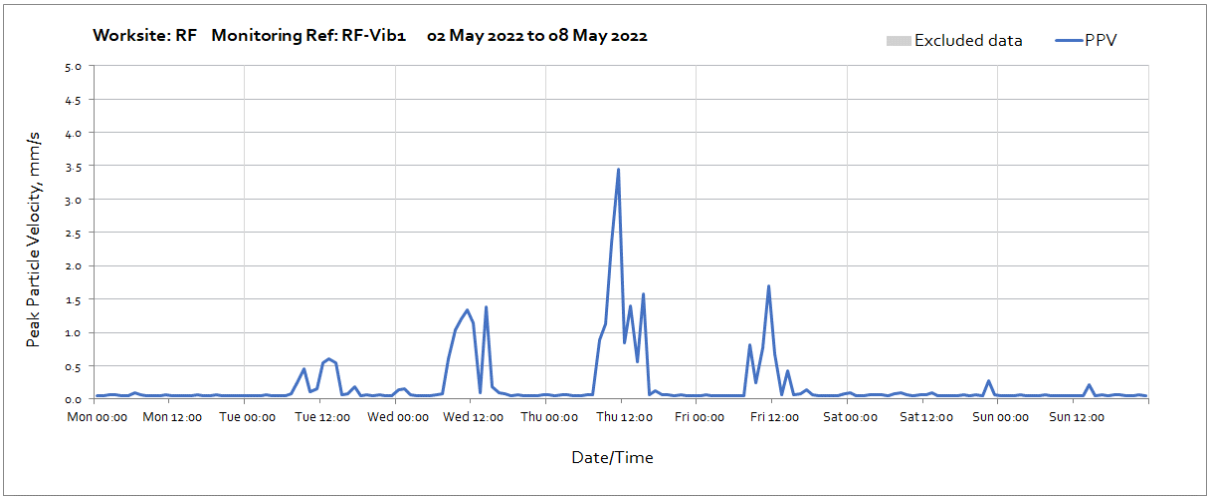
Note: High vibration levels from 02:00 on Sunday 29th May to the end of the month were due to anomalous behaviour of the vibration monitor. Investigations are ongoing.

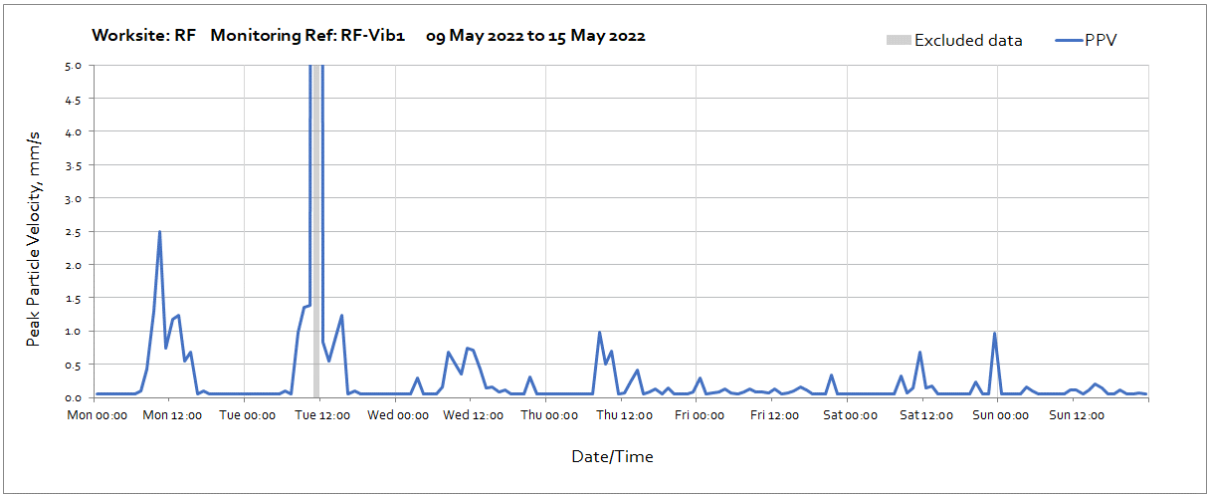


Note: High vibration levels from 02:00 on Sunday 29th May to the end of the month were due to anomalous behaviour of the vibration monitor. Investigations are ongoing.

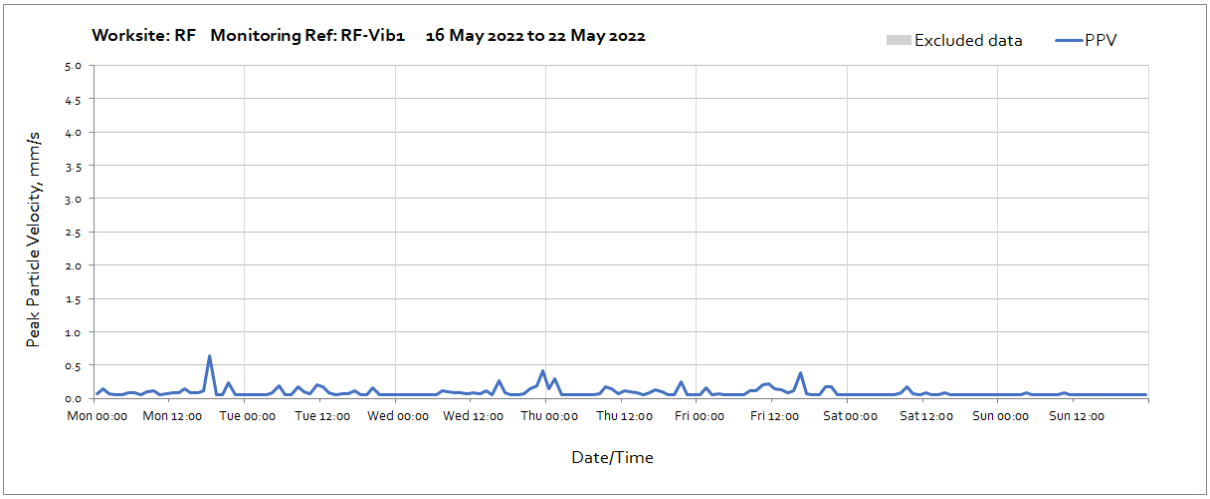
Worksite: RF – Monitoring Ref: RF-Vib 1

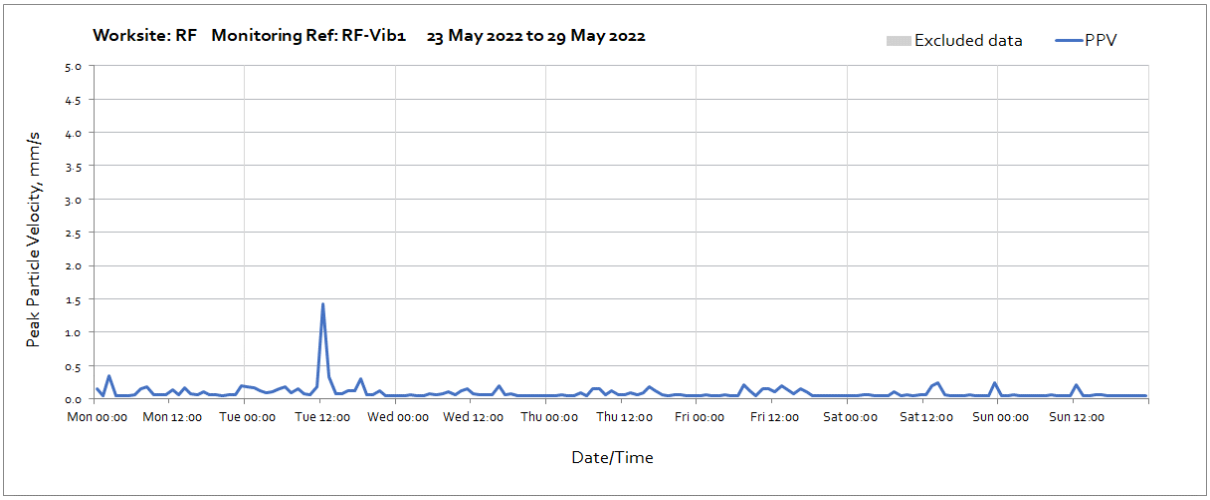


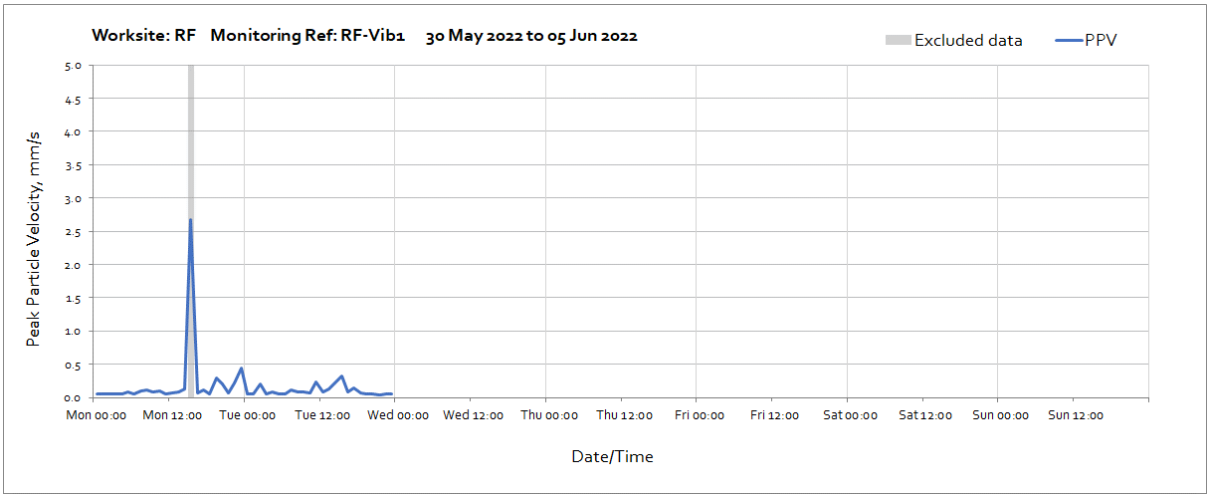




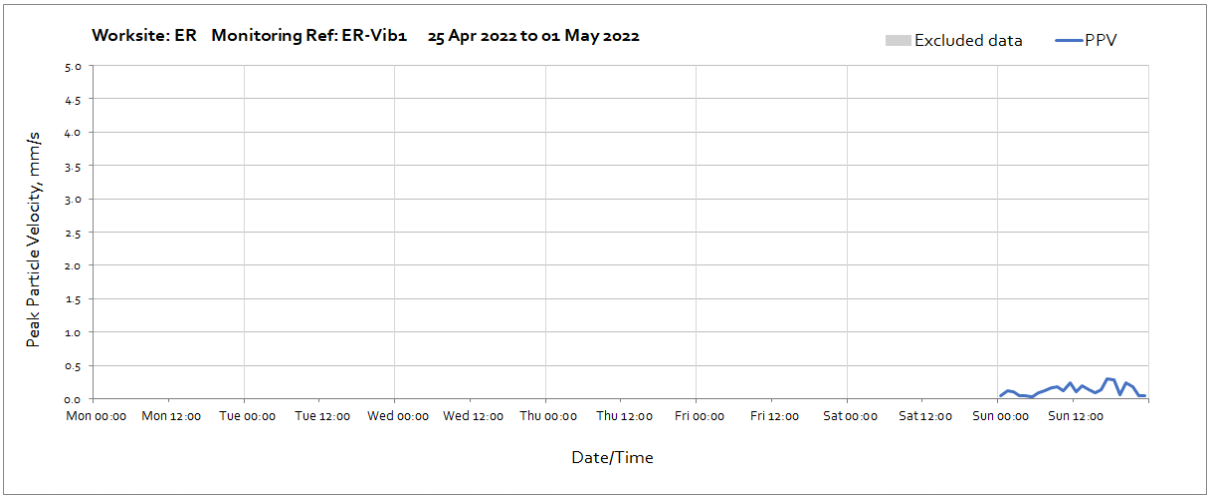
Note: High vibration level measured at 11:00 on Tuesday 10th May were due to local disturbance at the monitoring station and not representative of HS2 vibration level at the nearest receptor.

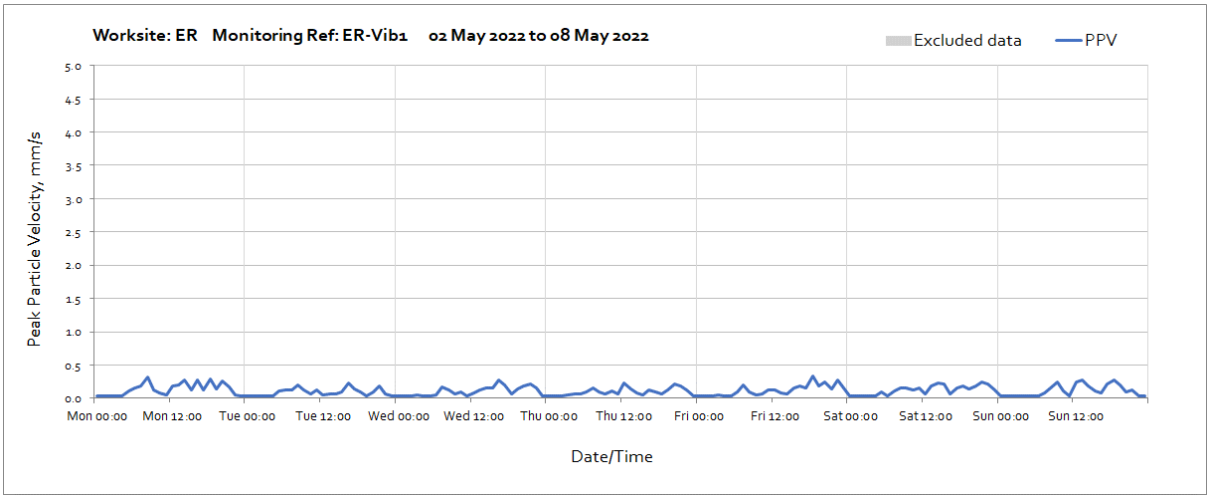


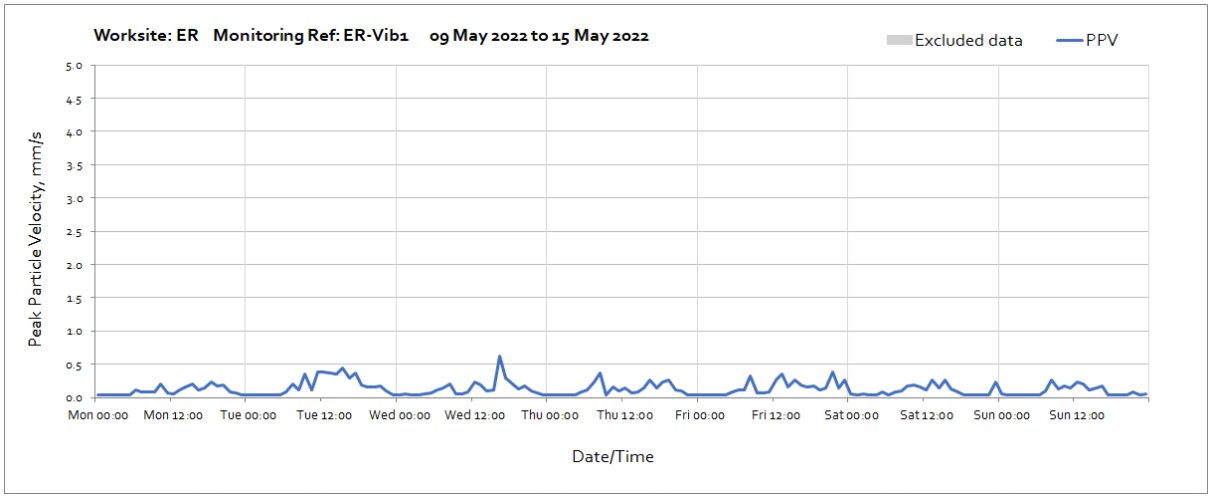


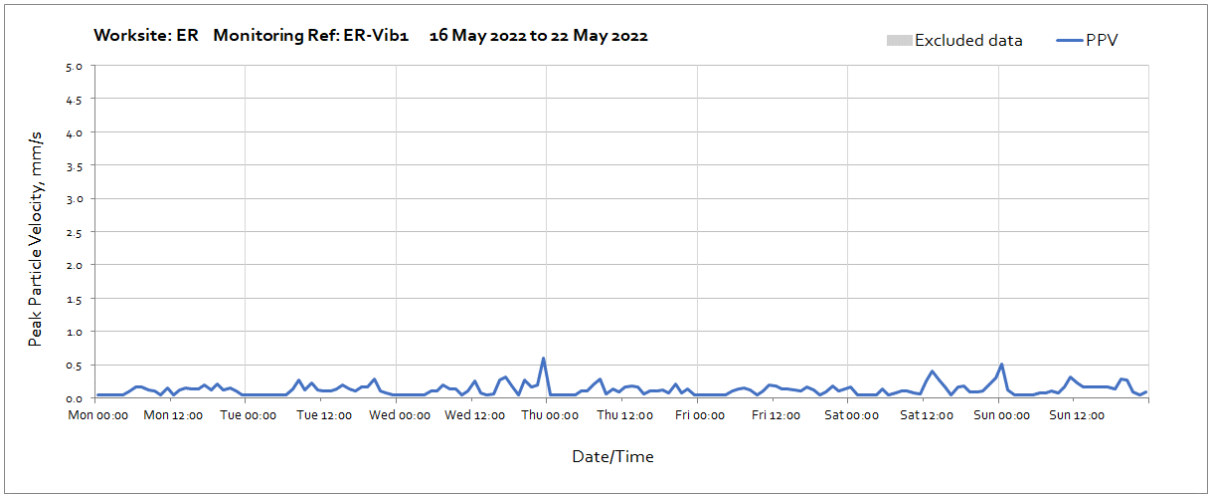


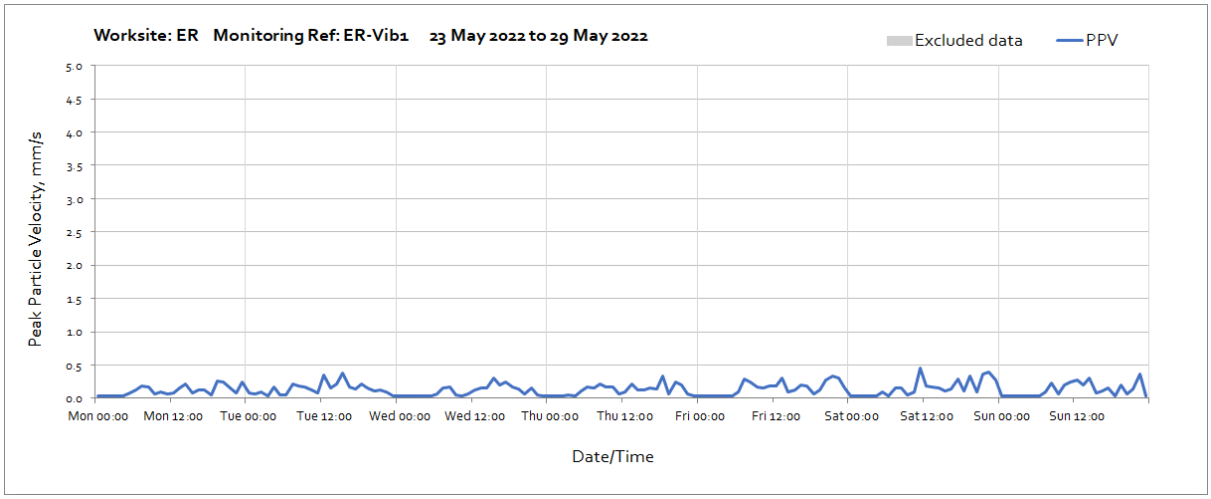
Worksite: ER – Monitoring Ref: ER-Vib 1

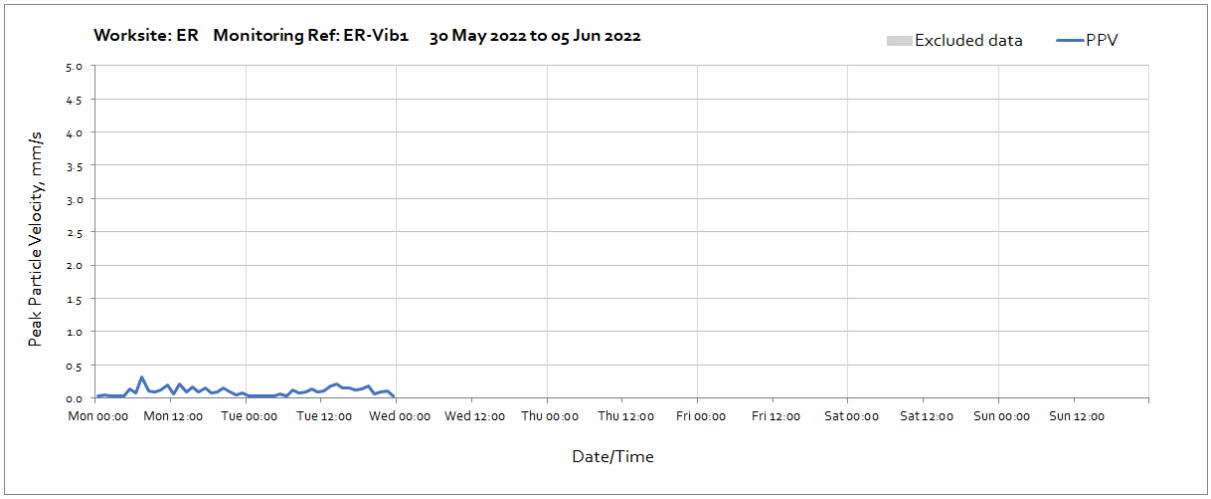





Worksite: ER Monitoring Ref: ER-Vib1 09 May 2022 to 15 May 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: ER Monitoring Ref: ER-Vib1 16 May 2022 to 22 May 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: ER Monitoring Ref: ER-Vib1 23 May 2022 to 29 May 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: ER Monitoring Ref: ER-Vib1 30 May 2022 to 05 Jun 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