HS2

June 2025

Construction Noise and Vibration Monthly Report – May 2025

London Borough of Ealing

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Non-Technical Summary

This Noise and Vibration Monitoring Report fulfils HS2 Limited's commitment detailed in the Environmental Minimum Requirements (EMRs), Annex 1, Code of Construction Practice, to present the results of noise and vibration monitoring carried out within the London Borough of Ealing (LBE) during the month of May 2025.

In addition, select monitoring locations in the London Borough of Hammersmith and Fulham (LBFH) and London Borough of Brent (LBB) associated with HS2 sites within LBE are presented in this report.

Within this period monitoring was undertaken at the following worksites:

- Mandeville Road Ventilation Shaft worksite (ref.: MRVS), where construction of reinforced concrete elements, concrete collars, internal elements, concrete plenum and walls, beam works, excavation, installation of props and miscellaneous works were underway.
- Green Park Way Ventilation Shaft worksite (ref.: GPWVS), where general site operations, utility works, maintenance of shaft dewatering system, installation of shutter pipe and dewatering wells and tunnel boring machine works were underway.
- Westgate Ventilation Shaft (ref.: WVS), where steelwork installation, cement spray coating, excavation, decking installation, waterproofing, remedial works, striking scaffolding, utility works, drainage, concrete and internal works were underway.
- Atlas Road worksite (ref.: AR) where general maintenance works, tunnel boring machine construction support, materials movements, delivery of tunnel segment and tunnel boring machine back up components and conveyor operation were underway.
- Willesden EuroTerminal worksite (ref.: WET), where general site maintenance, spoil deliveries and removal, and tunnel segments deliveries and loading were underway.
- Victoria Road Crossover Box worksite (worksite ref.: VRCB), where support works for tunnelling, operation of craneage and ventilation fans, deliveries, construction of concrete elements, demobilisation, head house construction, blockwork installation, conveyor maintenance, tunnelling works, secondary lining and concrete invert construction were underway.
- Flat Iron compound (worksite ref.: FIC), where support works for tunnelling, operation of craneage and ventilation fans, deliveries, construction of concrete elements, demobilisation, head house construction, blockwork installation, conveyor maintenance, tunnelling works, secondary lining and concrete invert construction were underway.

- Old Oak Common depot worksite (ref.: OOC), where concrete batching plant operation, materials management and haulage, steel and shutter fixing, concrete pouring works, formwork, striking, digging, backfilling, excavation, sheet piling, ground levelling, road sweeping, welding, utility trial holes, trench boxes dismantling, concrete plinths installation and material deliveries were underway.

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

- On network works (south of Wells House Road), where overhead line equipment and civil works were underway.
- Northolt Tunnels West and East Cross Passage, where tunnel bore machine operation, tunnel inversion works, cross passage construction works including secondary lining, waterproofing, coring, excavation and sprayed concrete lining 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 ten (10) times during the reporting period.

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

Seven (7) complaints were received during the monitoring period. A description of complaints, the results of investigation and any actions taken are detailed in Table 8 of this report.

Abbreviations and Descriptions

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

Table 1: Table of Abbreviations

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

1 Introduction

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

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

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 London Borough of Ealing (LBE) during the month for the period 1st to 31st May 2025.

1.1.3 Select monitoring locations in the London Borough of Hammersmith and Fulham (LBFH) and London Borough of Brent (LBB) associated with HS2 sites within LBE are presented in this report.

1.1.4 Active construction sites in the local authority area, where noise and vibration monitoring were conducted during this period, include:

- Mandeville Road Ventilation Shaft worksite, reference MRVS (see plan 1 in Appendix A), where work activities included:
    - Construction of reinforced concrete elements, concrete collars, internal elements, concrete plenum and walls.
    - Beam works.
    - Excavation.
    - Installation of props.
    - Miscellaneous works, including security, maintenance and dewatering operations.

- Green Park Way Ventilation Shaft worksite, reference GPWVS (see plan 2 in Appendix A), where work activities included:
    - General site operations, including maintenance and road sweeping.
    - Utility works.
    - Maintenance of shaft dewatering system.
    - Installation of shutter pipe.
    - Tunnel boring machine works including lifting, section removal and dismantling.
    - Installation of dewatering wells.
- Westgate Ventilation Shaft worksite, reference WVS (see plan 3 in Appendix A), where work activities included:
    - Steelwork installation.
    - Cement spray coating.
    - Excavation.
    - Decking installation.
    - Waterproofing.
    - Remedial works.
    - Striking scaffolding.
    - Utility works.
    - Concrete works.
    - Drainage works.
    - Internal works.
- Atlas Road worksite, ref. AR (see plan 4 in Appendix A), where work activities included:
    - General maintenance works.
    - Tunnel boring machine construction support.
    - Materials movements.
    - Delivery of tunnel segment and tunnel boring machine back up components.
    - Conveyor operation.

- Willesden EuroTerminal worksite, ref. WET (see plan 4 in Appendix A), where work activities included:
    - General site maintenance.
    - Spoil deliveries and removal.
    - Tunnel segments deliveries and loading.
- Victoria Road Crossover Box worksite, ref. VRCB (see plan 4 in Appendix A), where work activities included:
    - Support works for tunnelling, including operation of water treatment, water cooling and grout plants, and operation of conveyors and compressors.
    - Operation of craneage and ventilation fans.
    - Deliveries.
    - Construction of concrete elements.
    - Demobilisation, including removal of tanks, grout line and temporary walkways.
    - Head house construction.
    - Blockwork installation.
    - Conveyor maintenance.
    - Tunnelling works, including excavation and sprayed concrete lining.
    - Secondary lining construction.
    - Concrete invert construction.
- Flat Iron compound, worksite ref. FIC (see plan 4 in Appendix A), where work activities included:
    - Support works for tunnelling, including operation of water treatment, water cooling and grout plants, and operation of conveyors and compressor.
    - Operation of craneage and ventilation fans.
    - Deliveries.
    - Construction of concrete elements.
    - Demobilisation, including removal of tanks, grout line and temporary walkways.
    - Head house construction.
    - Blockwork installation.

- Conveyor maintenance.
- Tunnelling works, including excavation and sprayed concrete lining.
- Secondary lining construction.
- Concrete invert construction.

- Old Oak Common depot worksite, located in the London Borough of Hammersmith and Fulham (LBHF), ref. OOC (see plan 4 in Appendix A), where work activities included:
  - Concrete batching plant operation.
  - Materials management and haulage.
  - Steel and shutter fixing.
  - Concrete works, including concrete pours and concrete breaking.
  - Formwork, including erection.
  - Striking.
  - Digging.
  - Backfilling.
  - Excavation.
  - Sheet piling.
  - Ground levelling.
  - Road sweeping.
  - Welding.
  - Utilities trial holes.
  - Trench boxes dismantling.
  - Concrete plinths installation.
  - Material deliveries.

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

- On network works (south of Wells House Road), where overhead line equipment and civil works were underway.
- Northolt Tunnels West and East Cross Passage, where tunnel bore machine operation, tunnel inversion works, cross passage construction works including

secondary lining, waterproofing, coring, excavation and sprayed concrete lining 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 Twenty-one (21) noise and eight (8) vibration monitoring installations were active in May in the LBE area. Table 2 summarises the location of noise and vibration monitoring installations within the LBE area in May 2025.

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

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
MRVS	N040	Badminton Close
	N058	Mandeville Road North hoarding, Northeast Part of Site
	N063	Mandeville Road, North Hoarding, Northwest part of Site
	BLV-N001	45 Belvue Road
	V055b	Carr Road rear garden
	V056	Mandeville Road, North Hoarding, Northwest part of Site
GPWVS	N059	Greenpark Way East boundary on hoarding
	N064	Greenpark Way outside Tetris building
	V053	Greenpark Way Eastern boundary
	V054	Greenpark Way outside Tetris building (West of Site)
WVS	N062	Westgate Ventilation Shaft, on site hoarding in Northeast corner of site.
AR	N032	Shaftesbury Gardens
	N033	Outside The Collective, Atlas Road / Victoria Road
	N060	Atlas Road next to Bashey Road

Worksite Reference	Measurement Reference	Address
WET	N034	Stephenson Street (north)
	N035	Stephenson Street (south)
	N041a	Harley Road
	V057	37, Stephenson Street
	V052a	63, Stephenson Street
VRCB	N031	School Road, outside Acton Business Centre
FIC	N029	Braitrim House, Victoria Road
	N042	Boden House Car Park
	N049	Flat Iron compound railway fence, Victoria Rd North Acton
OOC	OOC-N01	Adjacent to 205 Old Oak Common Lane
	OOC-N02	Old Oak Common Lane, Hilltop Works
	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road
	OOC-N04	UTX southern boundary
	OOC-V02	Kildun Court, Old Oak Common Lane
	OOC-V03	Wells House Road Alleyway

2 Summary of Results

2.1 Summary of Measured Noise and Vibration Levels

2.1.1 Table 3 presents a summary of the measured noise levels at each monitoring location over the reporting period. The $L_{Aeq,T}$ is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period $L_{Aeq,T}$ that was found to occur within the month.

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

Worksite Reference	Measurement Reference	Site Address	Free-field or Façade measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
MRVS	N040	Badminton Close	Free field	51.3 (55.0)	52.4 (55.9)	51.2 (54.4)	51.7 (57.6)	49.7 (56.3)	50.9 (53.9)	51.3 (53.6)	50.3 (53.1)	51.7 (54.7)	49.8 (53.8)	51.0 (54.8)	48.9 (53.7)
	N058	Mandeville Road	Free field	60.2 (66.6)	64.1 (70.8)	56.6 (66.4)	50.4 (58.0)	48.1 (59.0)	49.2 (53.8)	50.9 (55.6)	50.0 (54.0)	49.9 (54.9)	48.1 (57.0)	48.8 (54.6)	46.7 (51.9)
	N063	Mandeville Road	Free field	56.9 (62.8)	59.8 (64.0)	56.1 (62.0)	55.5 (62.6)	53.4 (59.1)	55.0 (58.3)	54.6 (57.9)	54.5 (57.7)	55.1 (59.1)	53.6 (58.0)	54.2 (59.0)	52.6 (57.1)
	BLV-N001	45 Belvue Road	Free field	56.3 (60.8)	57.7 (65.4)	53.3 (57.8)	50.7 (66.5)	48.5 (61.6)	51.1 (53.5)	51.1 (54.0)	52.6 (60.9)	49.9 (53.8)	48.1 (53.5)	49.1 (53.9)	47.5 (53.7)
GPWVS	N059	Green Park Way Ventilation Shaf	Free field	57.2 (65.4)	61.8 (65.7)	53.0 (61.6)	57.1 (62.6)	55.2 (62.5)	54.8 (57.1)	59.6 (62.8)	59.4 (63.6)	56.7 (64.6)	55.6 (61.8)	55.9 (66.5)	54.9 (59.5)
	N064	Green Park Way Ventilation Shaft	Façade	56.3 (76.8)	60.0 (75.8)	55.9 (61.7)	55.5 (60.9)	53.8 (58.3)	53.7 (55.7)	54.9 (56.3)	55.3 (57.4)	55.2 (60.2)	53.5 (59.1)	54.9 (62.1)	53.3 (56.7)
WVS	N062	Westgate Ventilation Shaft	Free field	62.1 (67.0)	62.6 (66.5)	57.2 (62.8)	56.1 (59.2)	54.7 (67.1)	61.2 (64.1)	59.9 (63.4)	58.5 (65.8)	57.8 (67.0)	53.7 (57.7)	58.8 (66.7)	54.7 (62.3)

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
AR	N032	Shaftesbury Gardens	Free field	64.2 (66.1)	64.8 (66.9)	63.9 (69.7)	62.9 (67.4)	60.3 (64.8)	61.5 (62.3)	63.3 (63.9)	63.6 (64.8)	63.2 (66.1)	60.4 (69.9)	62.7 (68.0)	59.9 (64.1)
	N033	Outside The Collective, Atlas Road/Victoria Road	Free field	66.3 (68.5)	66.2 (67.9)	65.3 (69.3)	64.0 (71.0)	61.2 (68.7)	63.2 (64.8)	65.1 (66.9)	64.9 (67.0)	64.9 (71.6)	61.7 (75.4)	63.6 (70.6)	60.4 (64.6)
	N060	Atlas Road next to Bashey Road	Free field	62.1 (71.6)	68.4 (70.9)	53.6 (64.9)	69.5 (73.1)	69.0 (73.4)	64.2 (68.9)	69.5 (70.9)	69.8 (71.0)	68.9 (72.6)	69.3 (72.2)	70.1 (74.1)	69.4 (72.2)
WET	N034	Stephenson Street (north)	Free field	56.1 (66.2)	57.4 (61.5)	56.7 (60.6)	56.1 (67.5)	51.9 (58.6)	51.8 (55.4)	55.1 (57.7)	55.2 (58.1)	55.2 (64.8)	48.8 (56.2)	54.8 (59.7)	48.6 (55.4)
	N035	Stephenson Street (south)	Free field	57.1 (67.4)	56.7 (59.2)	53.5 (62.3)	52.2 (60.6)	48.9 (56.1)	53.3 (56.7)	54.4 (57.4)	53.5 (53.9)	54.2 (63.8)	48.1 (56.3)	52.8 (57.7)	48.0 (54.3)
	N041a	Harley Road	Free field	61.4 (64.4)	61.7 (64.6)	62.0 (69.3)	61.2 (65.6)	56.7 (62.7)	60.5 (61.6)	61.3 (62.0)	60.5 (62.2)	62.1 (70.4)	56.6 (63.0)	59.4 (64.6)	55.6 (61.9)
VRCB	N031	School Road, outside Acton Business Centre	Free field	61.8 (63.6)	63.5 (66.2)	60.7 (67.7)	60.5 (64.4)	59.7 (66.7)	60.1 (61.1)	63.5 (67.8)	62.4 (66.7)	61.4 (66.3)	59.8 (63.1)	60.7 (66.3)	60.0 (69.4)

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
FIC	N029	Braitrim House, Victoria Road	Free field	55.3 (61.1)	61.7 (64.4)	54.6 (63.0)	59.8 (69.5)	59.7 (71.0)	56.8 (59.7)	60.1 (64.4)	57.6 (60.3)	56.1 (61.0)	56.1 (68.1)	56.4 (59.4)	55.9 (59.6)
	N042	Bodens car park	Free field	63.2 (66.3)	63.9 (66.1)	57.0 (61.7)	62.0 (67.2)	61.5 (66.9)	62.1 (64.6)	63.6 (65.4)	63.0 (65.1)	61.5 (65.9)	61.5 (66.5)	62.6 (66.0)	61.8 (66.3)
	N049	Flat Iron compound	Free field	60.5 (68.2)	67.5 (73.4)	55.0 (60.4)	67.4 (72.8)	67.5 (73.5)	63.2 (72.4)	68.4 (71.8)	68.4 (71.3)	66.7 (73.3)	66.8 (72.5)	68.3 (72.6)	67.7 (72.5)
OOC	OOC-N01	Adjacent to 205 Old Oak Common Lane	Free-field	63.4 (64.8)	68.2 (73.0)	66.7 (69.7)	66.1 (73.1)	61.7 (69.4)	62.0 (62.2)	67.2 (70.3)	67.8 (72.1)	67.1 (75.7)	63.3 (69.5)	65.0 (73.5)	63.0 (69.1)
	OOC-N02	Old Oak Common Lane, Hilltop Works	Free-field	63.5 (64.9)	69.4 (72.2)	67.4 (69.7)	66.4 (73.1)	61.9 (70.3)	61.8 (62.4)	65.5 (66.6)	65.1 (65.9)	66.1 (71.5)	64.6 (72.8)	63.9 (70.1)	62.9 (70.3)
	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road	Free-field	55.6 (58.6)	58.3 (66.7)	57.5 (60.1)	57.4 (60.9)	53.1 (59.2)	54.8 (55.8)	57.3 (58.8)	56.8 (57.9)	57.2 (60.8)	53.6 (59.5)	55.2 (58.9)	52.4 (57.4)
	OOC-N04	UTX southern boundary	Free-field	57.8 (59.4)	66.4 (80.4)	60.4 (76.7)	59.7 (73.2)	55.3 (61.9)	55.9 (56.8)	63.3 (68.7)	62.6 (72.4)	60.0 (68.5)	56.6 (61.4)	57.3 (61.0)	55.8 (61.4)

2.1.2 Table 4 presents a summary of the measured vibration levels at each monitoring location over the reporting period. The highest PPV measured during the monitoring along any axis is presented in the table.

Table 4: Summary of Measured PPV Data over the Monitoring Period

Worksite Reference	Measurement Reference	Monitor Address	Highest PPV measured in any axis, mm/s
GPWVS	V053	Green Park Way, Greenford	2.89 (X-axis)
	V054	Green Park Way Ventilation Shaft	1.53 (Z-axis)
MRVS	V055b	Carr Road rear garden	0.99 (X-axis)
	V056	Mandeville Road	1.77 (X-axis)
WET	V052a	63, Stephenson Street	2.58 (Z-axis)
	V057	37, Stephenson Street	0.90 (Z-axis)
OOC	OOC-V02	Kildun Court, Old Oak Common Lane	1.10 (Z-axis)
	OOC-V03	Wells House Road Alleyway	1.35 (Y-axis)

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

2.2 Exceedances of the SOAEL

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

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

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

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

Table 5: Summary of Exceedances of SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
MRVS	N040	Badminton Close	All days	All periods	No exceedance
	N058	Mandeville Road	All days	All periods	No exceedance
	N063	Mandeville Road	All days	All periods	No exceedance
	BLV-N001	45 Belvue Road	All days	All periods	No exceedance
GPWVS	N059	Green Park Way Ventilation Shaft	All days	All periods	Not applicable*
	N064	Green Park Way Ventilation Shaft	All days	All periods	Not applicable*
WVS	N062	Westgate Ventilation Shaft	All days	All periods	Not applicable*
AR	N032	Shaftesbury Gardens	All days	All periods	No exceedance
	N033	Outside The Collective, Atlas Road / Victoria Road	All days	All periods	No exceedance
	N060	Atlas Road next to Bashey Road	All days	All periods	No exceedance
WET	N034	Stephenson Street (north)	All days	All periods	No exceedance
	N035	Stephenson Street (south)	All days	All periods	No exceedance
	N041a	Harley Street	All days	All periods	No exceedance
VRCB	N031	School Road, outside Acton Business Centre	All days	All periods	Not applicable*

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
FIC	N029	Braitrim House, Victoria Road	All days	All periods	No exceedance
	N042	Bodens Car Park	All days	All periods	No exceedance
	N049	Flat Iron compound	All days	All periods	No exceedance
OOC	OOC-N01	Adjacent to 205 Old Oak Common Lane	All days	All periods	No exceedance
	OOC-N02	Old Oak Common Lane, Hilltop Works	All days	All periods	No exceedance
	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road	Night	2200-0700	12
	OOC-N04	UTX southern boundary	Weekday	0800-1800	3

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

2.2.5 There were exceedances of the SOAEL due to HS2 construction works at two (2) monitoring locations during night periods.

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

Table 6: Summary of Total Exceedances of SOAEL

Worksite Reference	Measurement Reference	Monitor Address	Total of SOAEL exceedances in the month
OOC	OOC-N03	Wycombe Triangle at the rear of 63 Wells House Road	7
	OOC-N04	UTX southern boundary	3

2.2.7 There were ten (10) 24-hour periods where the SOAEL was exceeded due to HS2 construction works during May 2025.

2.3 Exceedances of Trigger Level

2.3.1 Table 7 provides a summary of exceedances of the Section 61 trigger noise levels determined to be due to HS2 related construction noise measured during the reporting period, along with the findings of any investigation.

Table 7: Summary of Exceedances of Trigger Levels

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

2.4 Complaints

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

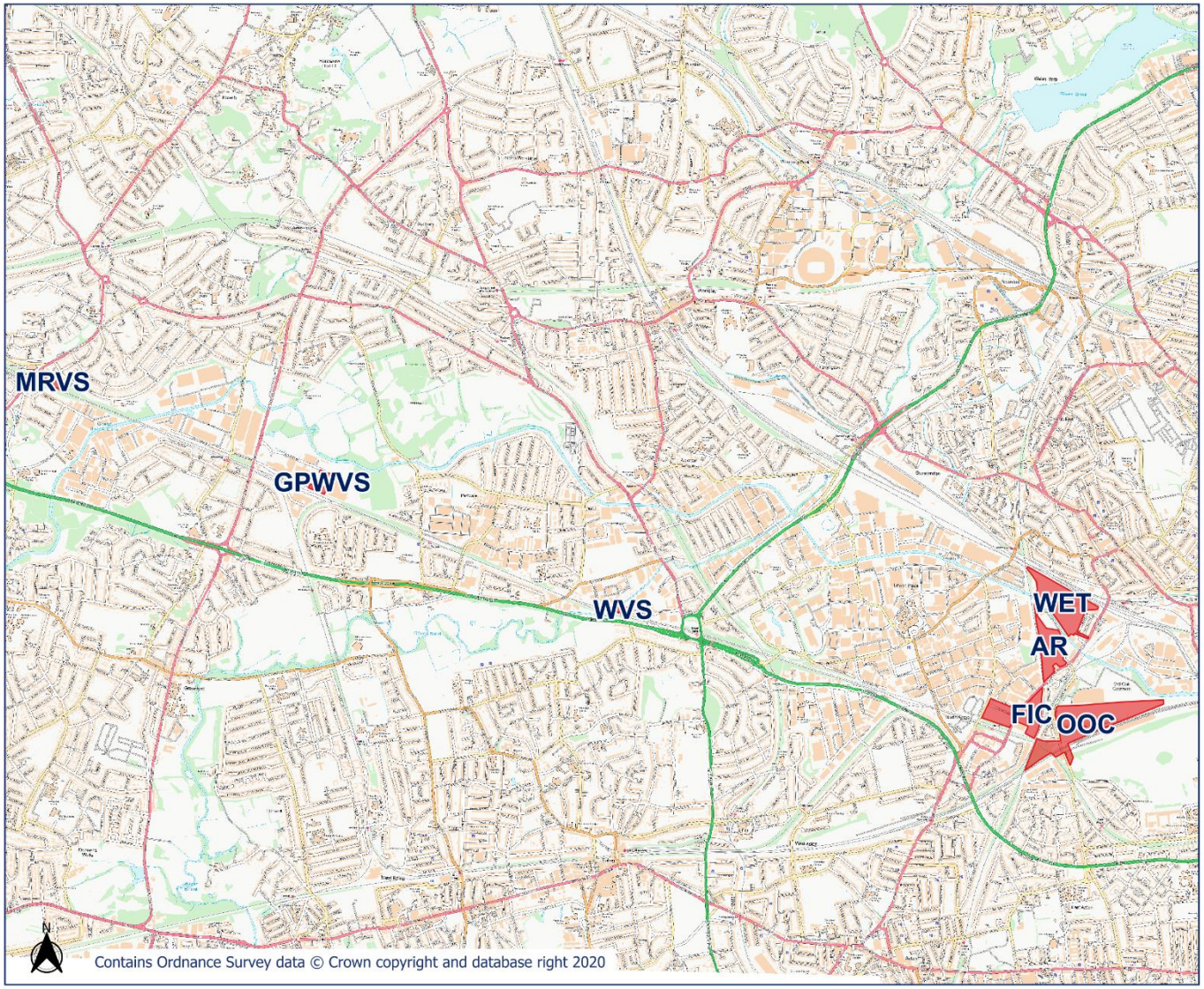
Table 8: Summary of Complaints

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-121690-E-C	OOC	Complaint regarding general site noise.	Noise due to concrete breaking. Acoustic barriers are in place. The noise monitors were checked, noise levels were within Section 61 requirements.	The resident has requested not to be contacted further.
HS2-25-121804-E-C	GPWVS	Complaint due to ongoing drilling noise.	Noise due to a hand drill being used on nearby cross passage work. 24/7 works have been authorised and are now complete. The noise monitors were checked, noise levels were within Section 61 requirements.	Information was provided to the stakeholder confirming the results of investigation.

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-121805-E-C	OOC	Complaint about truck/vehicle noises.	All residents were advised in advance of works taking place. The area is surrounded by noise barriers. The noise monitors were checked, noise levels were within Section 61 requirements. Works have now been completed.	Information was provided to the stakeholder confirming the results of investigation.
HS2-25-121954-E-C HS2-25-46364-C	OOC	Complaint regarding drilling noise.	All residents received notice of works. The noise was related to planned tunnelling activities, involving the removal of a concrete lining. The noise levels were slightly higher than usual but still Section 61 requirements.	Information was provided to the stakeholder confirming the results of investigation.
HS2-25-122019-E-C	OOC	Complaint due to high pitched noise.	No site activities were underway at the time of complaint. The noise monitors were checked, noise levels were within Section 61 requirements.	Information was provided to the stakeholder confirming the results of investigation.
HS2-25-122204-E-C	WET	Complaint about vibration levels.	Related to installation of a vibration monitor as discussed on a recent engagement meeting. Stakeholder did not want it escalated further.	Not applicable.

Appendix A Site Locations

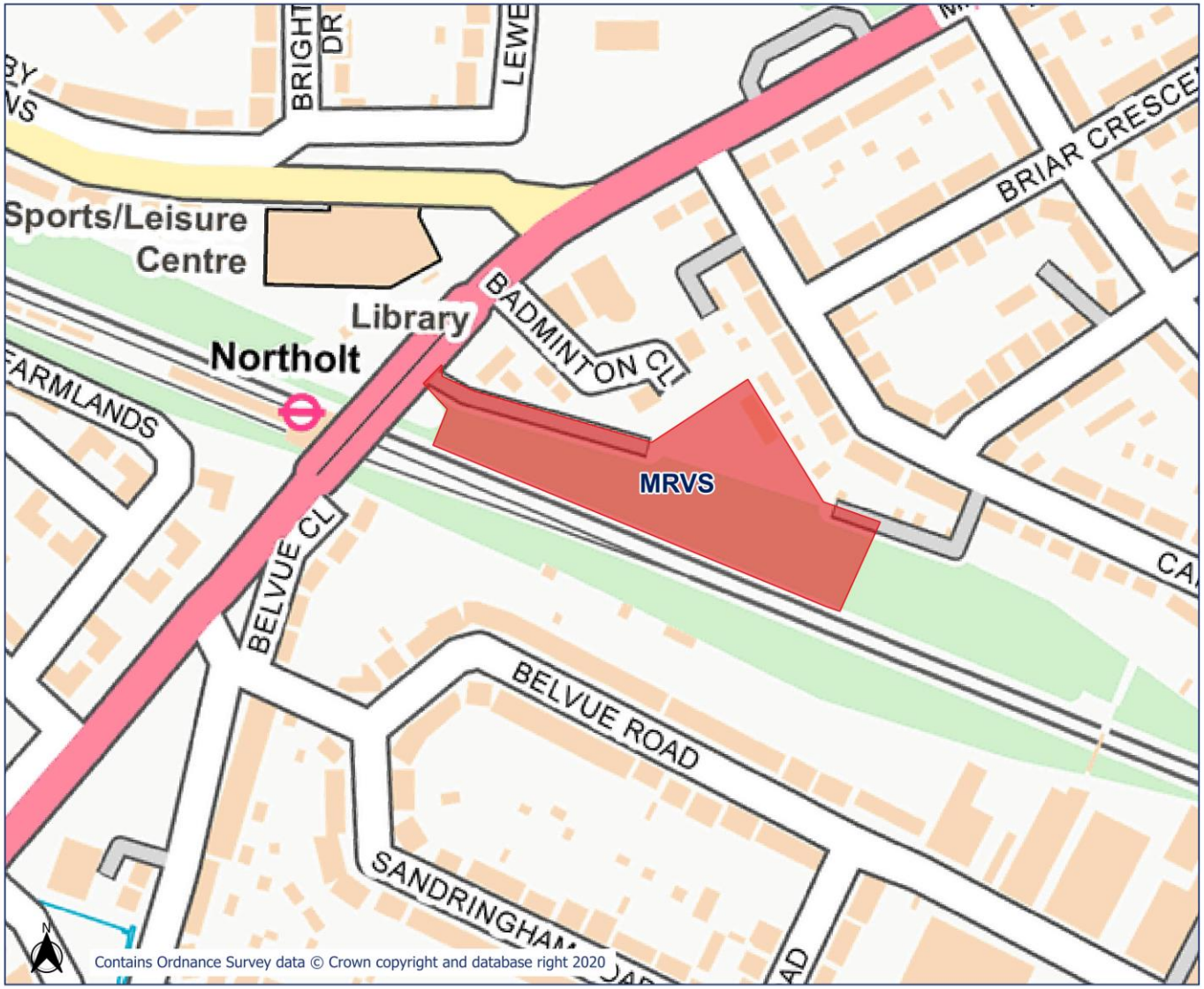
Worksite Identification Plan - Overview



Legend

Active Worksites

Worksite Identification Plan - 1



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Active Worksites

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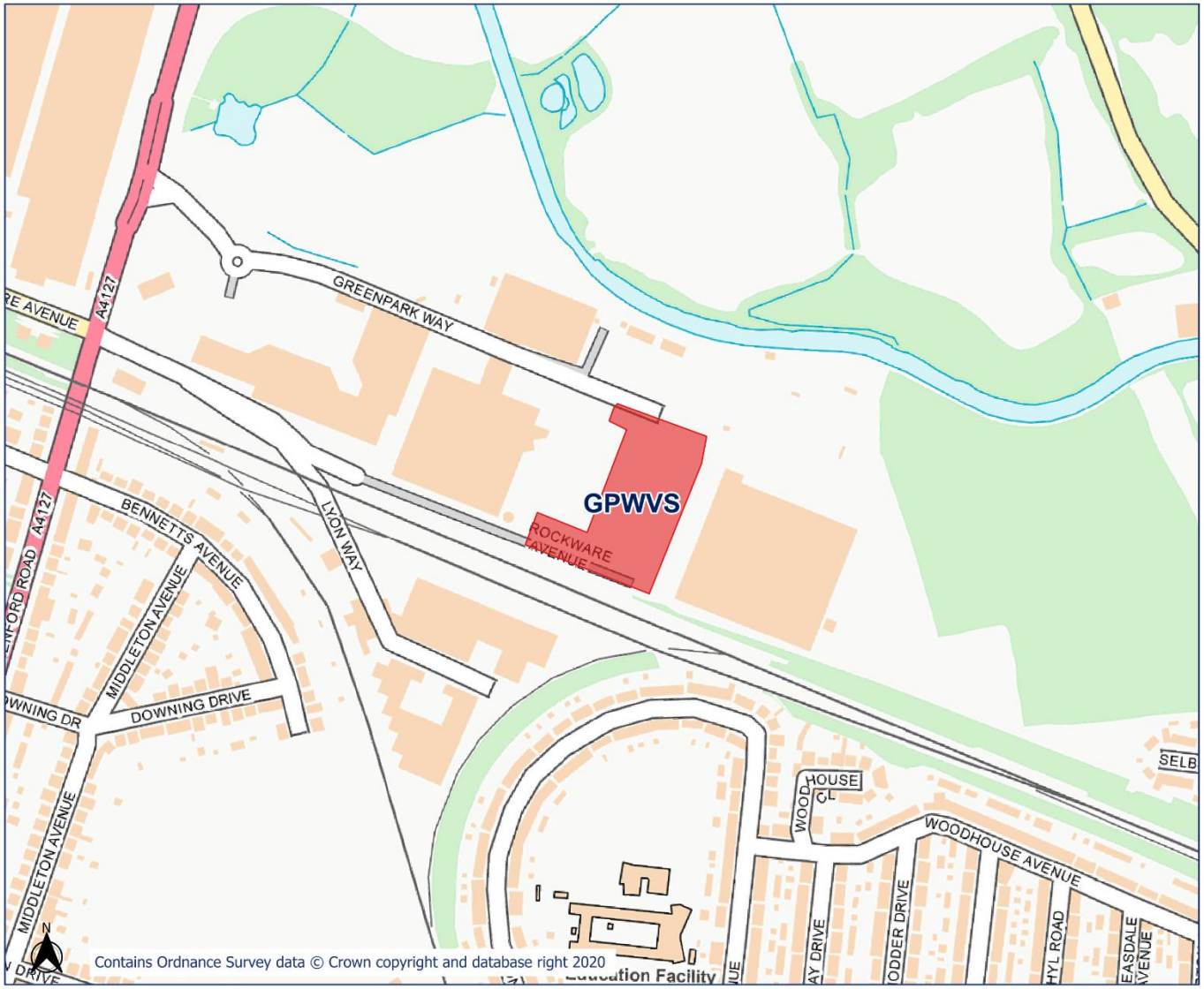

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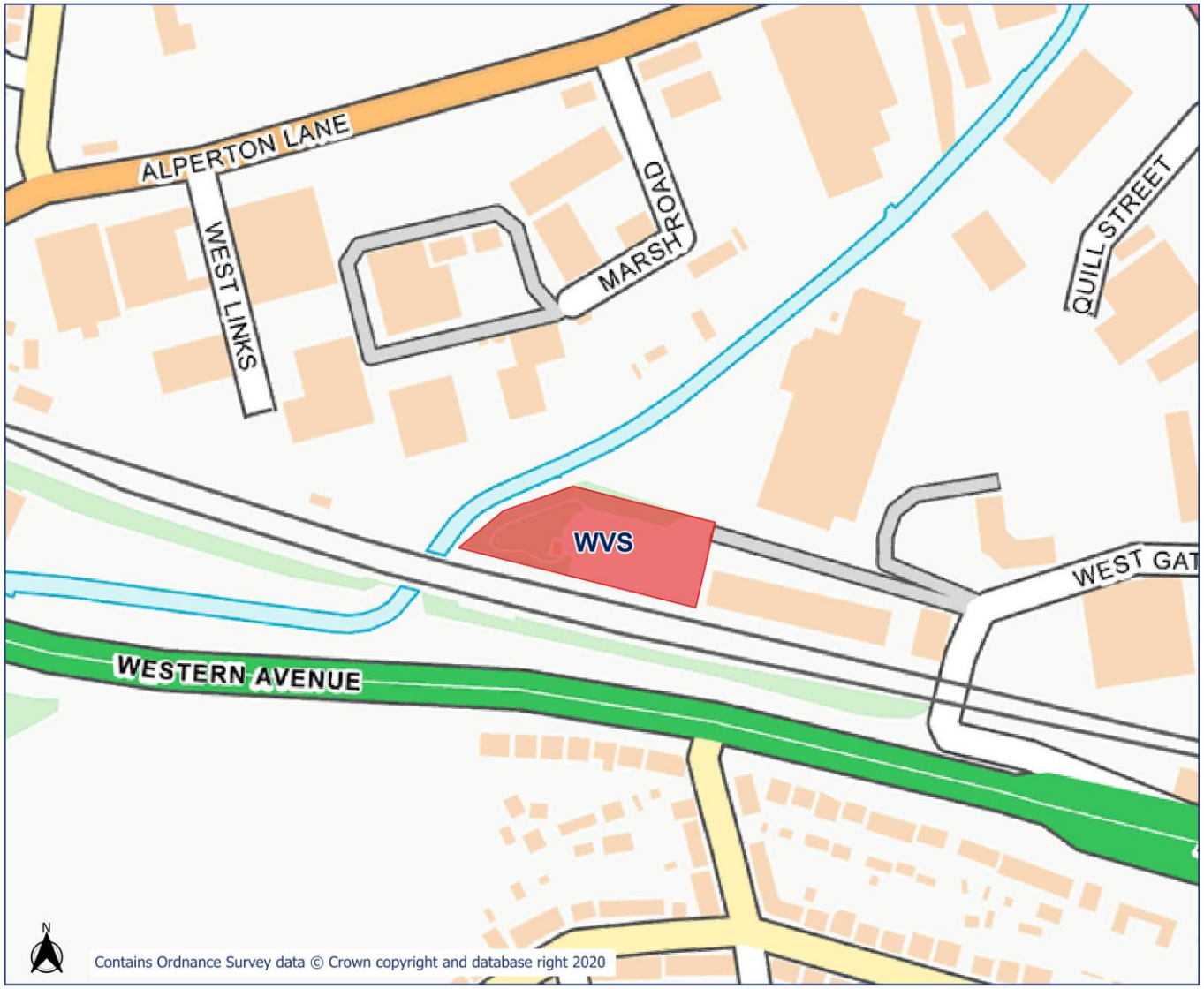
Active Worksites

Worksite Identification Plan - 3



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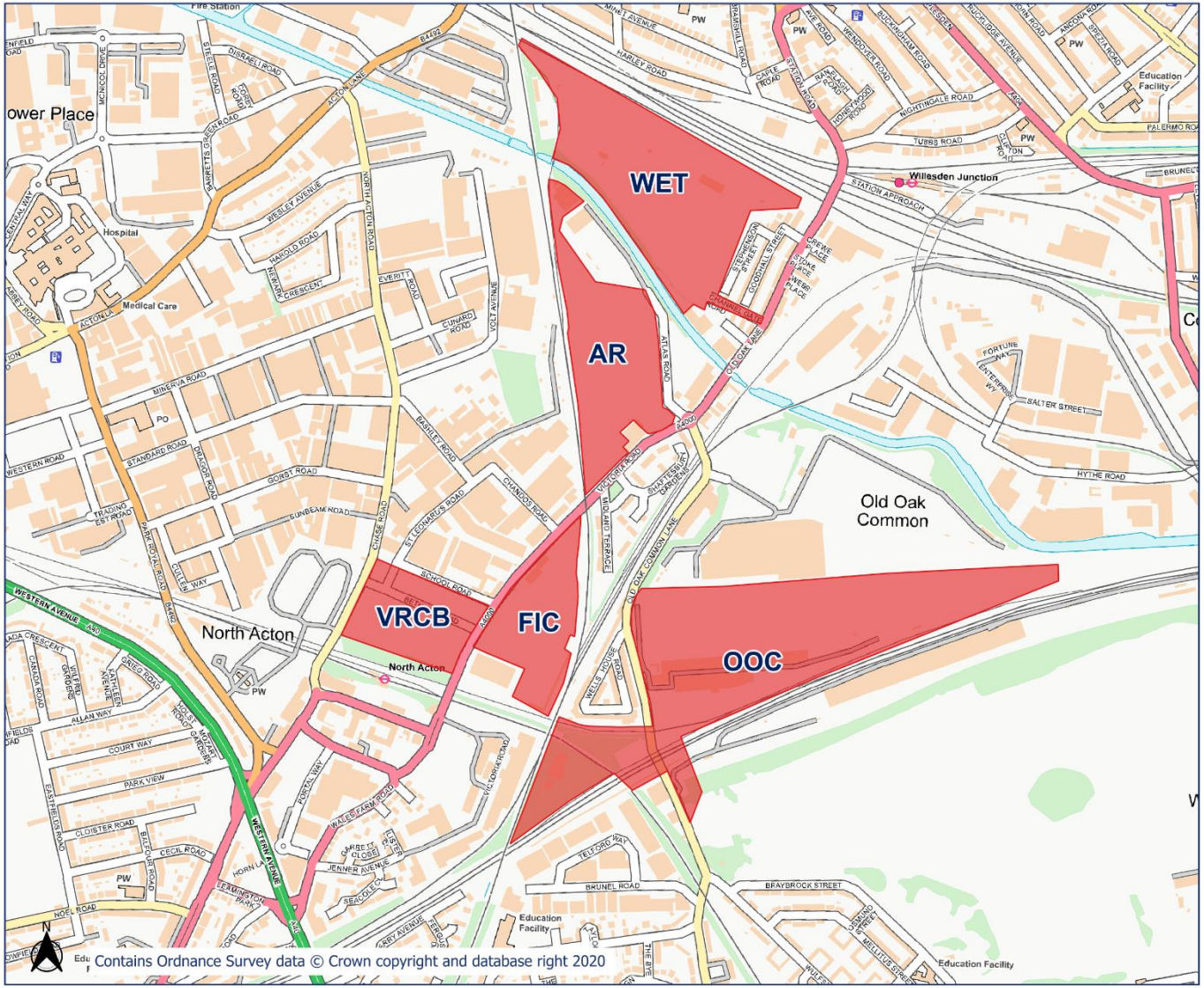
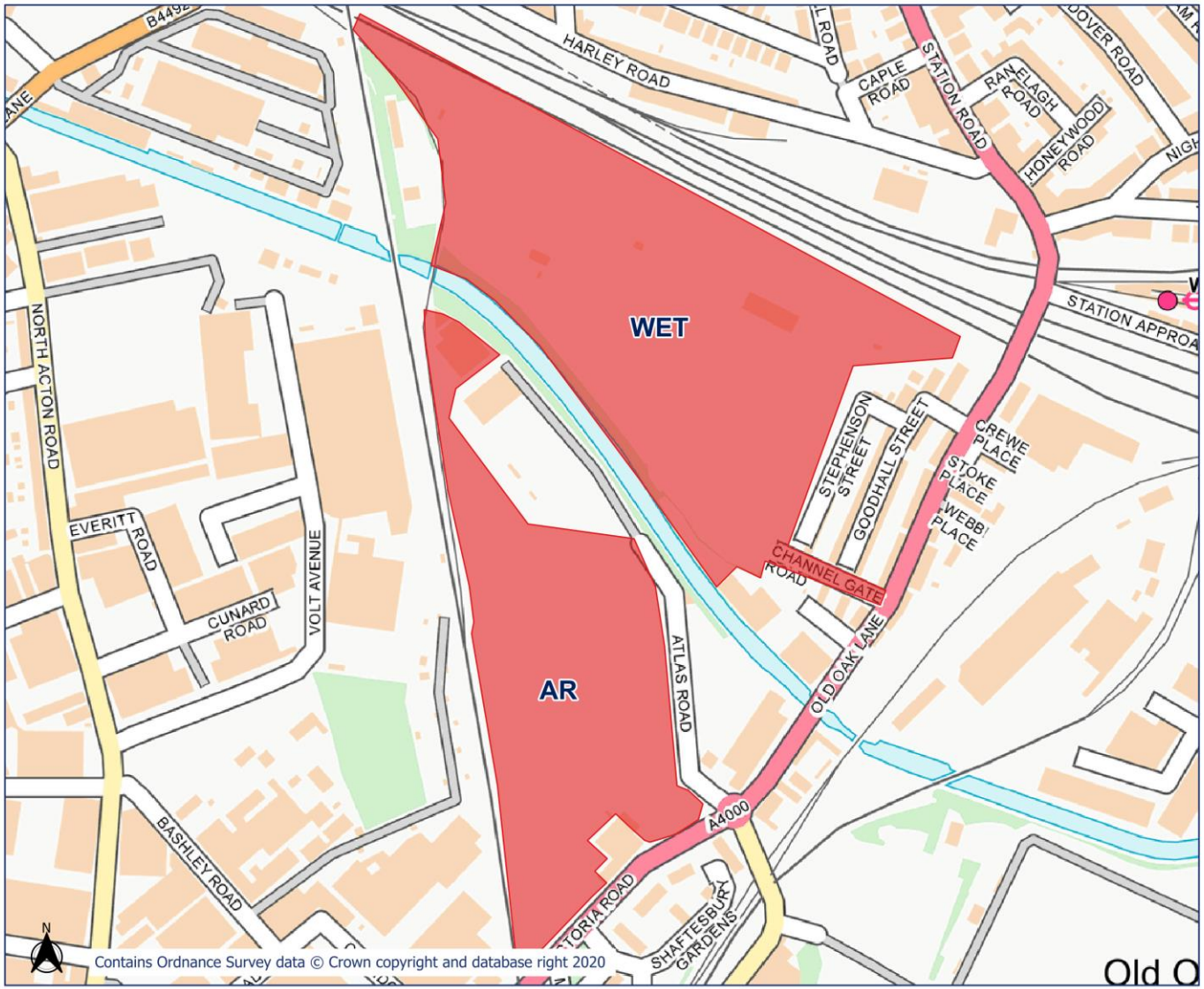
Active Worksites

Worksite Identification Plan - 4



Worksite Identification Plan - 5



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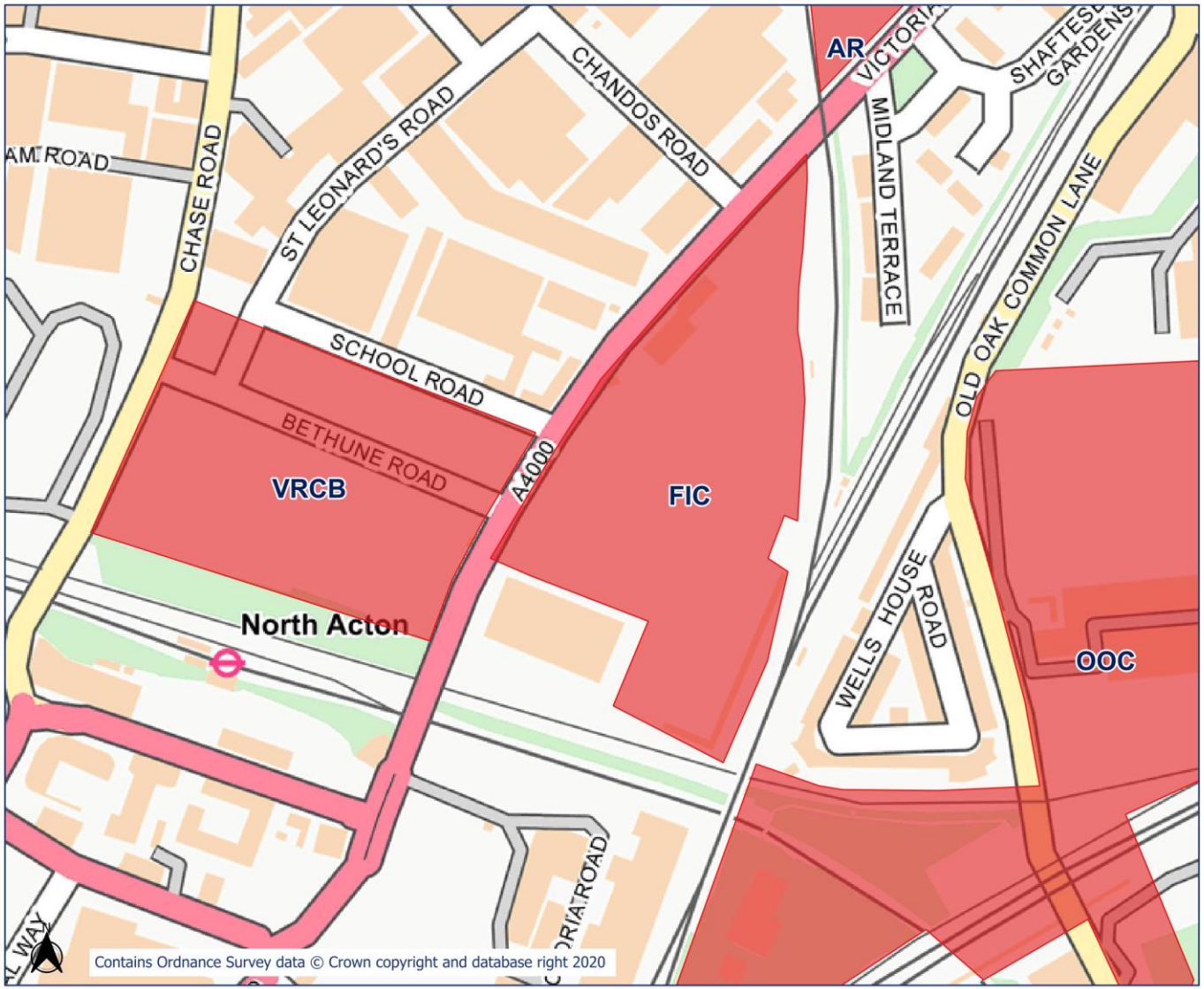
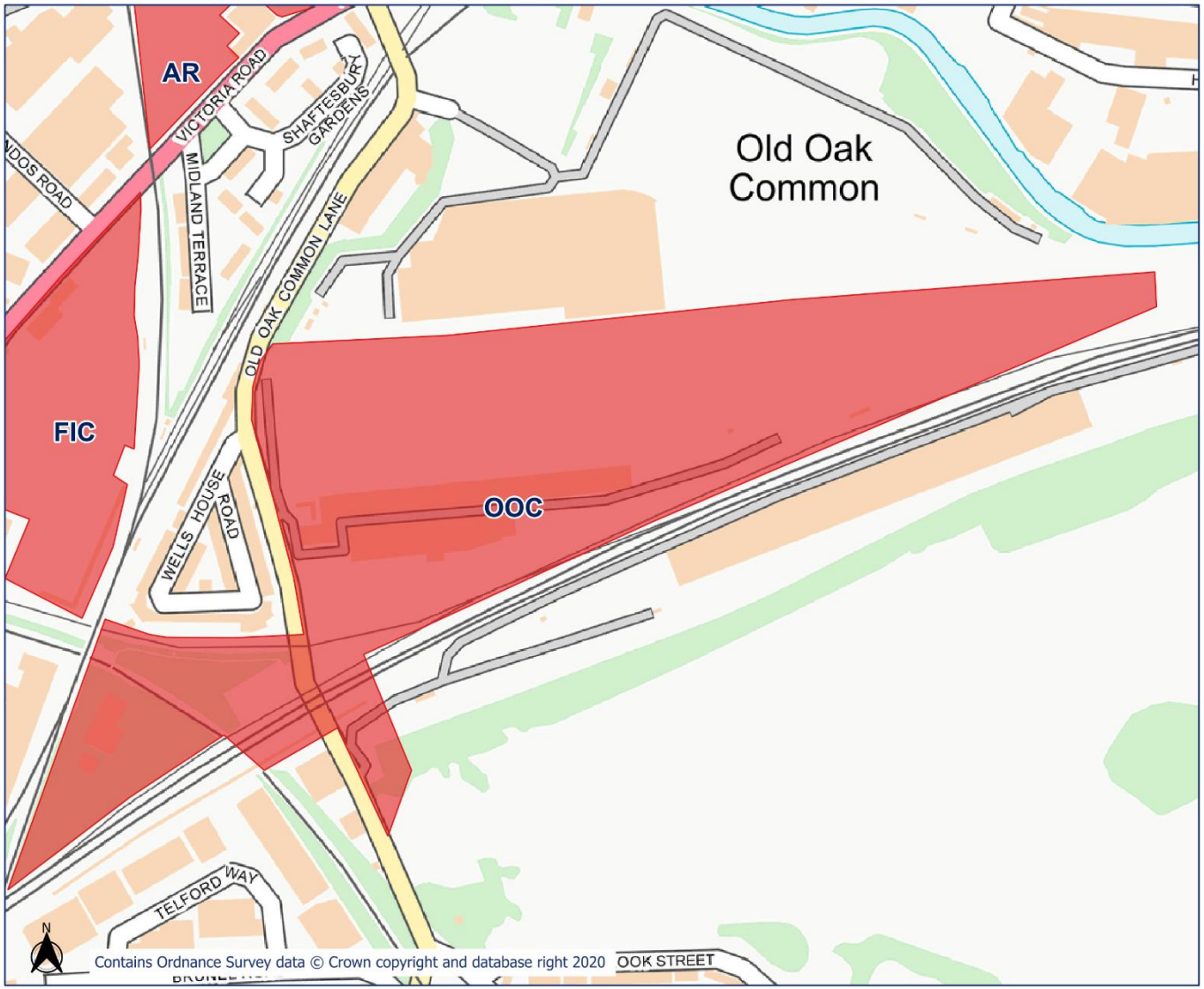
Active Worksites

Worksite Identification Plan - 6



Worksite Identification Plan - 7

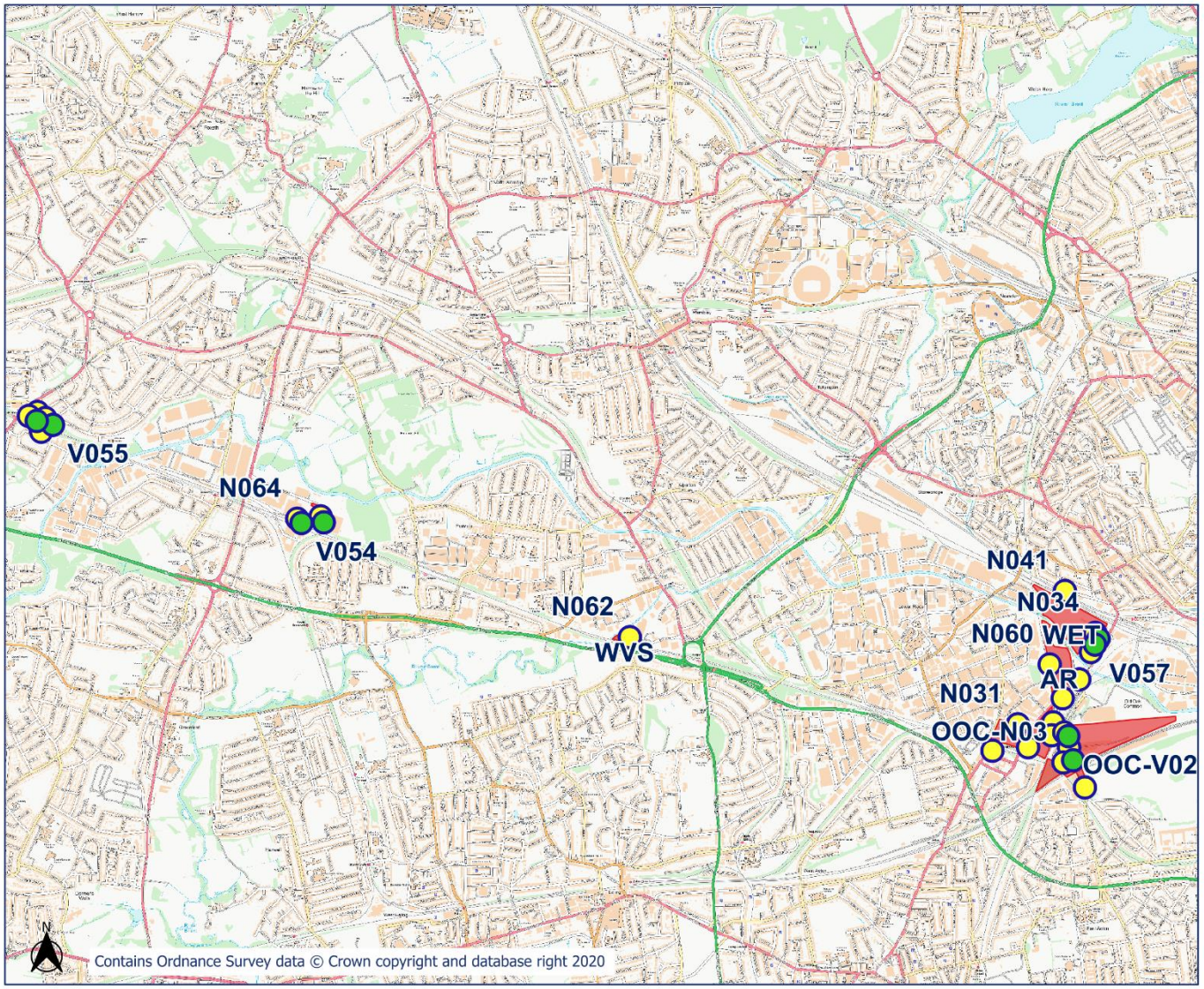


Legend

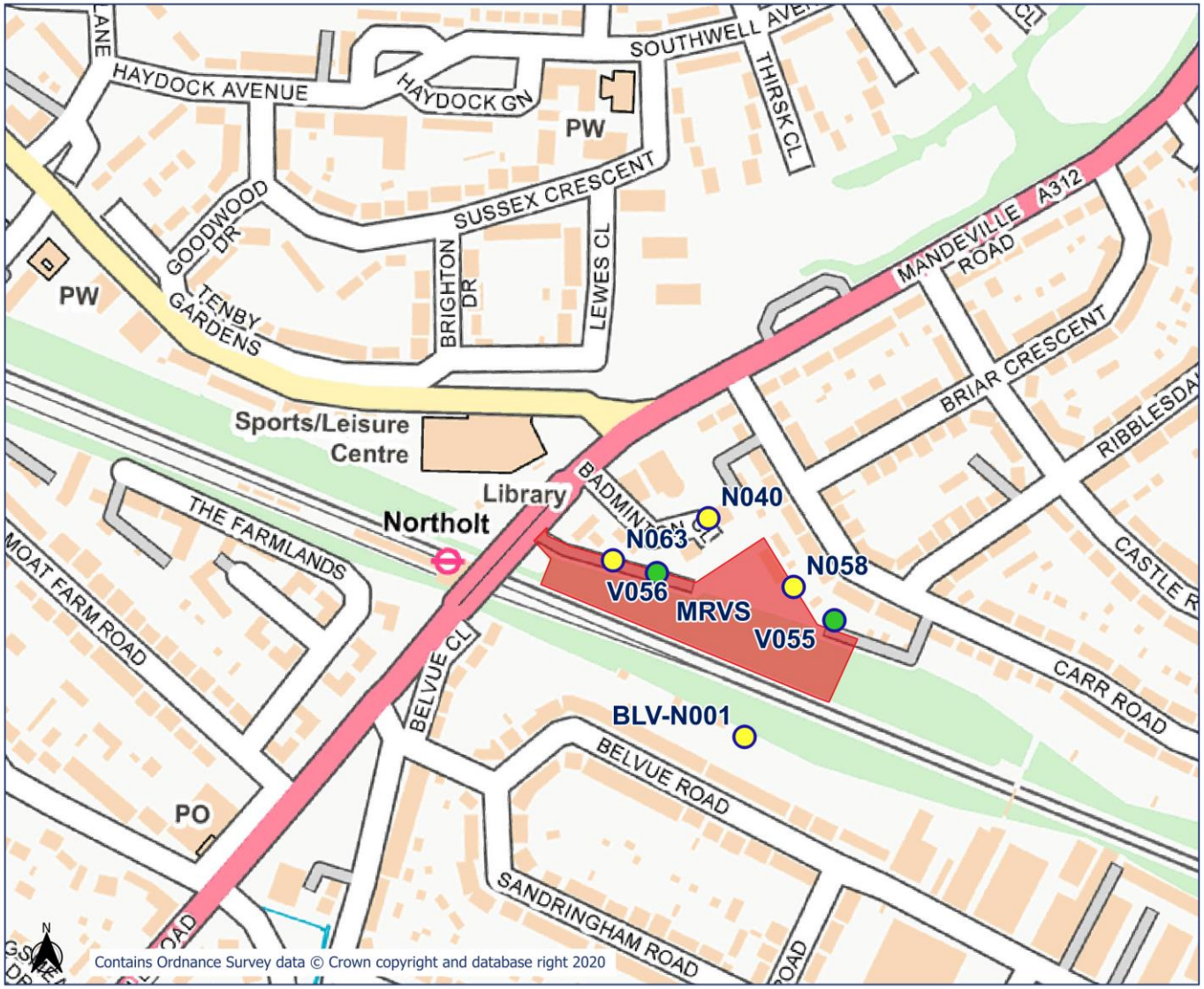
Active Worksites

Appendix B Monitoring Locations

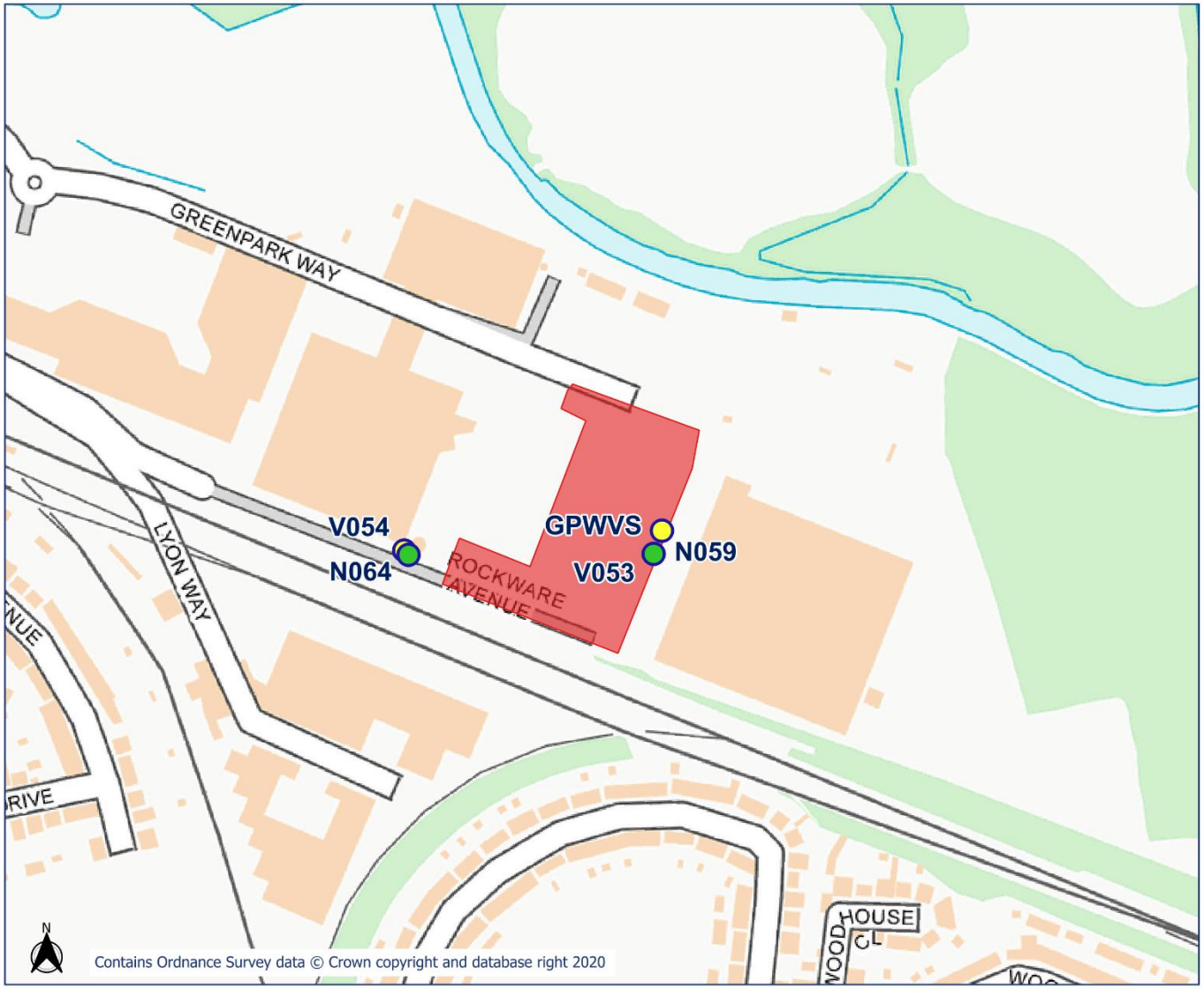
HS2 Noise and Vibration Monitoring Plan - Overview



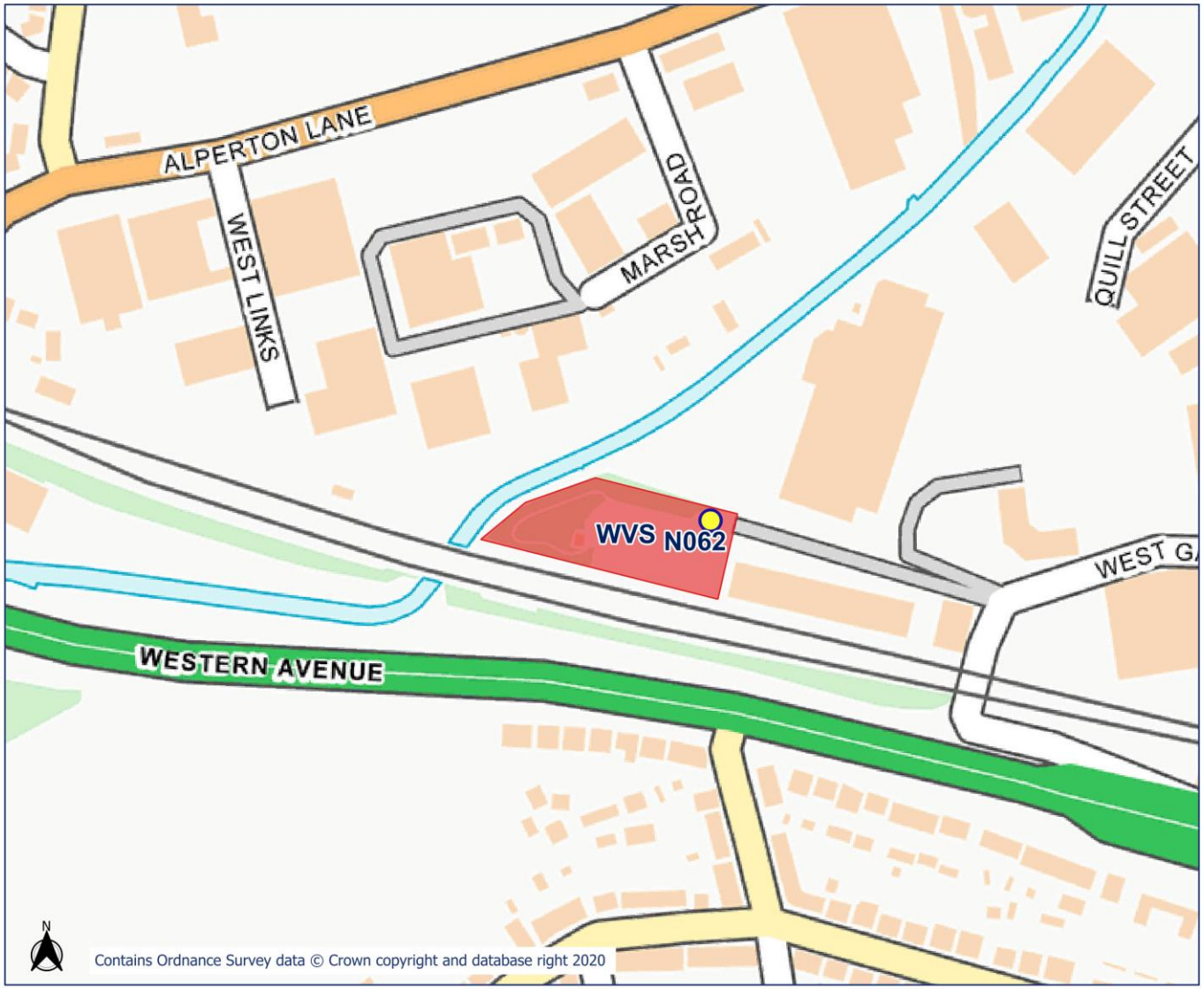
HS2 Noise and Vibration Monitoring Plan - 1



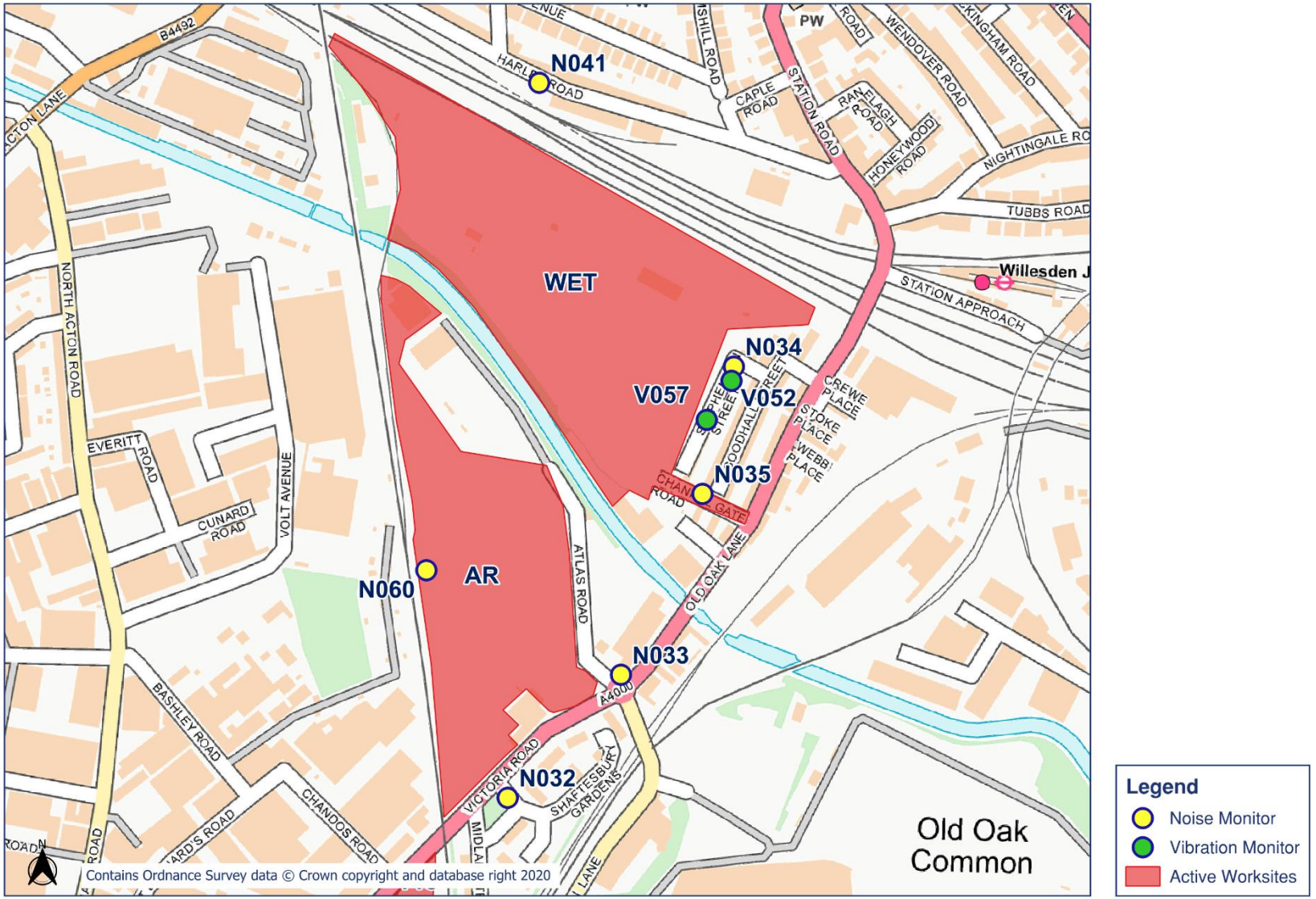
Noise and Vibration Monitoring Plan - 2



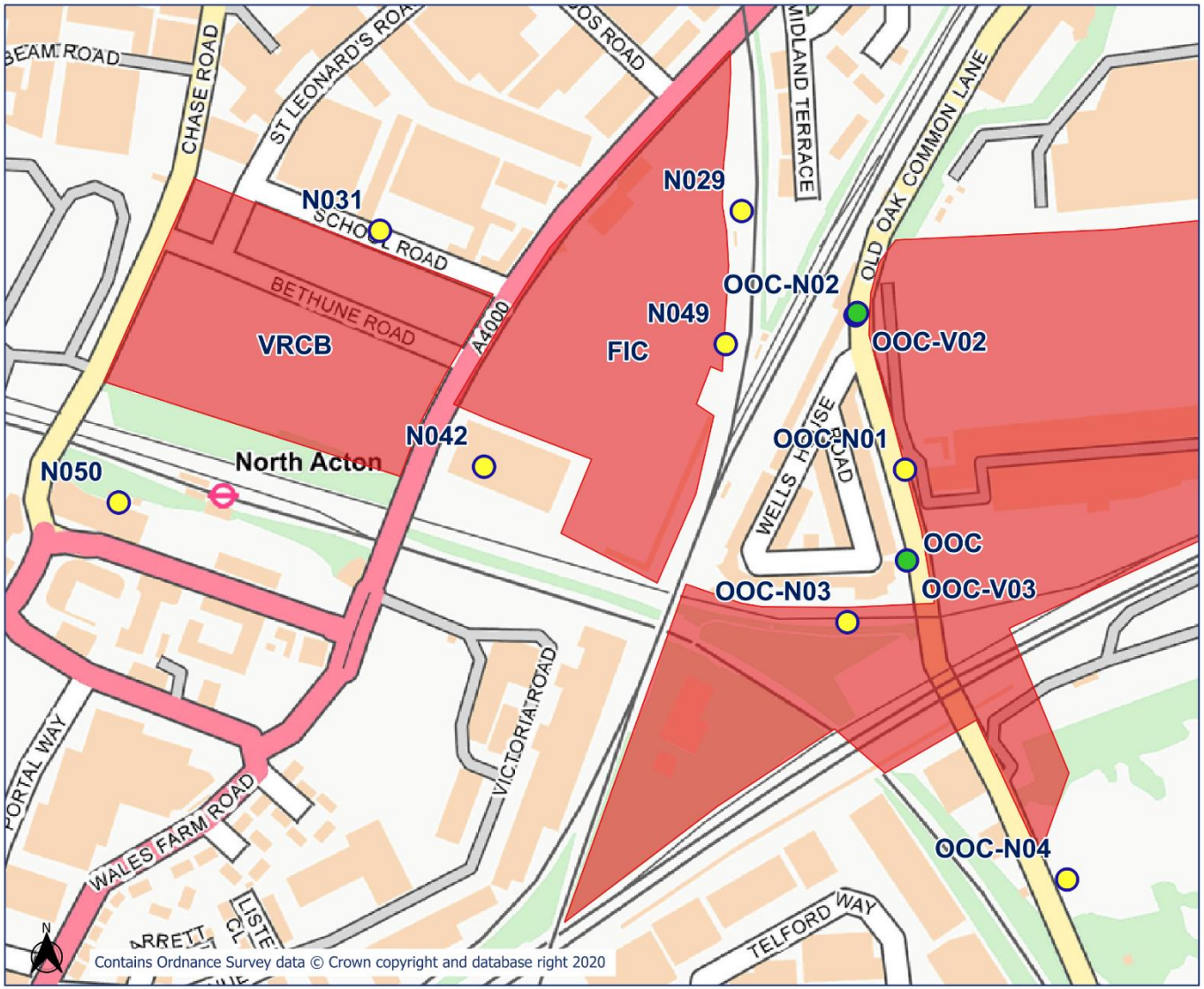
Noise and Vibration Monitoring Plan - 3



HS2 Noise and Vibration Monitoring Plan - 4



Noise and Vibration Monitoring Plan - 5



Appendix C Data

Noise

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

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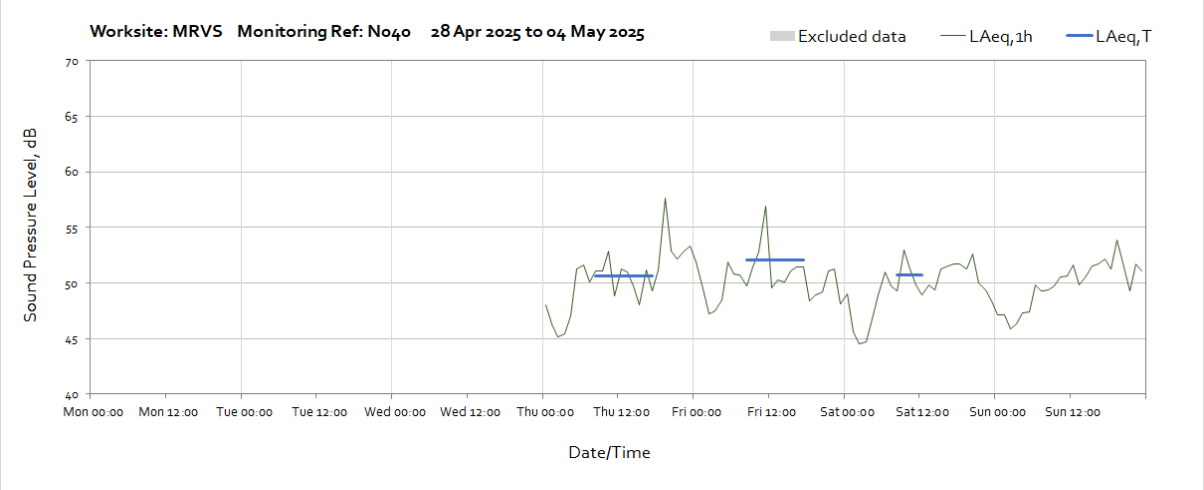

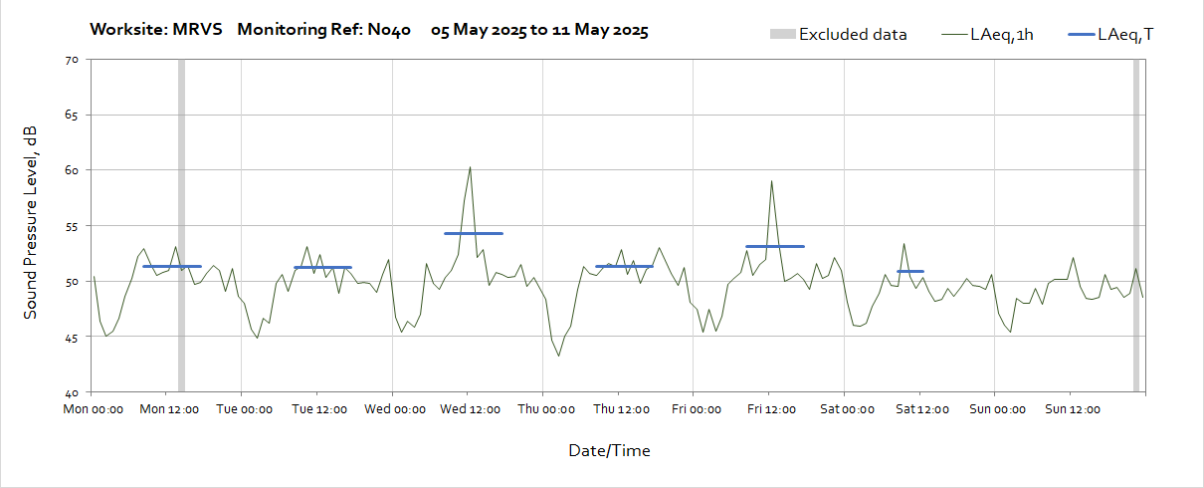

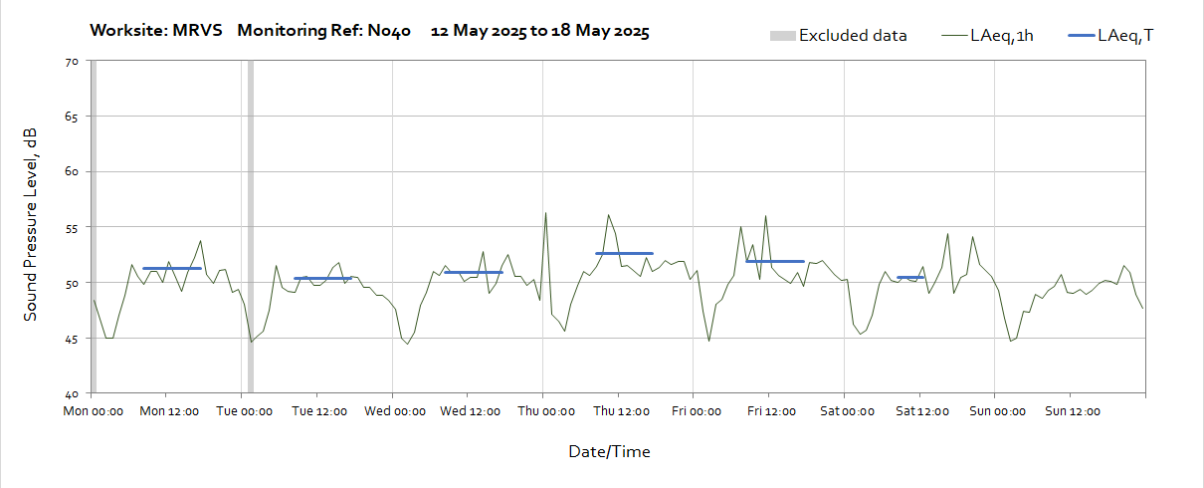
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Tue 00:00
Tue 12:00
Wed 00:00
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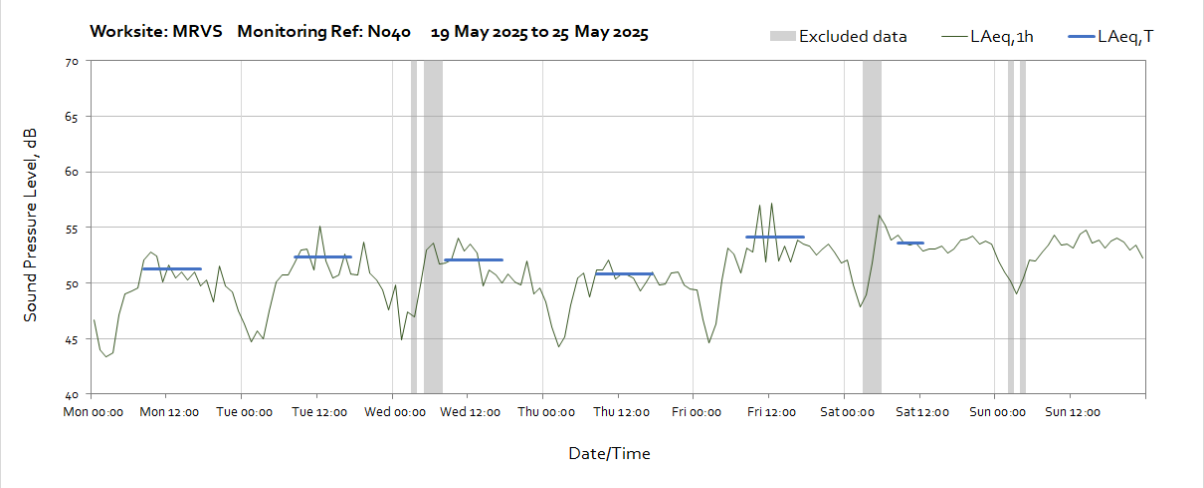
Date/Time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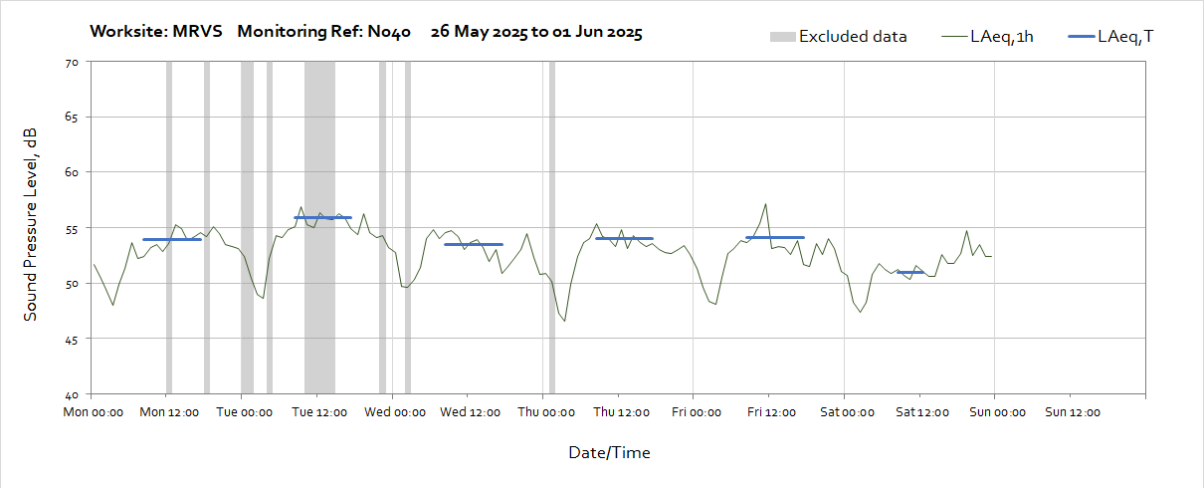
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Date/Time

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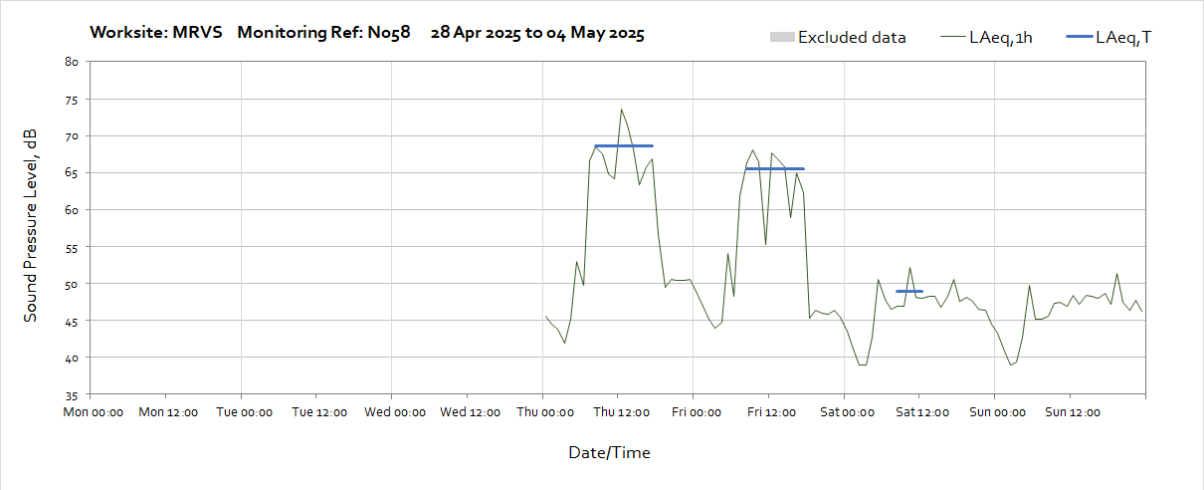

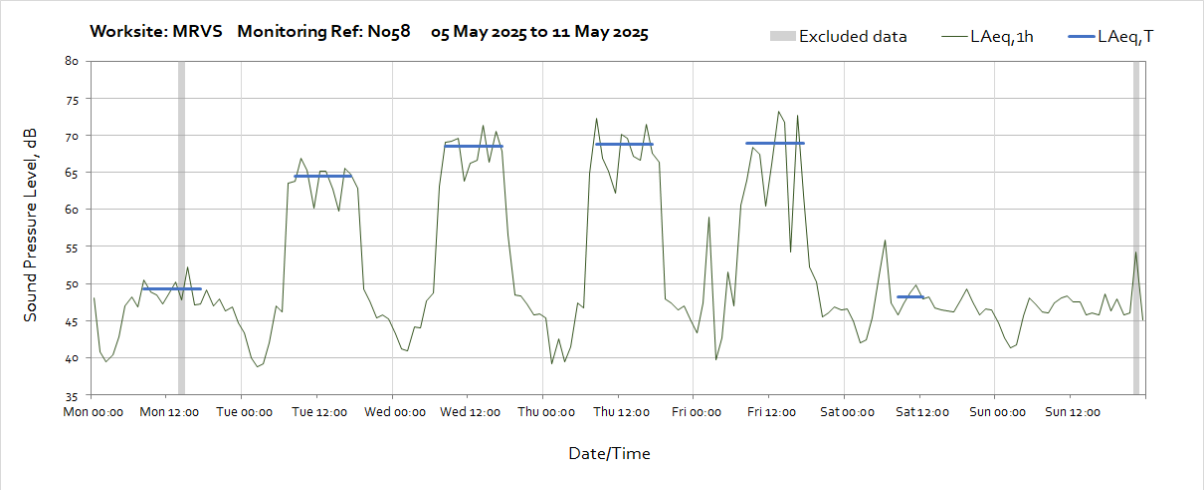

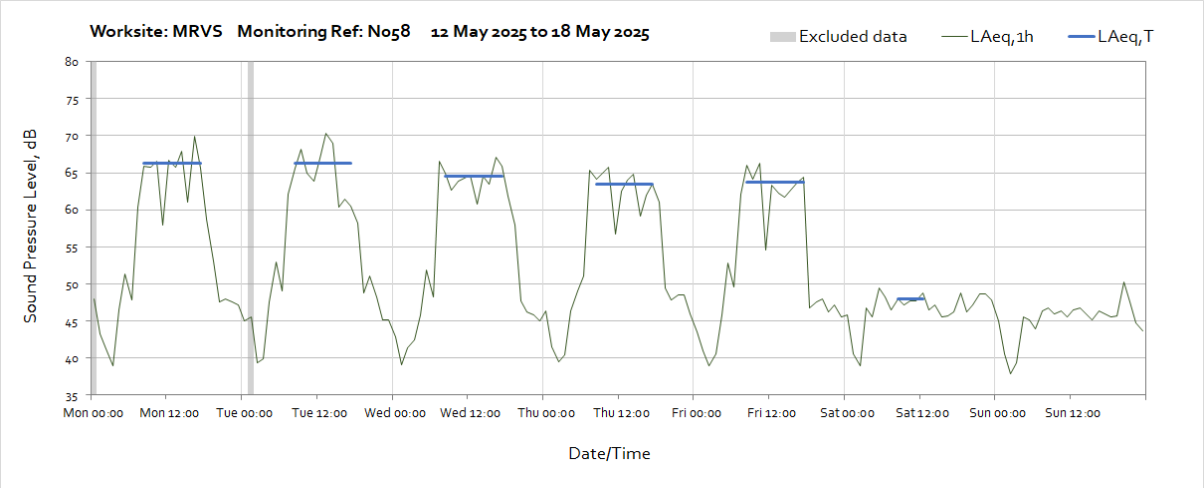

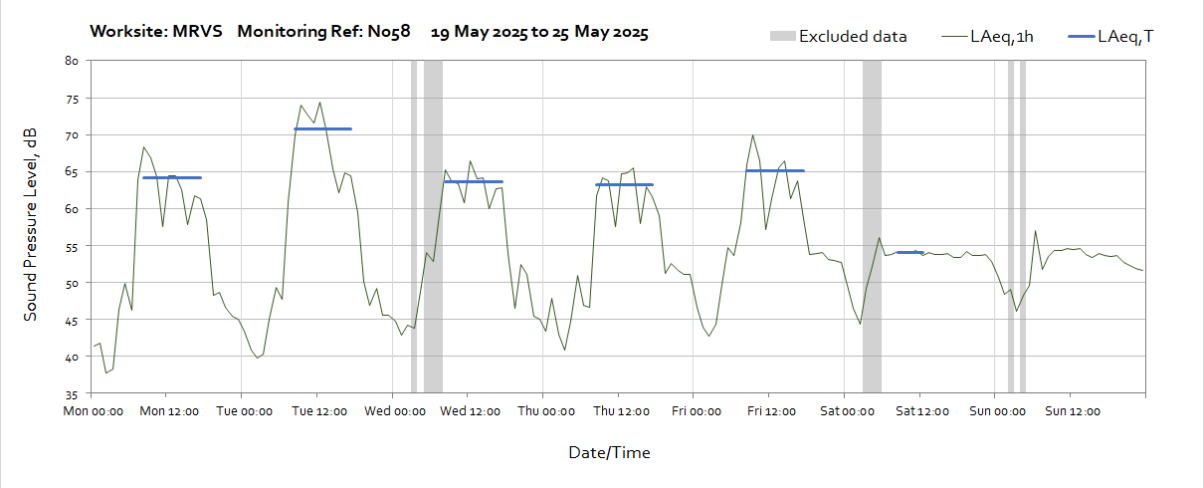

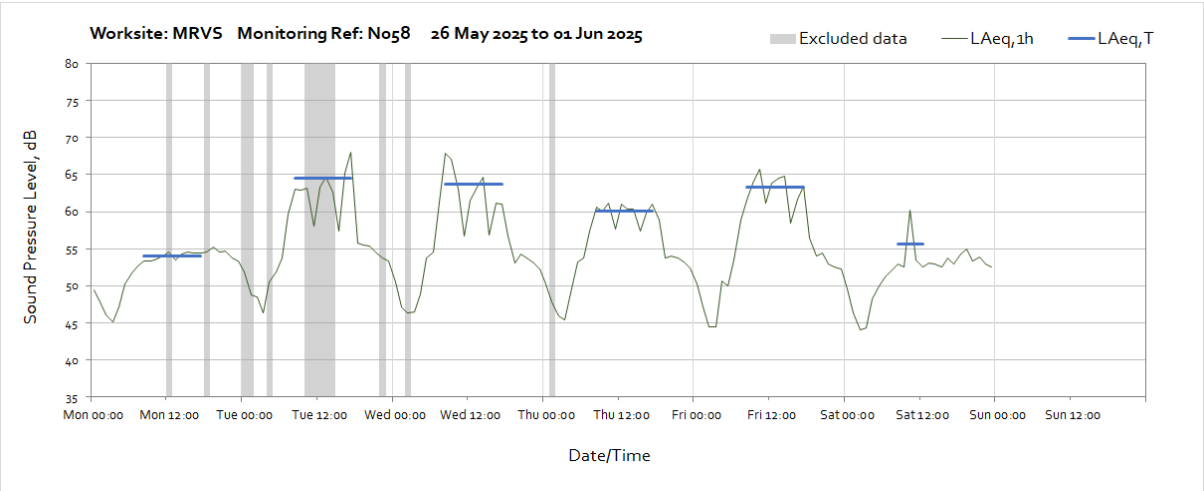

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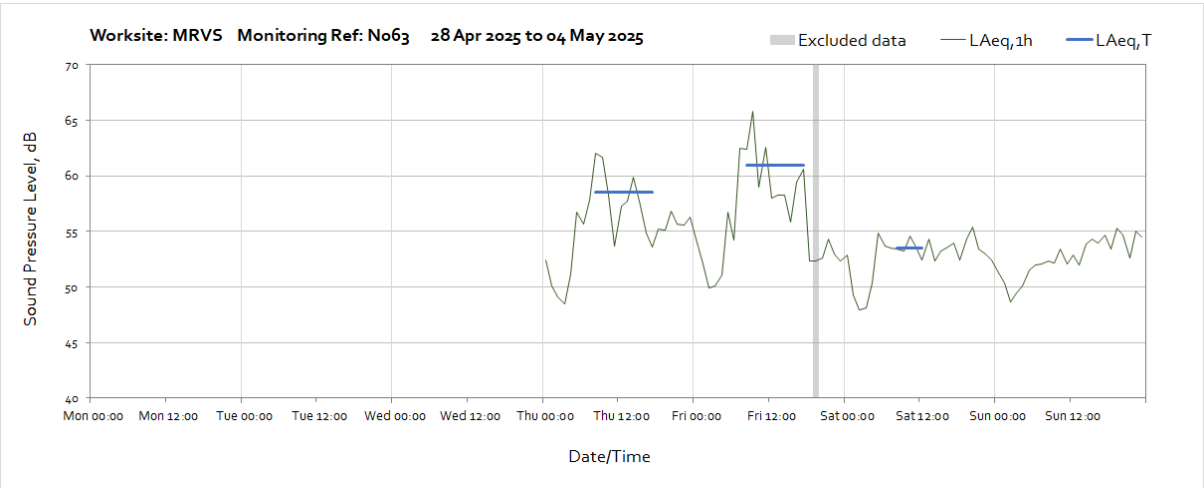

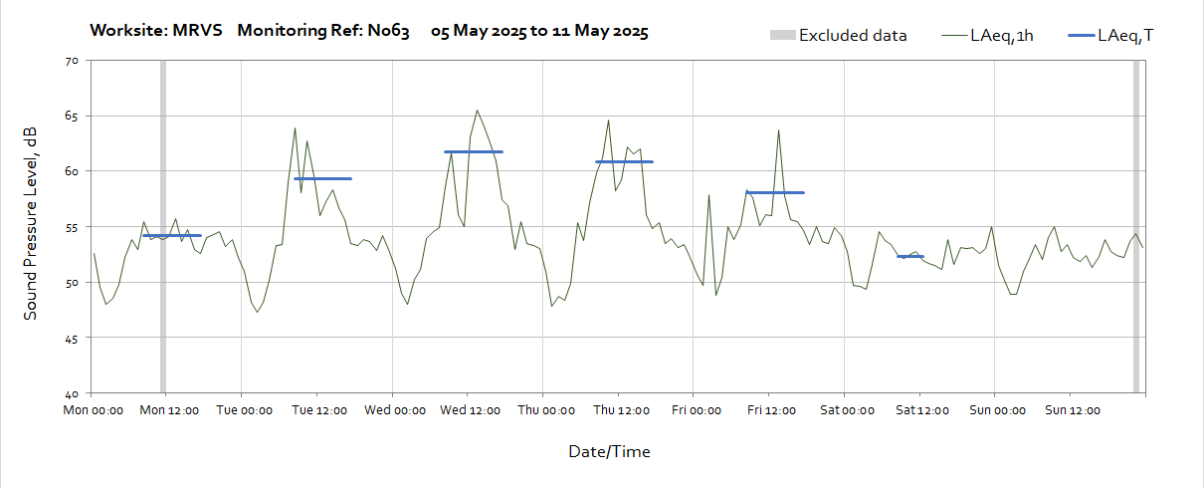
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Wed 00:00
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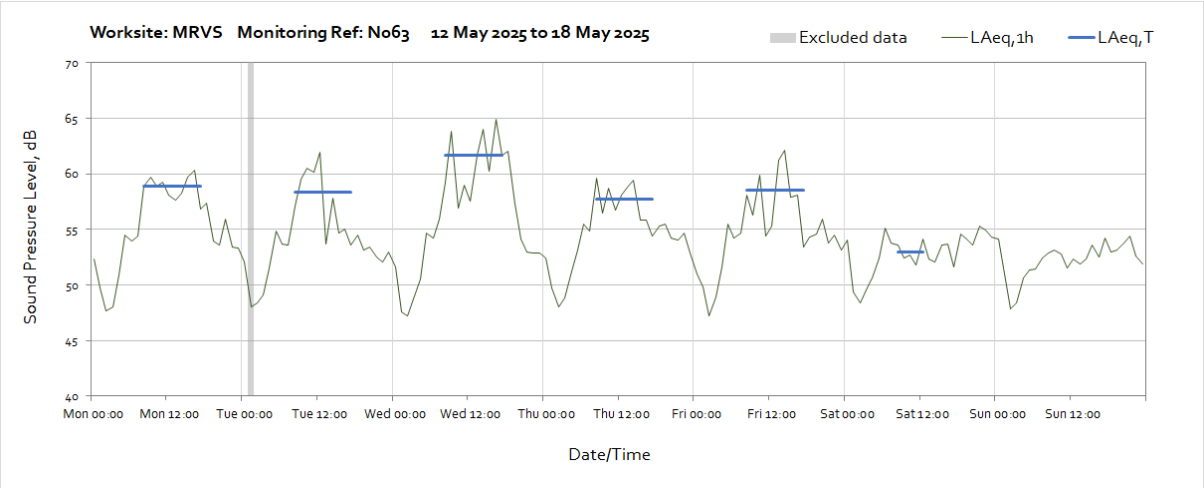
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Sound Pressure Level, dB
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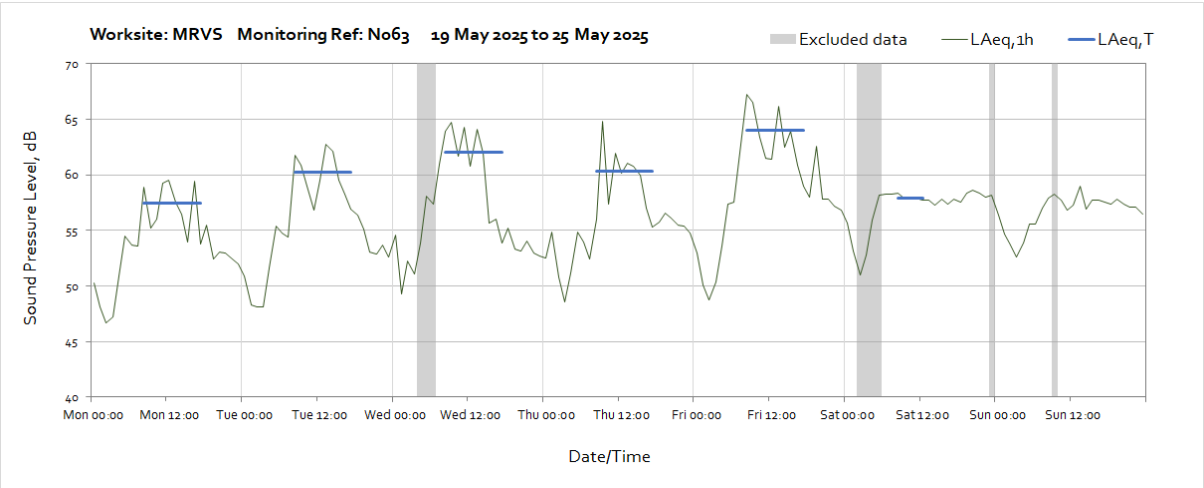
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LAeq,T
Sound Pressure Level, dB
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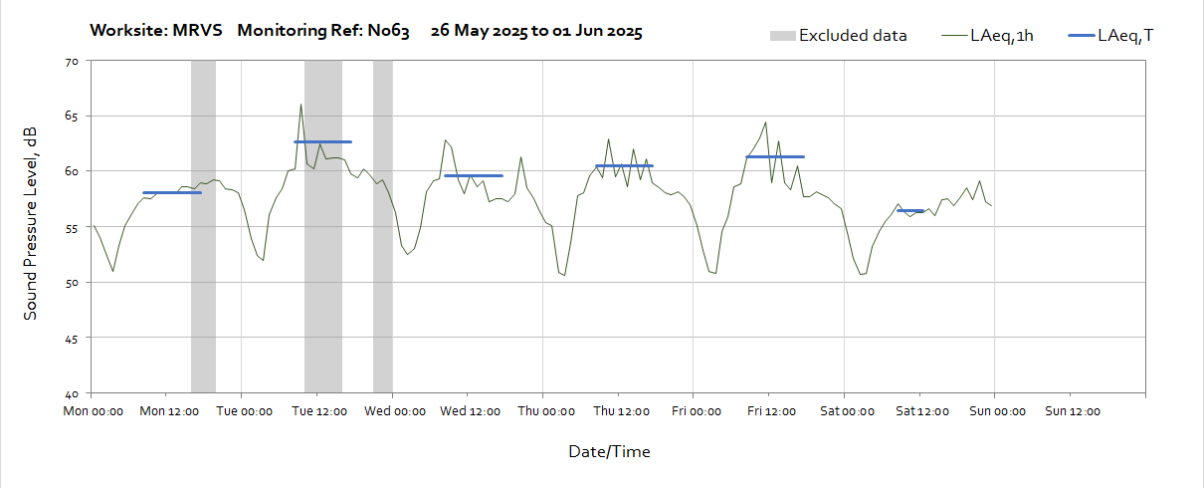

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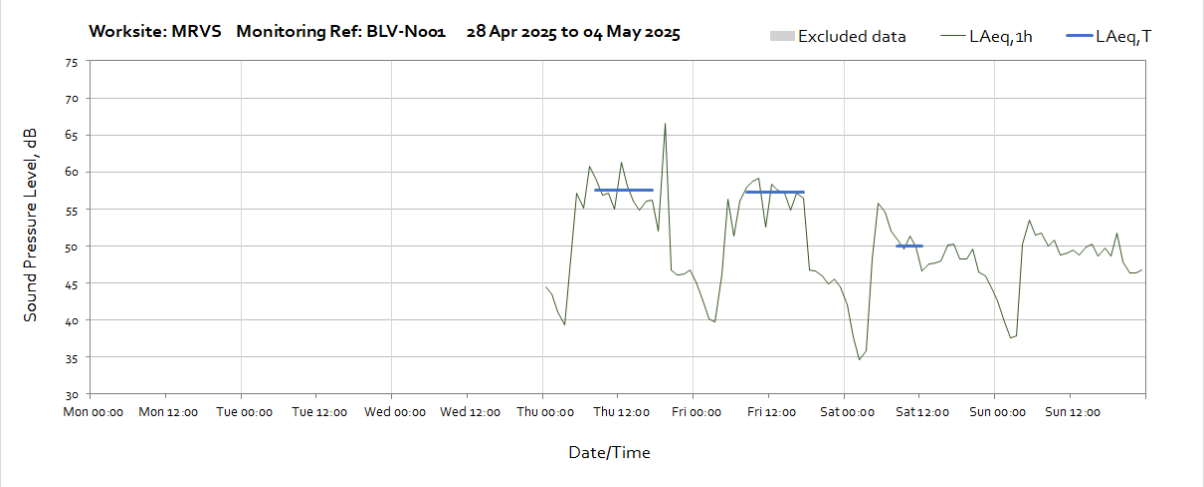

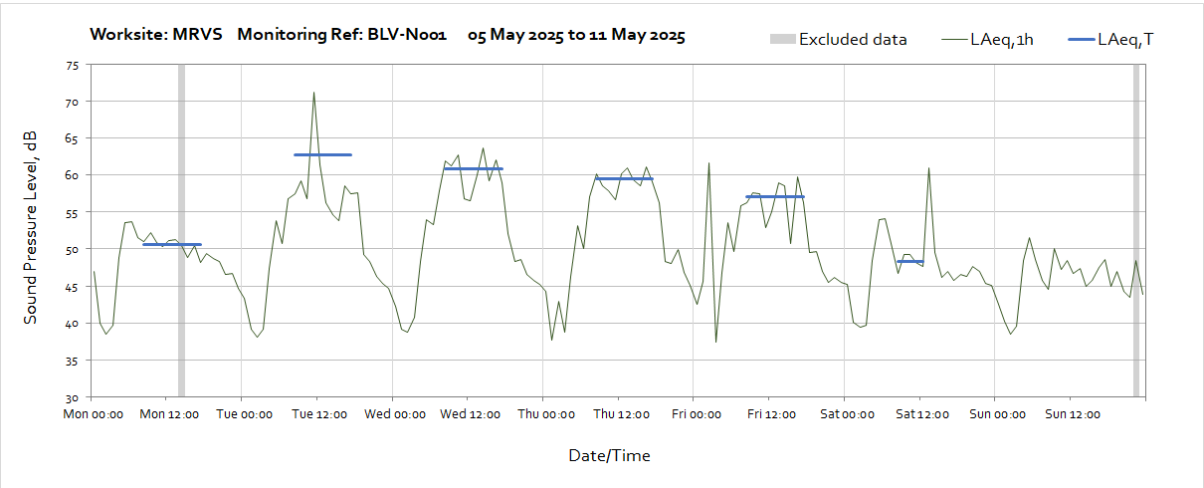

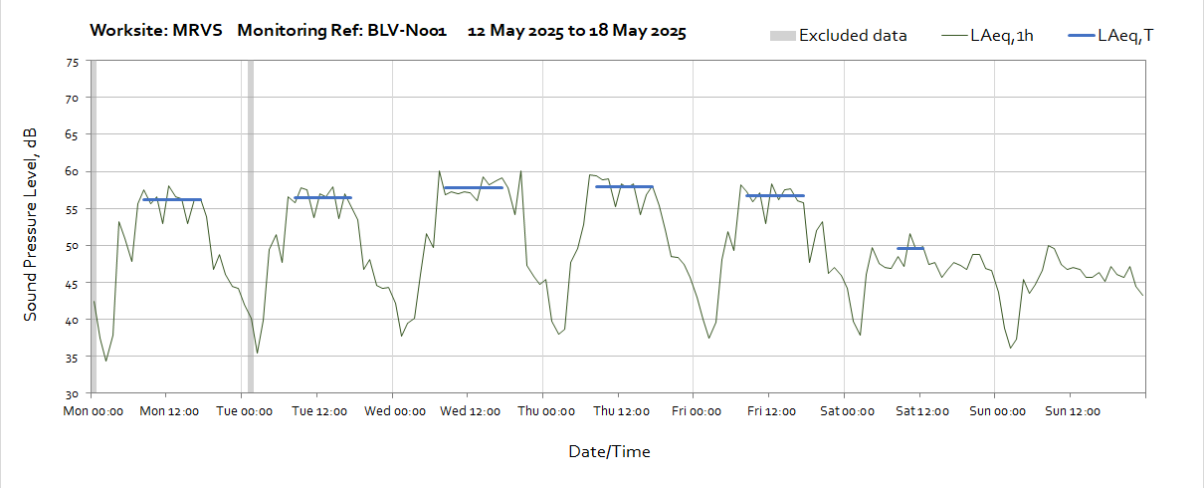
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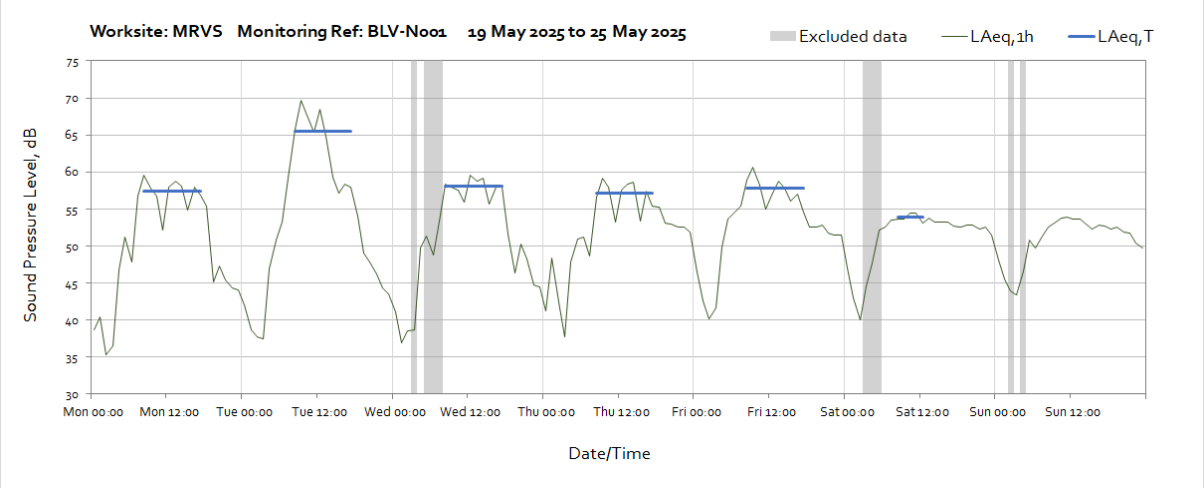
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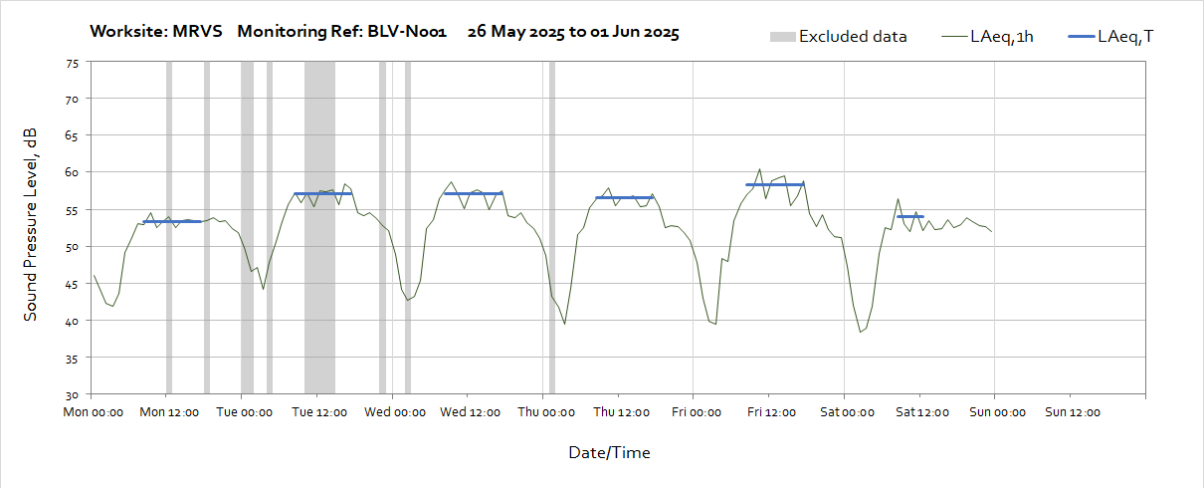
Date/Time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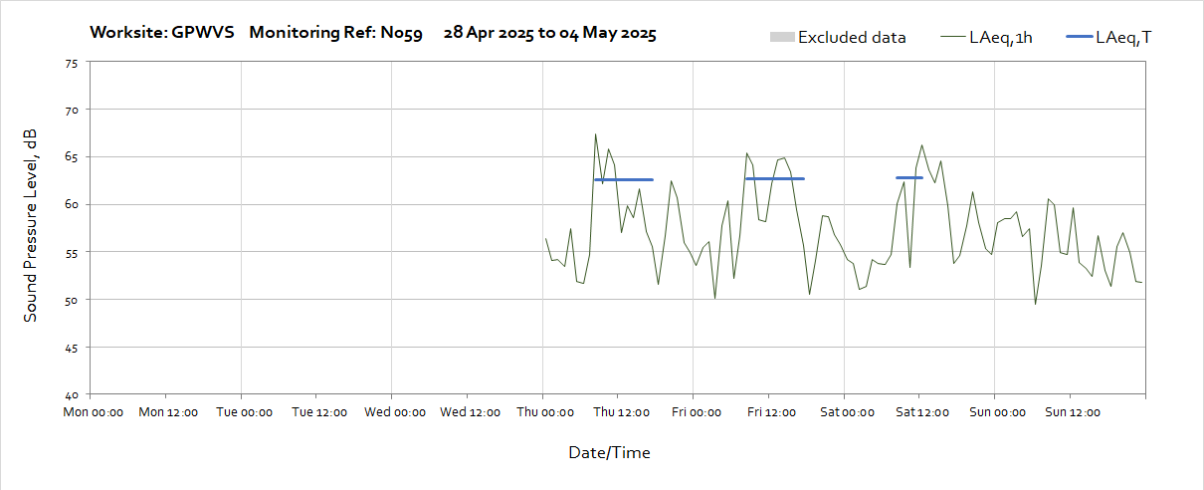

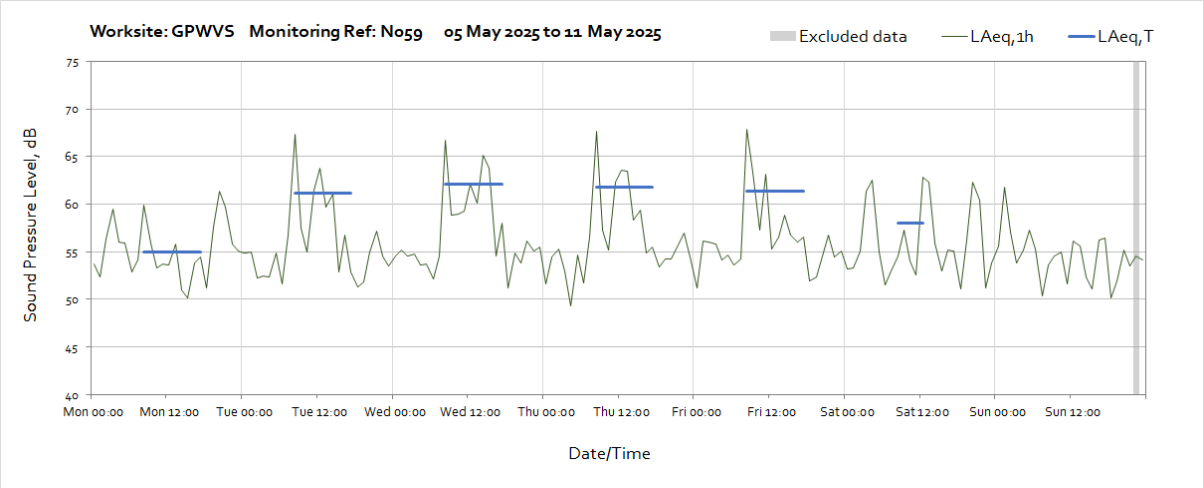

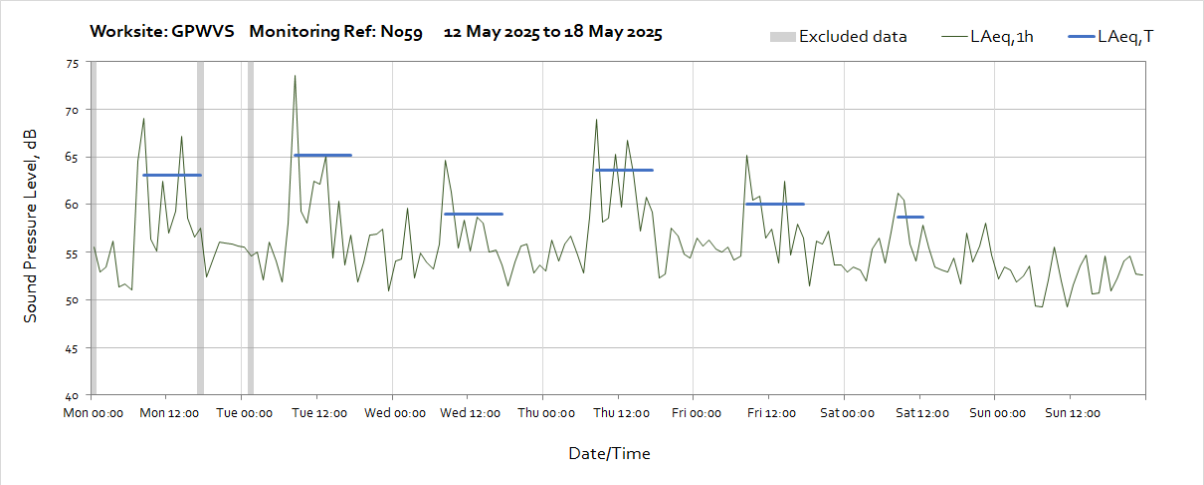

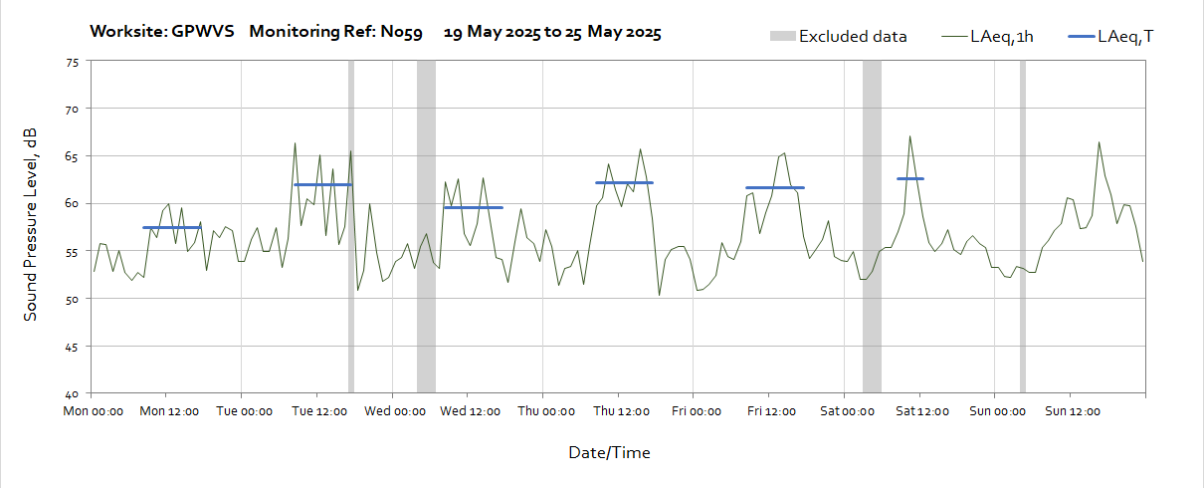

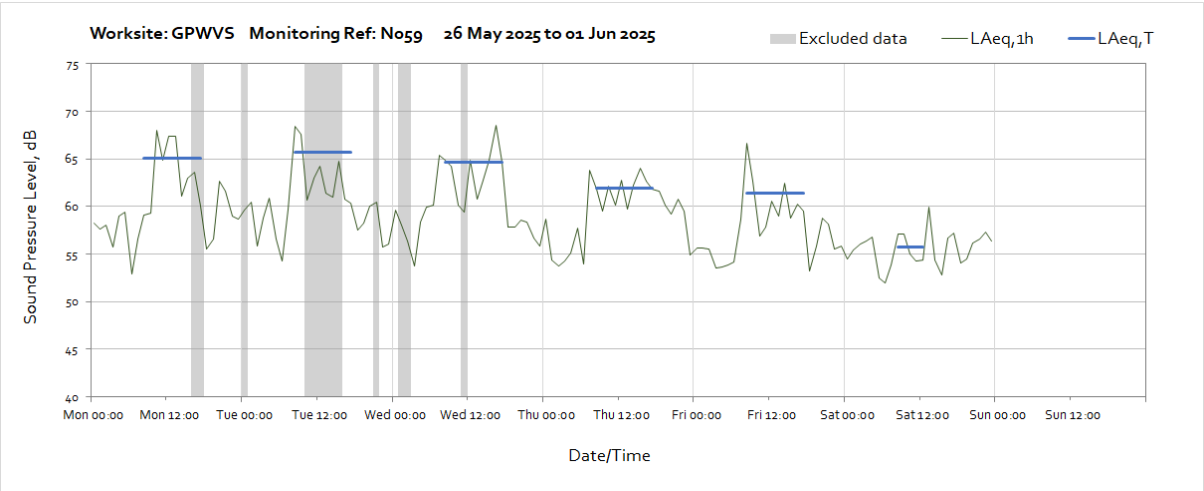

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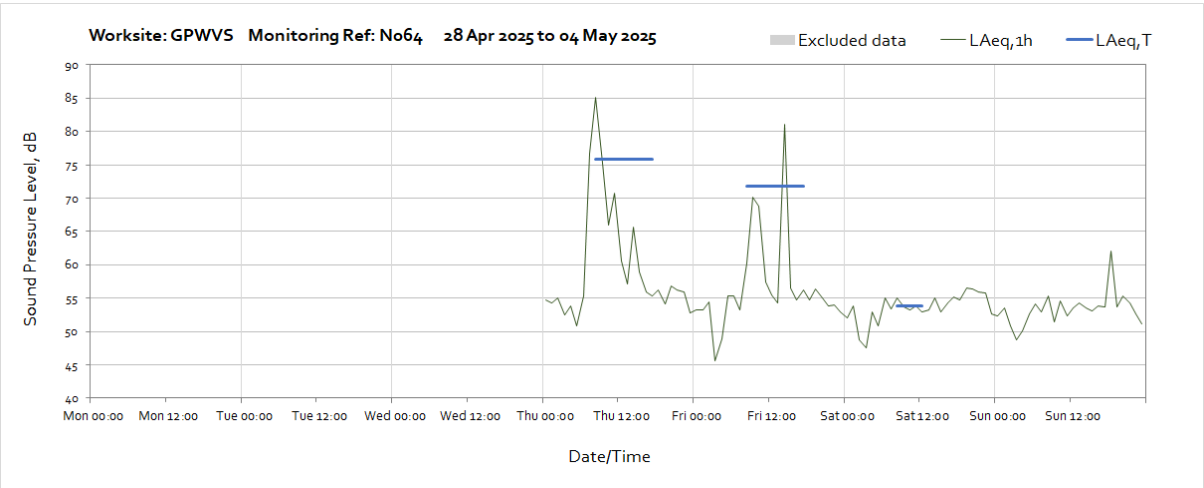

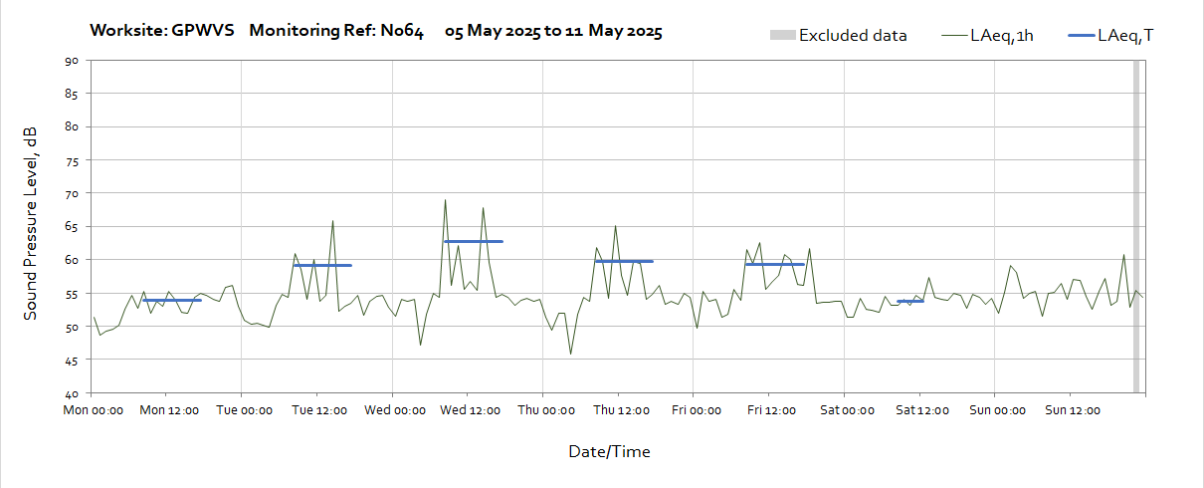
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40
Mon 00:00
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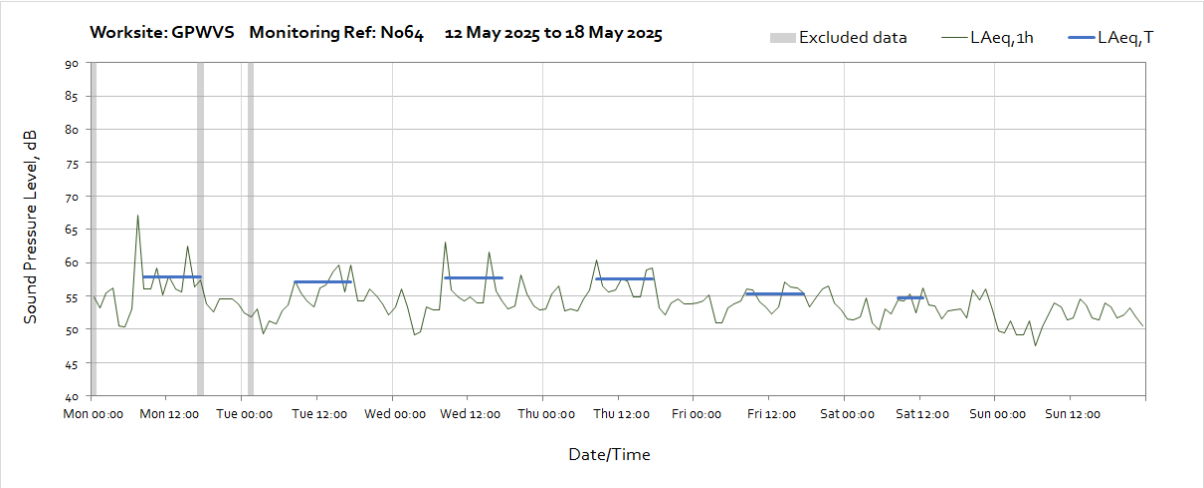
Date/Time


Worksite: GPWVS Monitoring Ref: No64 12 May 2025 to 18 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
90
85
80
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60
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50
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Mon 00:00
Mon 12:00
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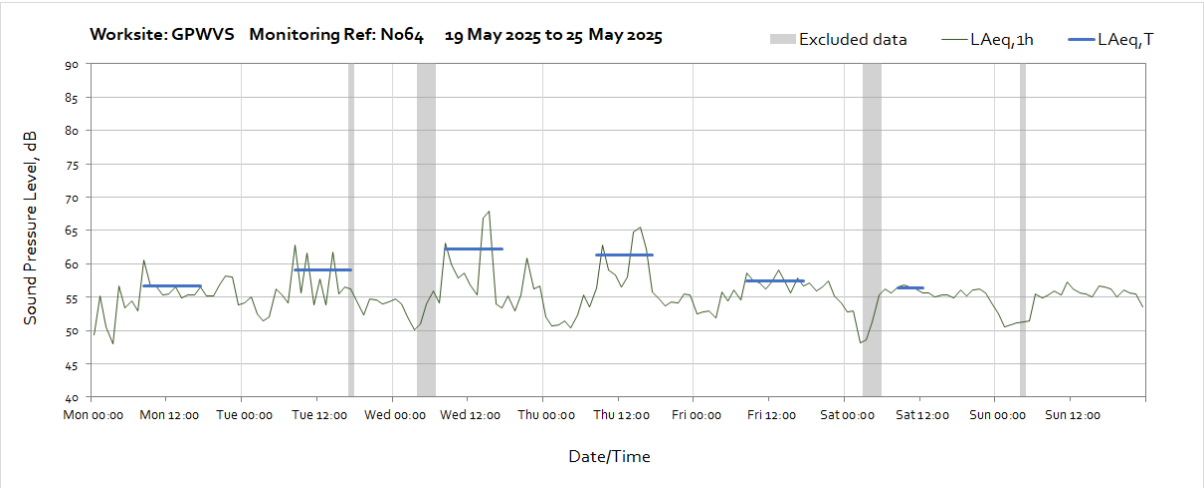
Date/Time


Worksite: GPWVS Monitoring Ref: No64 19 May 2025 to 25 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
90
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
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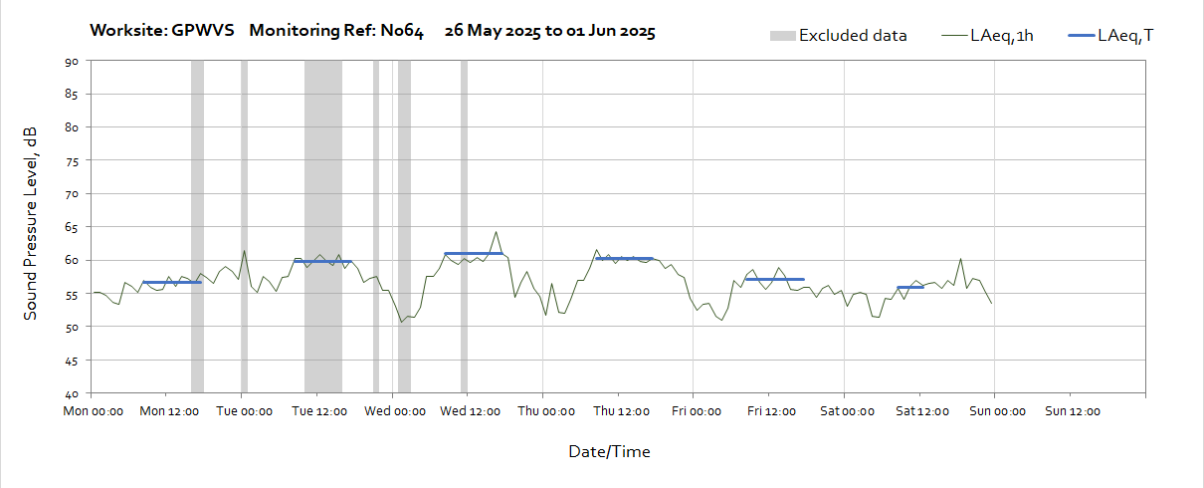
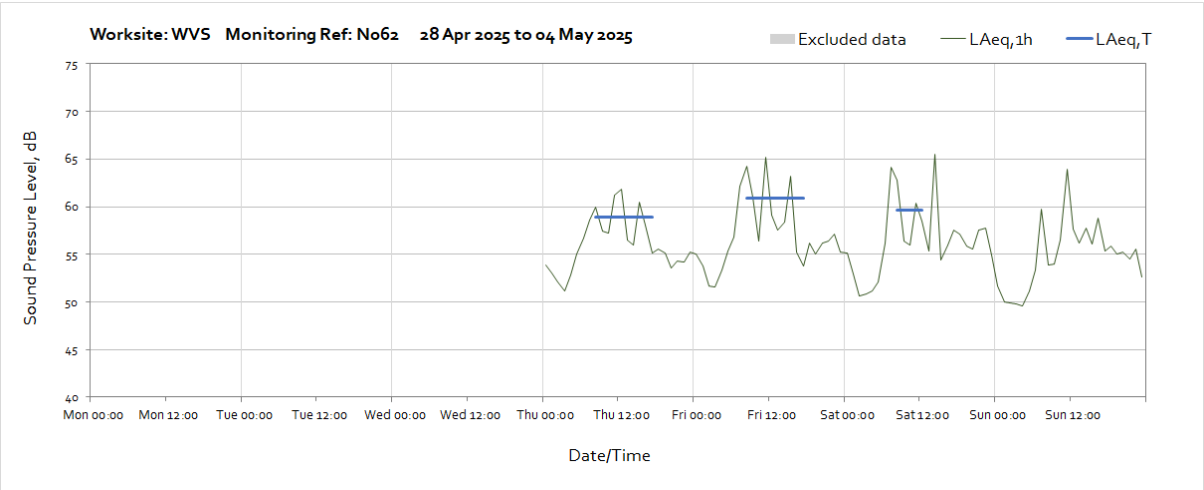
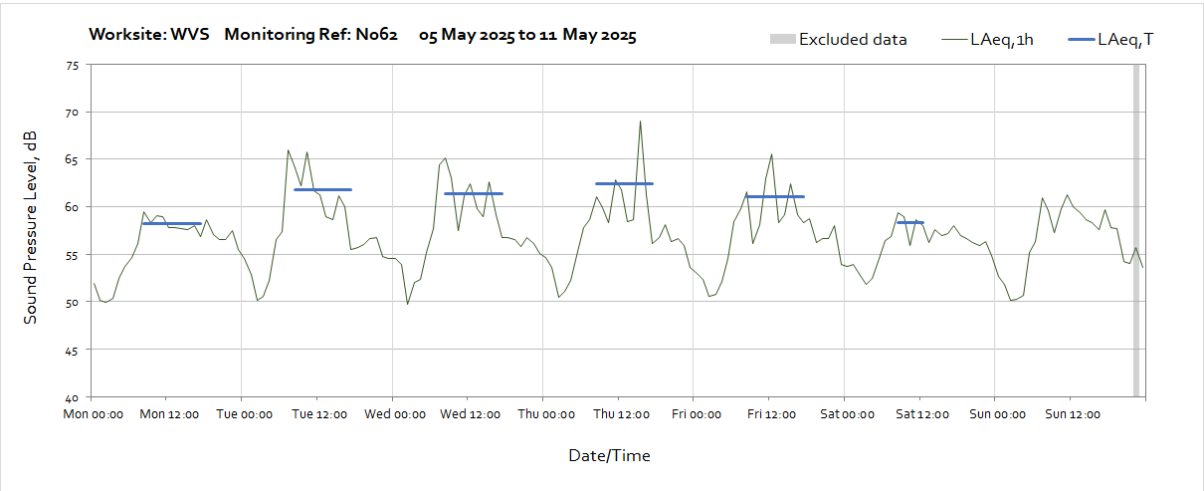
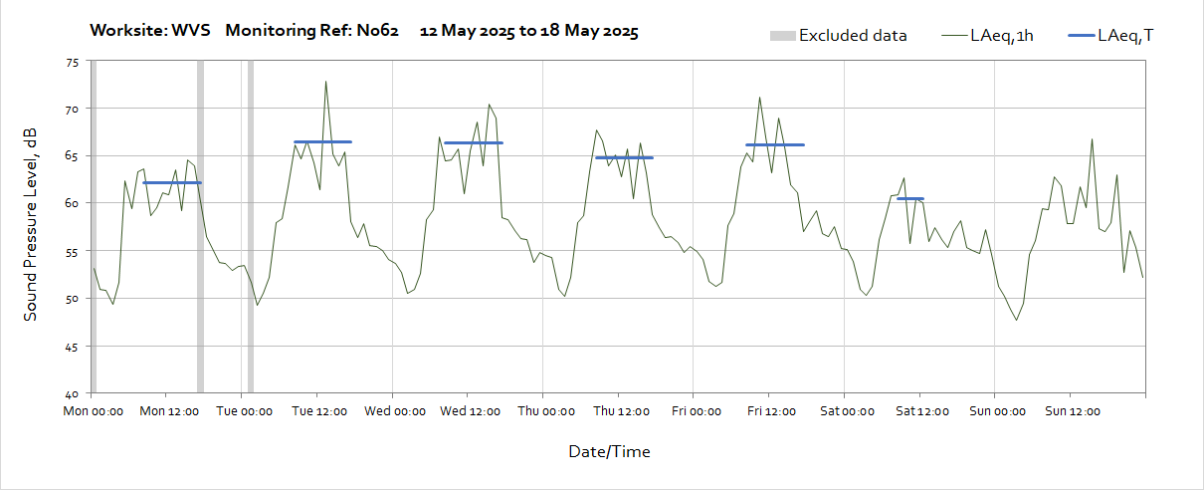
Date/Time



Worksite: WVS – Monitoring Ref: N062






Worksite: WVS Monitoring Ref: No62 12 May 2025 to 18 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
70
65
60
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45
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Mon 00:00
Mon 12:00
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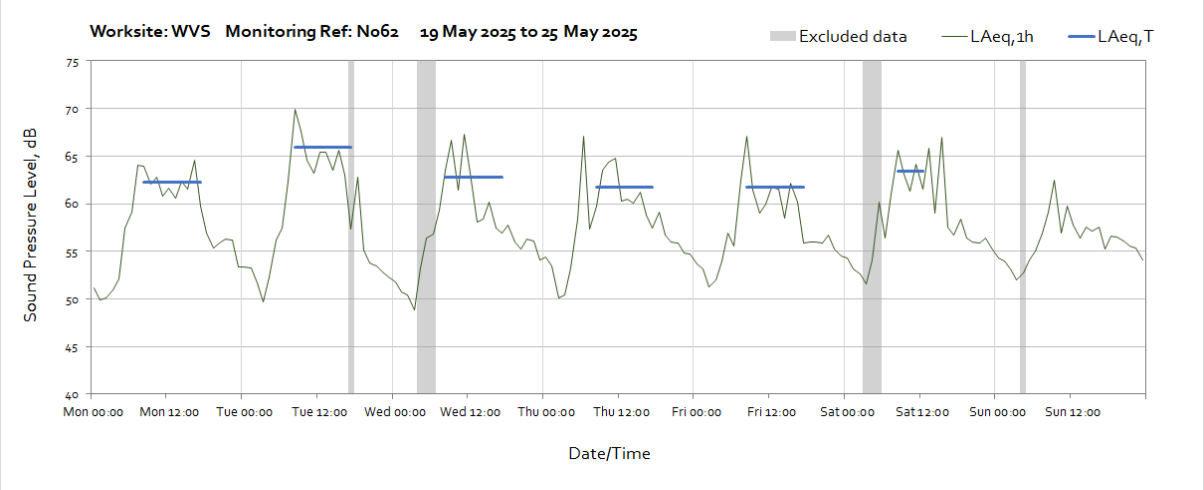
Date/Time


Worksite: WVS Monitoring Ref: No62 19 May 2025 to 25 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
70
65
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Mon 00:00
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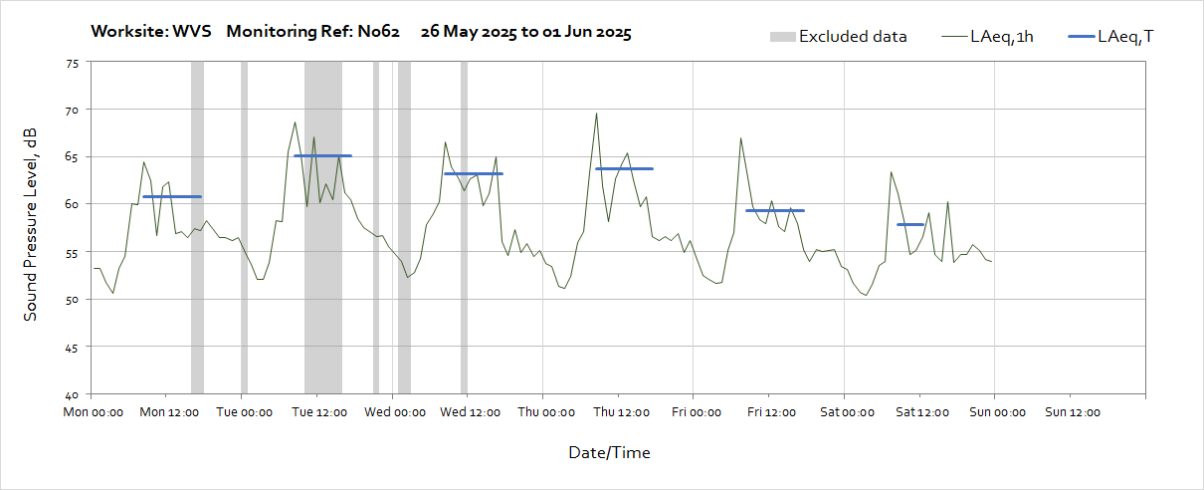
Date/Time


Worksite: WVS Monitoring Ref: No62 26 May 2025 to 01 Jun 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
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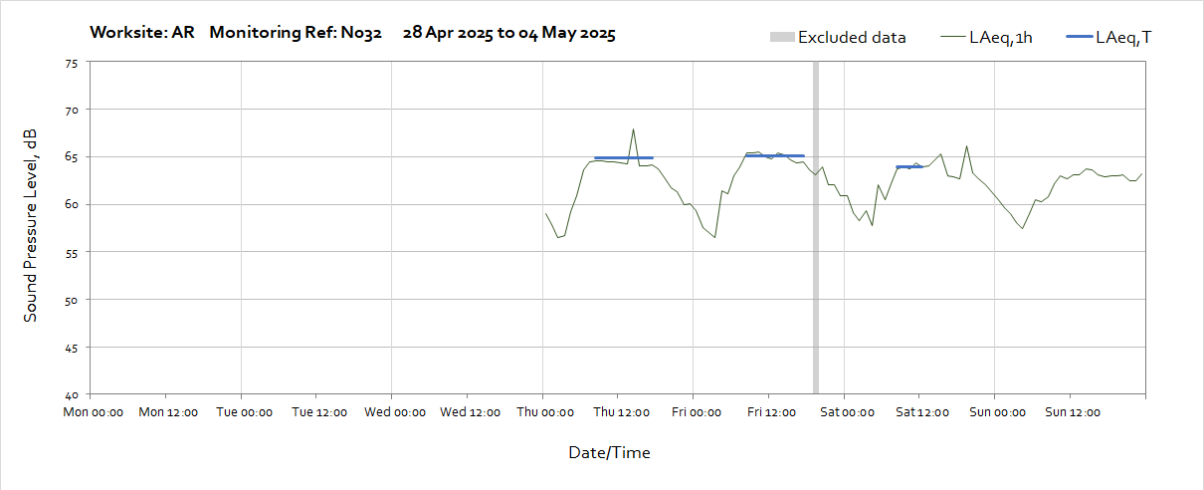
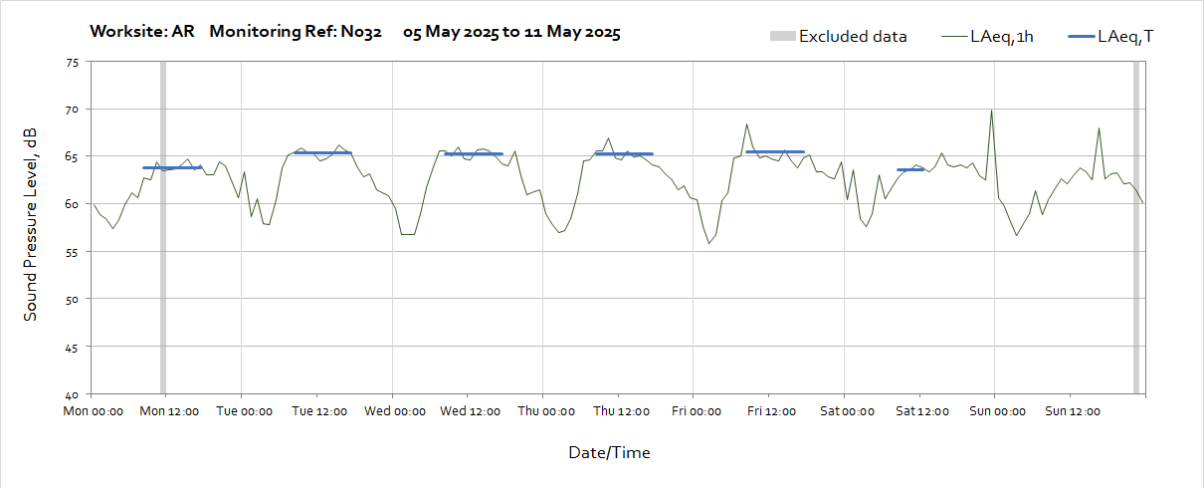
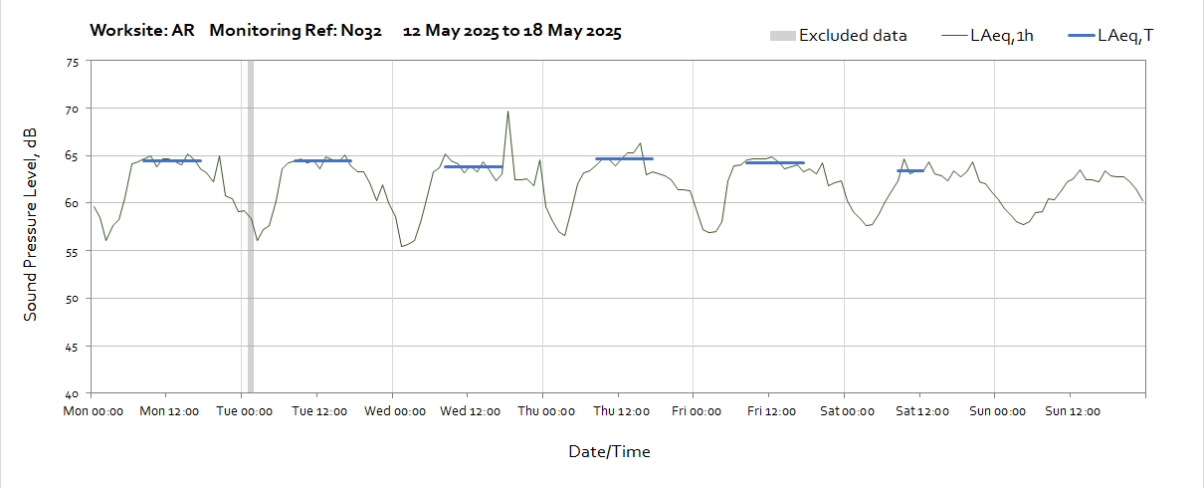
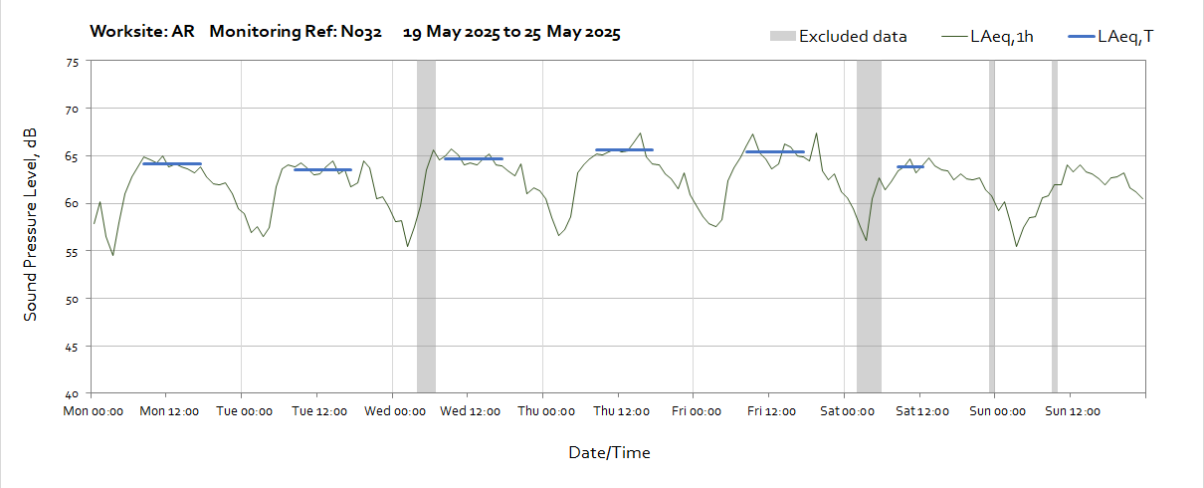
Date/Time

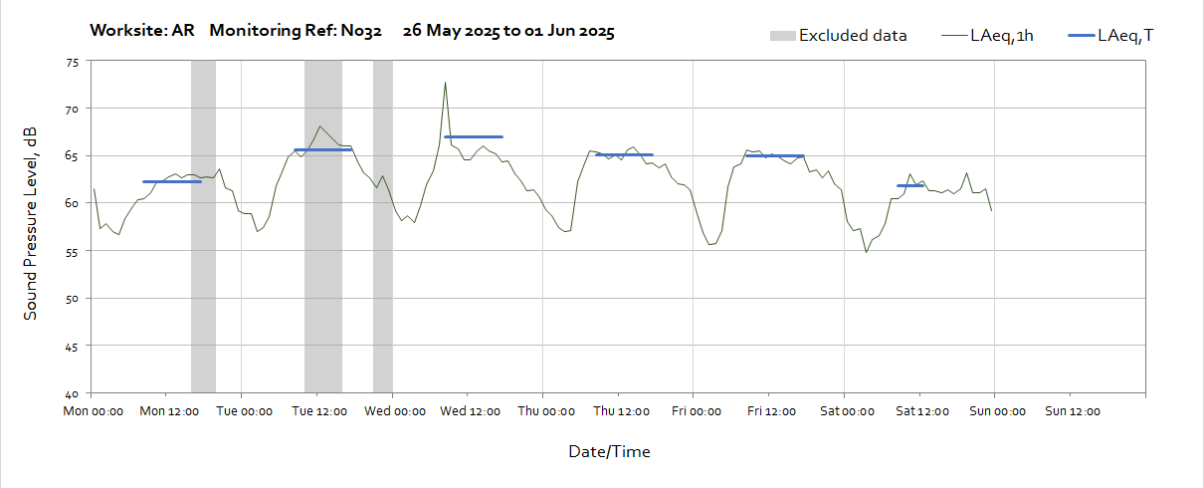
Worksite: AR – Monitoring Ref: N032



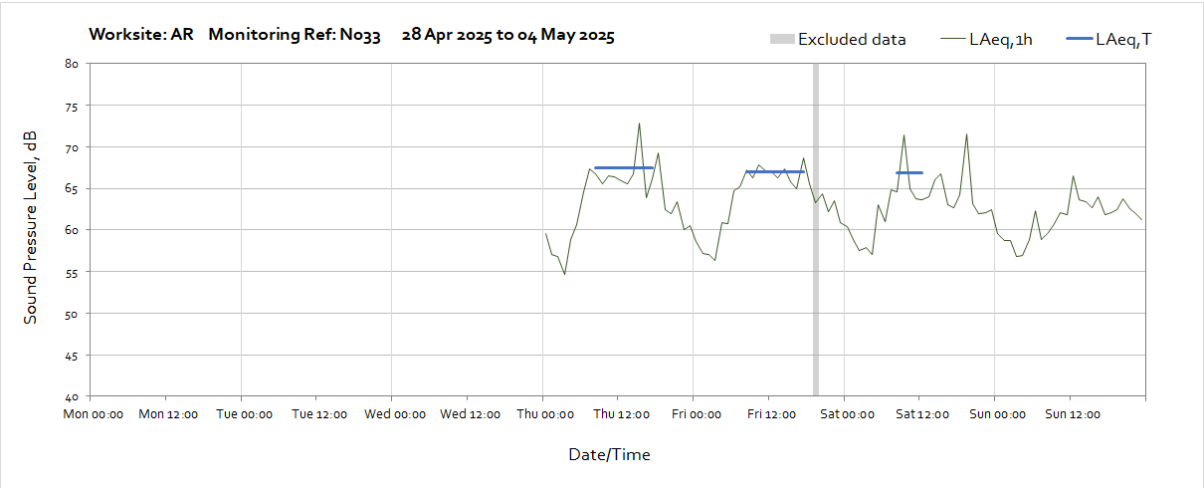


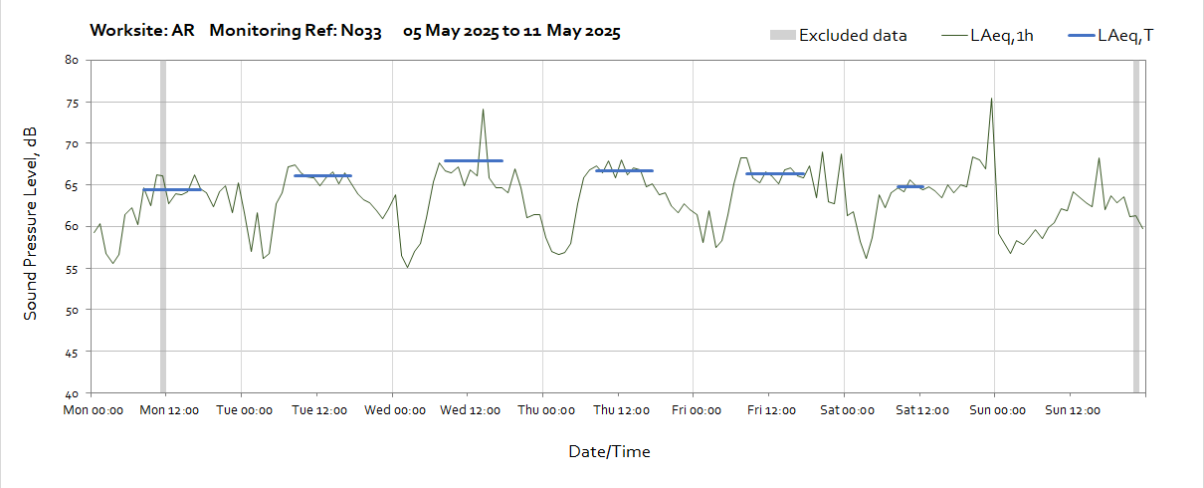






Worksite: AR – Monitoring Ref: N033




Worksite: AR Monitoring Ref: No33 05 May 2025 to 11 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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Mon 00:00
Mon 12:00
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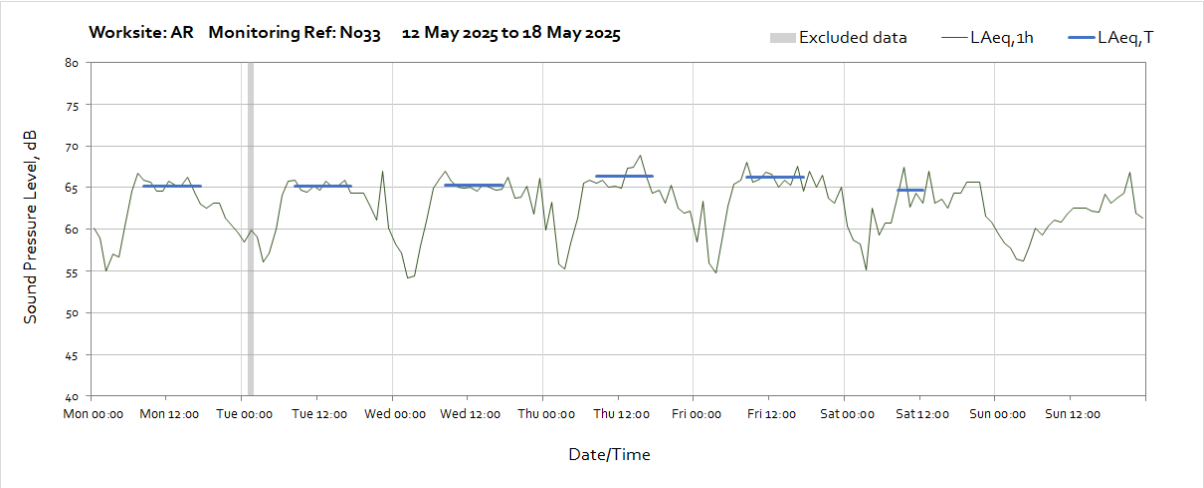
Date/Time


Worksite: AR Monitoring Ref: No33 12 May 2025 to 18 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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Mon 00:00
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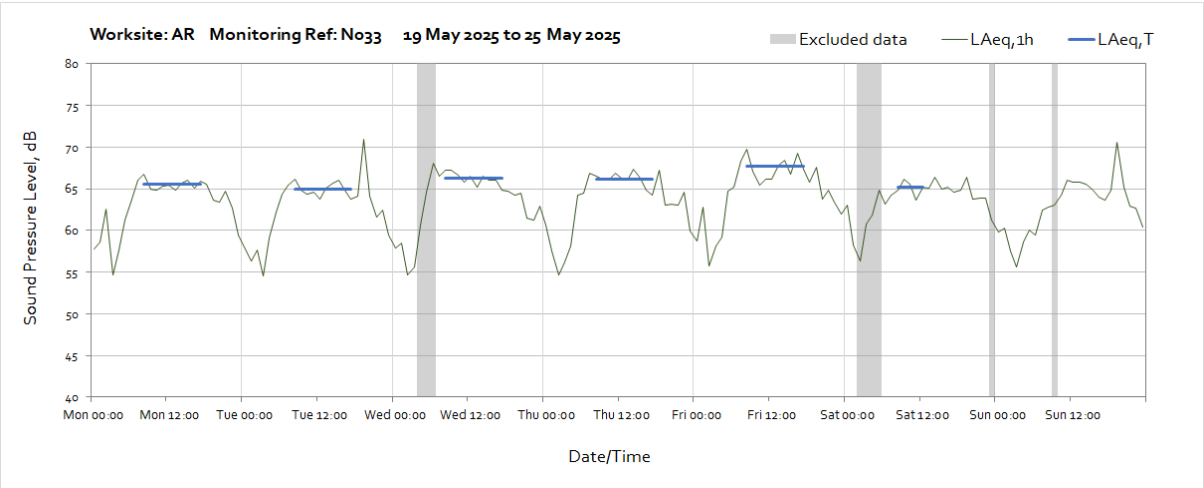
Date/Time


Worksite: AR Monitoring Ref: No33 19 May 2025 to 25 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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Mon 00:00
Mon 12:00
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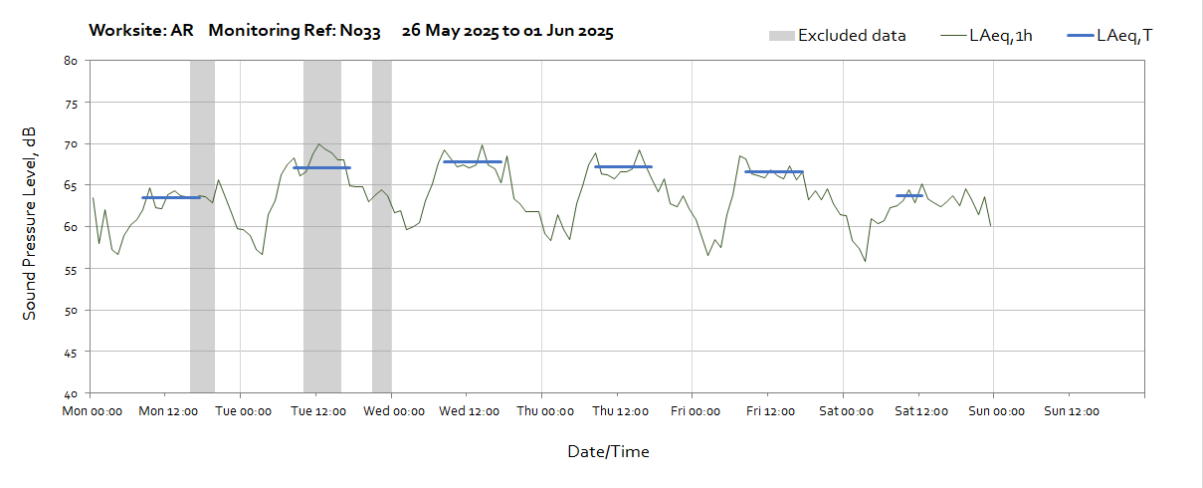
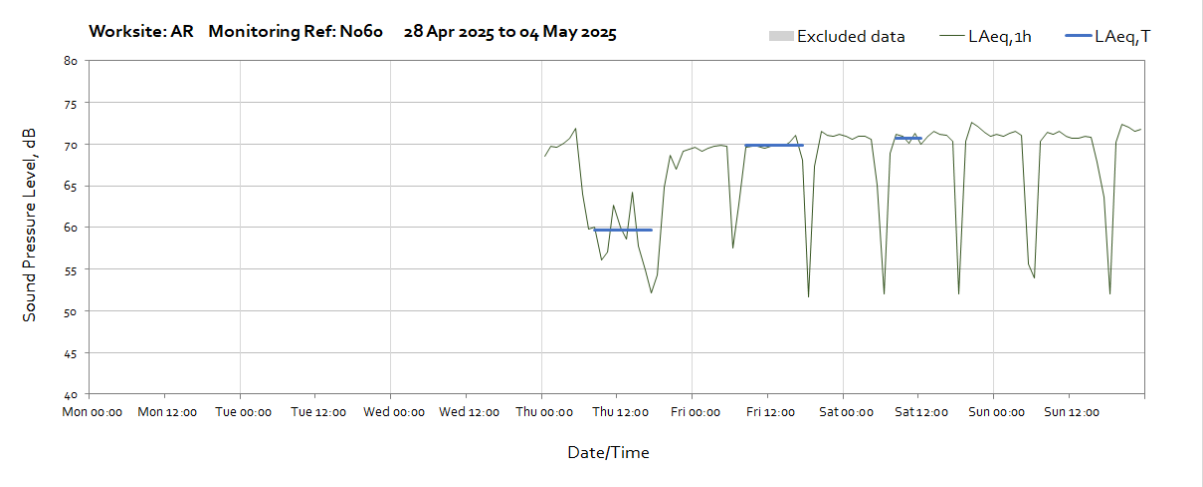
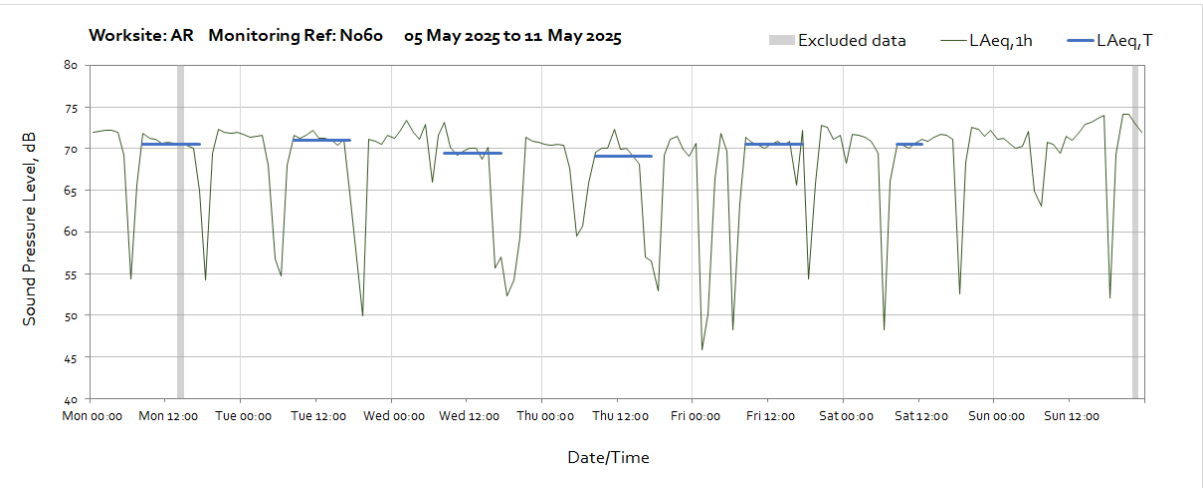
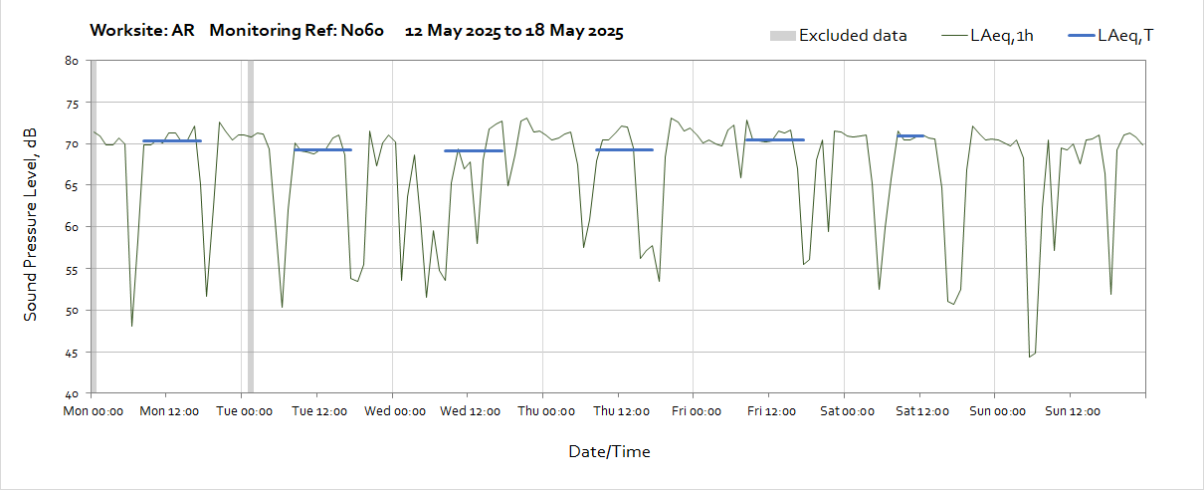
Date/Time



Worksite: AR – Monitoring Ref: N060






Worksite: AR Monitoring Ref: No60 12 May 2025 to 18 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
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Mon 00:00
Mon 12:00
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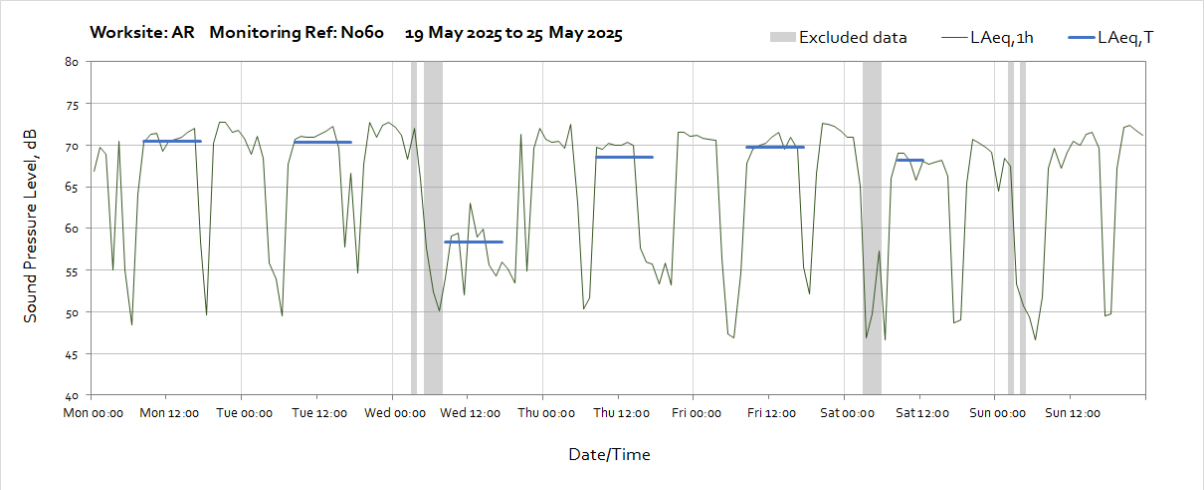
Date/Time


Worksite: AR Monitoring Ref: No60 19 May 2025 to 25 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
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Mon 00:00
Mon 12:00
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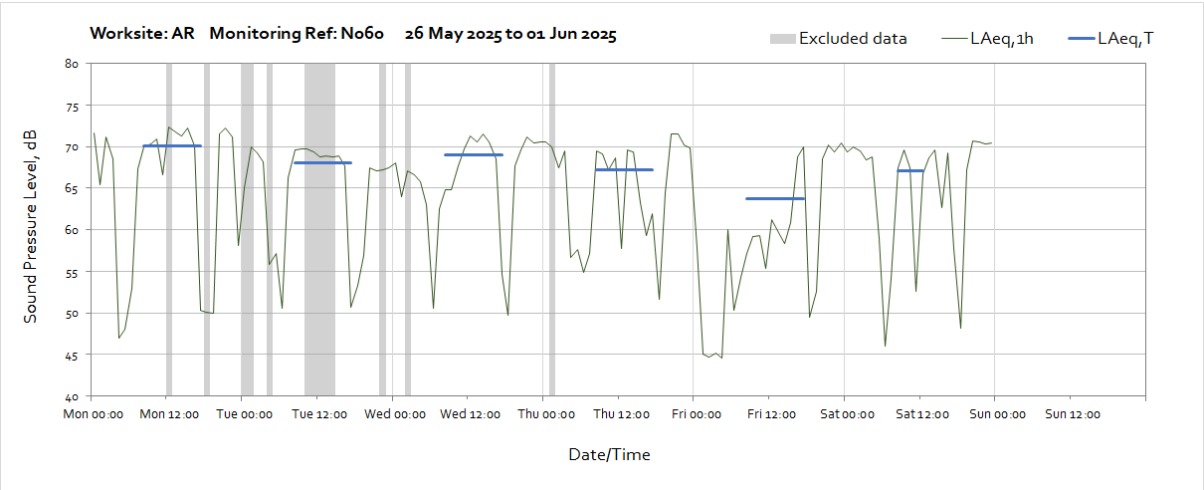
Date/Time


Worksite: AR Monitoring Ref: No60 26 May 2025 to 01 Jun 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
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Mon 00:00
Mon 12:00
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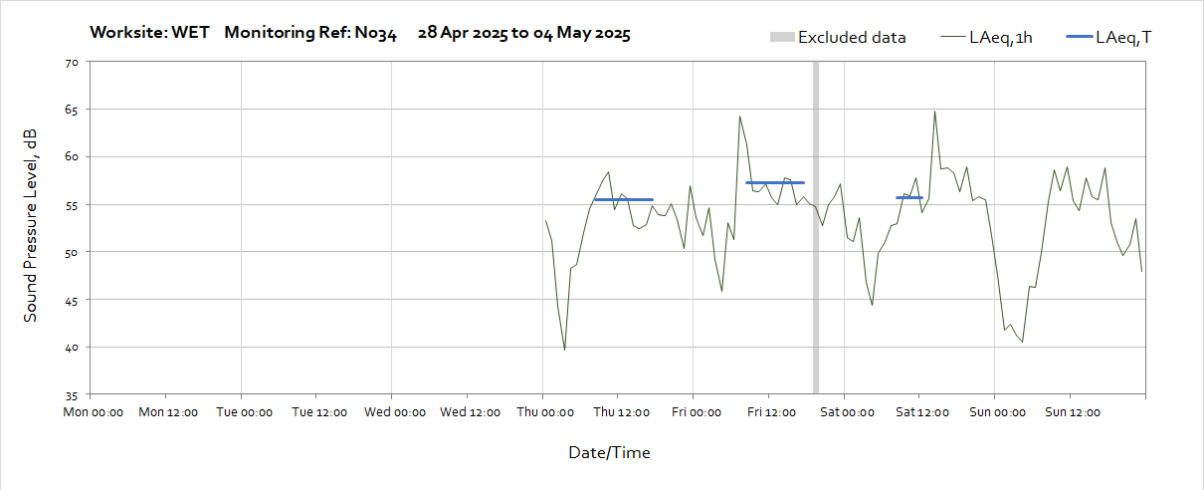
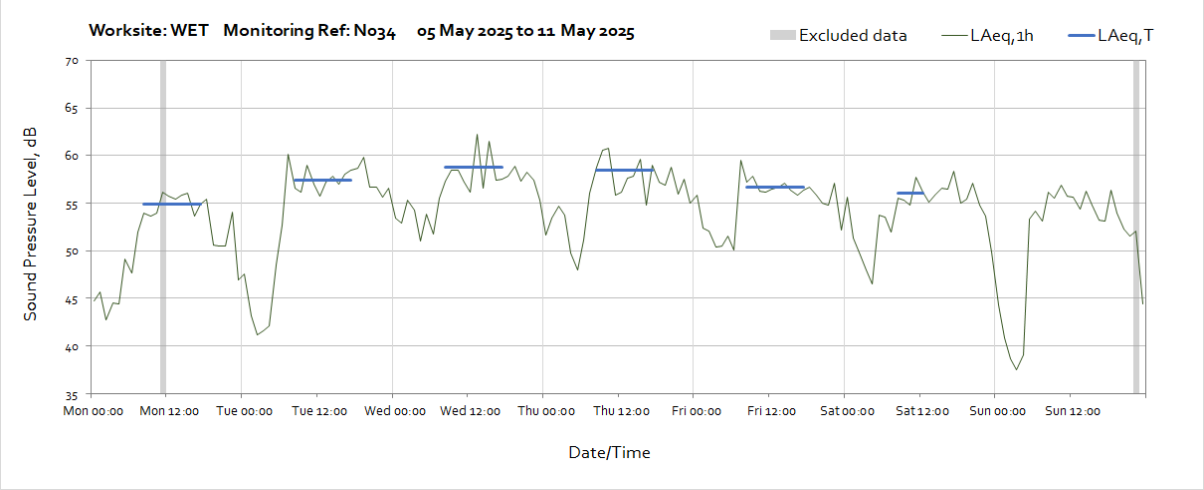
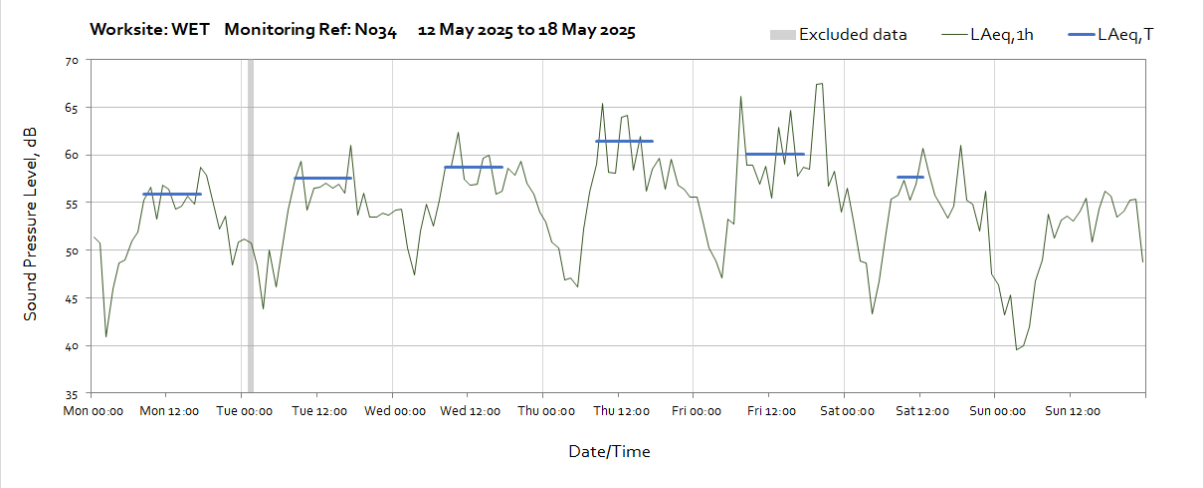
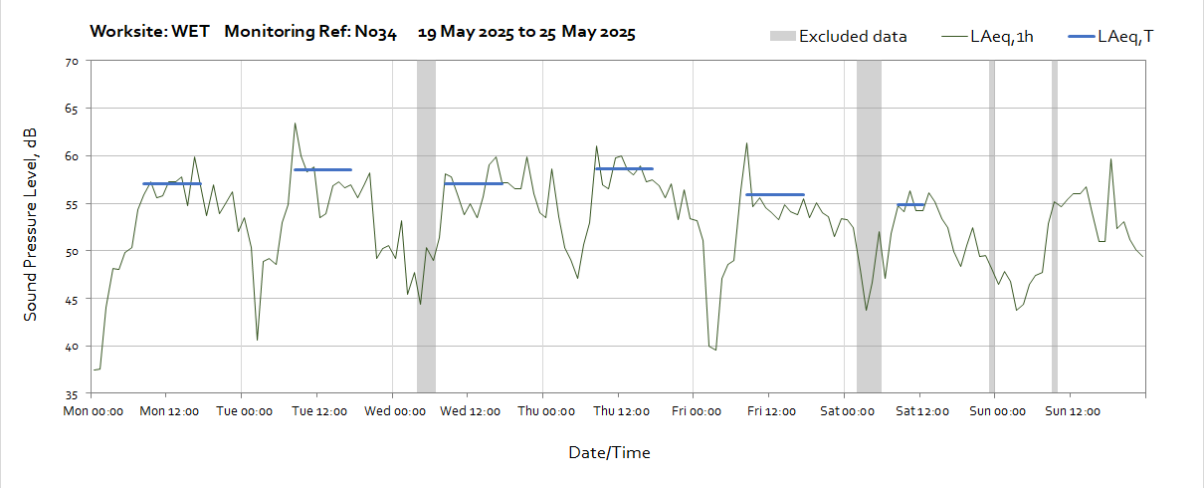
Date/Time

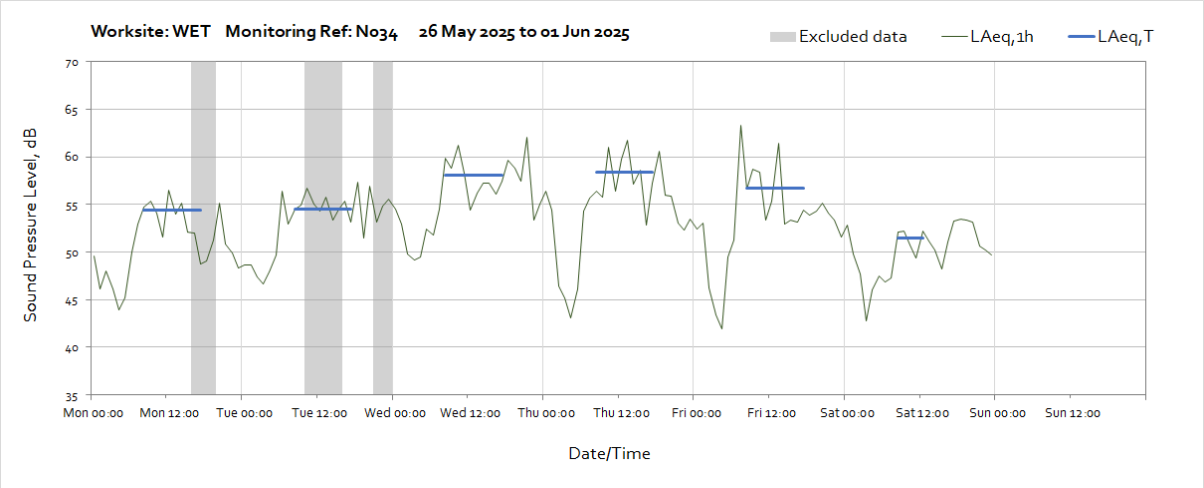
Worksite: WET – Monitoring Ref: N034



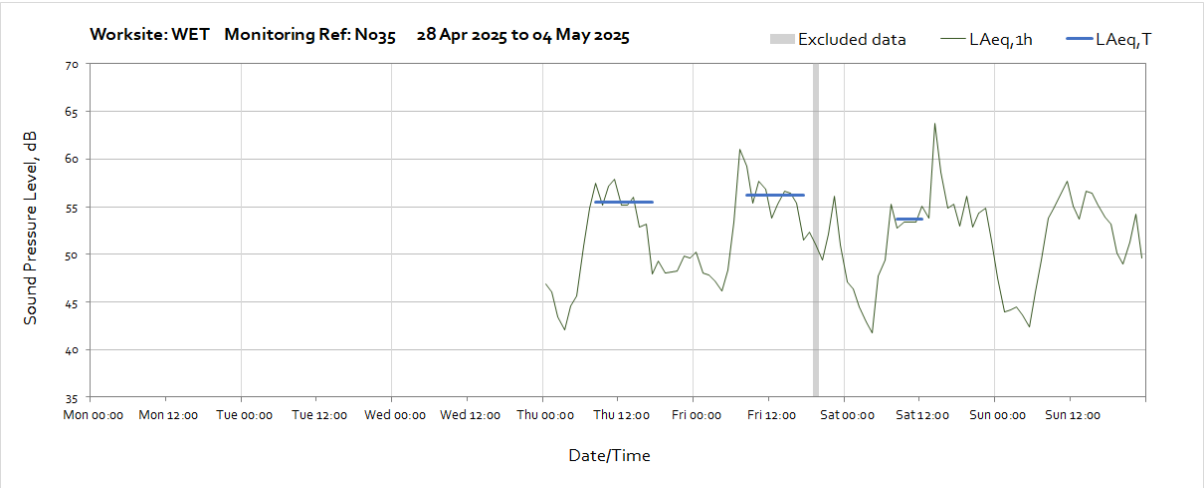


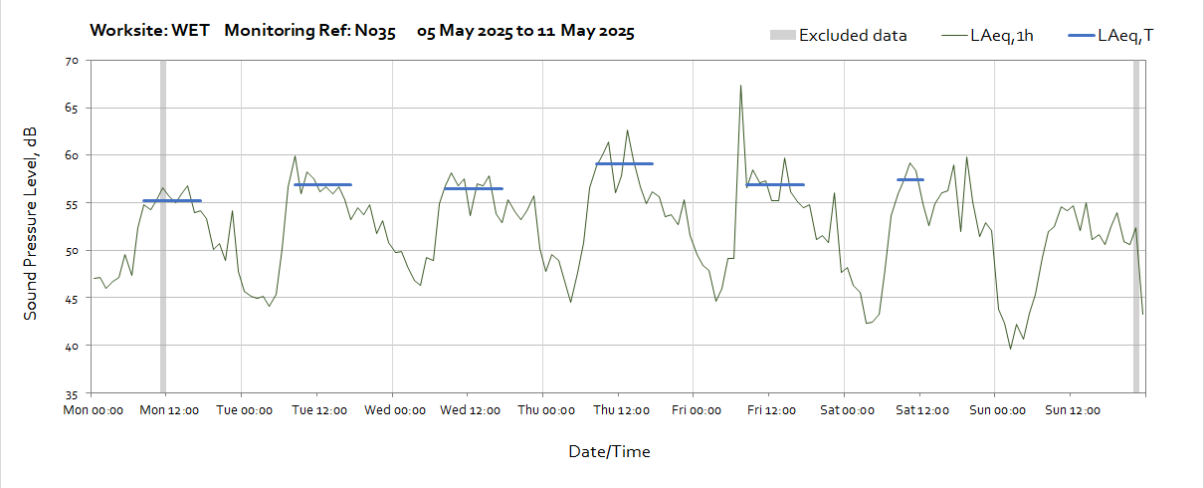






Worksite: WET – Monitoring Ref: N035




Worksite: WET Monitoring Ref: No35 05 May 2025 to 11 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
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Mon 00:00
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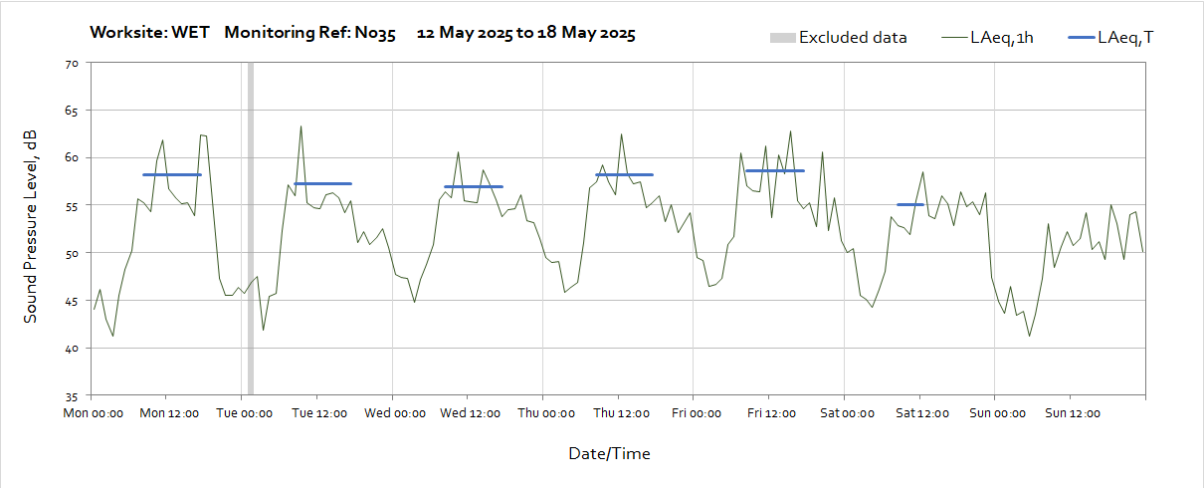
Date/Time


Worksite: WET Monitoring Ref: No35 12 May 2025 to 18 May 2025
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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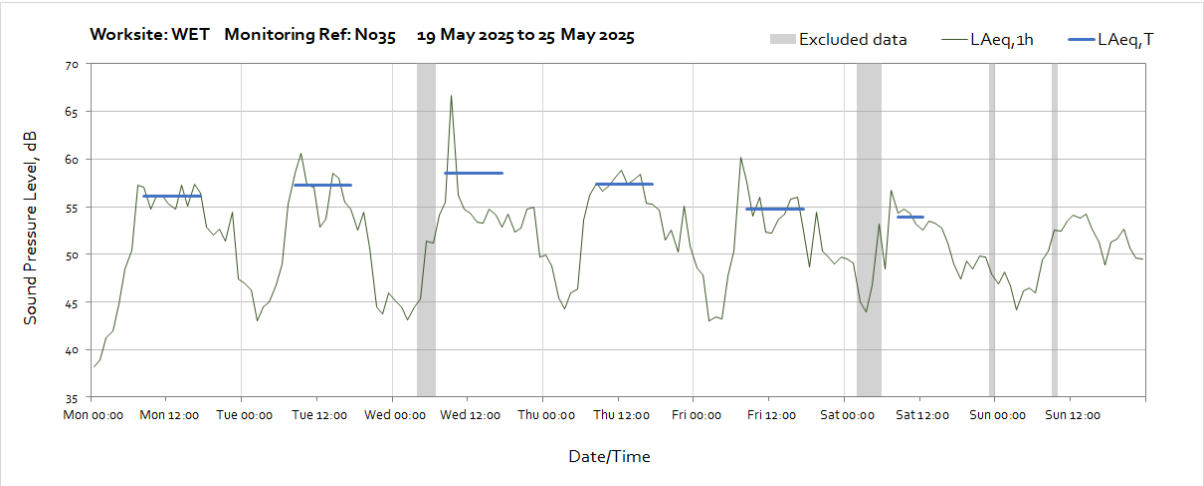
Date/Time


Worksite: WET Monitoring Ref: No35 19 May 2025 to 25 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
70
65
60
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Mon 12:00
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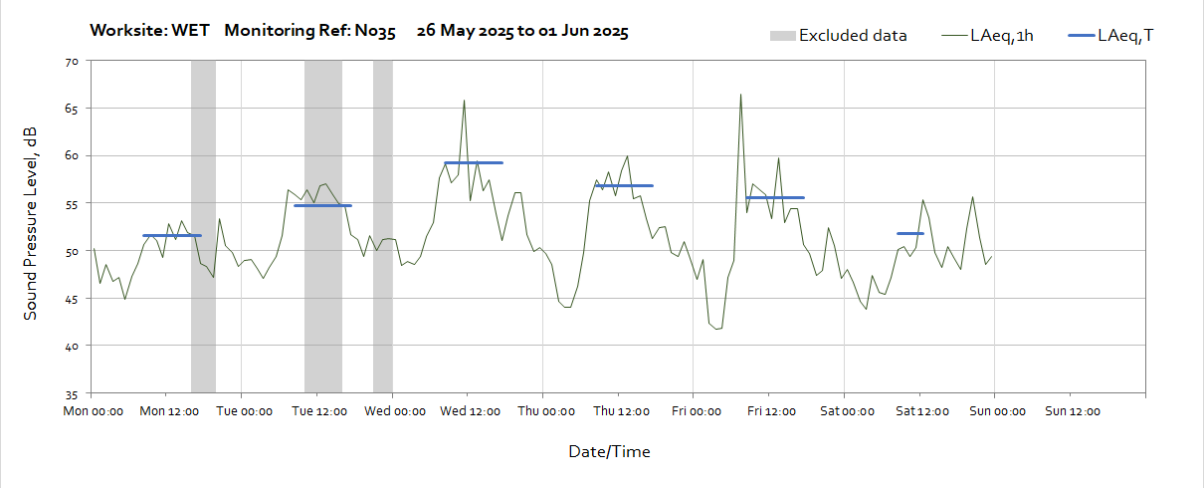
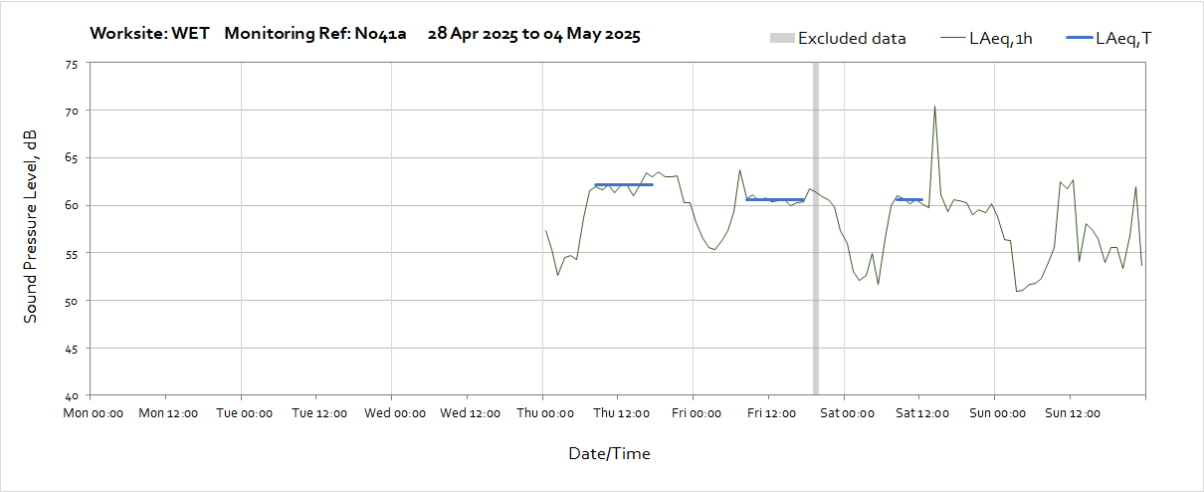
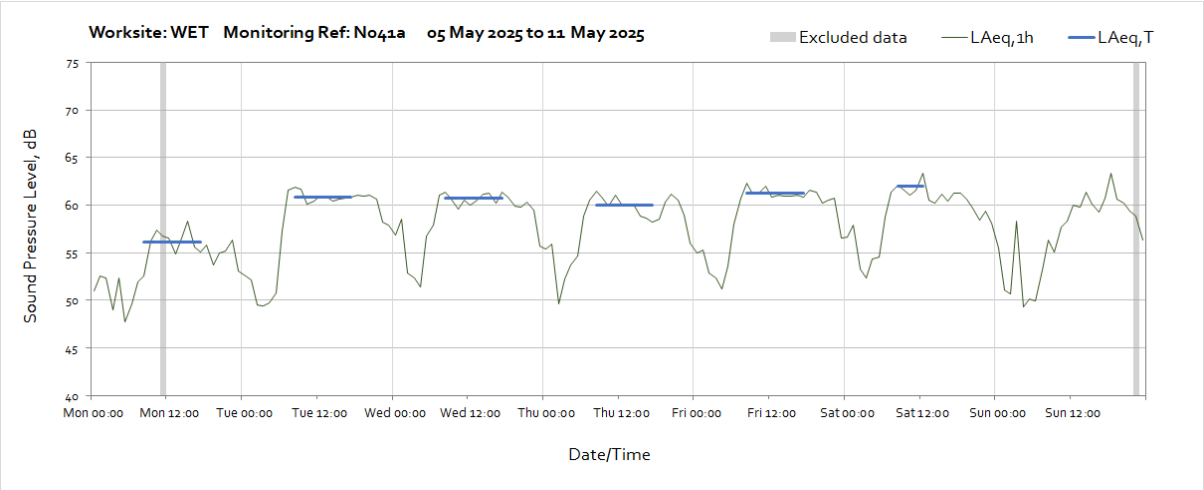
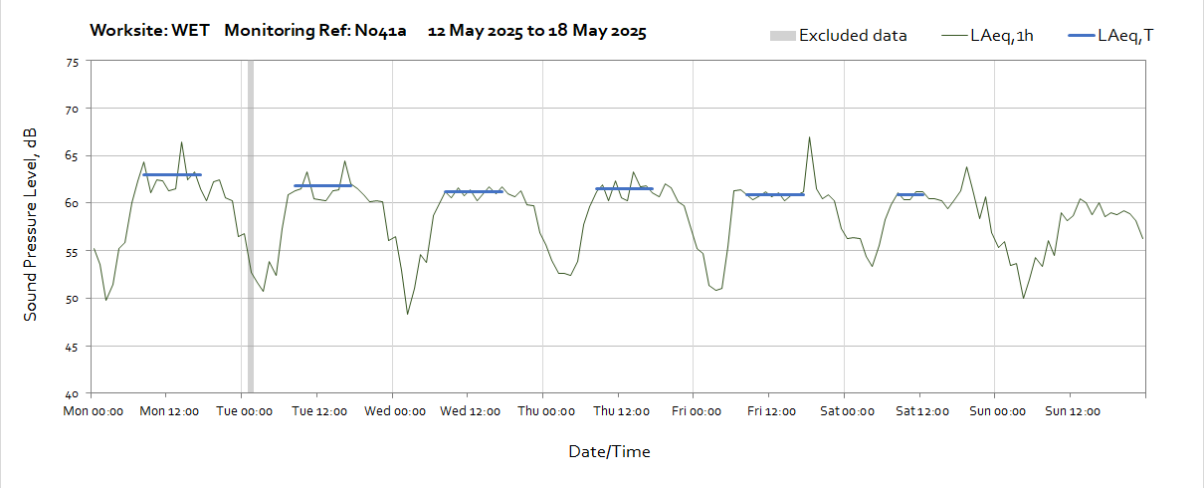
Date/Time



Worksite: WET – Monitoring Ref: N041a






Worksite: WET Monitoring Ref: No41a 12 May 2025 to 18 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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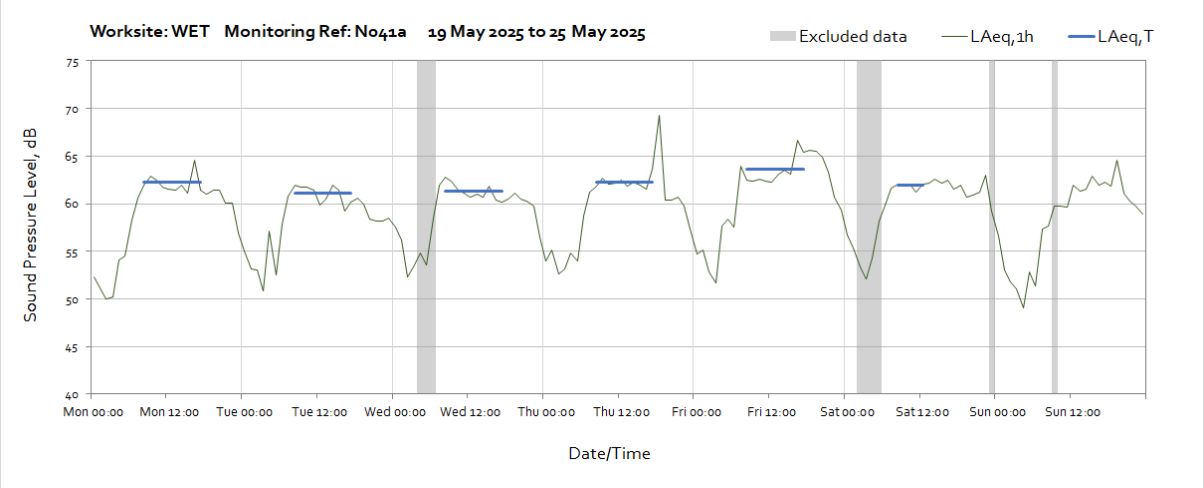
Date/Time


Worksite: WET Monitoring Ref: No41a 19 May 2025 to 25 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
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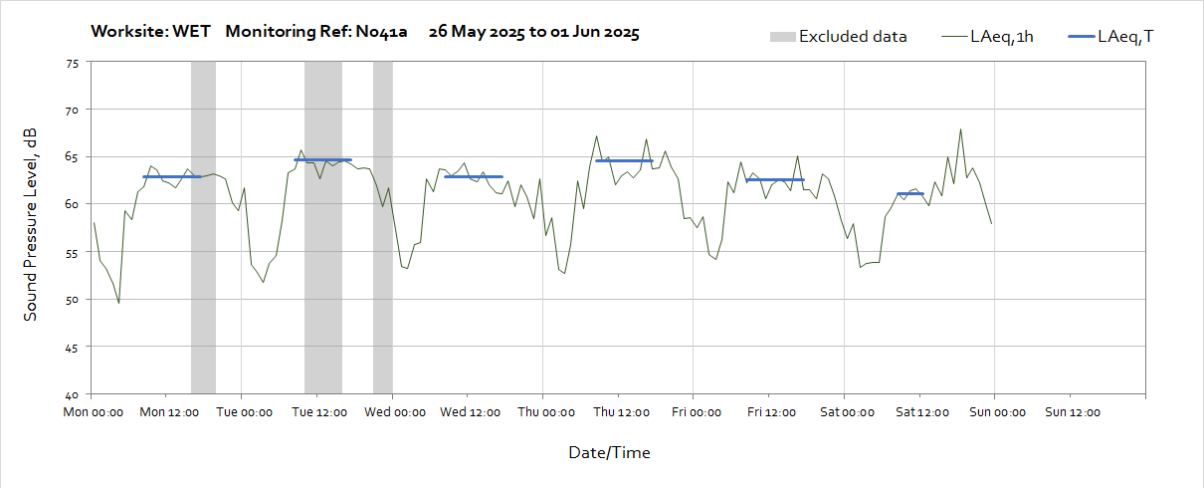
Date/Time


Worksite: WET Monitoring Ref: No41a 26 May 2025 to 01 Jun 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
75
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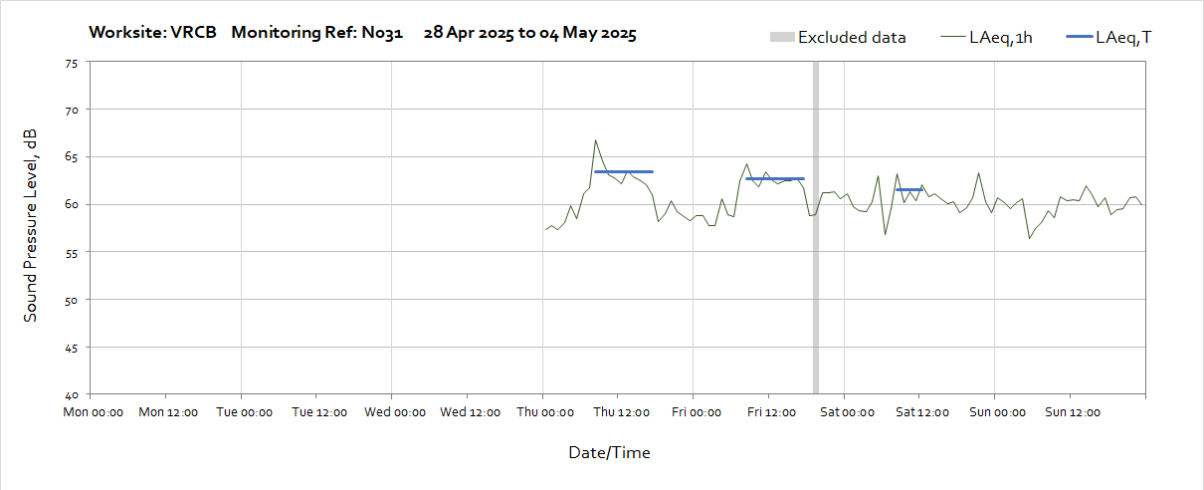
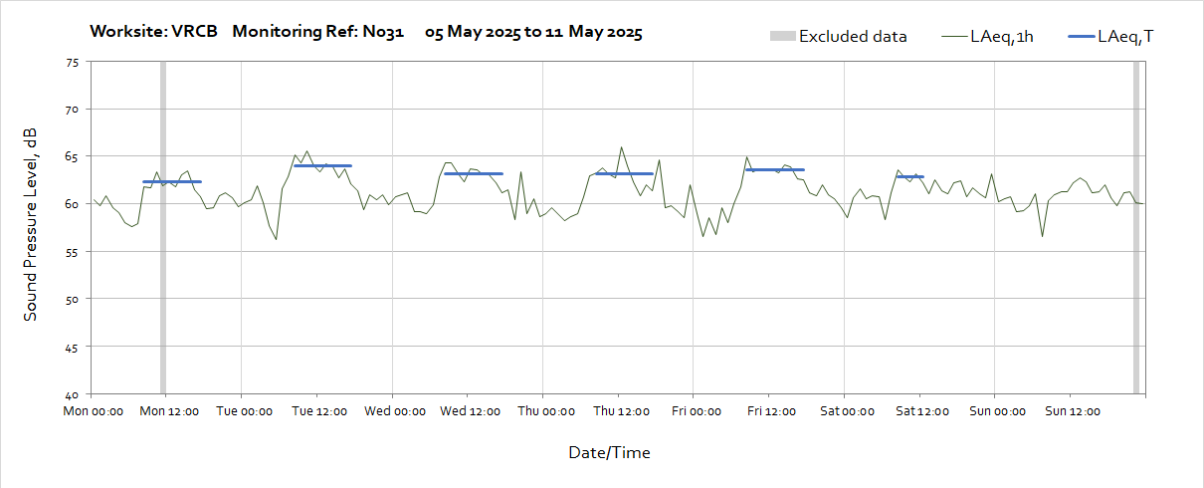
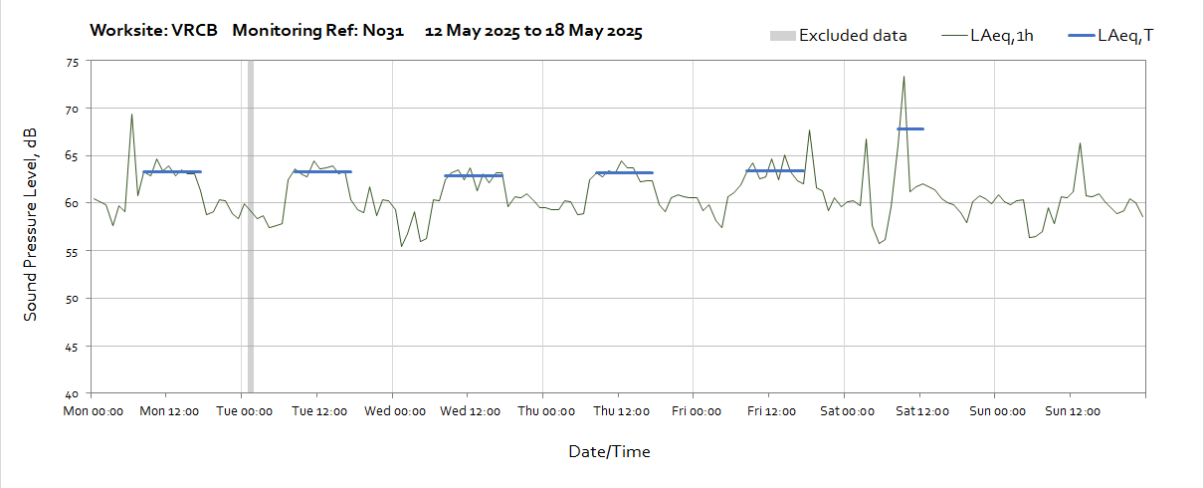
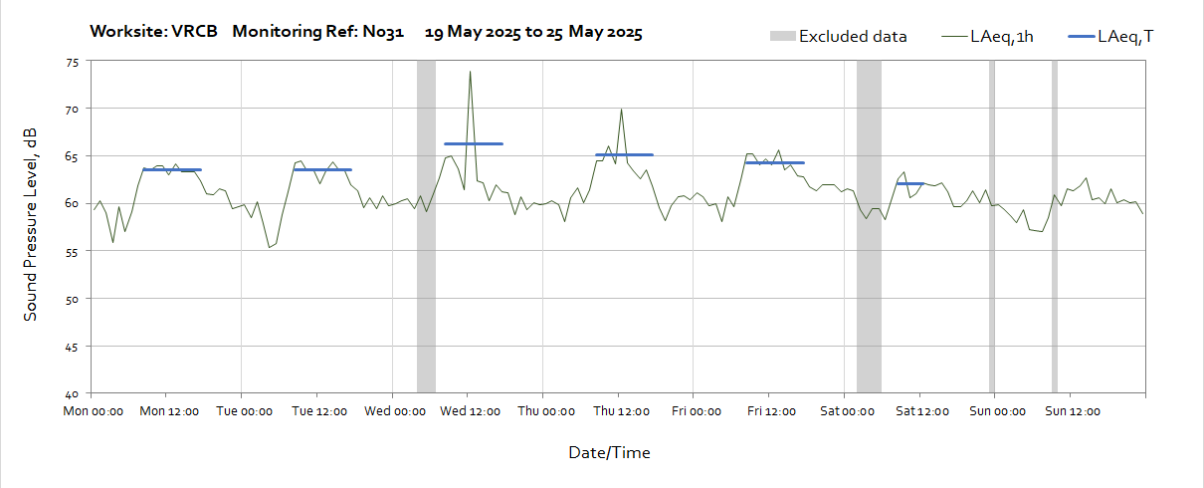
Date/Time

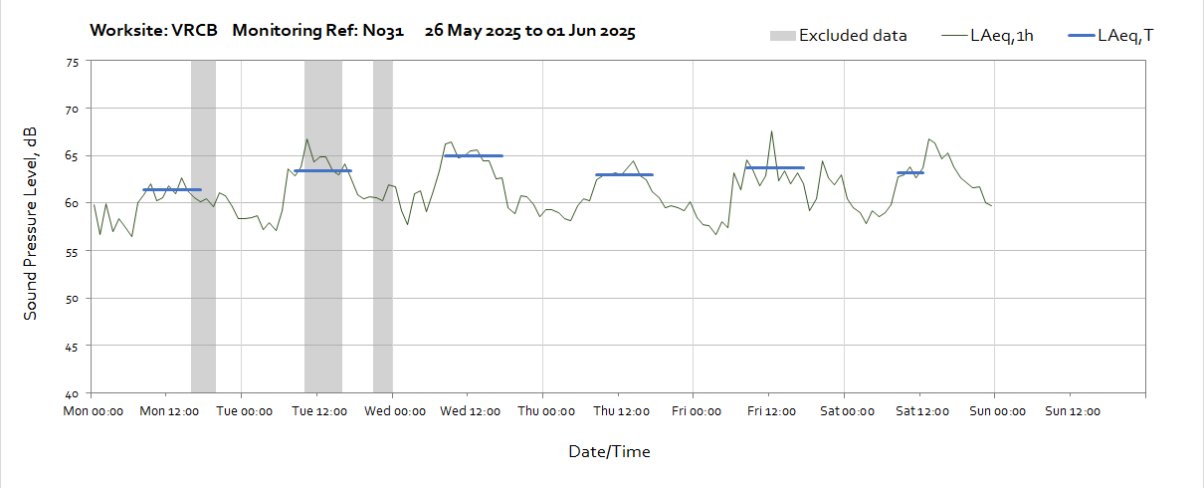
Worksite: VRCB – Monitoring Ref: N031











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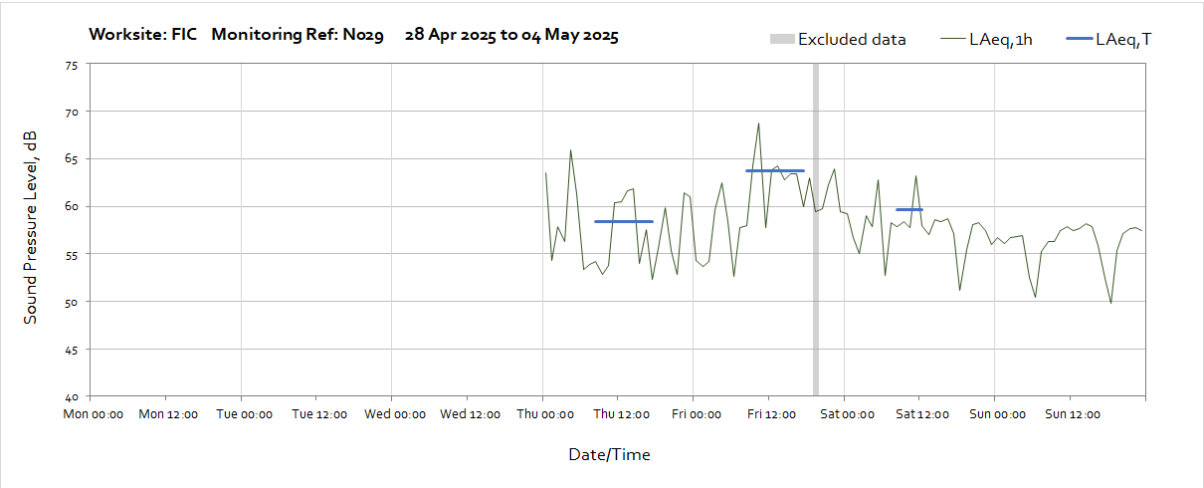

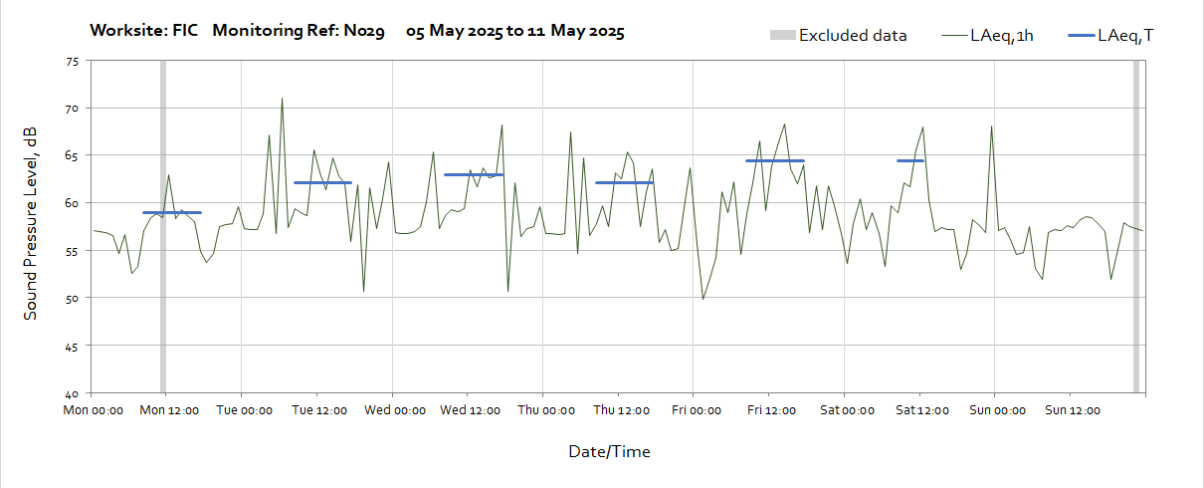
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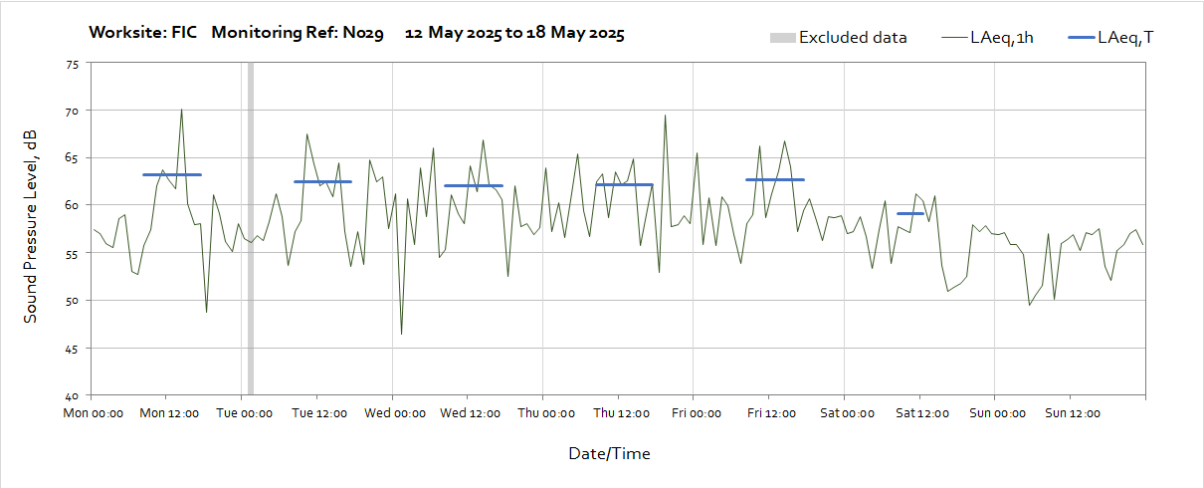
Date/Time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Sound Pressure Level, dB
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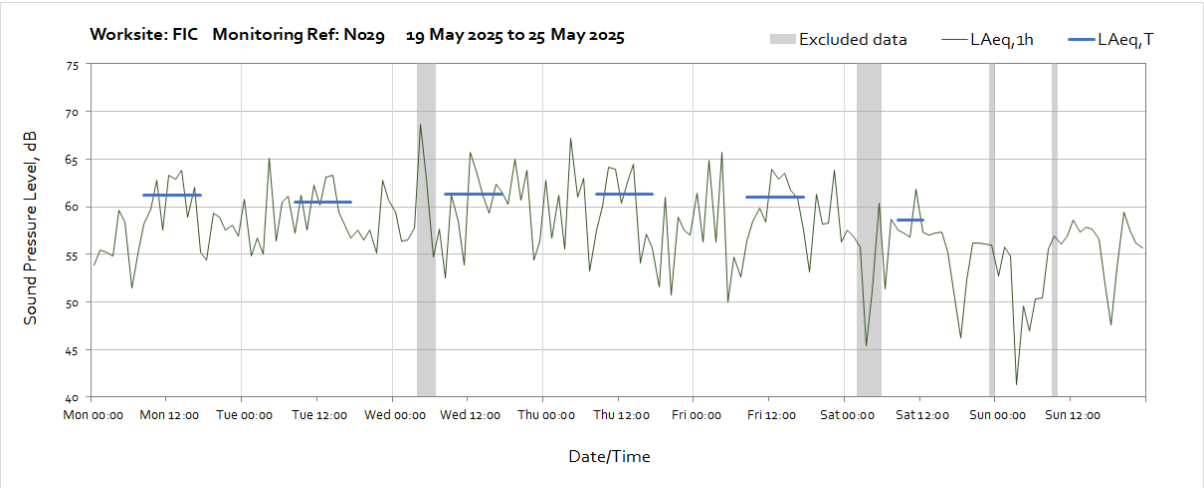
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Sound Pressure Level, dB
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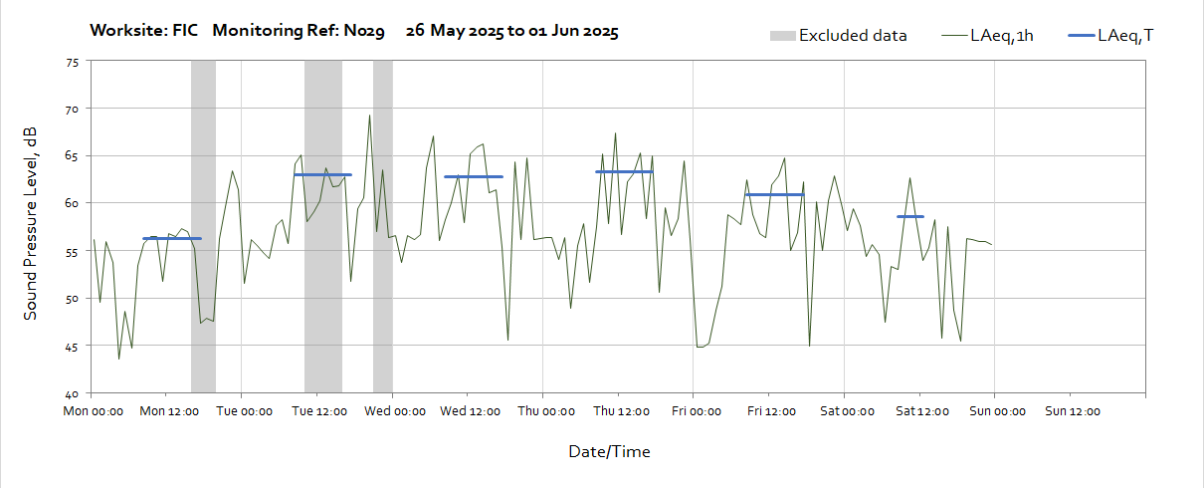
Date/Time



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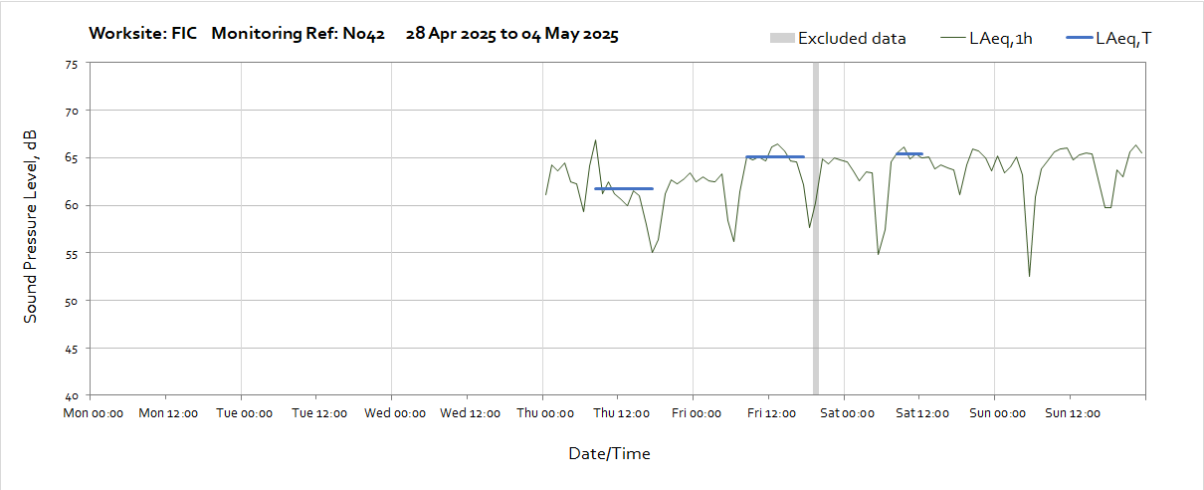

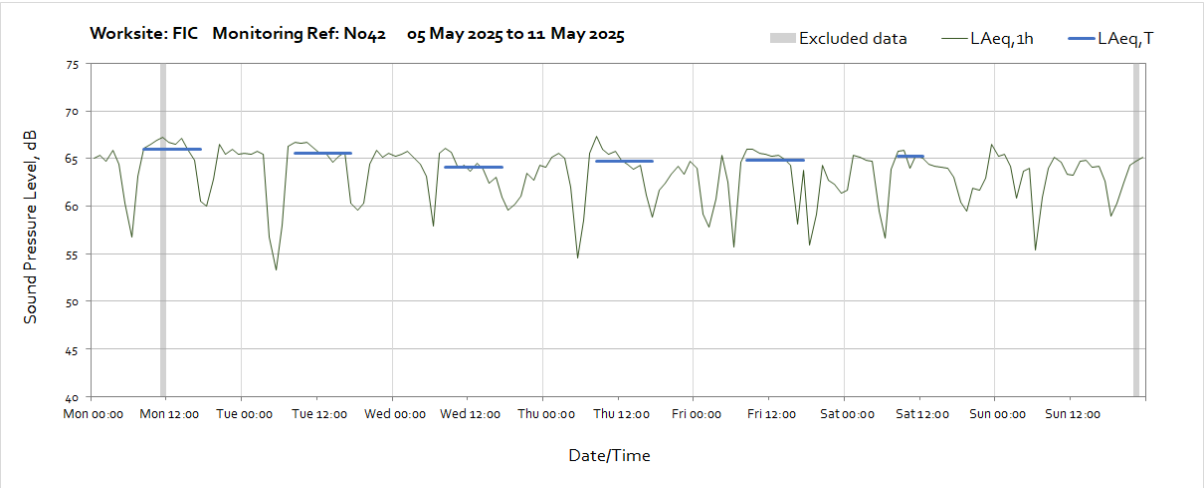

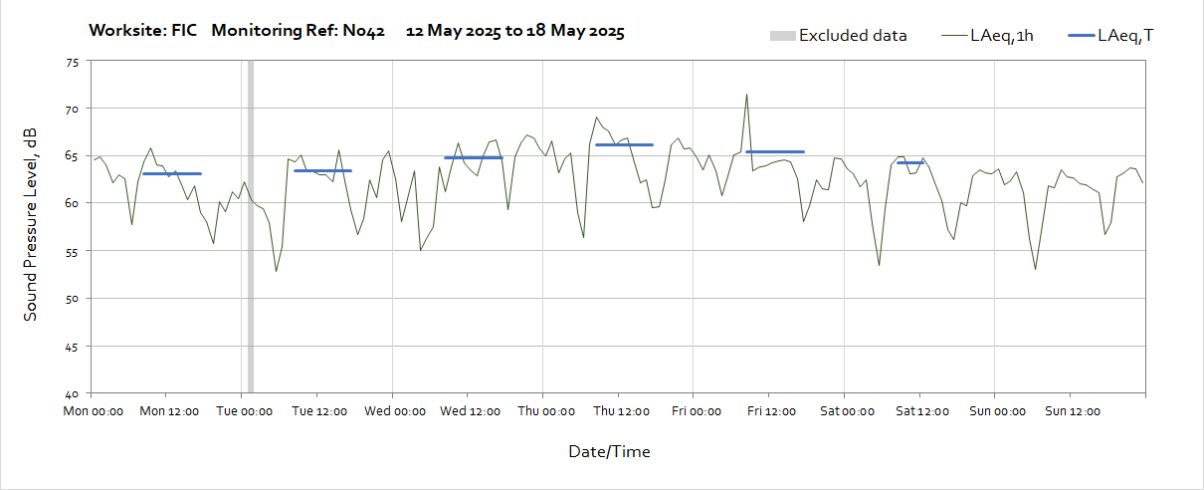
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Sound Pressure Level, dB
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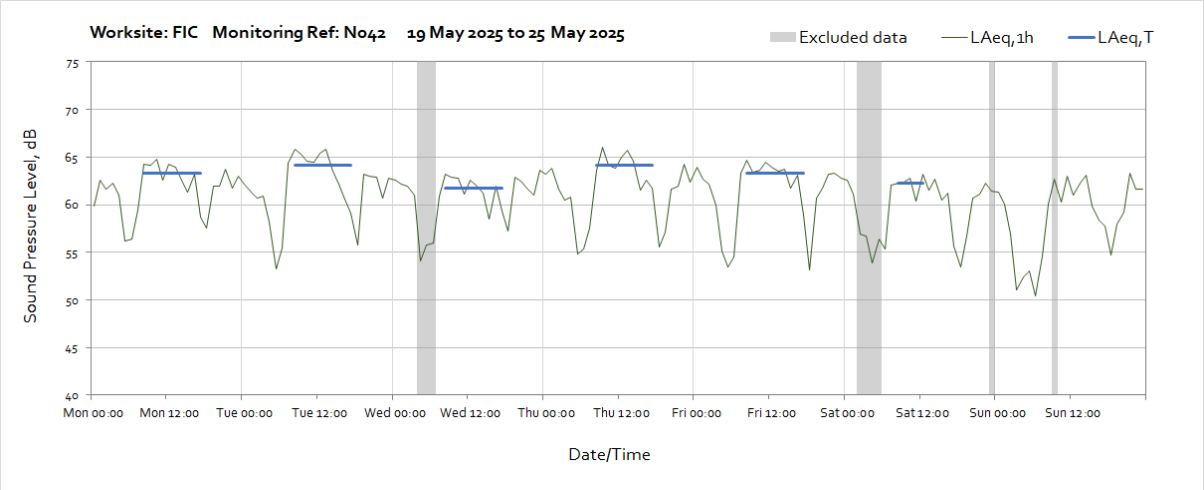
Date/Time


Worksite: FIC Monitoring Ref: No42 19 May 2025 to 25 May 2025
Excluded data
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LAeq,T
Sound Pressure Level, dB
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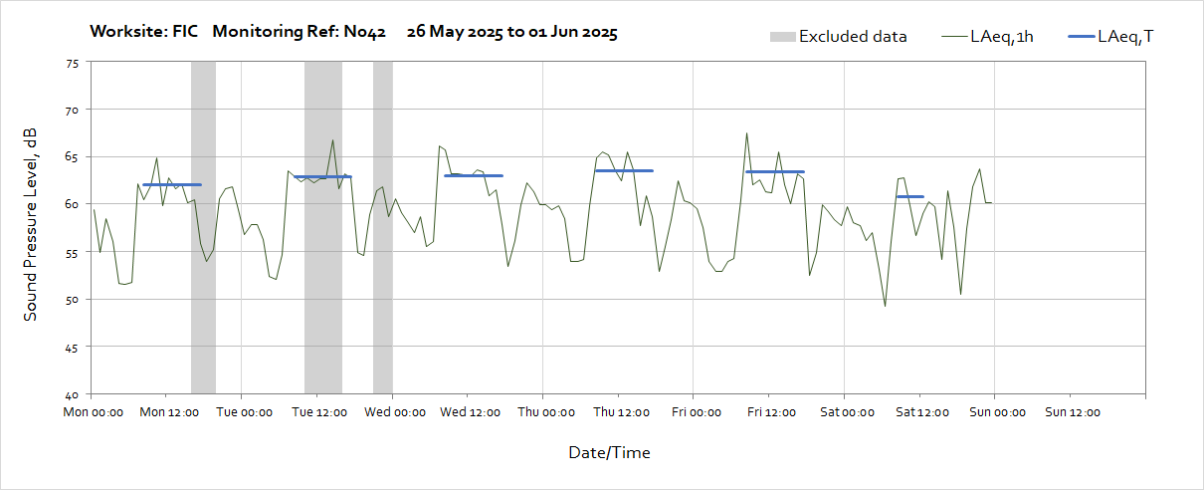
Date/Time


Worksite: FIC Monitoring Ref: No42 26 May 2025 to 01 Jun 2025
Excluded data
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LAeq,T
Sound Pressure Level, dB
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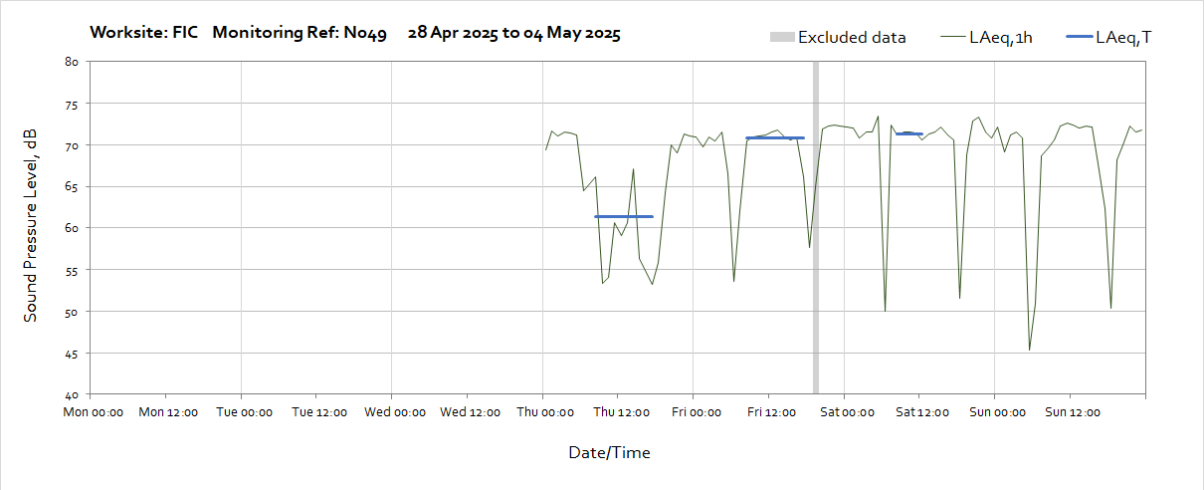
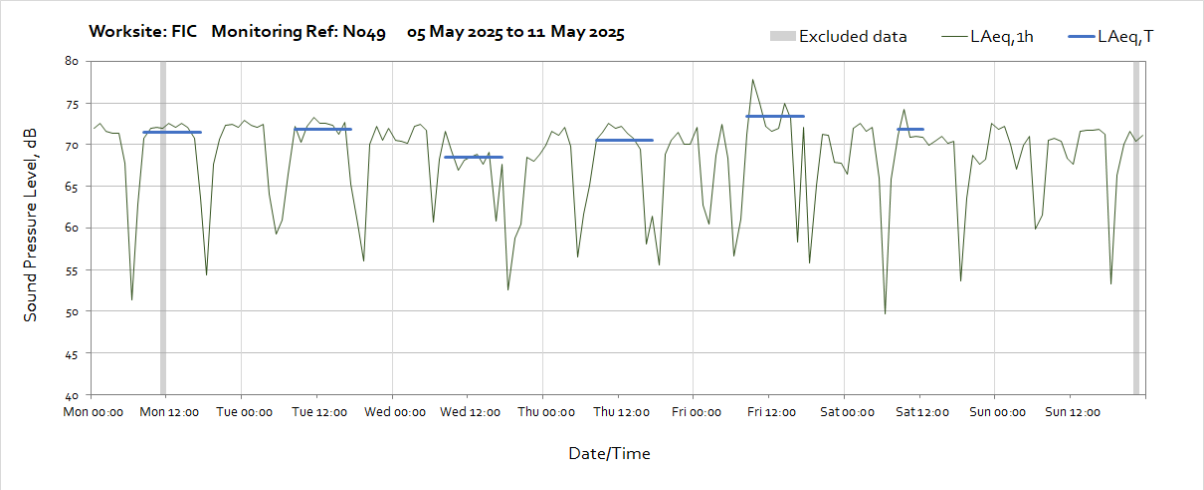
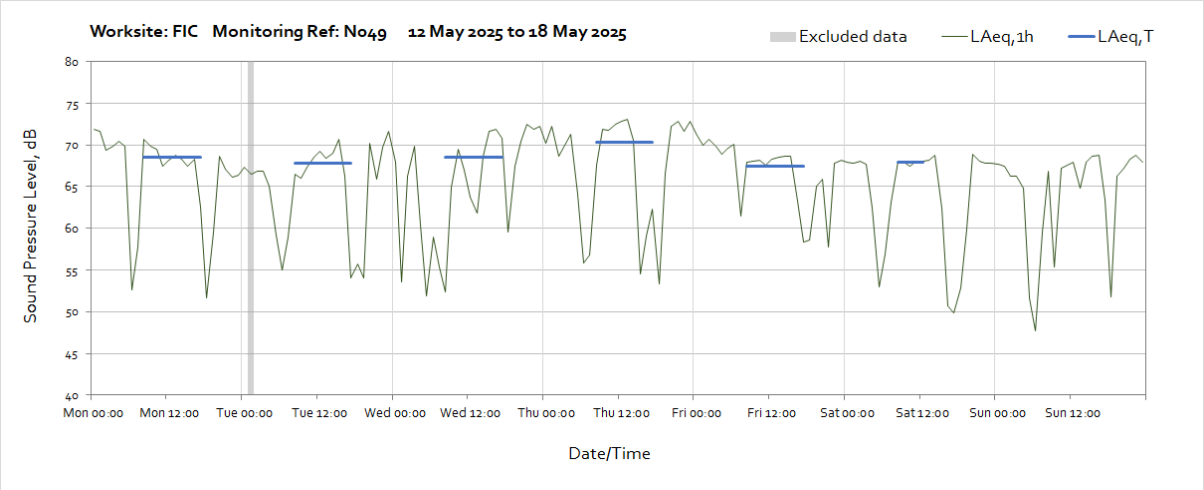
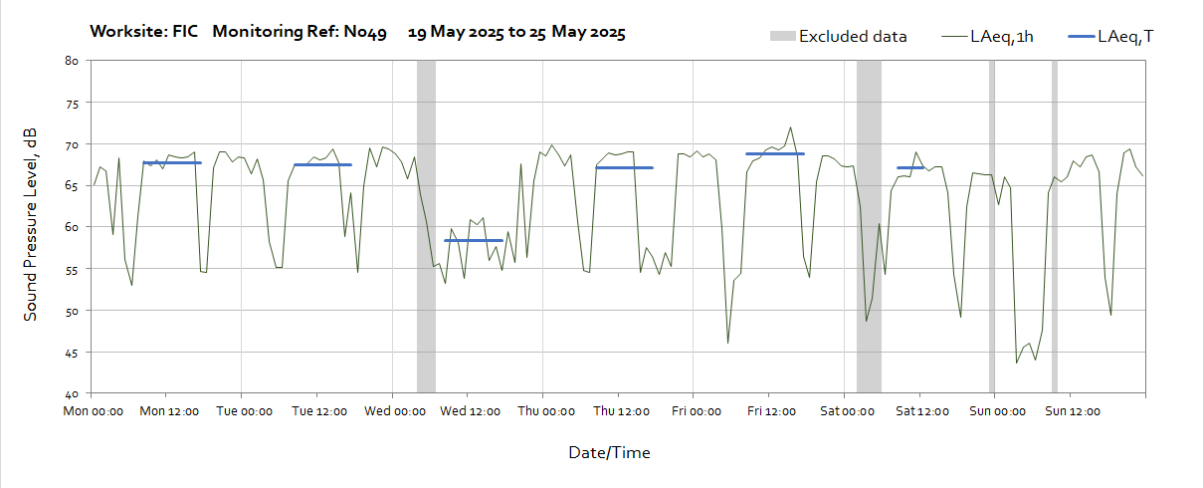
Date/Time

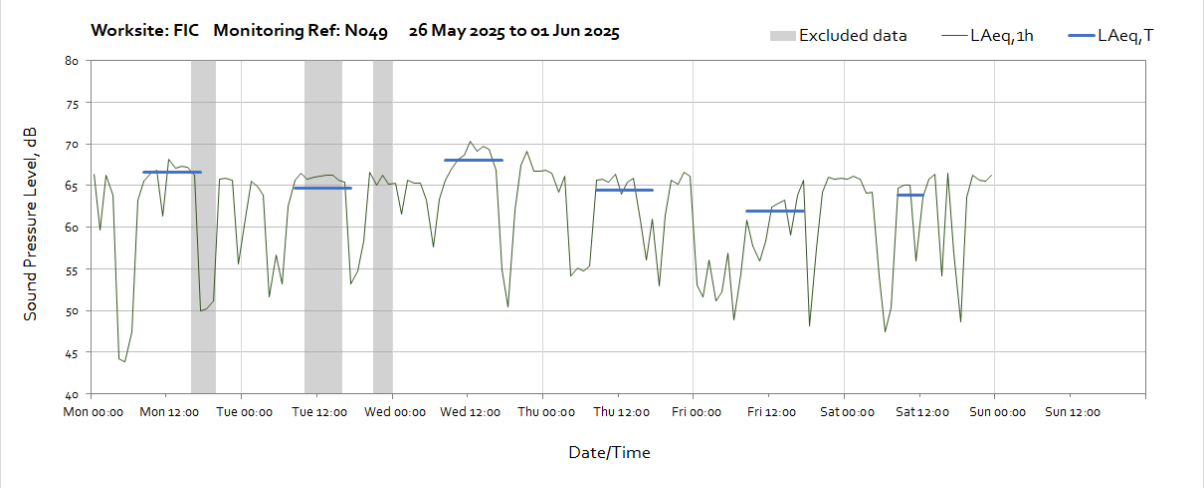
Worksite: FIC – Monitoring Ref: N049



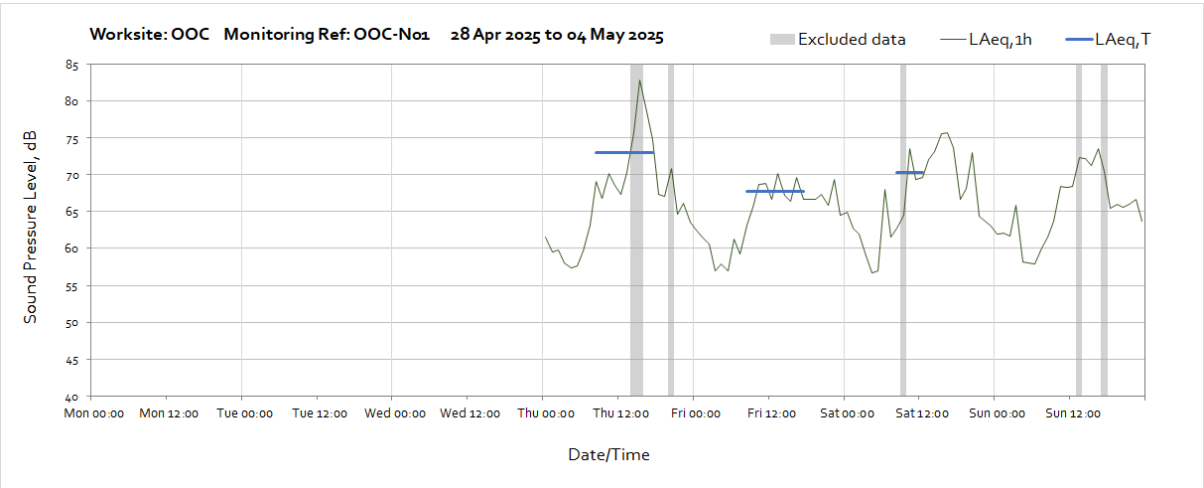


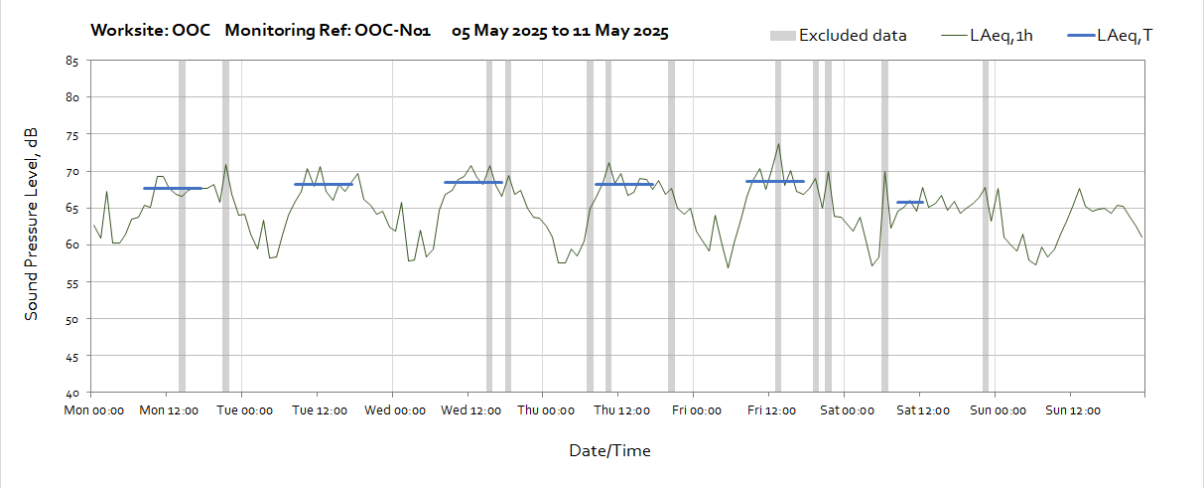






Worksite: OOC – Monitoring Ref: OOC-N01




Worksite: OOC Monitoring Ref: OOC-No1 05 May 2025 to 11 May 2025
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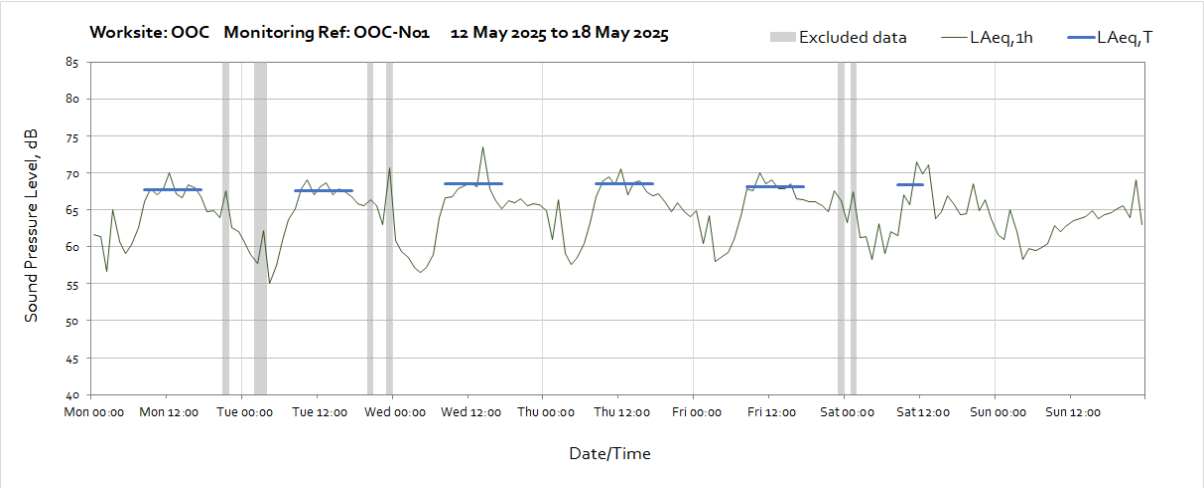
Date/Time


Worksite: OOC Monitoring Ref: OOC-No1 12 May 2025 to 18 May 2025
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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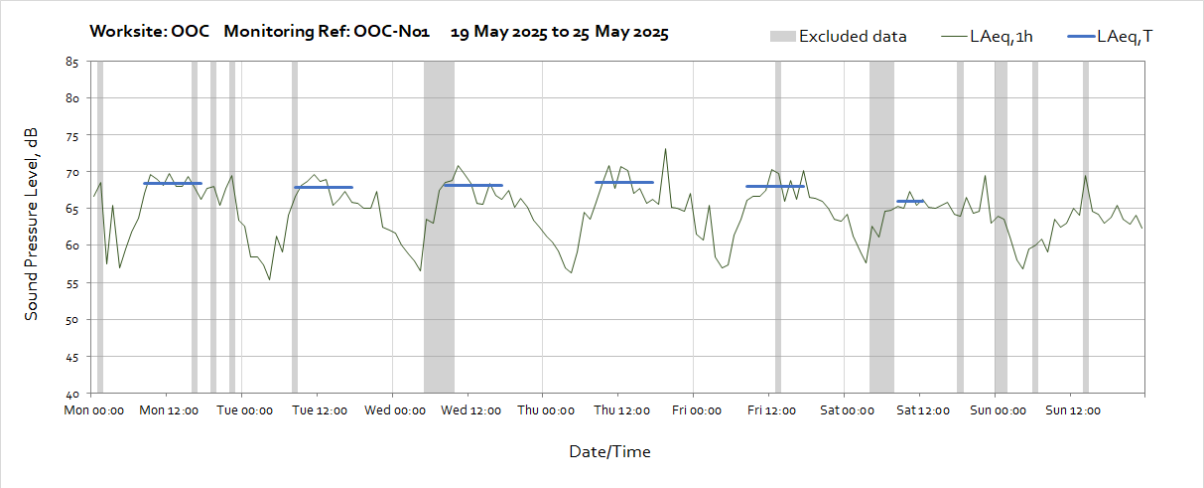
Date/Time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Excluded data
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LAeq,T
Sound Pressure Level, dB
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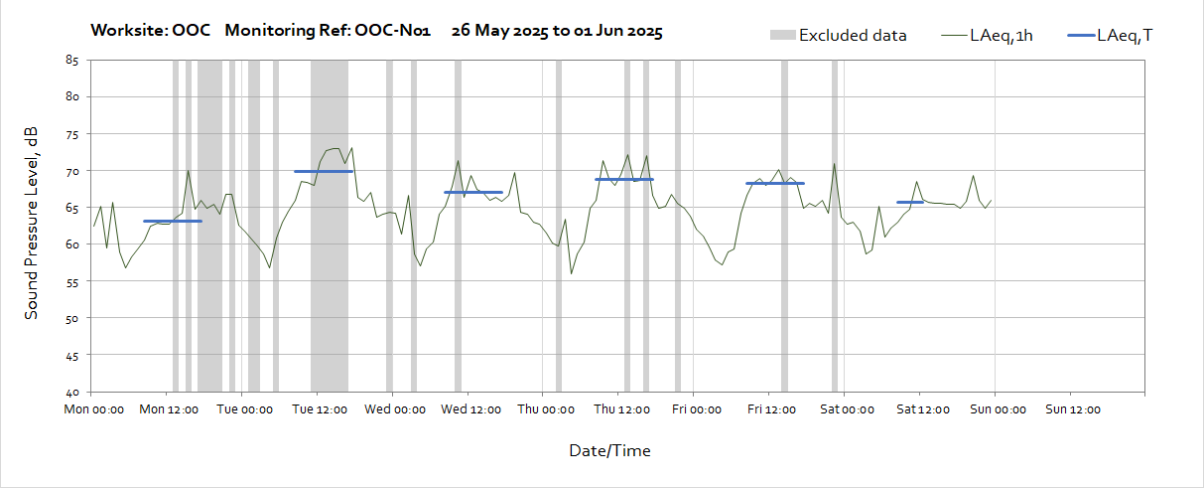
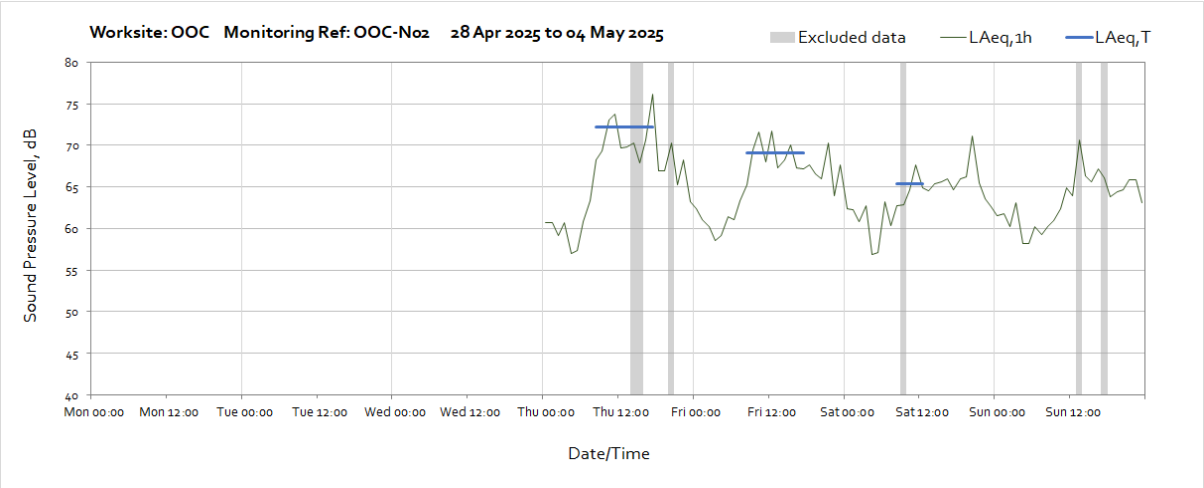
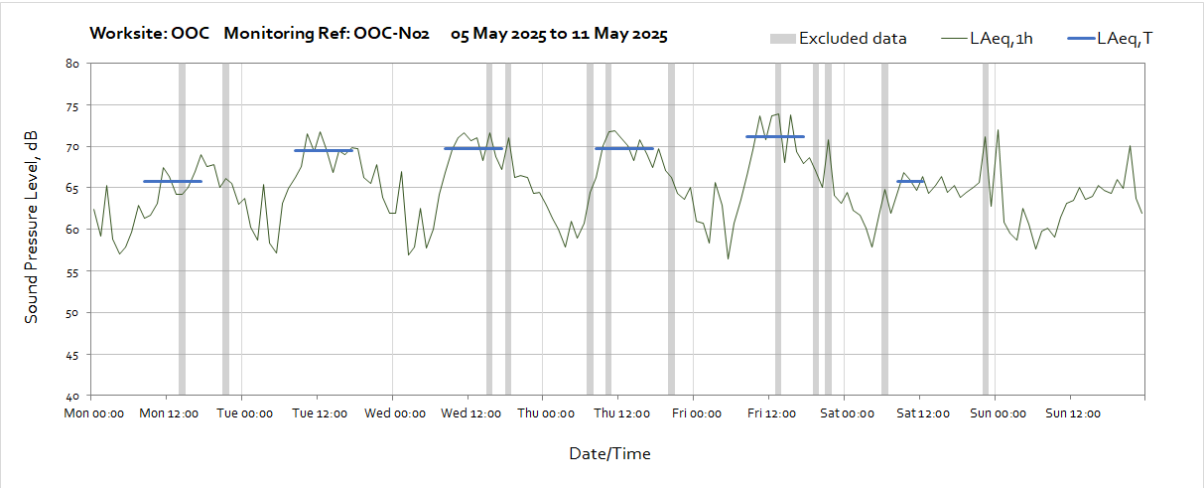
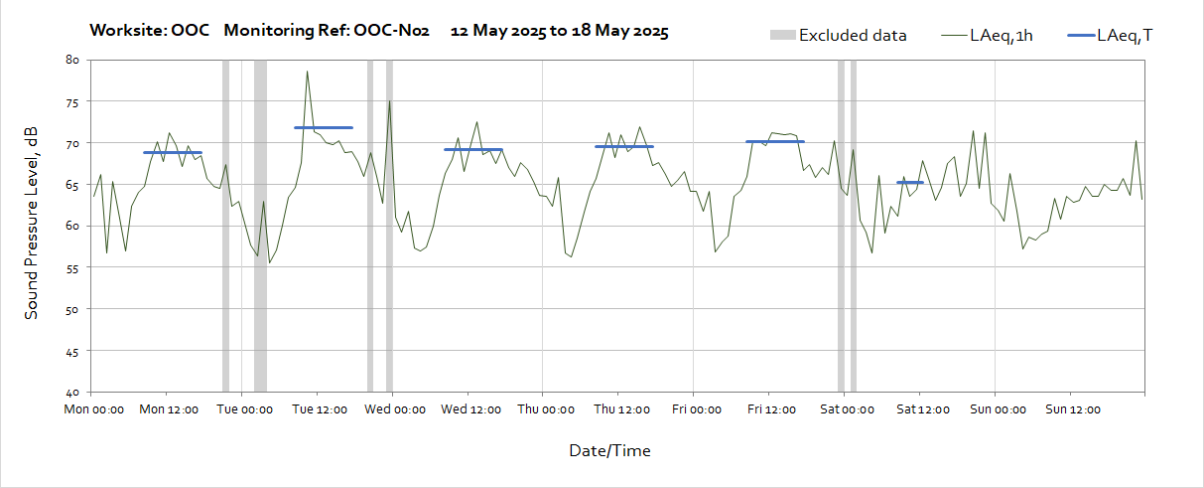
Date/Time



Worksite: OOC – Monitoring Ref: OOC-N02






Worksite: OOC Monitoring Ref: OOC-No2 12 May 2025 to 18 May 2025
Excluded data
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Sound Pressure Level, dB
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70
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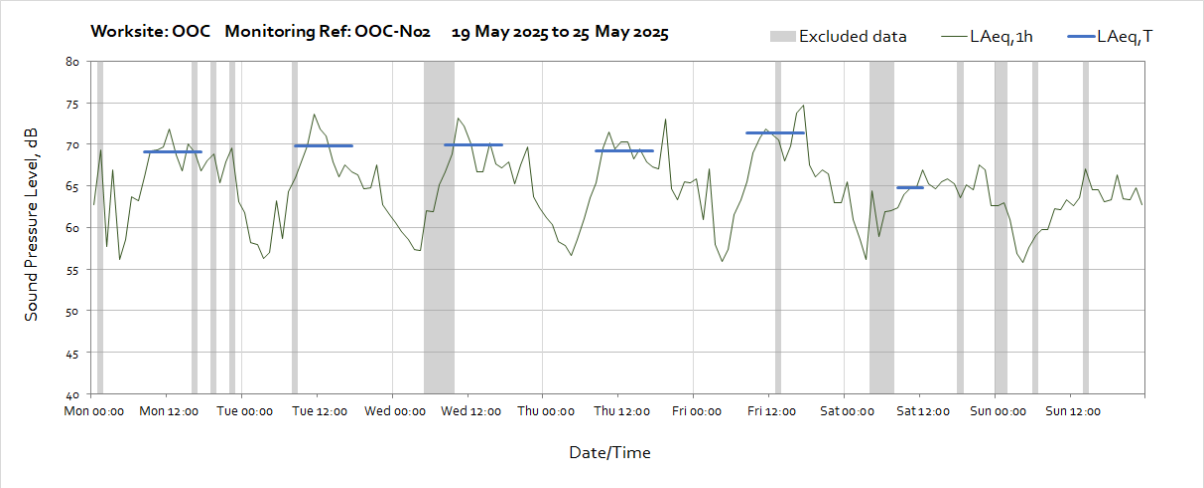
Date/Time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LAeq,T
Sound Pressure Level, dB
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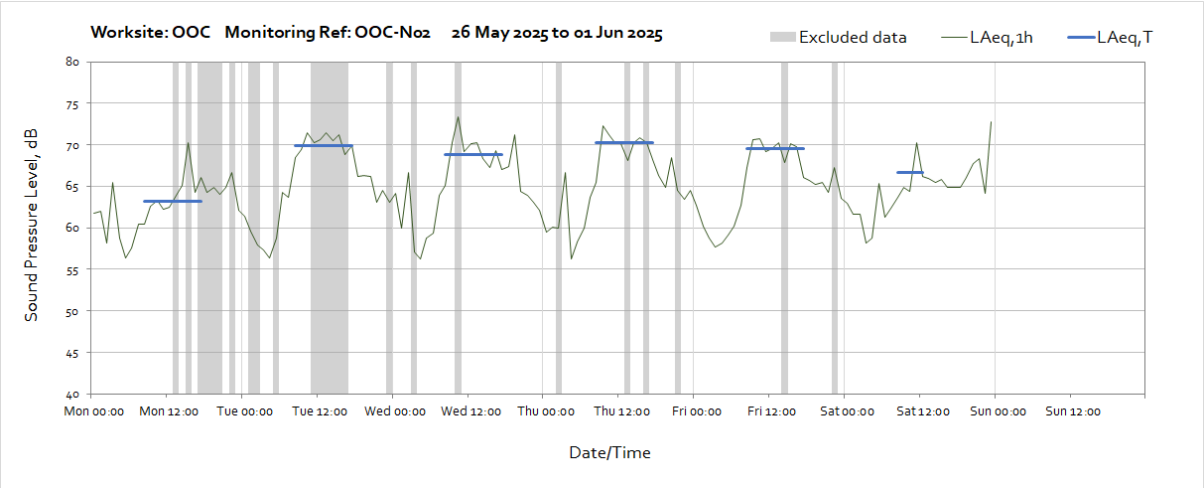
Date/Time


Worksite: OOC Monitoring Ref: OOC-No2 26 May 2025 to 01 Jun 2025
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LAeq,T
Sound Pressure Level, dB
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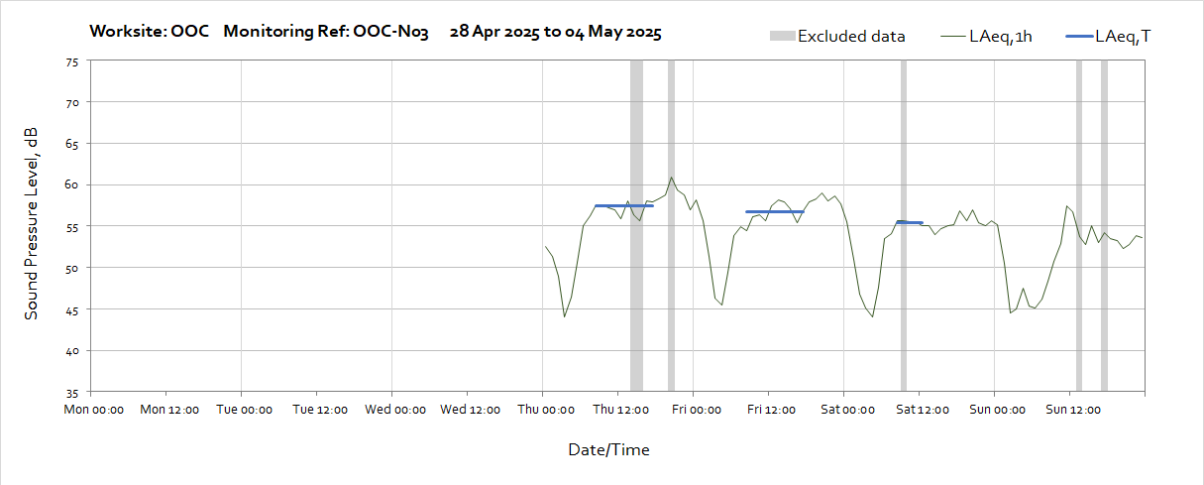
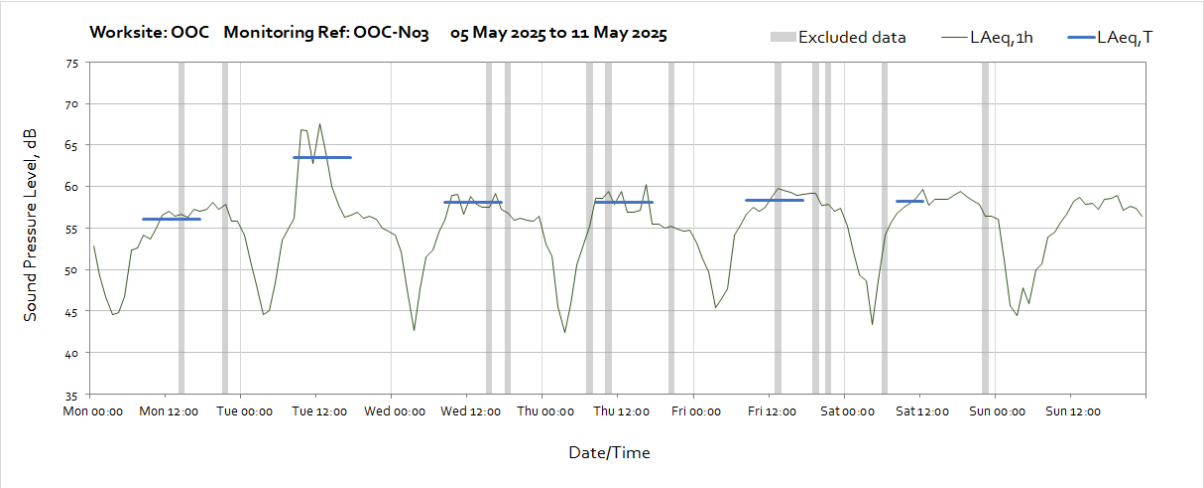
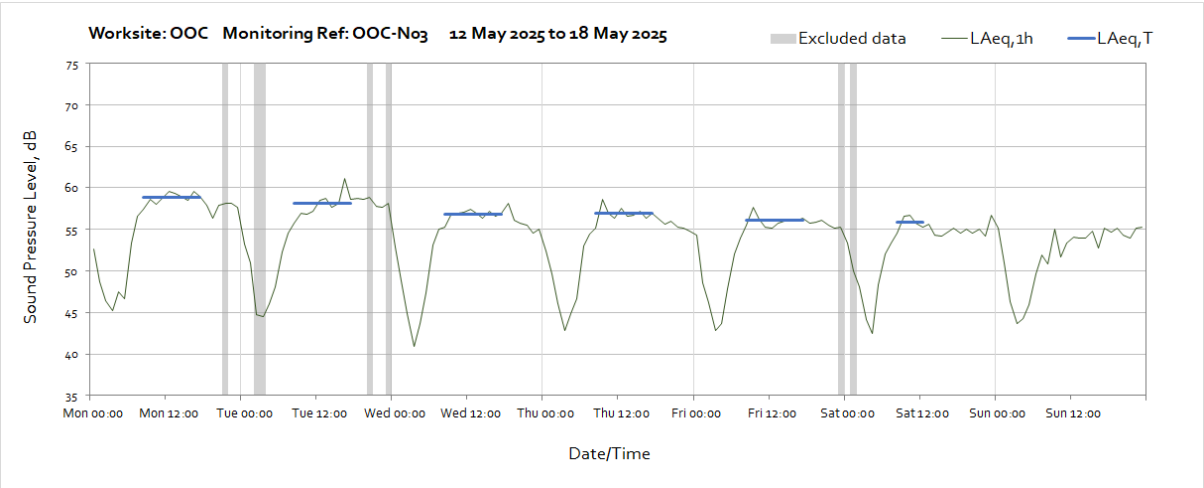
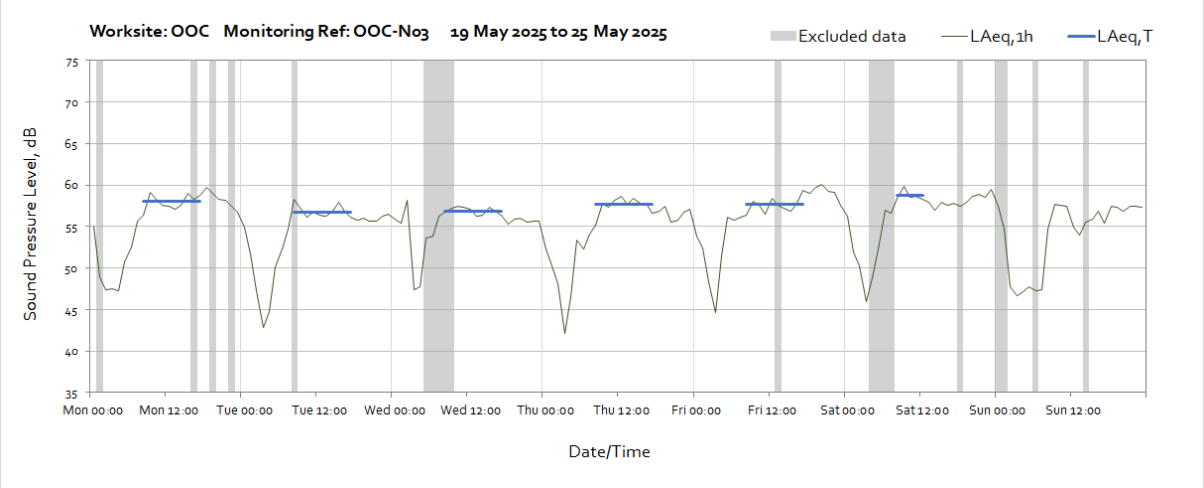
Date/Time

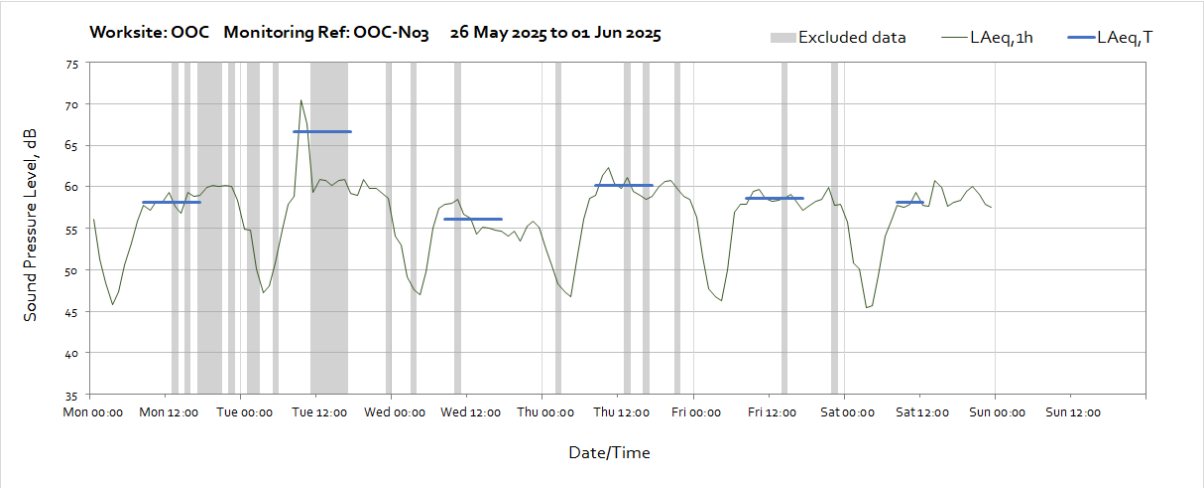
Worksite: OOC – Monitoring Ref: OOC-N03



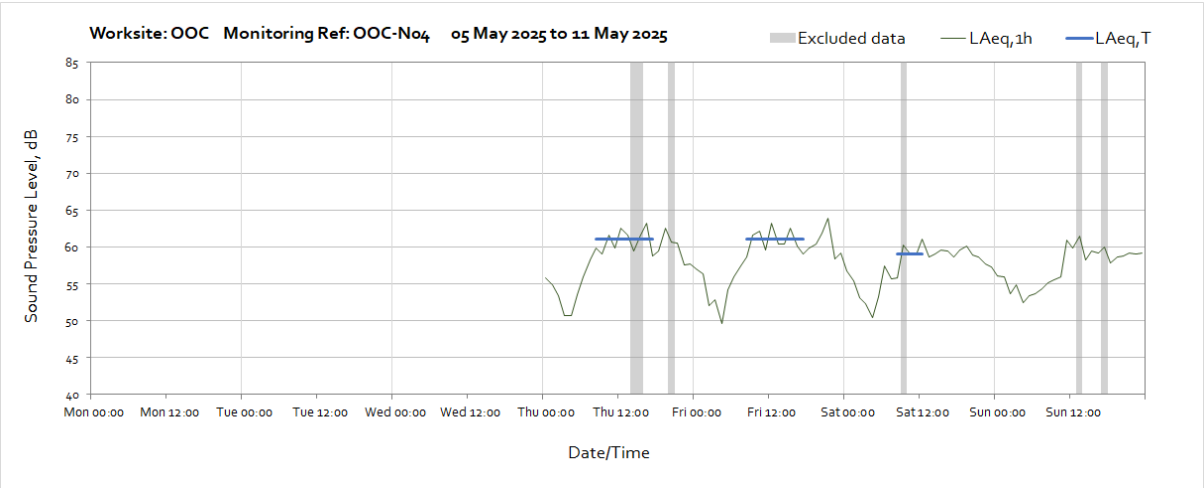


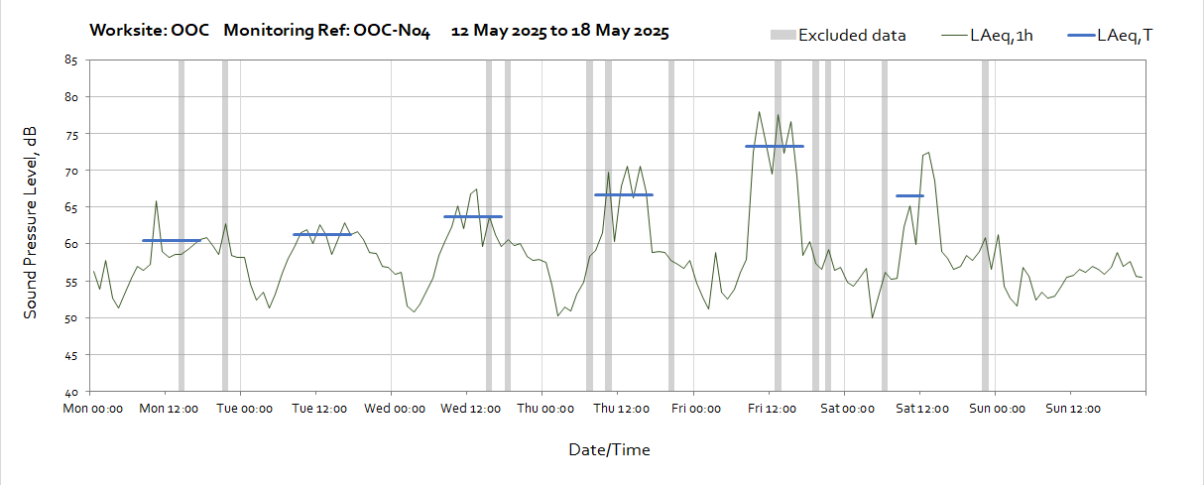






Worksite: OOC – Monitoring Ref: OOC-N04

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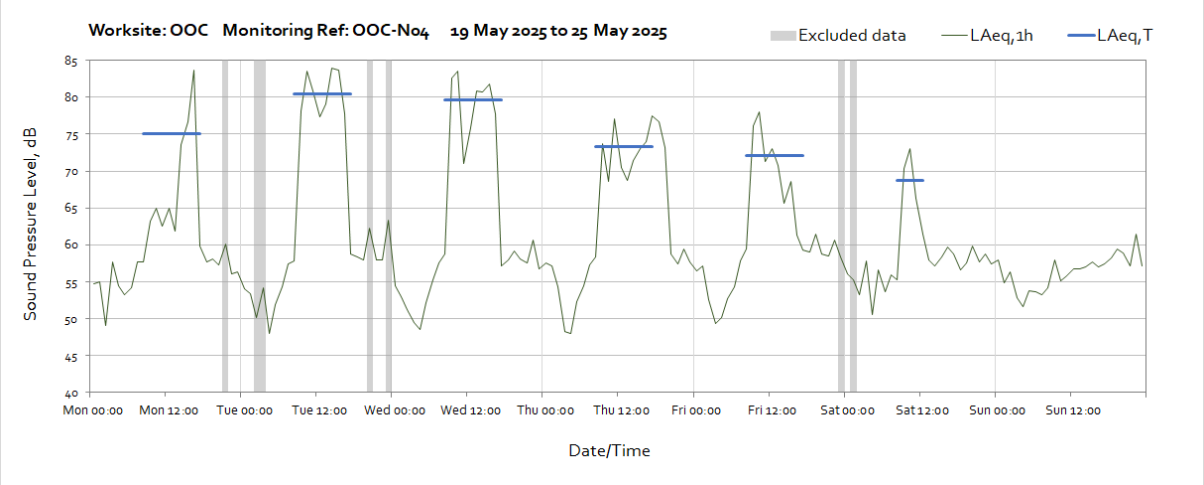
Date/Time


Worksite: OOC Monitoring Ref: OOC-No4 19 May 2025 to 25 May 2025
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LAeq,T
Sound Pressure Level, dB
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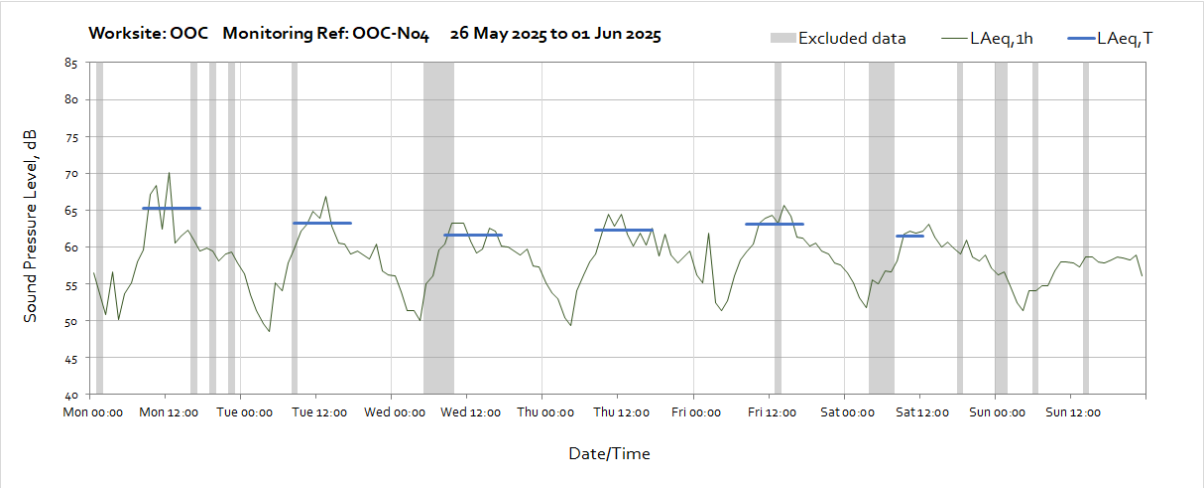
Date/Time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Excluded data
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LAeq,T
Sound Pressure Level, dB
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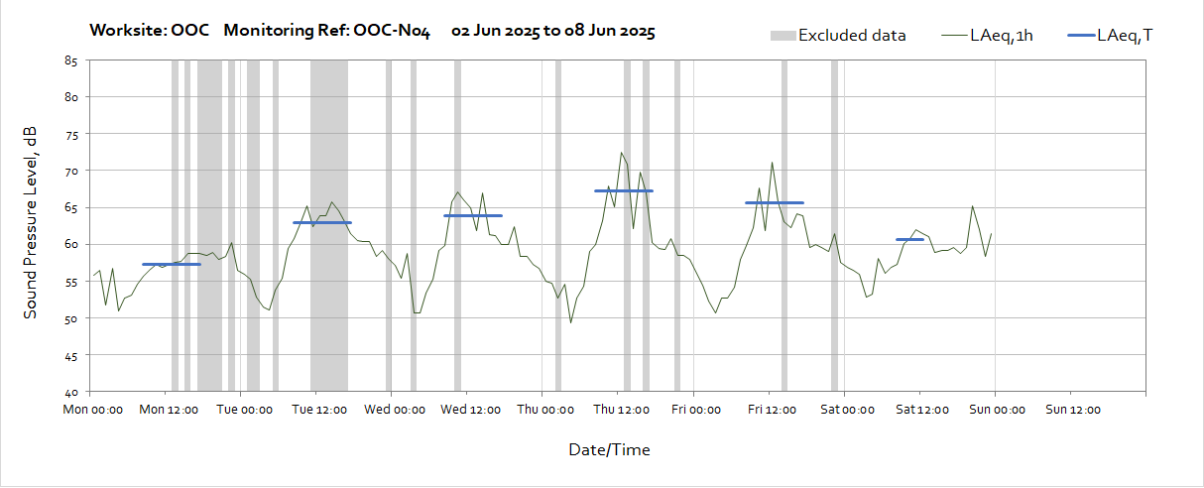
Date/Time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Excluded data
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LAeq,T
Sound Pressure Level, dB
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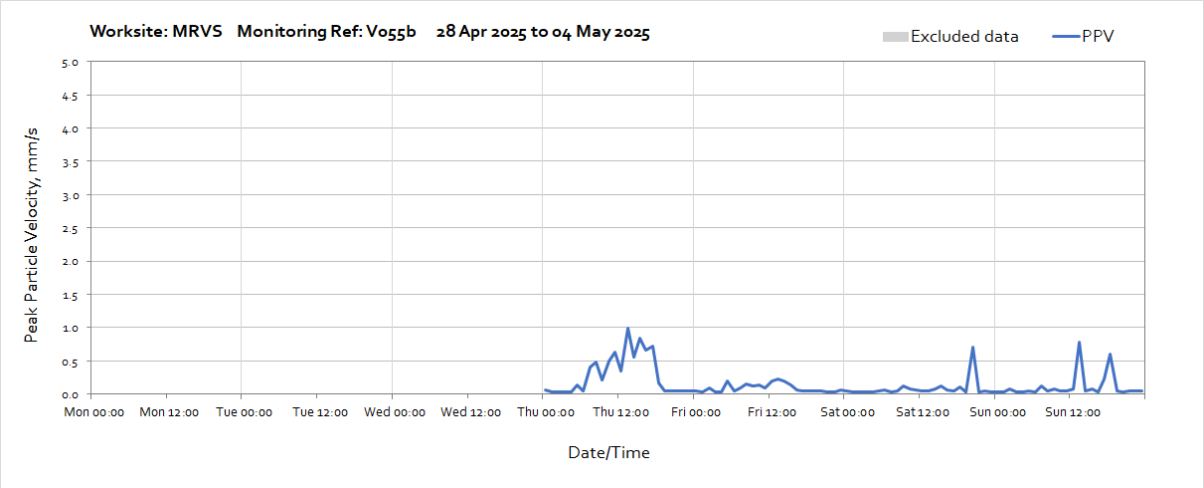
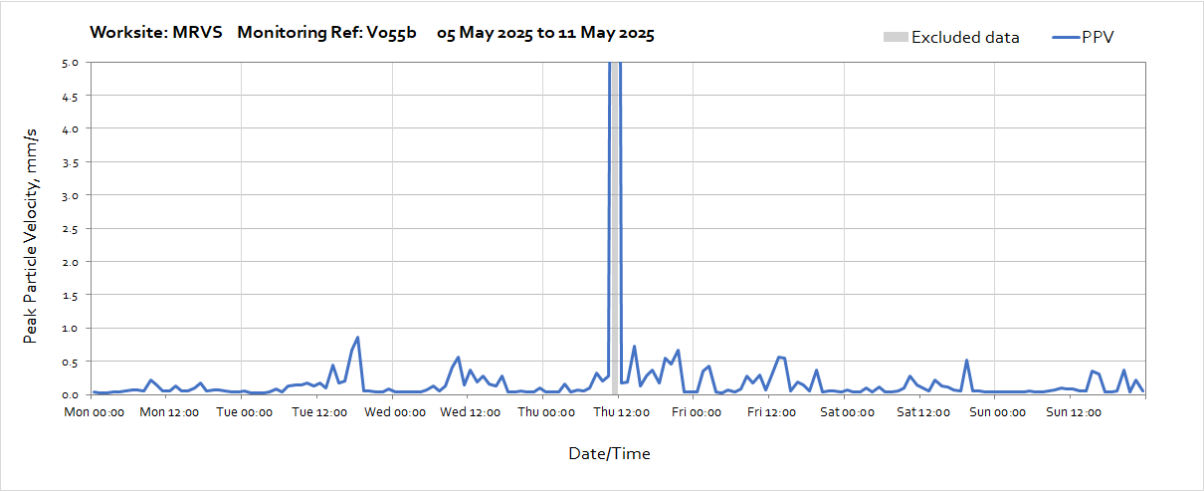
Date/Time

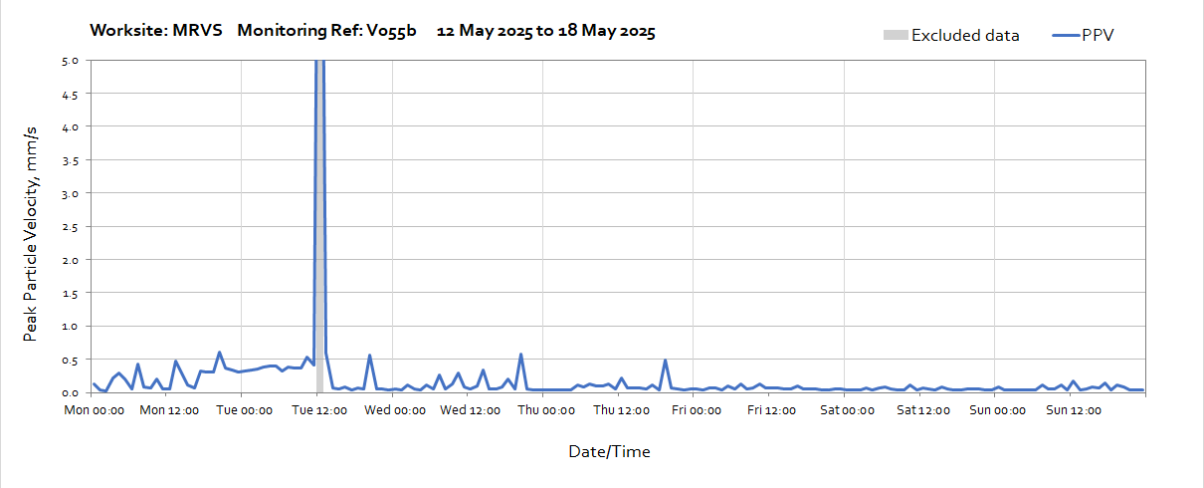
Vibration

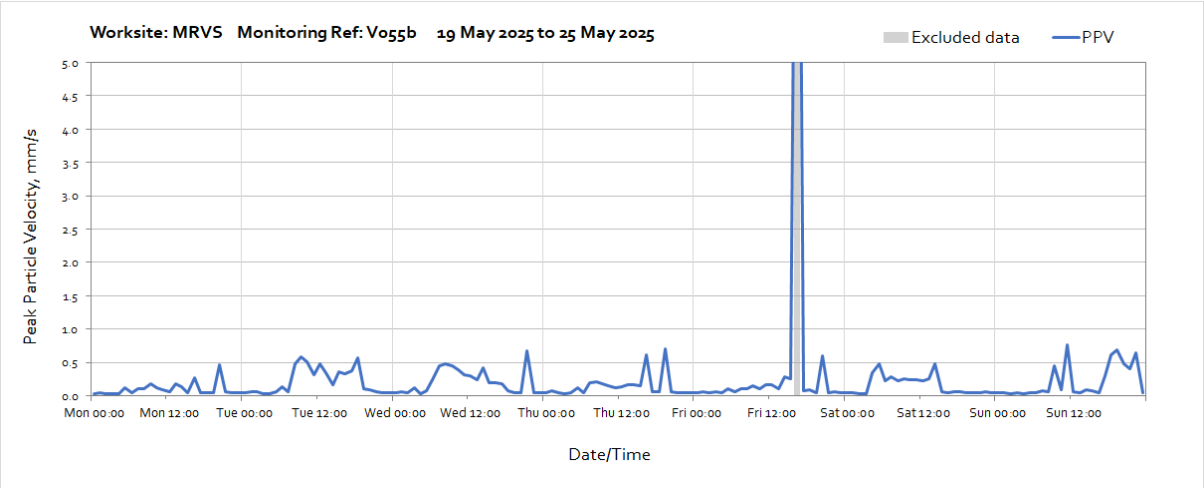
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axis x, y and z. Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part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

Worksite: MRVS – Monitoring Ref: V055b






Worksite: MRVS Monitoring Ref: V055b 12 May 2025 to 18 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: V055b 19 May 2025 to 25 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
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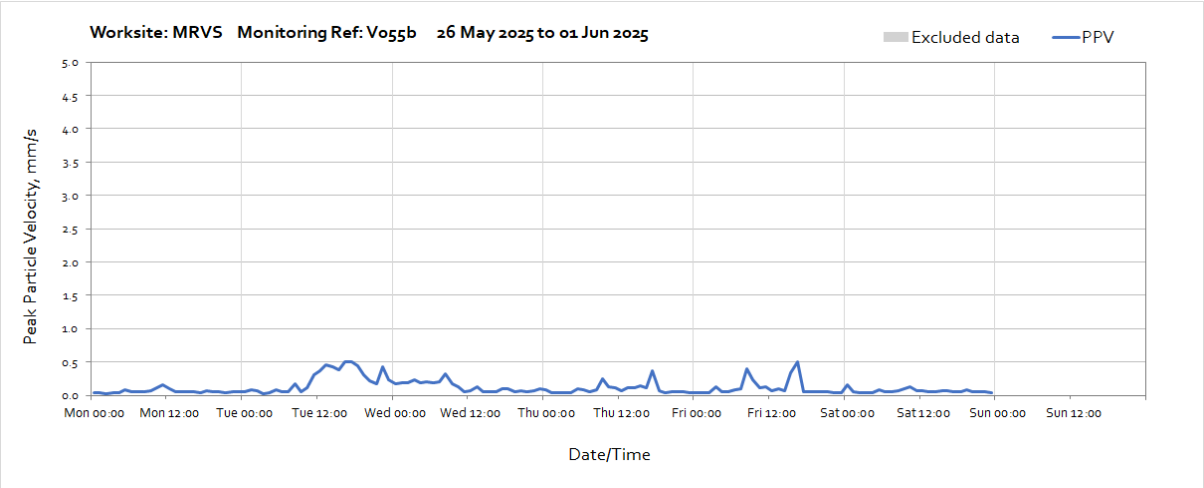
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: V055b 26 May 2025 to 01 Jun 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
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Sat 12:00
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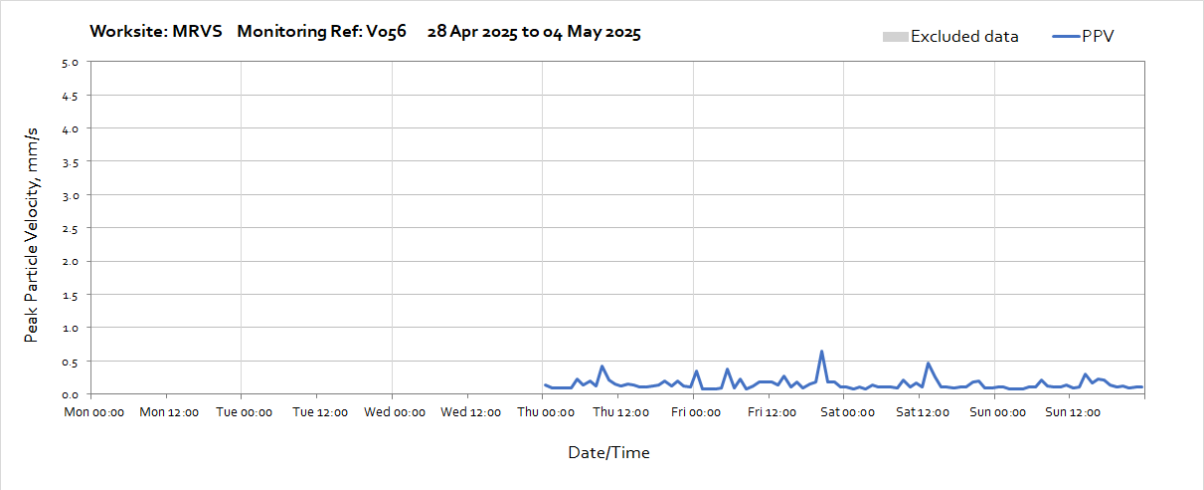
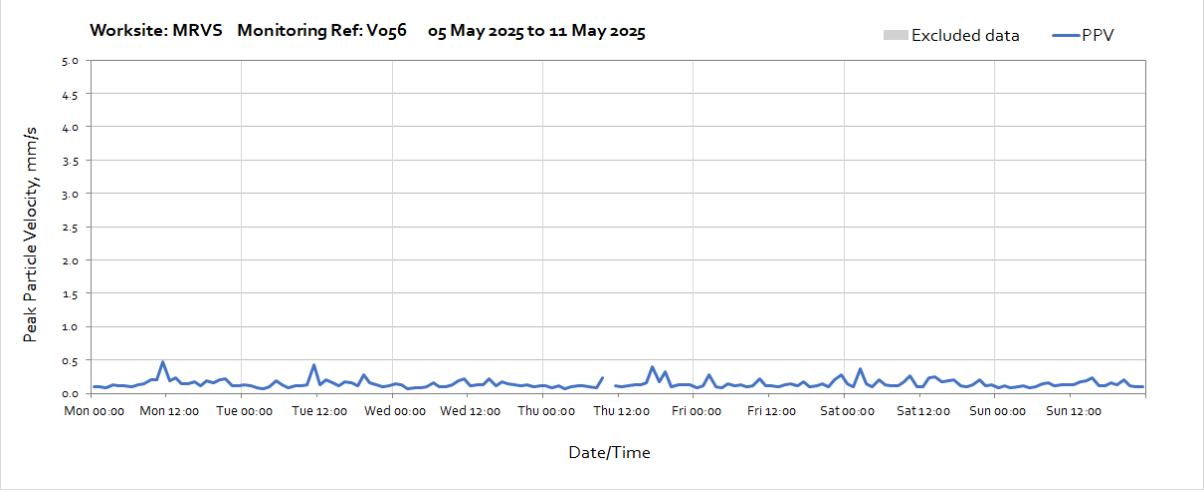
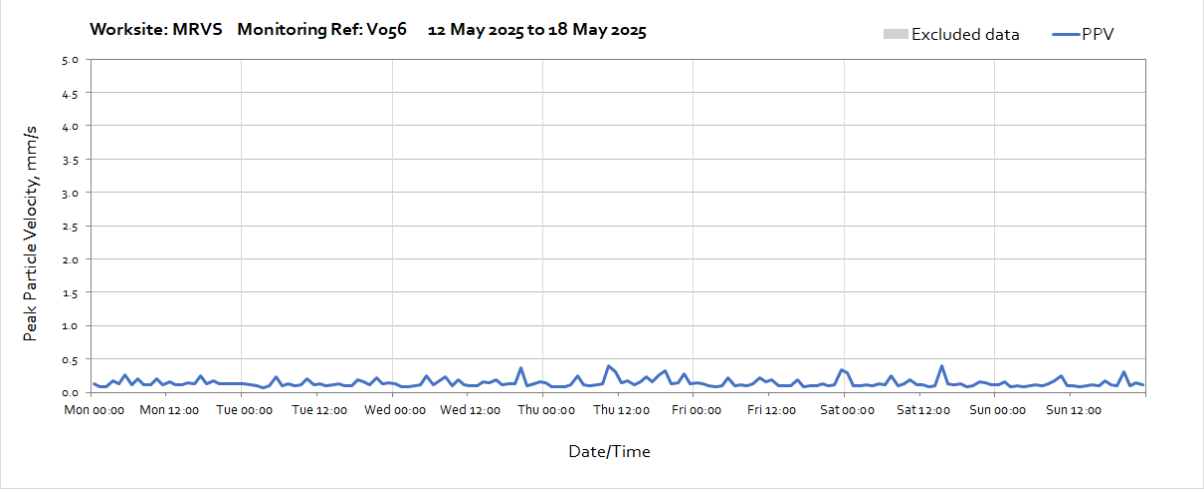
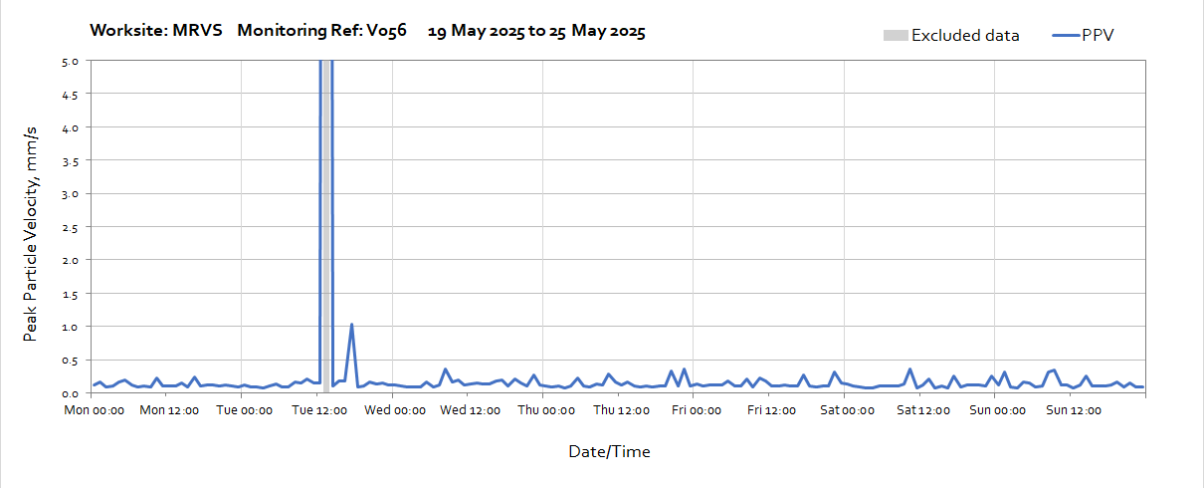
Sun 12:00
Date/Time

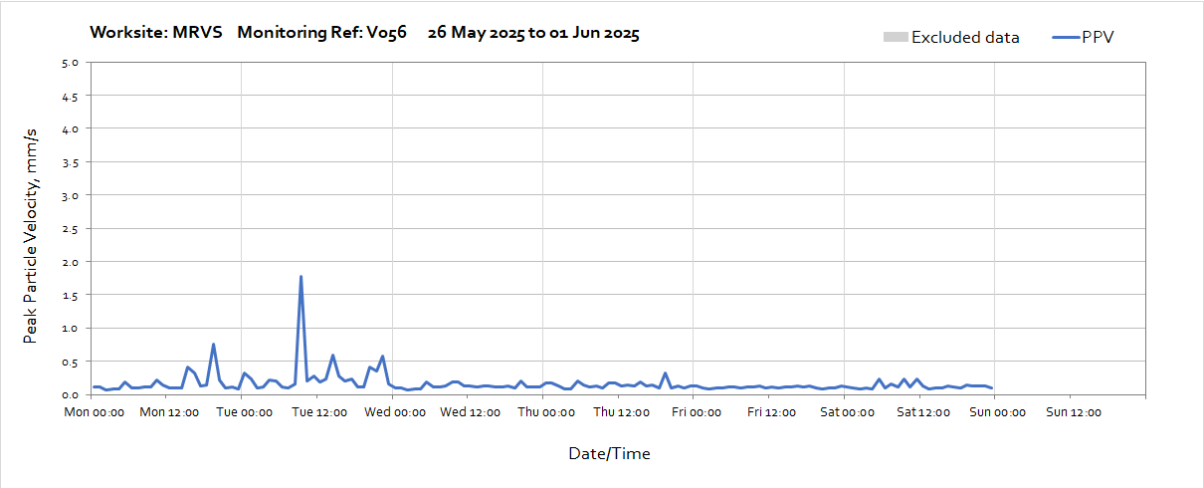
Worksite: MRVS – Monitoring Ref: V056



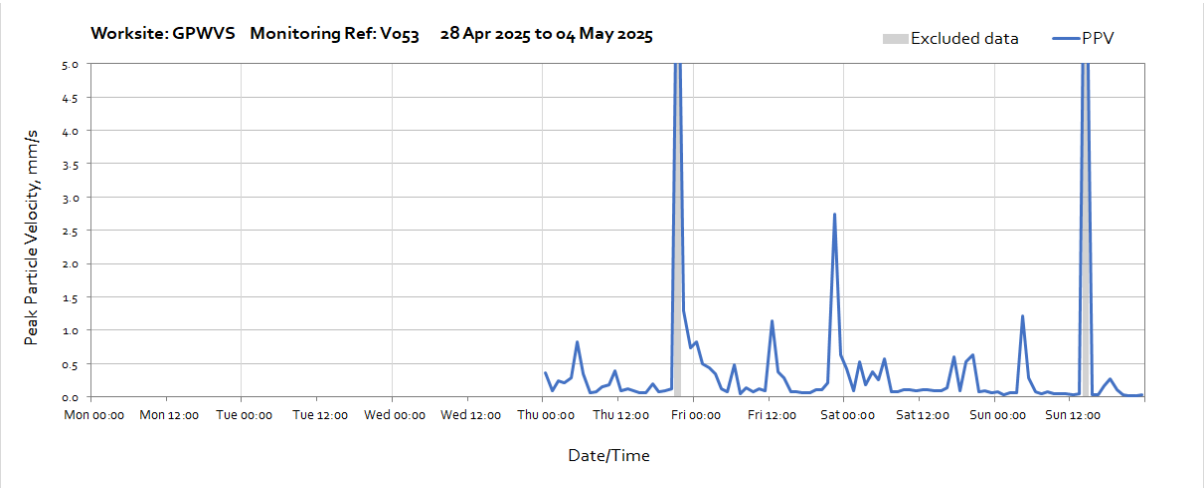


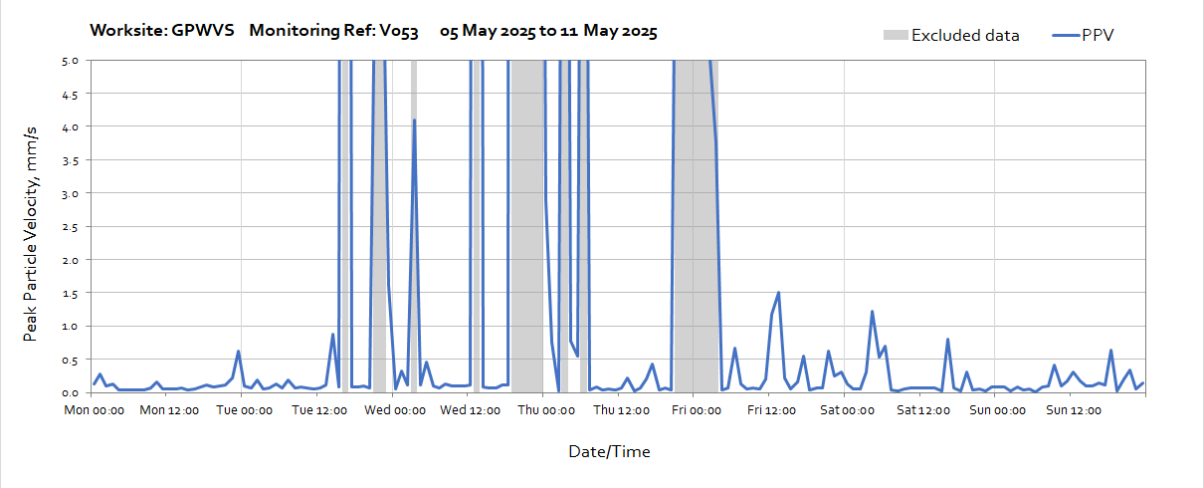






Worksite: GPWVS – Monitoring Ref: V053




Worksite: GPWVS Monitoring Ref: V053 05 May 2025 to 11 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
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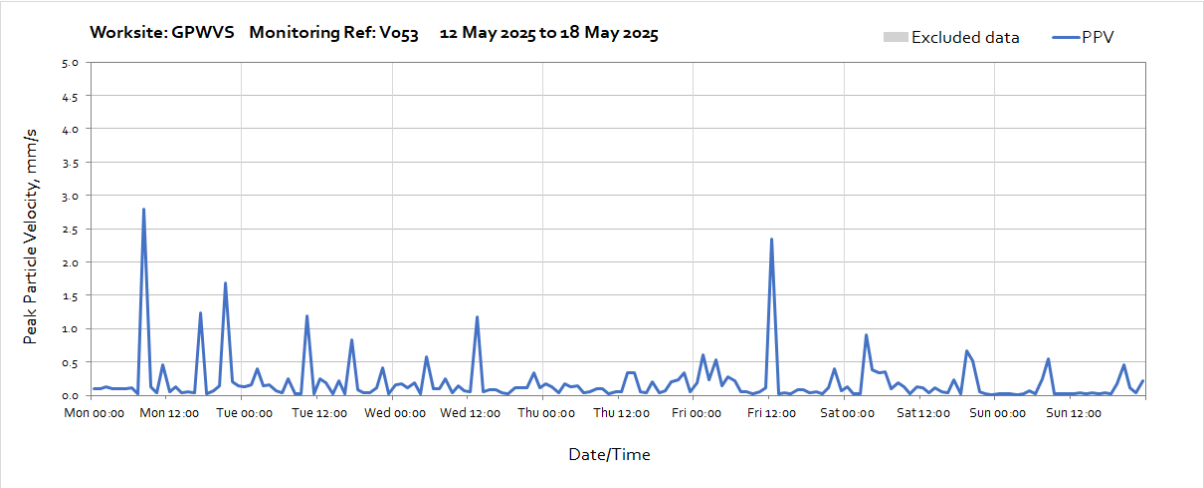
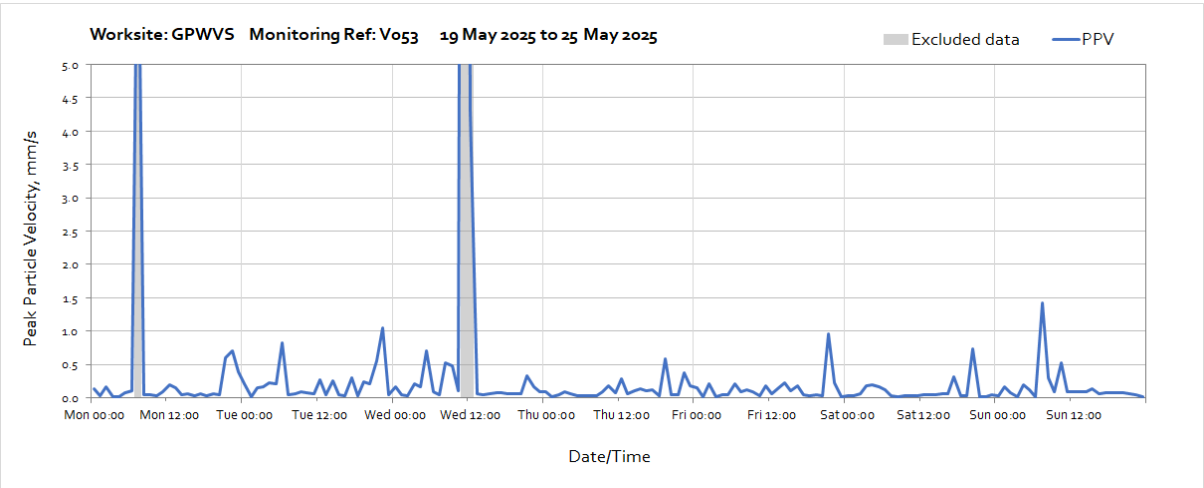
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: GPWVS Monitoring Ref: V053 12 May 2025 to 18 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: GPWVS Monitoring Ref: V053 19 May 2025 to 25 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
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4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
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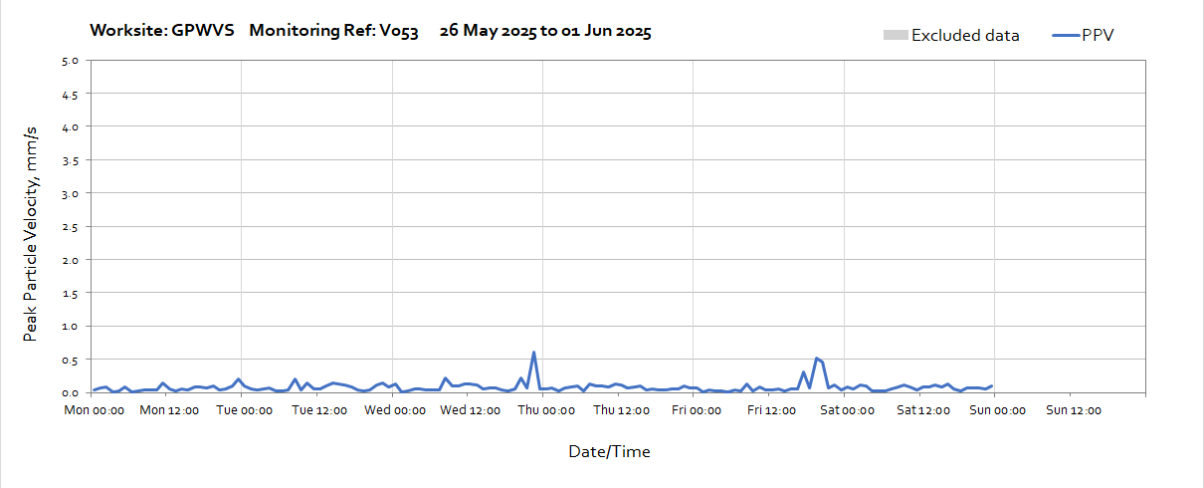
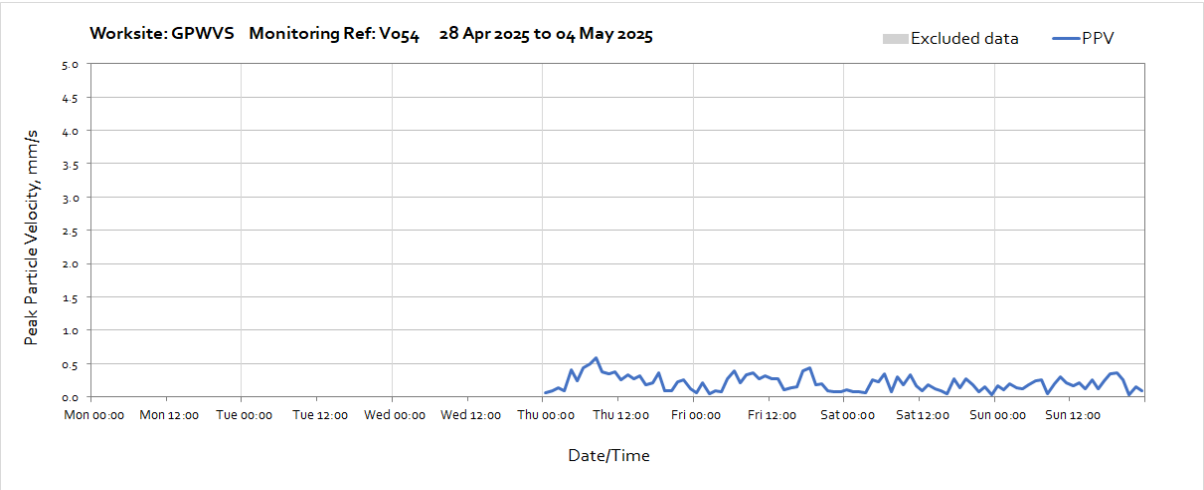
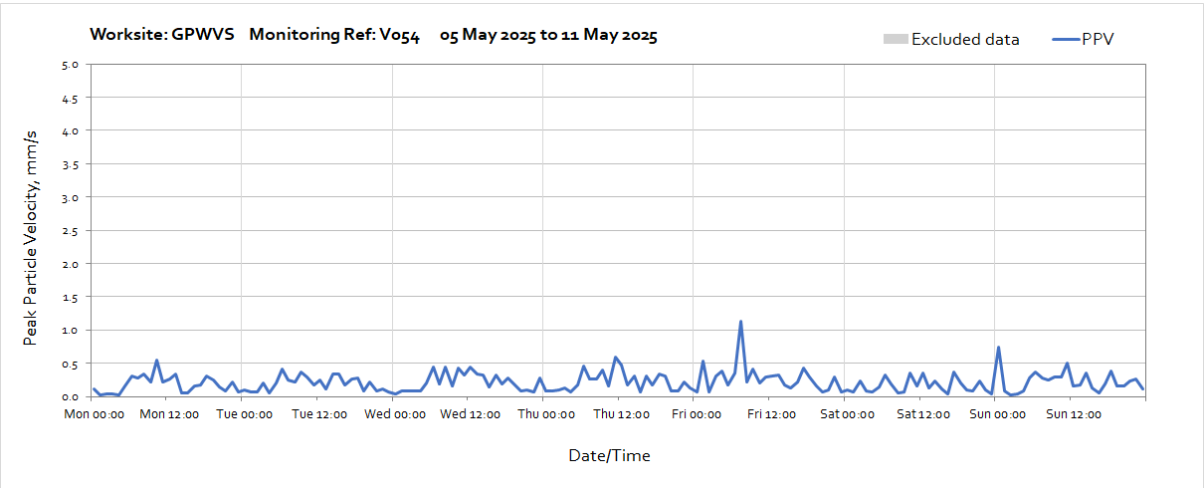
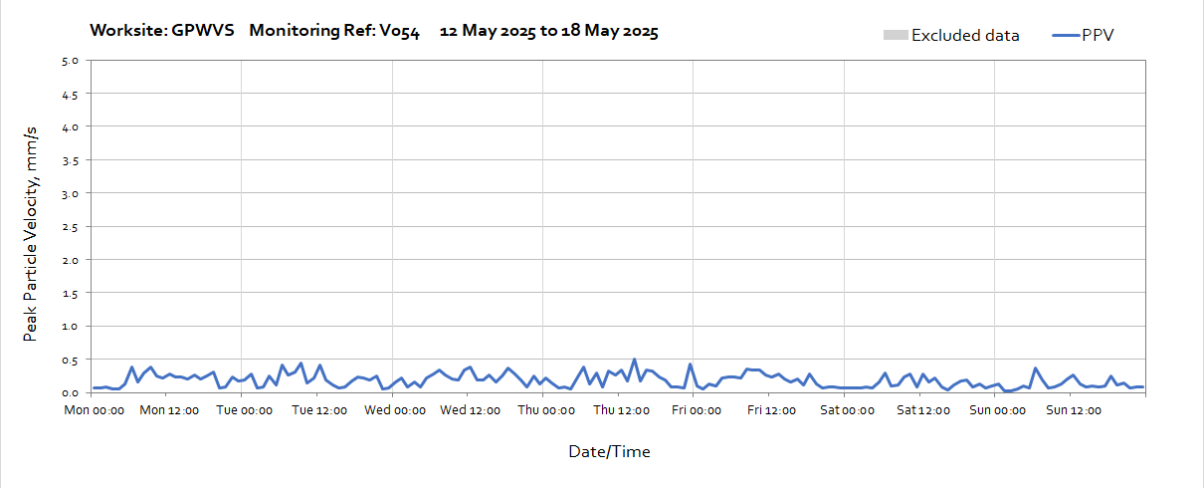
Sun 12:00
Date/Time



Worksite: GPWVS – Monitoring Ref: V054






Worksite: GPWVS Monitoring Ref: V054 12 May 2025 to 18 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
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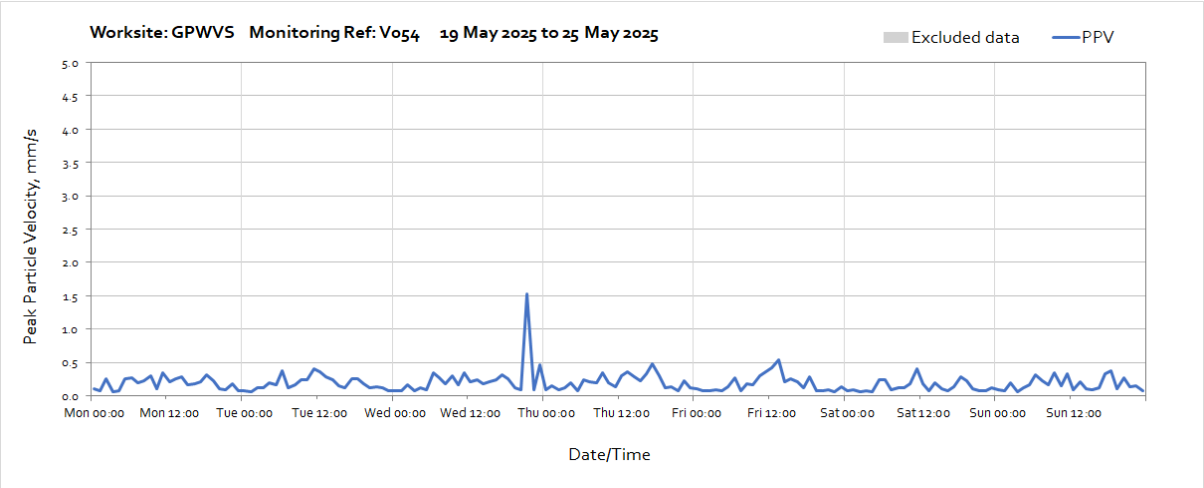
Sun 12:00
Date/Time


Worksite: GPWVS Monitoring Ref: V054 19 May 2025 to 25 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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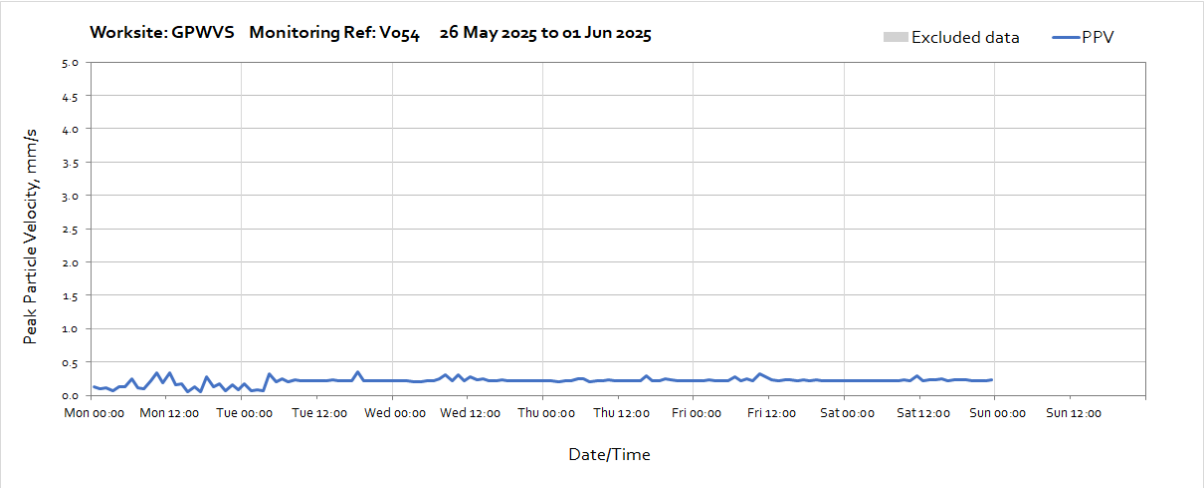
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: GPWVS Monitoring Ref: V054 26 May 2025 to 01 Jun 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
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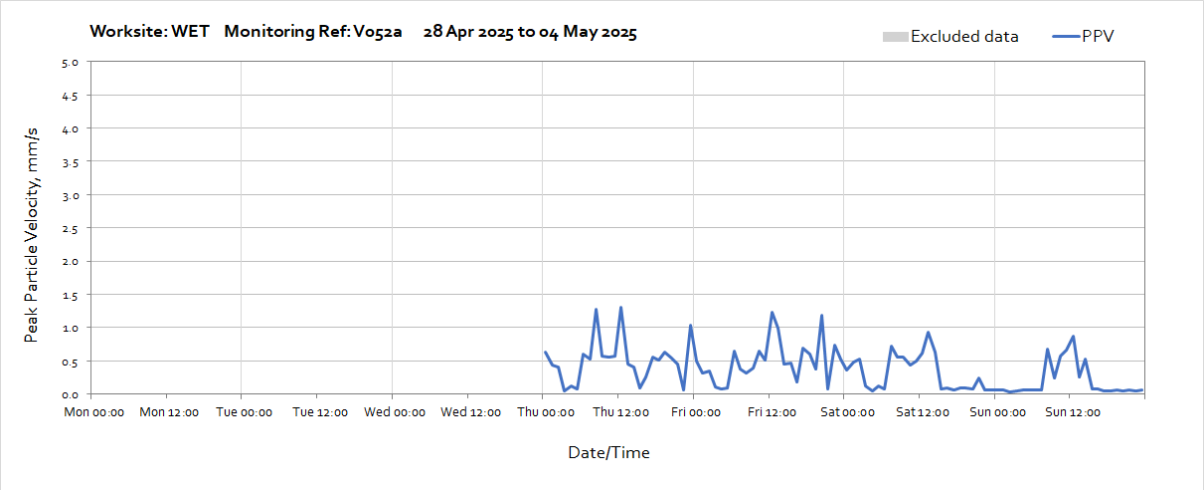
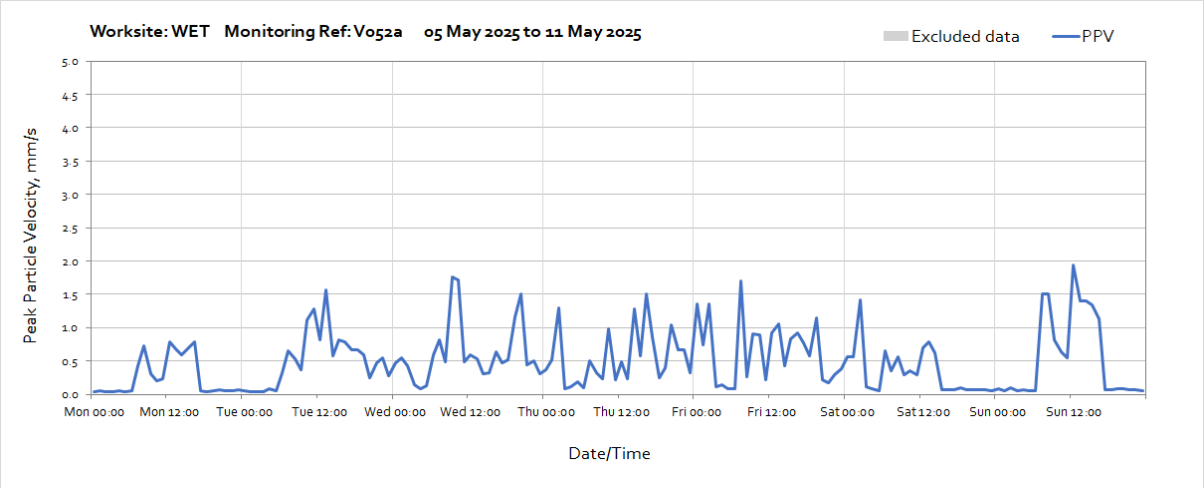
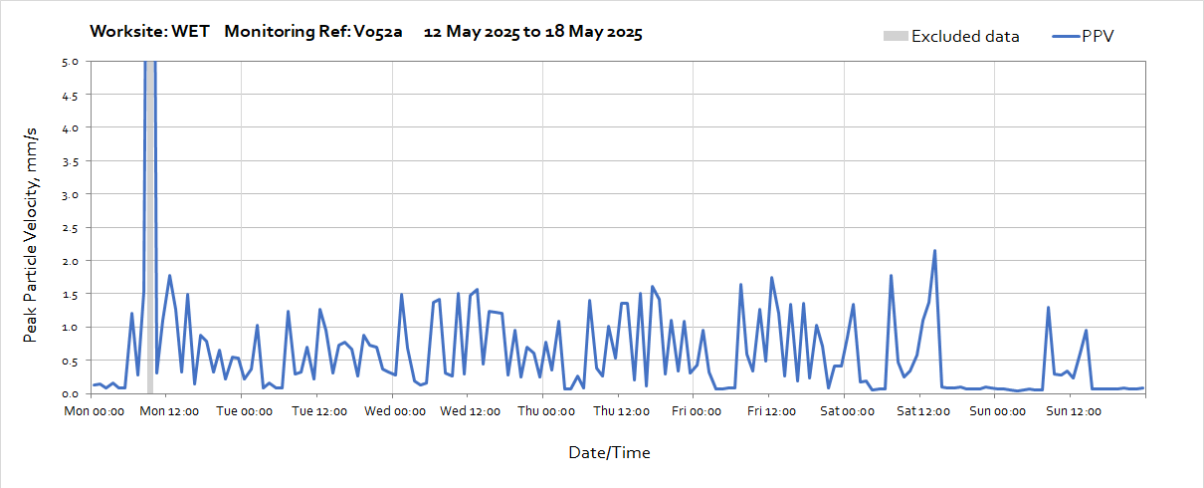
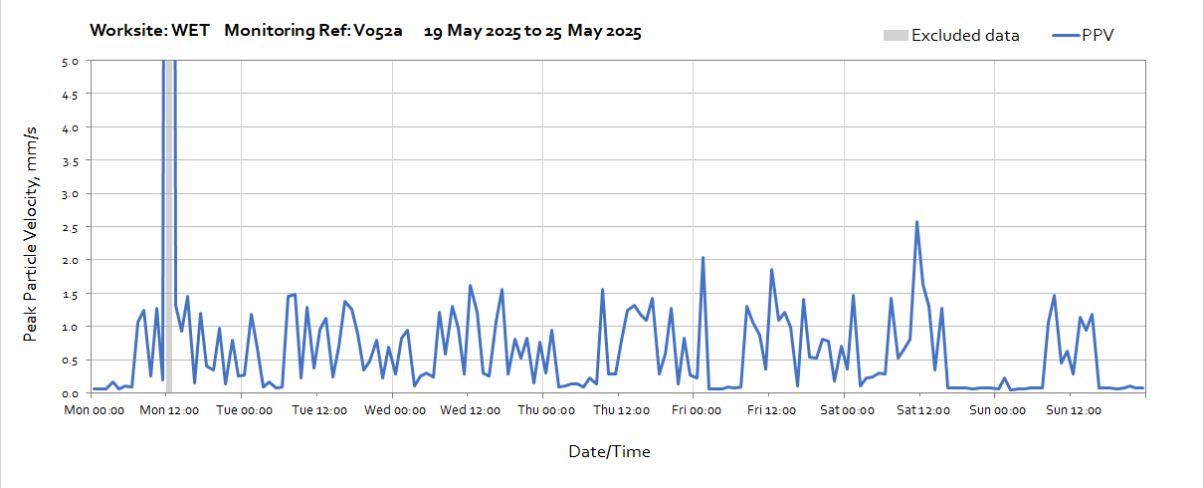
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

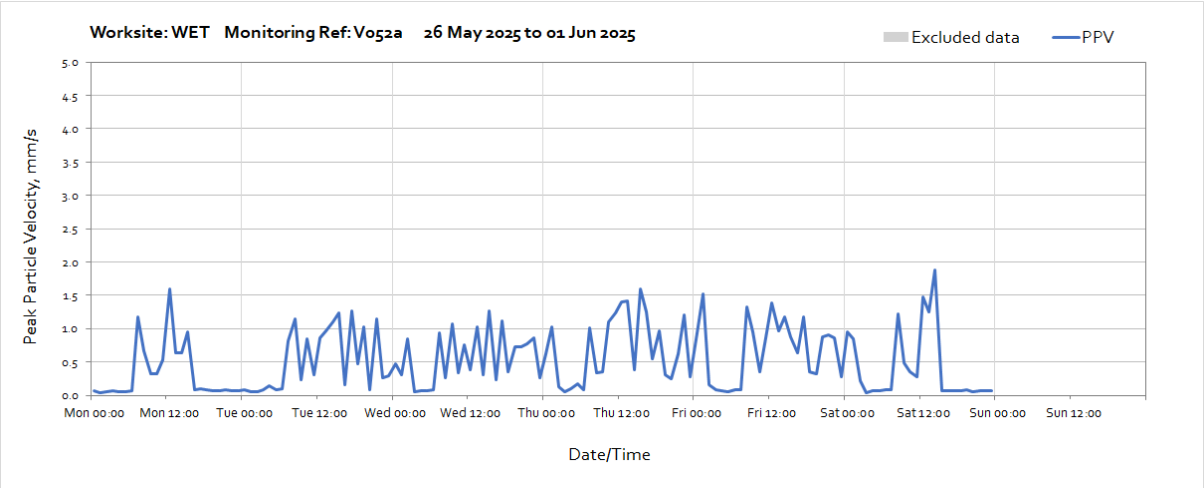
Worksite: WET – Monitoring Ref: V052a



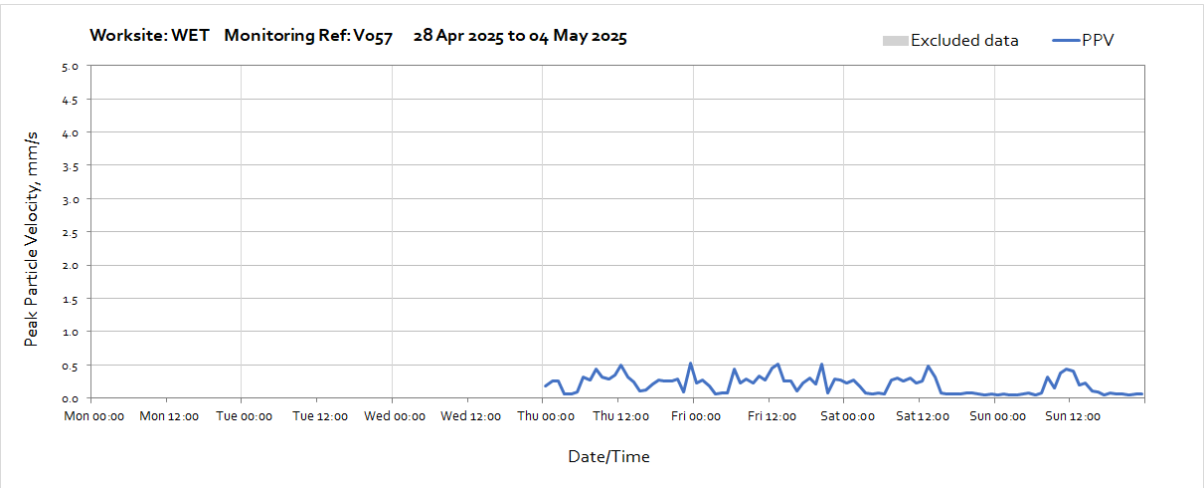


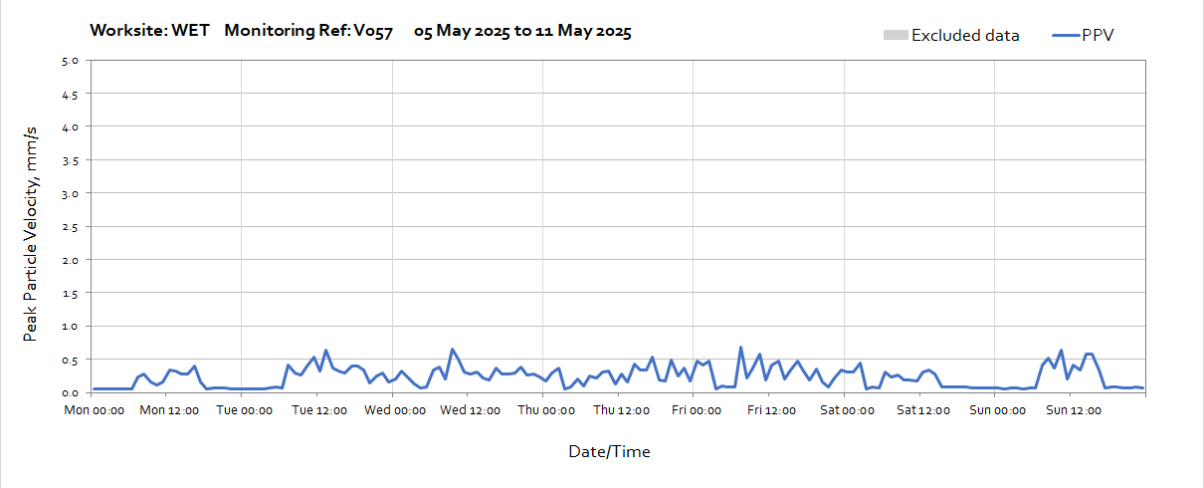






Worksite: WET – Monitoring Ref: V057




Worksite: WET Monitoring Ref: V057 05 May 2025 to 11 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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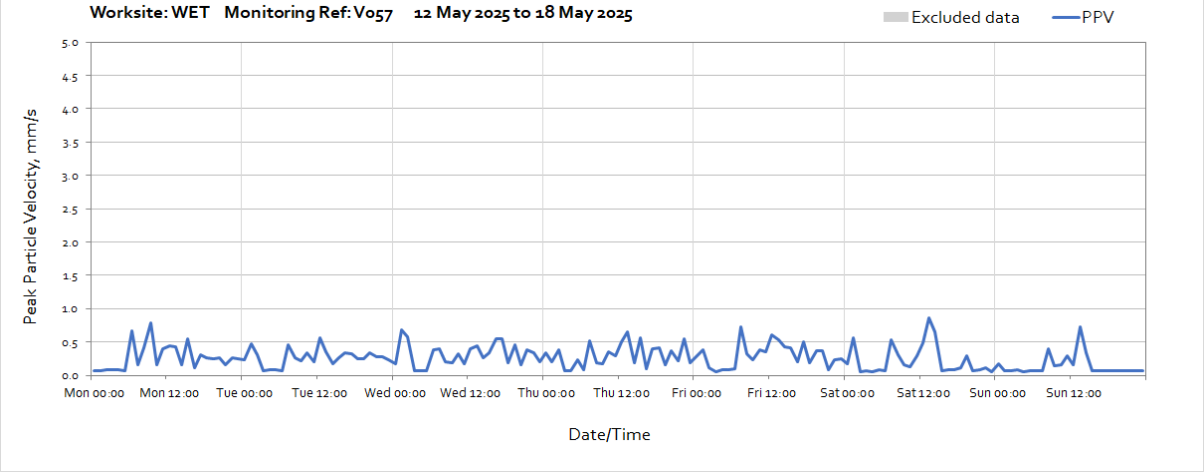
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: WET Monitoring Ref: V057 12 May 2025 to 18 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
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4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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Thu 12:00
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Fri 12:00
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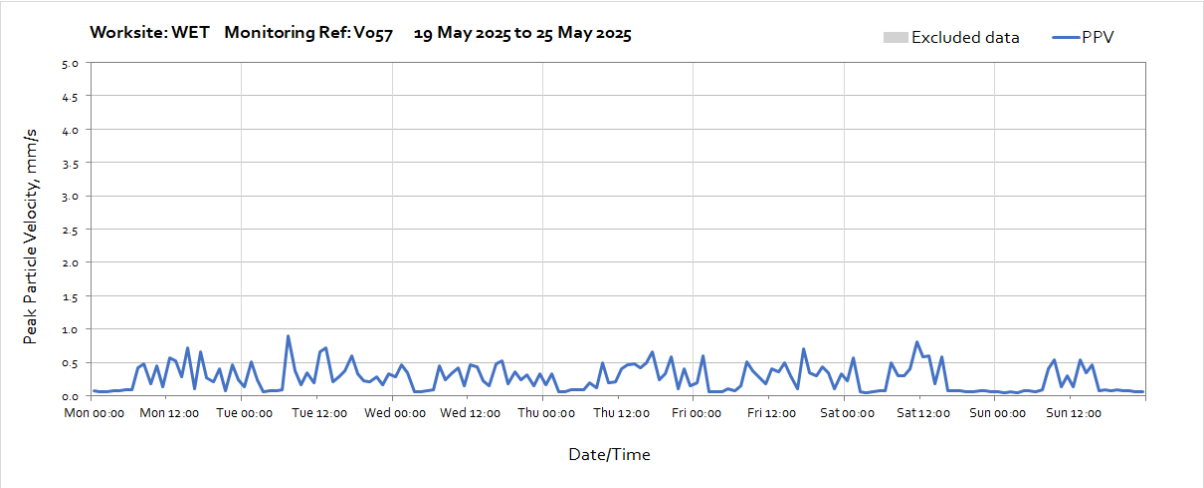
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: WET Monitoring Ref: V057 19 May 2025 to 25 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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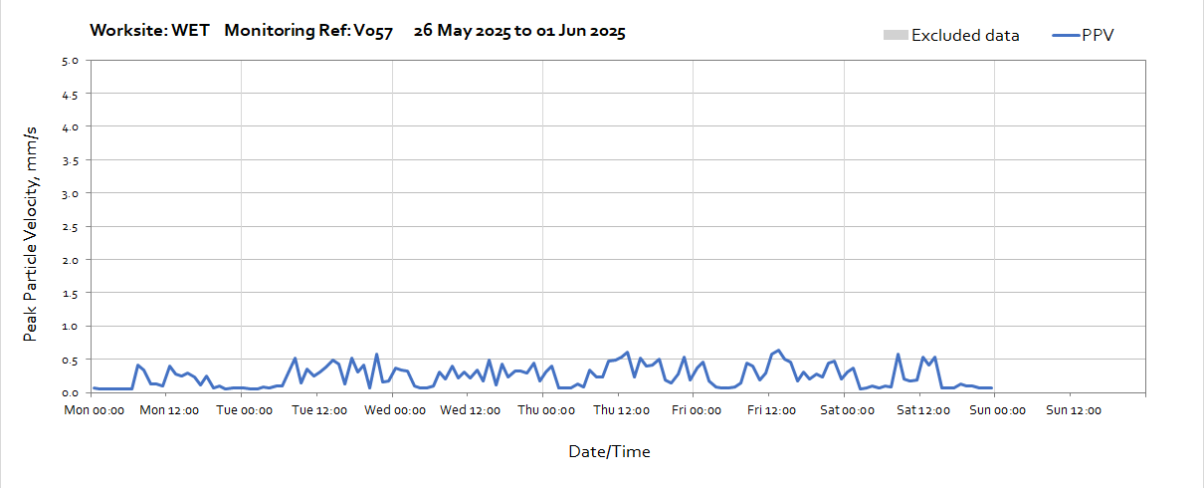
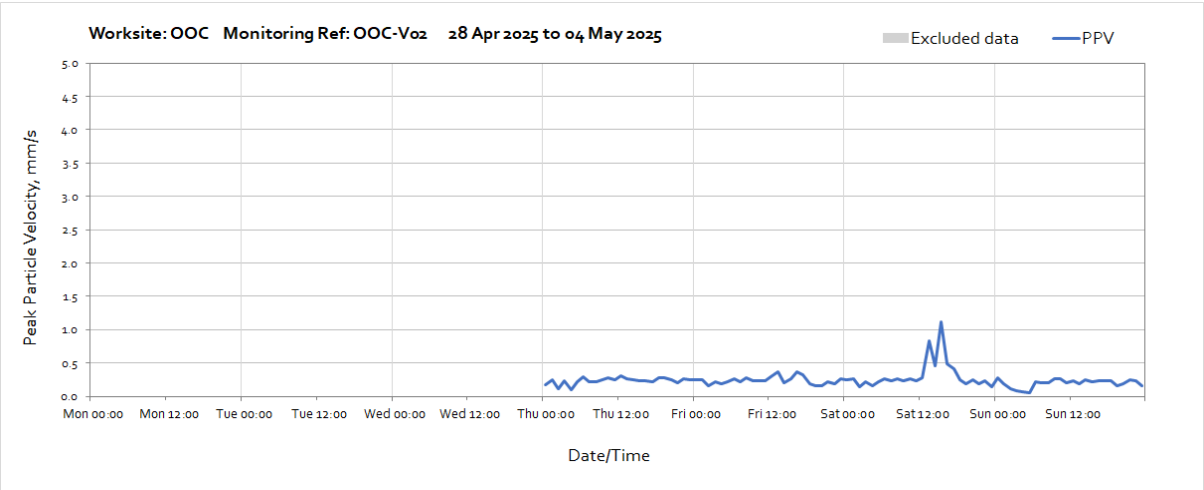
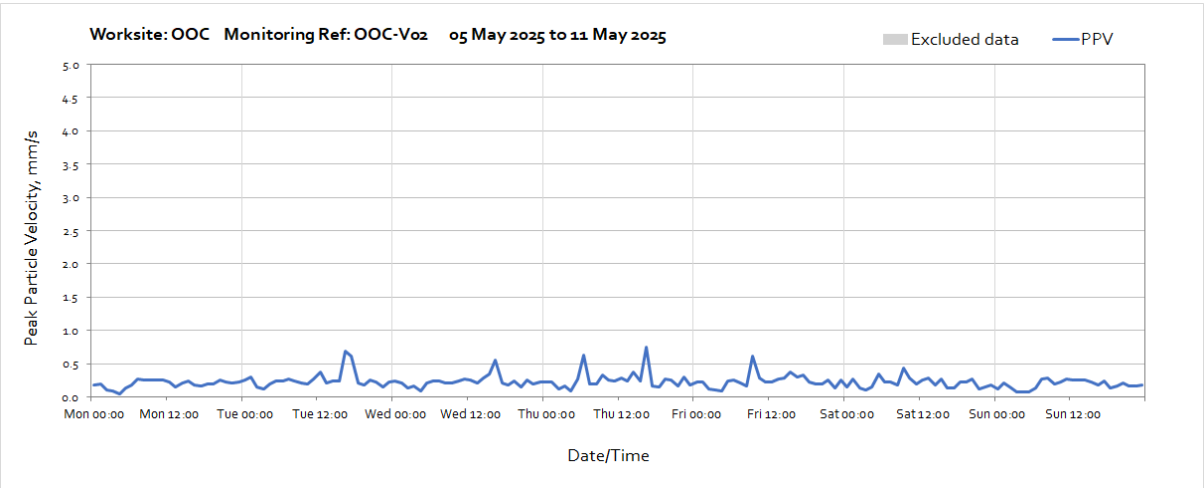
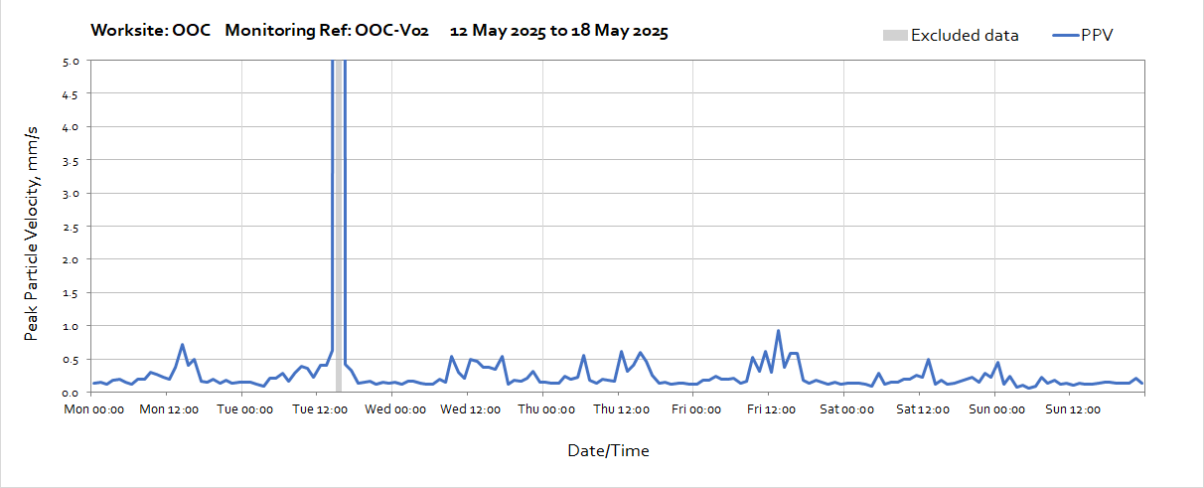
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time



Worksite: OOC – Monitoring Ref: OOC-V02






Worksite: OOC Monitoring Ref: OOC-V02 12 May 2025 to 18 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
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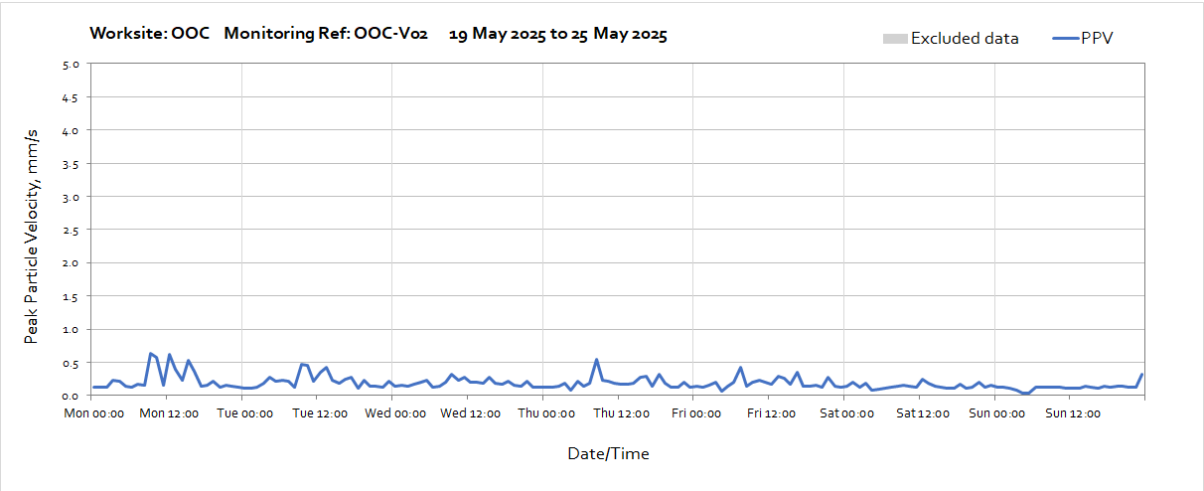
Sun 12:00
Date/Time


Worksite: OOC Monitoring Ref: OOC-V02 19 May 2025 to 25 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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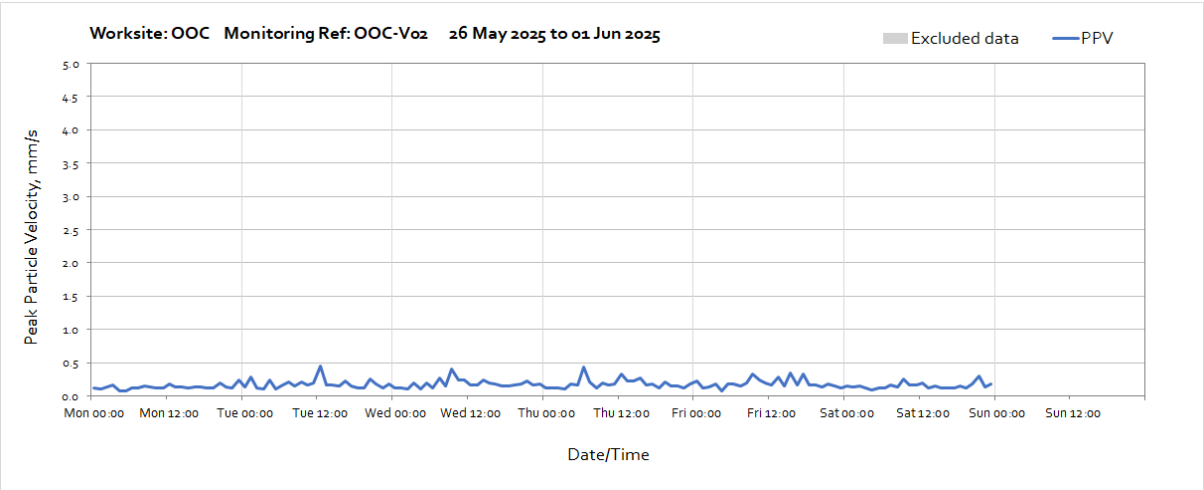
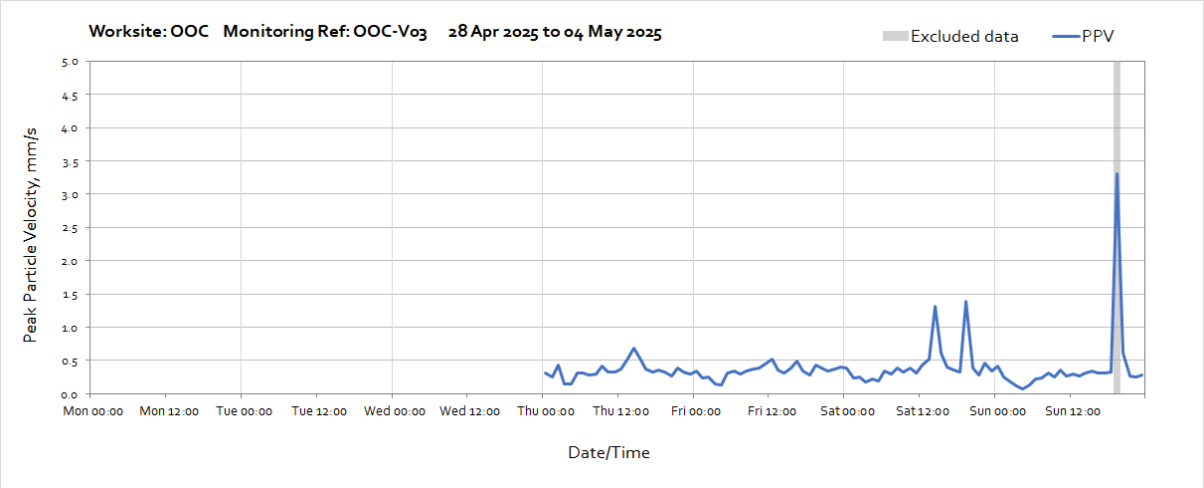
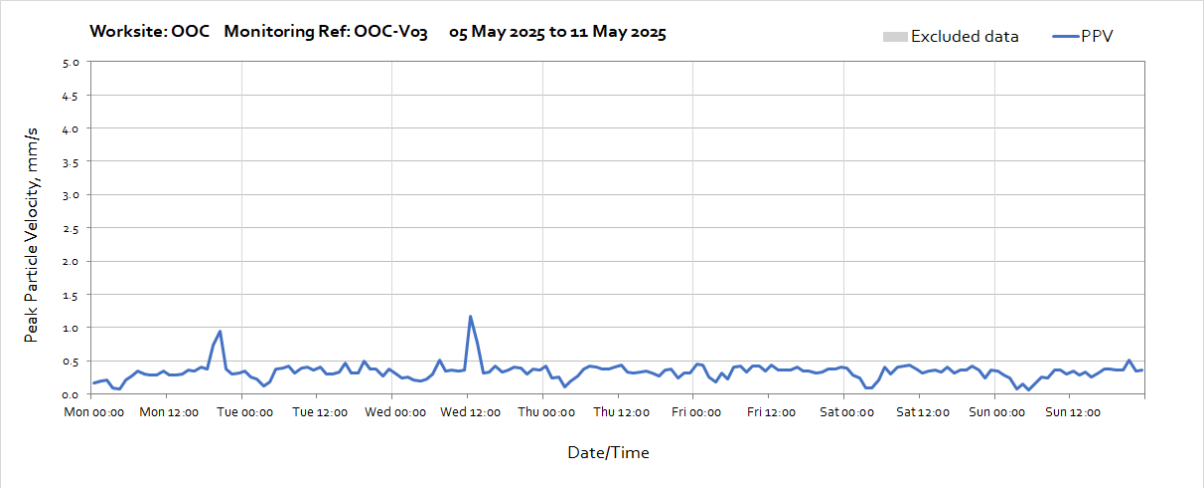
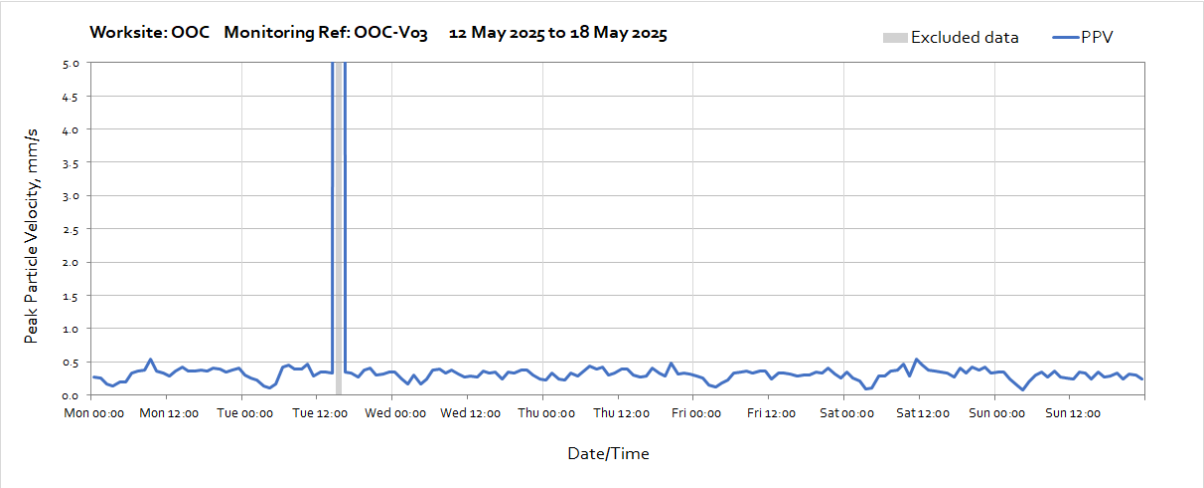
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

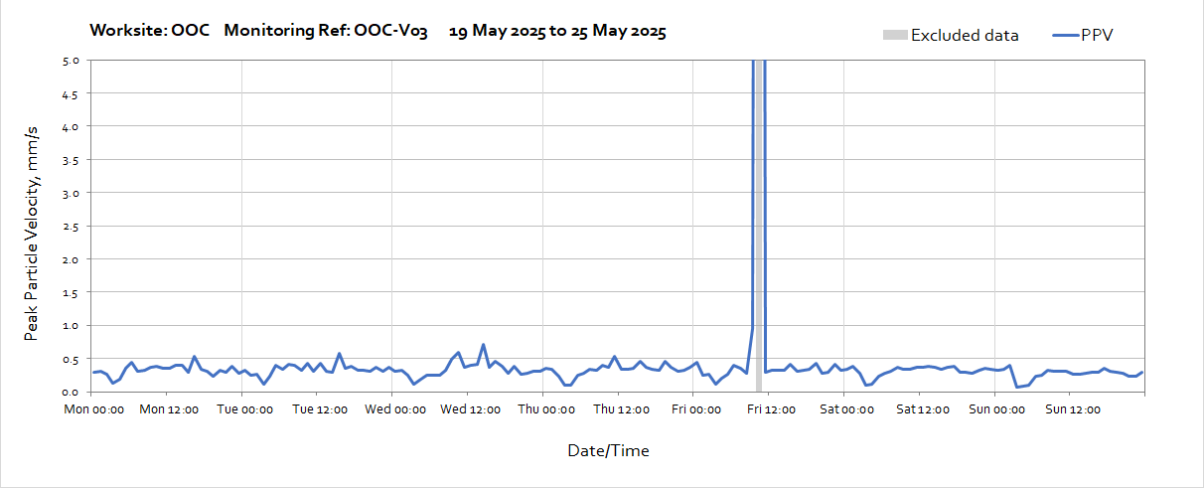

Worksite: OOC Monitoring Ref: OOC-V02 26 May 2025 to 01 Jun 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

Worksite: OOC – Monitoring Ref: OOC-V03








Worksite: OOC Monitoring Ref: OOC-V03 19 May 2025 to 25 May 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
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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
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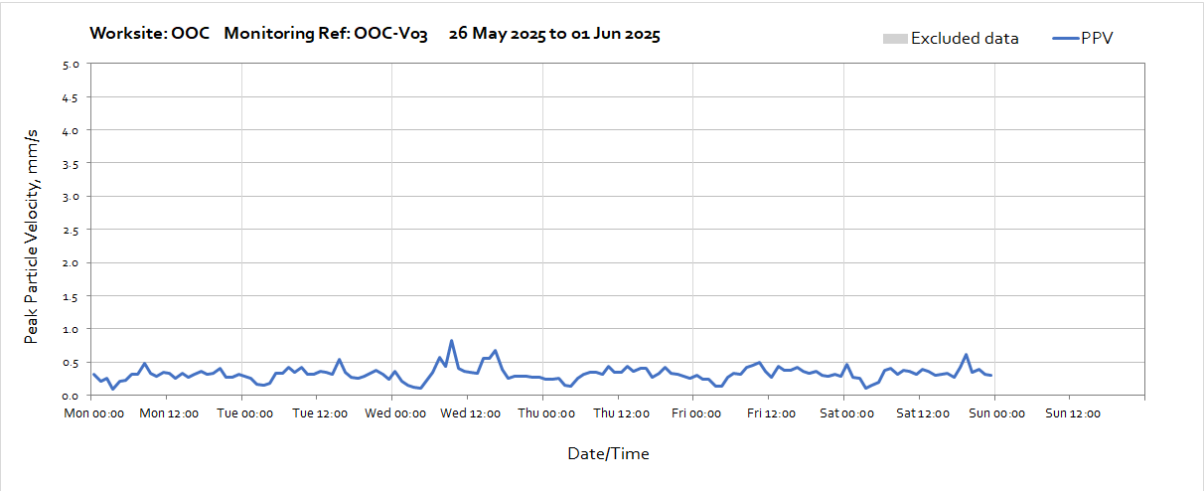
Sun 12:00
Date/Time


Worksite: OOC Monitoring Ref: OOC-V03 26 May 2025 to 01 Jun 2025
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time