

## **Construction noise and vibration Monthly Report – May 2026**

**London Borough of Hillingdon**

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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 London Borough of Hillingdon during the month of May 2026.

Within this period monitoring was undertaken at the following worksites:

- West Ruislip Portal worksite (ref.: WRP) where maintenance of the newly constructed wildlife habitat, hydroscabbling, formwork and reinforcement installation for headhouse and porous portal, removal of conveyor foundations, Ruislip golf course maintenance works, embankment reprofiling works, removal of tunnelling support structures, tunnel walkway construction, unloading of delivery and materials, and drainage installation for noise barrier works were underway.
- Northern Sustainable Placement Area worksite (Ref.: NSPA) where landscape maintenance and tree pit excavation works, surface water and borehole monitoring and hedgerow planting works were underway.
- Harvil Road worksite (Ref.: HR) where landscaping works, removal of TBM material stockpile, removal of conveyor foundations, movement of material works, construction of the Copthall Tunnel headhouse, earthworks, soil anchor testing, capping beam construction and L-wall installation, drainage and track bed installation works, construction of the Eastern Portal and installation of noise barriers were undertaken.
- Colne Valley Viaduct worksite (ref.: CVV) where soiling and seeding activities, landscaping, earthworks and road works were underway.
- South Ruislip Vent Shaft worksite (Ref.: SRVS) where general site activities, road sweeping, reinforced concrete works, concrete spraying, brickwork, steelworks and cladding for headhouse, digging and installing drainage chambers, UKPN connection works, cladding of autotransformer building and western boundary hoarding works were underway.
- Breakspear Road South (Ref.: BR) where maintenance of siltbuster and attenuation pond, construction of the flood compensation area, excavation for drainage installation works, vegetation removal and Installation of noise barriers were underway.

There were no exceedances of the HS2 threshold levels for significant noise impacts during the reporting period at any monitoring position.

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

No complaints were received during the monitoring period.

# Abbreviations and Descriptions

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

Table 1: Table of Abbreviations

| Acronym/Term                                                      | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L <sub>Aeq,T</sub>                                                | 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 <sub>pAeq,T</sub>                                                                                                                                                                                                                                                                                                                    |
| 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 <sub>Aeq,T</sub> | 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 +2.5 to +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 $\text{m/s}^{1.75}$ . |

# 1 Introduction

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

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

Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the London Borough of Hillingdon (LBH) area for the period 1-31 May 2026.

1.1.2 Active construction sites in the local authority area during this period include:

- South Ruislip Vent Shaft worksite ref.: SRVS (See plan 4 in Appendix A), where work activities included:
  - General site management including site security
  - Road sweeping
  - Reinforced concrete works in shafts
  - Concrete spraying, brickwork, steelworks and cladding for headhouse
  - Digging and installing chambers for drainage
  - UKPN connection works on Old Dairy Lane
  - Cladding of autotransformer building
  - Western boundary works
  - Southern boundary hoarding removal works and wall construction
- West Ruislip Portal worksite, ref.: WRP (See plan 2 in Appendix A), where work activities included:
  - Maintenance of newly constructed wildlife habitat
  - Hydroscabbling
  - Formwork and reinforcement installation and concrete placing for headhouse and porous portal construction
  - Removal of conveyor foundations
  - Ruislip Golf Course maintenance works, including vegetation clearance and tree pruning
  - Embankment reprofiling works, including excavation and material removal
  - Removal of tunnelling support structures
  - Tunnel walkway construction
  - Unloading of delivery and materials for formworks and reinforced concrete activities
  - Drainage installation for noise barriers

- Breakspear Road South ref.: BR (See plan 2 in Appendix A), where work activities included:
  - Maintenance of siltbuster and attenuation pond
  - Construction of the flood compensation area
  - Excavation for installation of drainage
  - Vegetation removal at the River Pinn
  - Installation of noise barriers
- Harvil Road worksite ref.: HR (See plan 2 in Appendix A), where work activities included:
  - Landscaping maintenance including hedgerow maintenance
  - Fencing works
  - Removal of TBM material stockpile
  - Removal of conveyor foundations
  - Movement of material in preparation for reinstatement of the flood response gate area, including concrete breaking.
  - Construction of the Copthall Tunnel headhouse, including installation of utility chambers, steel work, drainage connections and fire tank waterproofing
  - Earthworks, including backfilling of the tunnel
  - Soil anchor testing
  - Capping beam construction and L-wall installation
  - Construction of track bed and drainage
  - Construction of Chiltern link
  - Construction of the Eastern Portal, including maintenance of walkways
  - Installation of noise barriers.
- Northern Sustainable Placement Area worksite ref.: NSPA (See plan 3 in Appendix A), where work activities included:
  - Landscaping maintenance and tree pit excavation works
  - Surface water and borehole monitoring
  - Hedgerow planting.
- Colne Valley Viaduct worksite ref.: CVV (See plan 1 in Appendix A), where work activities included:
  - Soiling and seeding
  - Landscaping
  - Earthworks
  - Road works

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

## 1.2 Measurement Locations

1.2.1 15 noise and 3 vibration monitoring installations were active in May in the London Borough of Hillingdon area. Tables 2a and 2b summarise the position of noise and vibration monitoring installations within the London Borough of Hillingdon area in May 2026.

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

Table 2a: Noise Monitoring Locations

| Worksite Reference | Measurement Reference | Address                                                       |
|--------------------|-----------------------|---------------------------------------------------------------|
| CVV                | DLC-NMP               | Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge           |
|                    | HFM-NMP               | Harefield Marina, Moorhall Road, London Borough of Hillingdon |
| BR                 | HC-N002               | Hoylake Crescent, Ickenham, Uxbridge                          |
|                    | N065                  | Breakspear Road South, Harefield, Uxbridge                    |
| WRP                | N048                  | Ruislip Golf Course, Ickenham Rd, Ruislip                     |
|                    | N056                  | 83 The Greenway, Ickenham, Ruislip                            |
|                    | N057                  | 123 The Greenway, Ickenham, Ruislip                           |
|                    | TKL-N001              | Tile Kiln Lane, Harefield, Uxbridge                           |
|                    | WRP-N001              | Ruislip Golf Course, Ickenham Rd, Ruislip                     |
| SRVS               | N061                  | Cineworld South Ruislip car park, Ruislip                     |
|                    | TCA-N001              | Trenchard Avenue, Ruislip                                     |
| HR                 | N067                  | Harvil Road worksite south boundary                           |
|                    | SSPA-N001             | SSPA Eastern boundary                                         |
|                    | DGT-N001              | Dogs Trust, Newyears Green Lane                               |
| NSPA               | NSPA-N001a            | Newyears Green Lane                                           |

Table 2b: Vibration Monitoring Locations

| Worksite Reference | Measurement Reference | Address                              |
|--------------------|-----------------------|--------------------------------------|
| WRP                | GW-V001               | 95 The Greenway, Ickenham, Uxbridge  |
| BR                 | HC-V002               | Hoylake Crescent, Ickenham, Uxbridge |
| SRVS               | SRVS-V001a            | Braintree Road Industrial Estate     |



## 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 LAeq,T is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period LAeq,T that was found to occur within the month.

Table 3: Summary of Measured dB LAeq Data over the Monitoring Period

| Worksite Reference. | Measurement Reference | Site Address                                                  | Free-Field or Façade Measurement | Weekday Average LAeq,T (Highest Day LAeq,T) |                |                |                |                | Saturday Average LAeq,T (Highest Day LAeq,T) |                |                |                |                | Sunday / Public Holiday LAeq,T (Highest Day LAeq,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    |
| CVV                 | DLC-NMP               | Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge           | Façade                           | 54.3<br>(57.4)                              | 62.1<br>(65.4) | 56.4<br>(62.9) | 52.7<br>(58.5) | 48.0<br>(56.3) | 53.5<br>(57.8)                               | 52.9<br>(56.8) | 51.0<br>(52.9) | 49.8<br>(53.6) | 46.4<br>(54.4) | 53.5<br>(62.8)                                      | 47.3<br>(54.6) |
|                     | HFM-NMP               | Harefield Marina, Moorhall Road, London Borough of Hillingdon | Free field                       | 50.3<br>(53.1)                              | 50.5<br>(55.2) | 49.0<br>(52.8) | 47.1<br>(49.8) | 44.5<br>(51.9) | 50.1<br>(52.8)                               | 49.9<br>(54.2) | 45.7<br>(47.4) | 48.4<br>(52.6) | 44.4<br>(51.3) | 47.8<br>(53.1)                                      | 45.0<br>(52.5) |
| WRP                 | N048                  | The Fairway Pub                                               | Free field                       | 57.0<br>(59.2)                              | 58.2<br>(60.7) | 52.8<br>(56.3) | 52.0<br>(58.9) | 50.5<br>(57.6) | 54.0<br>(55.8)                               | 56.4<br>(65.1) | 56.5<br>(63.4) | 55.4<br>(70.0) | 49.1<br>(54.5) | 51.7<br>(60.0)                                      | 49.4<br>(55.6) |
|                     | N056                  | 83 The Greenway, Ickenham, Ruislip                            | Façade                           | 60.5<br>(61.0)                              | 59.9<br>(60.9) | 60.4<br>(62.4) | 58.9<br>(60.5) | 54.5<br>(60.4) | 58.7<br>(62.1)                               | 59.4<br>(60.4) | 59.2<br>(60.0) | 59.5<br>(60.9) | 52.0<br>(60.4) | 58.7<br>(61.8)                                      | 54.6<br>(59.8) |
|                     | N057                  | 123 The Greenway, Ickenham, Ruislip                           | Façade                           | 56.8<br>(58.0)                              | 56.0<br>(57.0) | 56.6<br>(59.4) | 55.1<br>(57.4) | 51.3<br>(61.3) | 55.1<br>(58.1)                               | 55.7<br>(56.2) | 55.0<br>(55.4) | 55.5<br>(57.1) | 48.6<br>(55.4) | 55.1<br>(65.0)                                      | 50.9<br>(56.3) |
|                     | TKL-N001              | Tile Kiln Lane, Harefield, Uxbridge                           | Free field                       | 51.1<br>(53.6)                              | 49.9<br>(52.5) | 48.6<br>(50.8) | 47.7<br>(52.7) | 47.2<br>(59.2) | 49.2<br>(50.6)                               | 49.3<br>(50.8) | 47.4<br>(48.7) | 47.3<br>(48.9) | 46.6<br>(54.3) | 47.7<br>(51.6)                                      | 46.2<br>(52.3) |
|                     | WRP-N001              | Ruislip Golf Course, Ickenham Rd, Ruislip                     | Free field                       | 48.8<br>(51.4)                              | 51.9<br>(73.2) | 47.2<br>(49.8) | 46.4<br>(50.5) | 45.4<br>(53.7) | 48.1<br>(49.2)                               | 48.5<br>(49.7) | 47.7<br>(48.7) | 46.1<br>(49.1) | 45.1<br>(50.7) | 46.6<br>(52.4)                                      | 44.3<br>(51.3) |
| SRVS                | N061*                 | Cineworld South Ruislip car park, Ruislip                     | Free field                       | -<br>(-)                                    | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)                                     | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)                                            | -<br>(-)       |
|                     | TCA-N001              | Trenchard Avenue, Ruislip                                     | Free field                       | 54.9<br>(55.5)                              | 57.6<br>(64.1) | 56.0<br>(62.6) | 55.1<br>(66.6) | 51.5<br>(64.3) | 55.3<br>(62.9)                               | 55.2<br>(55.8) | 54.6<br>(56.3) | 56.8<br>(67.8) | 49.3<br>(57.8) | 54.5<br>(59.1)                                      | 50.7<br>(60.1) |
| HR                  | N067                  | Harvil Road worksite south boundar                            | Free field                       | 57.7<br>(61.9)                              | 57.3<br>(62.6) | 54.2<br>(59.3) | 54.1<br>(60.5) | 54.8<br>(63.1) | 55.9<br>(60.4)                               | 57.8<br>(60.6) | 53.7<br>(58.5) | 53.0<br>(62.3) | 54.1<br>(64.6) | 54.5<br>(61.5)                                      | 55.1<br>(63.1) |
|                     | SSPA-N001             | SSPA Eastern boundary                                         | Free field                       | 65.1<br>(66.1)                              | 64.2<br>(66.3) | 64.2<br>(65.9) | 62.1<br>(64.4) | 58.5<br>(65.9) | 61.8<br>(62.7)                               | 63.6<br>(64.2) | 63.4<br>(64.4) | 62.5<br>(65.3) | 56.4<br>(60.8) | 62.0<br>(65.0)                                      | 58.1<br>(65.5) |
|                     | DGT-N001              | Dogs Trust, Newyears Green Lane                               | Free field                       | 53.5<br>(56.0)                              | 54.8<br>(58.3) | 51.5<br>(54.6) | 50.1<br>(54.1) | 48.4<br>(55.9) | 50.9<br>(51.9)                               | 53.2<br>(54.8) | 51.7<br>(52.9) | 51.1<br>(55.5) | 47.5<br>(52.4) | 50.1<br>(53.4)                                      | 47.7<br>(54.0) |

|      |             |                       |            |                |                |                |                |                |                |                |                |                |                |                |                |
|------|-------------|-----------------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| BR   | HC-N002     | Hoylake Crescent      | Free field | 56.0<br>(57.4) | 55.1<br>(56.2) | 55.2<br>(56.7) | 53.7<br>(55.8) | 51.3<br>(65.5) | 53.7<br>(54.9) | 57.7<br>(70.9) | 54.0<br>(54.6) | 54.1<br>(55.4) | 52.1<br>(71.6) | 53.6<br>(55.8) | 51.1<br>(57.5) |
|      | N065*       | Breakspear Road South | Free field | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       |
| NSPA | NSPA-N001a* | Newyears Green Lane   | Free field | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       | -<br>(-)       |

\* No data measured throughout the month due to a loss of power at the monitoring station

- 2.1.2 Table 4: Summary of Measured PPV Data over the Monitoring Period 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 |
|--------------------|-----------------------|--------------------------------------------------|----------------------------------------|
| BR                 | HC-V002               | Hoylake Crescent                                 | 1.11 (Z-axis)                          |
| SRVS               | SRVS-V001a            | South Ruislip industrial estate - Braintree Road | 2.56 (Z-axis)                          |
| WRP                | GW-V001               | The Greenway                                     | 1.03 (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 LAeq values and, where relevant, the LAeq,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 LOAEL and SOAELs for construction noise.

- 2.2.4 Where construction noise levels exceed the SOAEL, relevant periods will be identified, and summary statistics provided in order to evaluate ongoing qualification for noise insulation and temporary rehousing.
- 2.2.5 Table 5 presents a summary of recorded exceedances of the LOAEL and SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of LOAEL and SOAEL

| Worksite Reference | Measurement Reference | Site Address                              | Day (Weekday, Saturday, Sunday, Night) | Time period                | Number of exceedances of LOAEL | Number of exceedances of SOAEL   |
|--------------------|-----------------------|-------------------------------------------|----------------------------------------|----------------------------|--------------------------------|----------------------------------|
| BR                 | HC-N002               | Hoylake Crescent, Ickenham, Uxbridge      | Saturday Night                         | 0800 - 1300<br>2200 - 0700 | 1<br>29                        | No exceedances<br>No exceedances |
|                    | N065                  | Breakspear Road South, Harefield          | All days                               | All periods                | No exceedances                 | No exceedances                   |
| CVV                | DLC-NMP               | Dews Lane, Uxbridge                       | Weekday                                | 1800 - 1900                | 1                              | No exceedances                   |
|                    |                       |                                           |                                        | 1900 - 2200                | 3                              | No exceedances                   |
|                    |                       |                                           | Sunday                                 | 0700 - 2200                | 2                              | No exceedances                   |
|                    |                       |                                           | Night                                  | 2200 - 0700                | 19                             | No exceedances                   |
|                    | HFM-NMP               | Moorhall Road, Harefield, Uxbridge        | Night                                  | 2200 - 0700                | 19                             | No exceedances                   |
| HR                 | N067                  | Harvil Road worksite south boundary       | Weekday                                | 0700 - 0800                | 3                              | No exceedances                   |
|                    |                       |                                           |                                        | 1900 - 2200                | 8                              | No exceedances                   |
|                    |                       |                                           | Saturday                               | 0700 - 0800                | 1                              | No exceedances                   |
|                    |                       |                                           |                                        | 1400 - 2200                | 1                              | No exceedances                   |
|                    |                       |                                           | Sunday                                 | 0700 - 2200                | 5                              | No exceedances                   |
|                    |                       |                                           | Night                                  | 2200 - 0700                | 31                             | No exceedances                   |
|                    | SSPA-N001             | SSPA Eastern boundary                     | Weekday                                | 0700 - 0800                | 3                              | No exceedances                   |
|                    |                       |                                           |                                        | 1800 - 1900                | 1                              | No exceedances                   |
|                    |                       |                                           |                                        | 1900 - 2200                | 8                              | No exceedances                   |
|                    |                       |                                           | Saturday                               | 1400 - 2200                | 1                              | No exceedances                   |
|                    |                       |                                           | Sunday                                 | 0700 - 2200                | 3                              | No exceedances                   |
|                    |                       |                                           | Night                                  | 2200 - 0700                | 29                             | No exceedances                   |
|                    | DGT-N001              | Dogs Trust West London                    | Night                                  | 2200 - 0700                | 29                             | No exceedances                   |
| NSPA               | NSPA-N001a            | Newyears Green Lane                       | All days                               | All periods                | No exceedances                 | No exceedances                   |
| SRVS               | N061                  | Cineworld South Ruislip car park, Ruislip | All days                               | All periods                | No exceedances                 | No exceedances                   |
|                    | TCA-N001              |                                           | Weekday                                | 1900 - 2200                | 1                              | No exceedances                   |

|     |          |                                              |                   |                            |         |                                  |
|-----|----------|----------------------------------------------|-------------------|----------------------------|---------|----------------------------------|
|     |          | Trenchard Avenue, Ruislip                    | Saturday<br>Night | 1400 - 2200<br>2200 - 0700 | 1<br>13 | No exceedances<br>No exceedances |
| WRP | N048     | West Ruislip Golf Club, Ickenham Rd, Ruislip | Weekday           | 1900 - 2200                | 2       | No exceedances                   |
|     |          |                                              | Saturday          | 0800 - 1300                | 1       | No exceedances                   |
|     |          |                                              |                   | 1300 - 1400                | 2       | No exceedances                   |
|     |          |                                              |                   | 1400 - 2200                | 4       | No exceedances                   |
|     |          |                                              | Sunday            | 0700 - 2200                | 1       | No exceedances                   |
|     |          |                                              | Night             | 2200 - 0700                | 29      | No exceedances                   |
|     | N056     | 83 The Greenway, Ickenham, Ruislip           | Saturday          | 1400 - 2200                | 2       | No exceedances                   |
|     |          |                                              | Sunday            | 0700 - 2200                | 2       | No exceedances                   |
|     |          |                                              | Night             | 2200 - 0700                | 31      | No exceedances                   |
|     | N057     | 123 The Greenway, Ickenham, Ruislip          | Sunday            | 0700 - 2200                | 1       | No exceedances                   |
|     |          |                                              | Night             | 2200 - 0700                | 31      | No exceedances                   |
|     | WRP-N001 | West Ruislip Golf Club, Ickenham Rd, Ruislip | Weekday           | 0800 - 1800                | 1       | No exceedances                   |
|     |          |                                              | Night             | 2200 - 0700                | 29      | No exceedances                   |
|     | TKL-N001 | Tile Kiln Lane, Harefield, Uxbridge          | Night             | 2200 - 0700                | 29      | No exceedances                   |

2.2.6 There were exceedances of the LOAEL, during May 2026, due to HS2 construction works.

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 |
|--------------------|-----------------------|-----------------|-----------------------------------------|
| -                  | -                     | -               | -                                       |

## 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

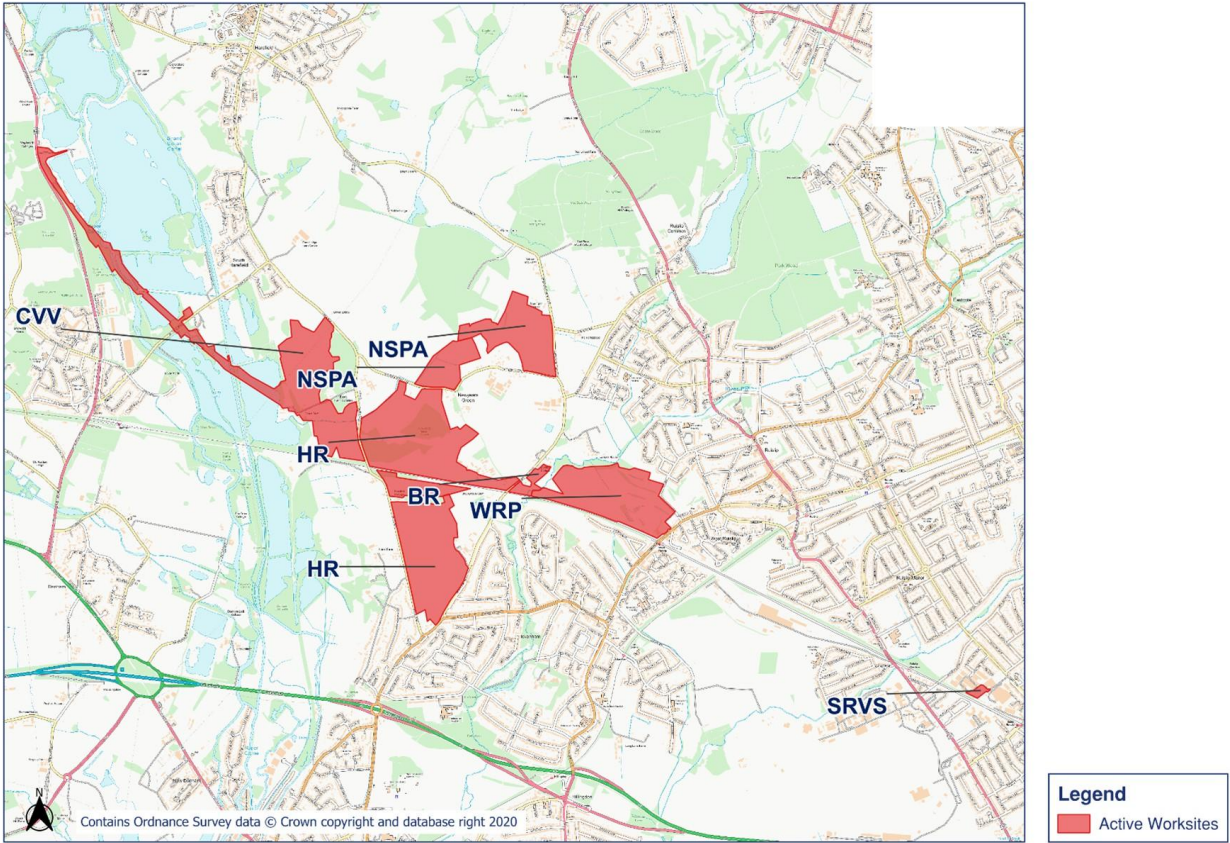
2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

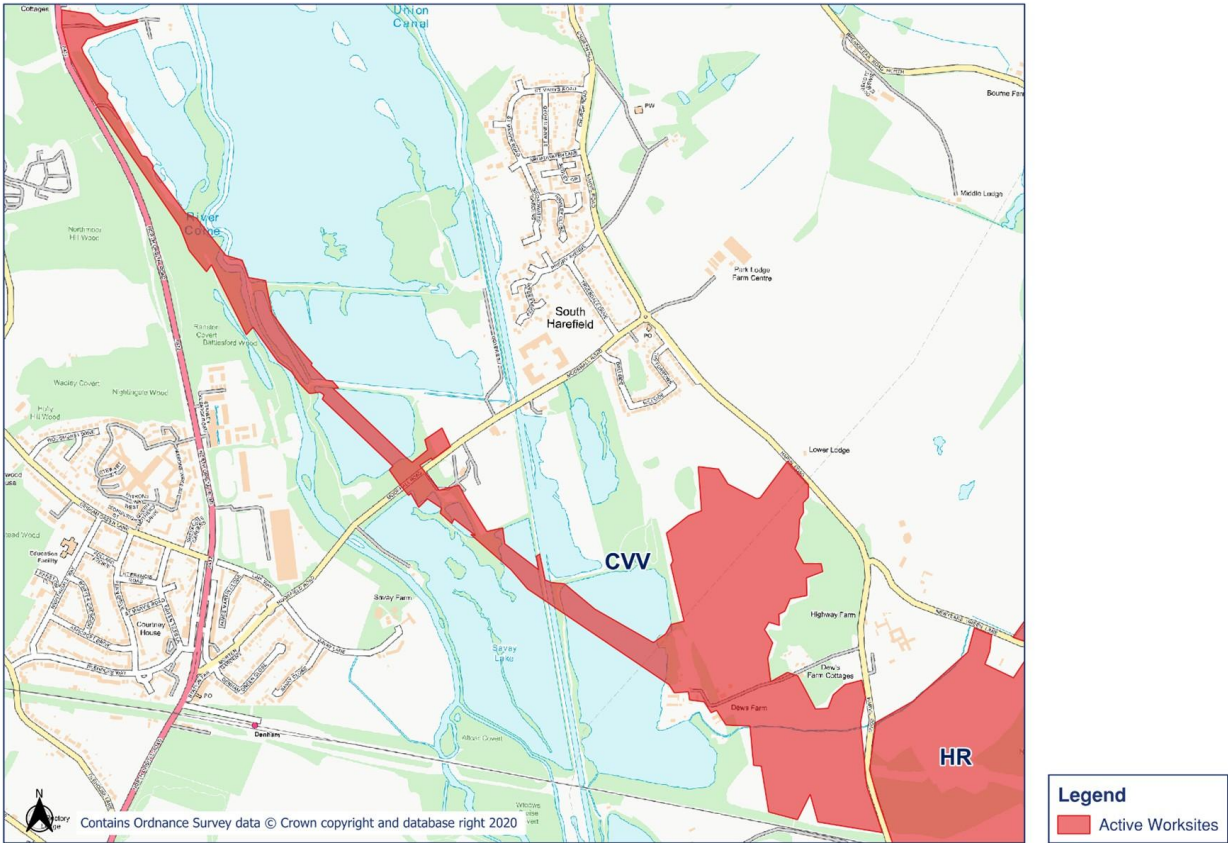
| Complaint Reference Number | Worksite Reference | Description of Complaint | Results of Investigation | Actions Taken |
|----------------------------|--------------------|--------------------------|--------------------------|---------------|
| -                          | -                  | -                        | -                        | -             |

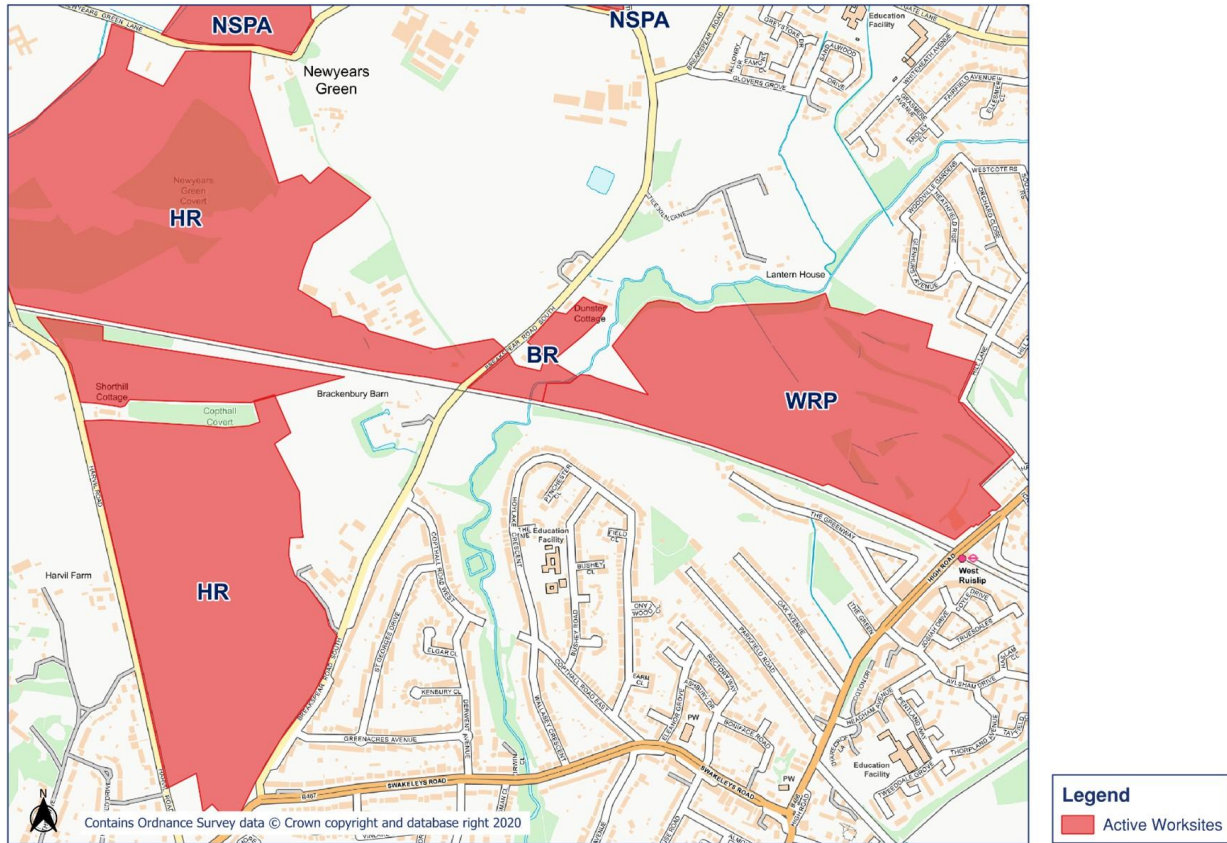
# Appendix A Site Locations

## HS2 Worksite Identification Plan - Overview

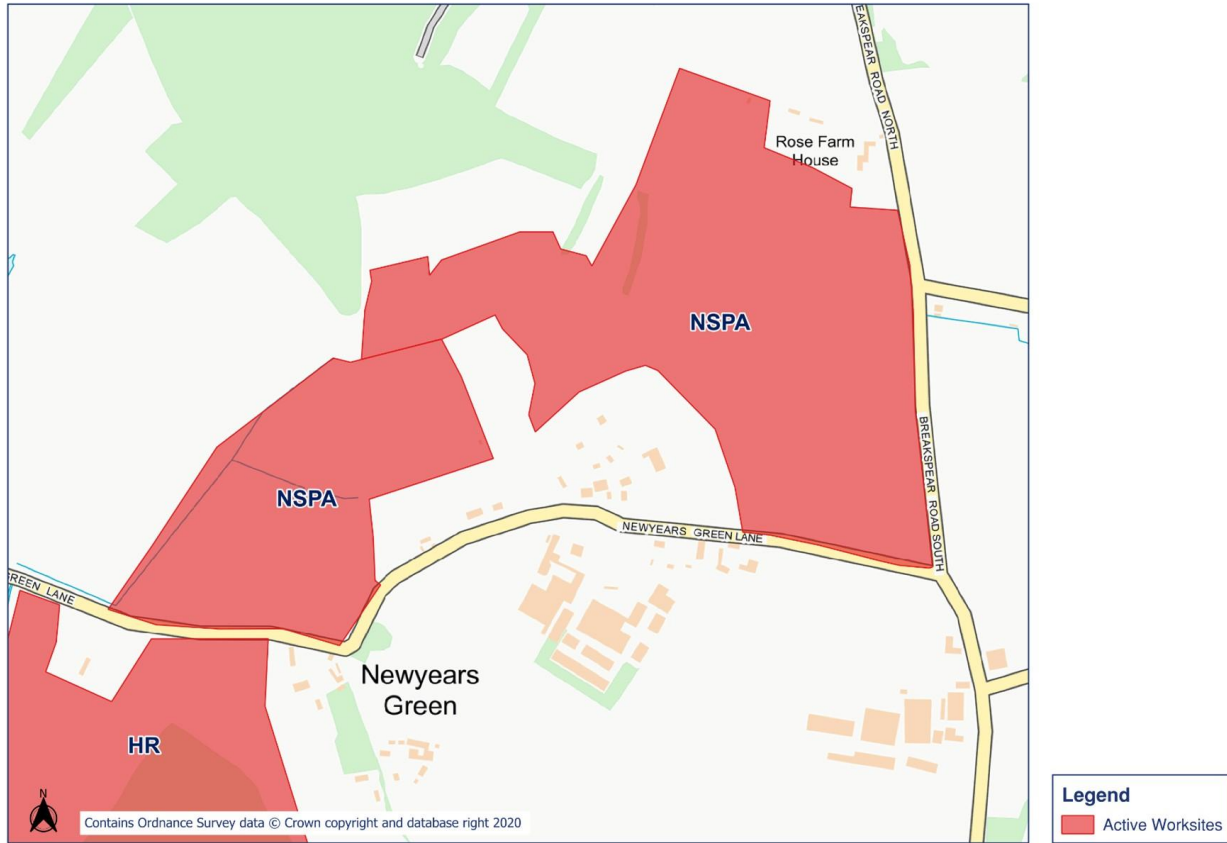


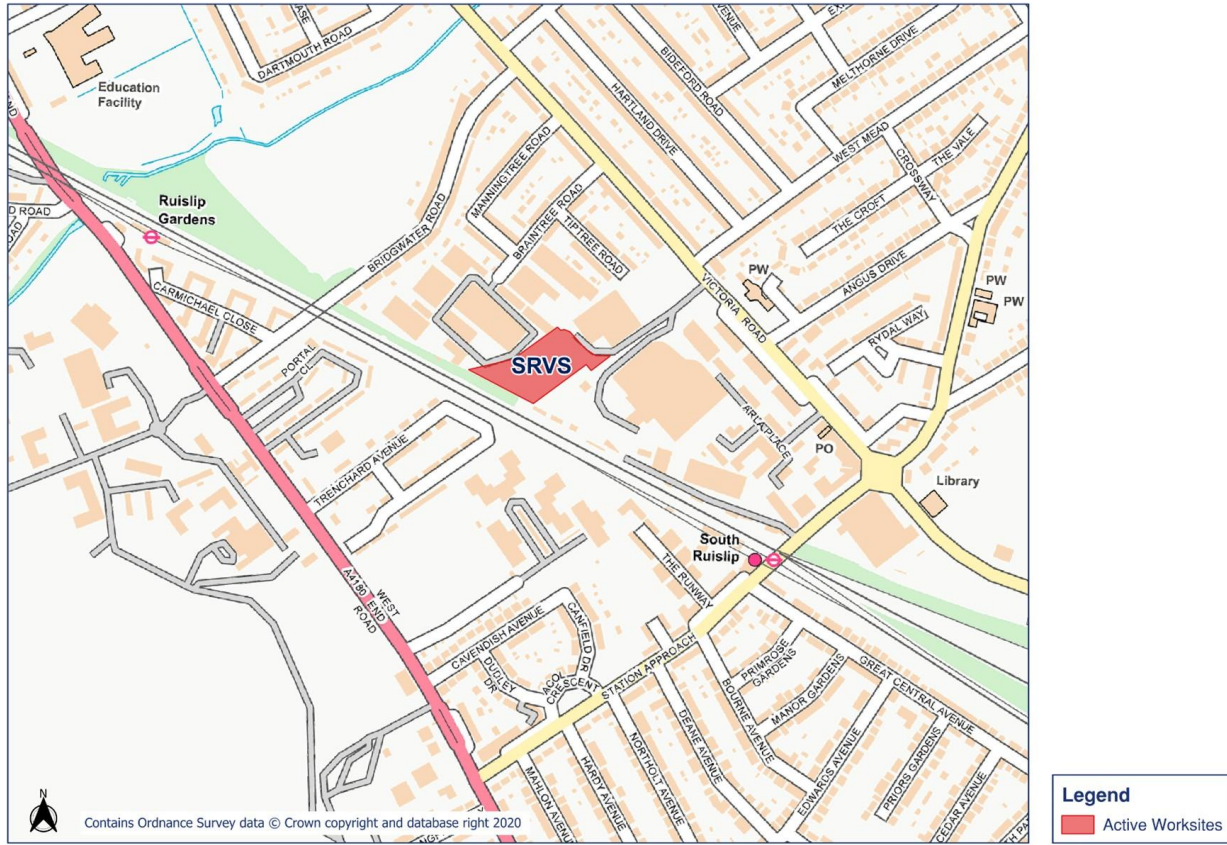






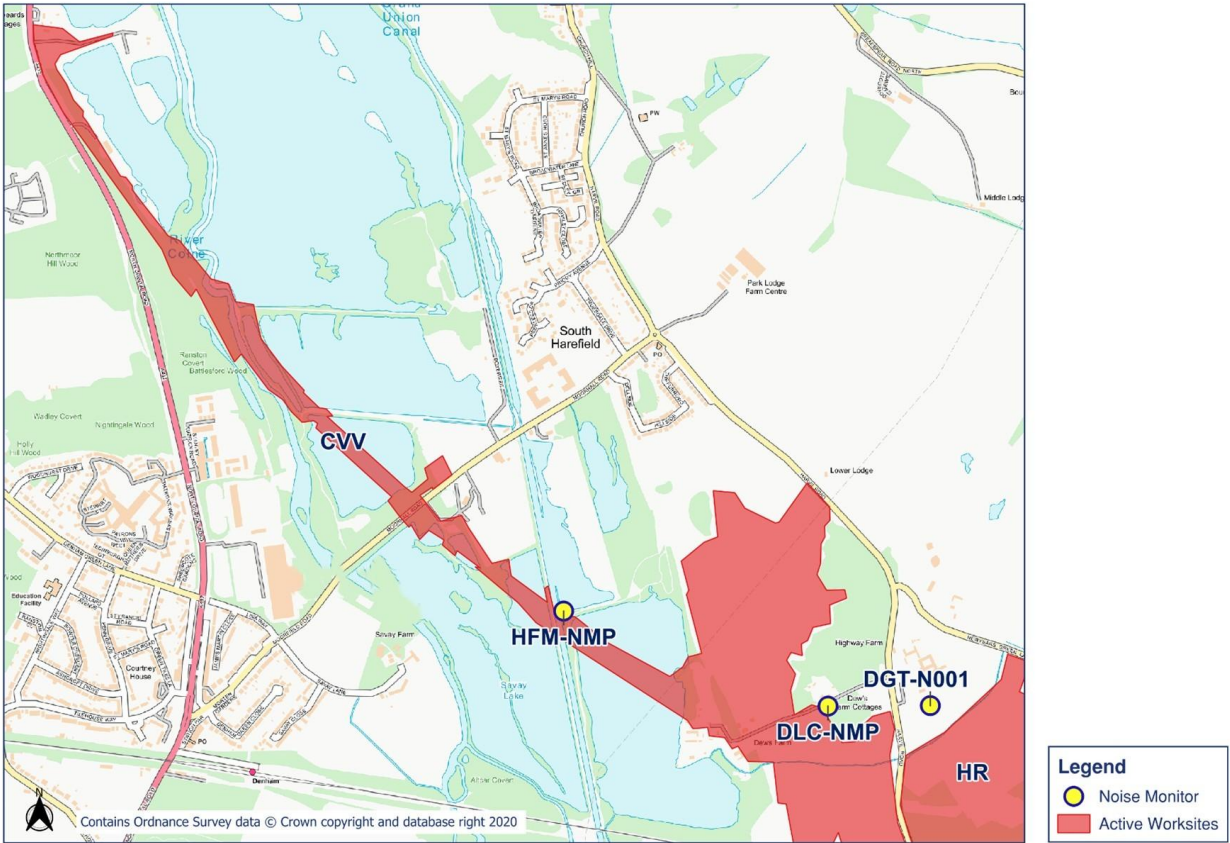




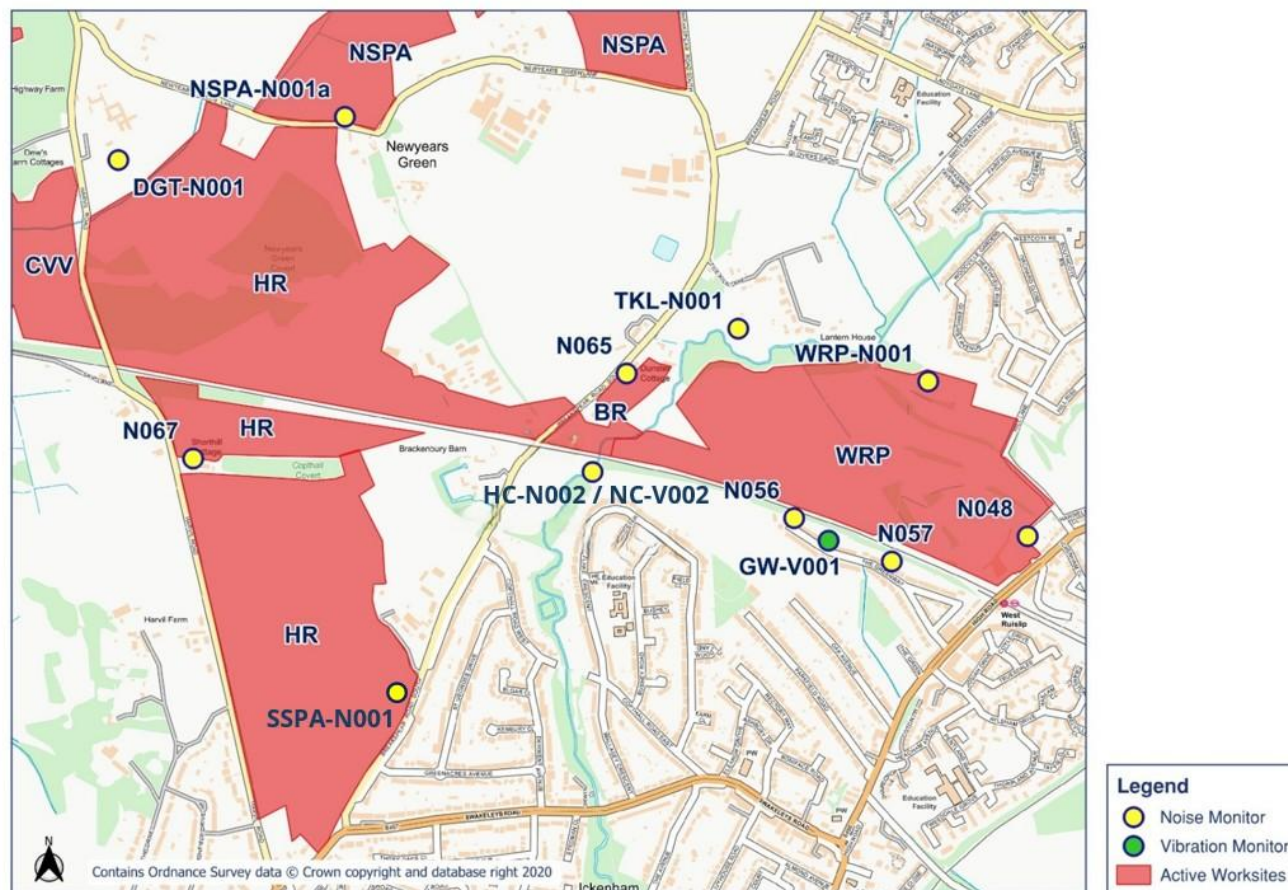


# Appendix B Monitoring Locations

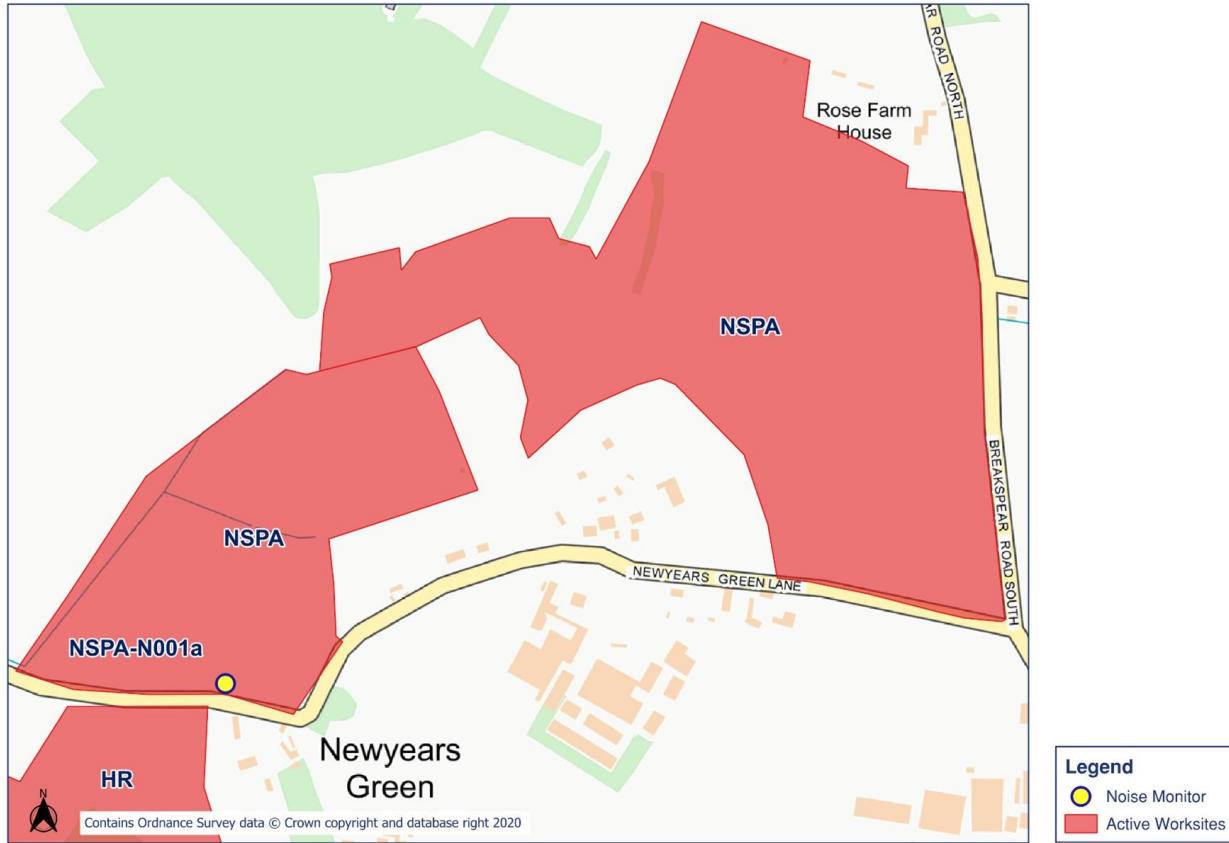
## HS2 Noise and Vibration Monitoring Plan - 1

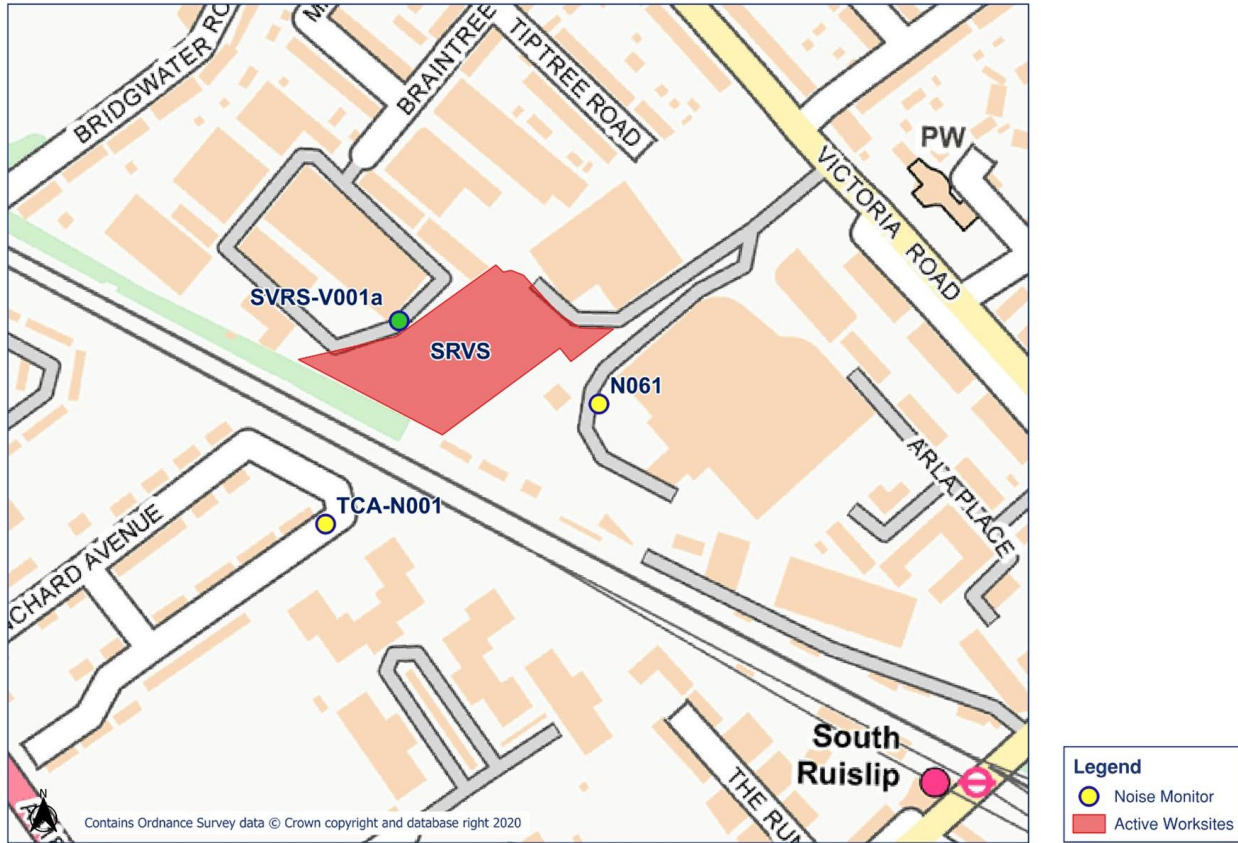


## Noise and Vibration Monitoring Plan - 2









# Error! Bookmark not defined. Appendix C Data

## Noise

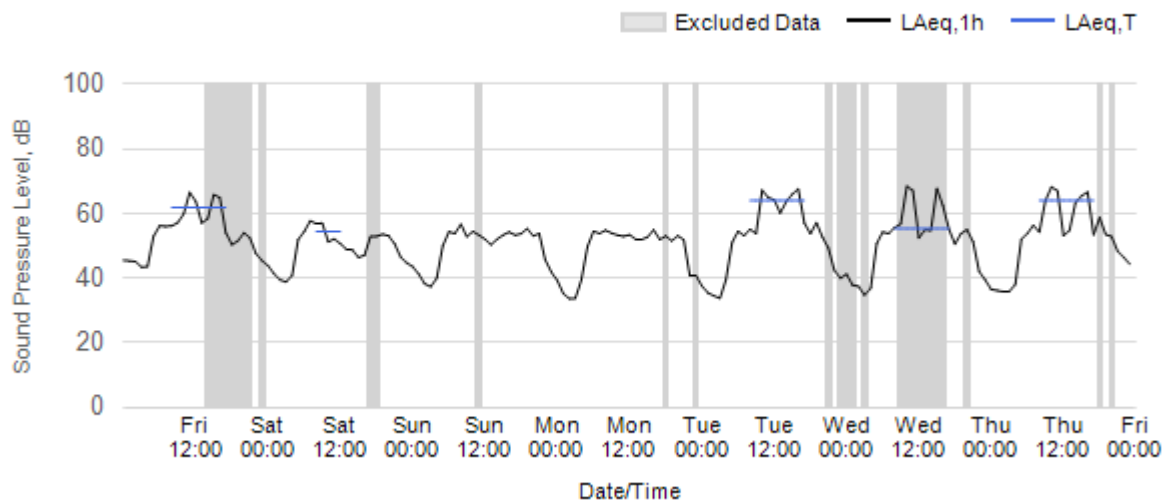
The following graphs show the hourly measured ambient noise level  $L_{Aeq,1h}$  and, where relevant, the averaged noise level  $L_{Aeq,T}$  values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured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

### Worksite: SRVS - Monitoring Ref: N061

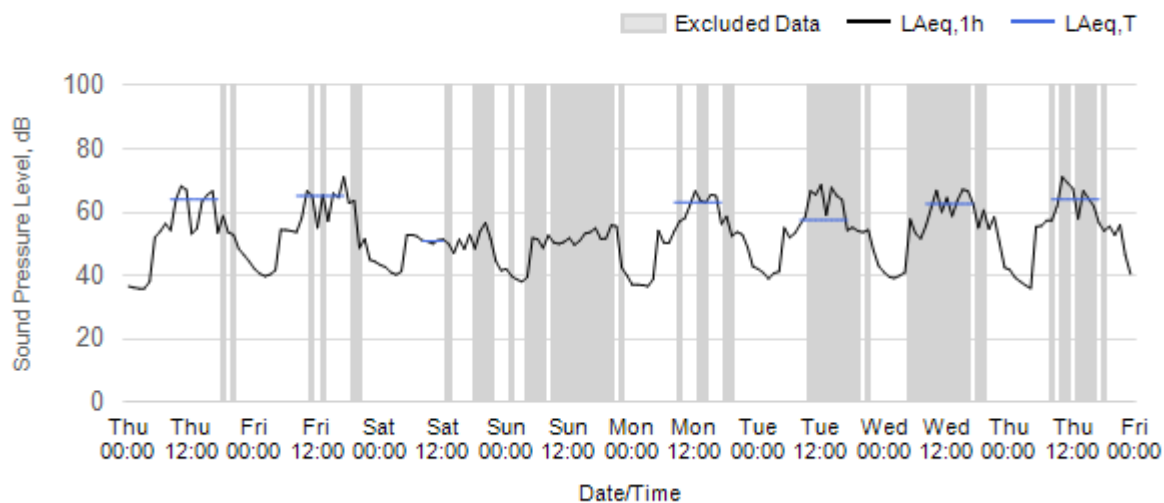
Note: No data measured throughout the month due to a fault with the monitoring equipment.

### Worksite: CVV-DL - Monitoring Ref: DLC-NMP

Worksite: CVV-DL Monitoring Ref: DLC-NMP 01 May 2026 to 07 May 2026

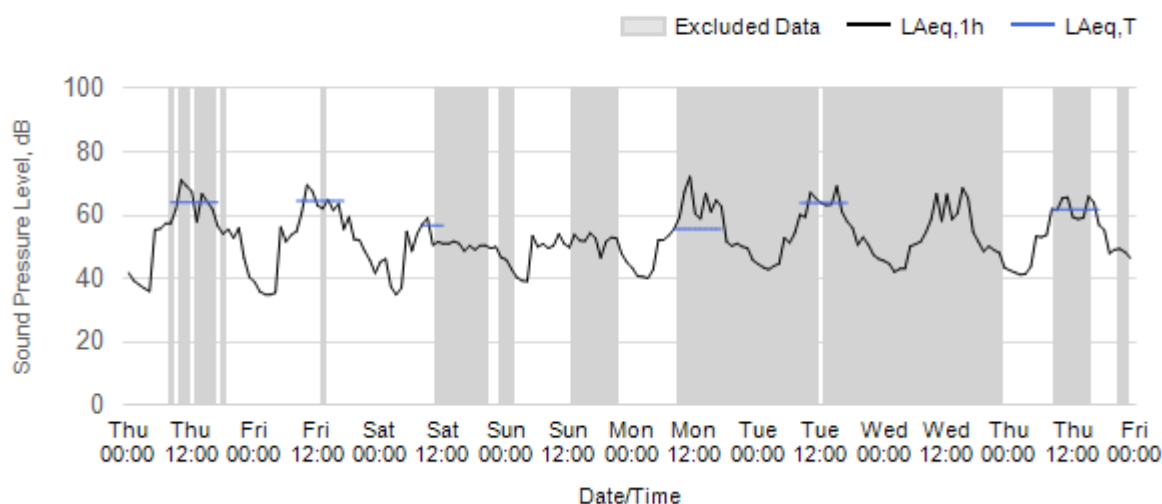


Worksite: CVV-DL Monitoring Ref: DLC-NMP 08 May 2026 to 14 May 2026

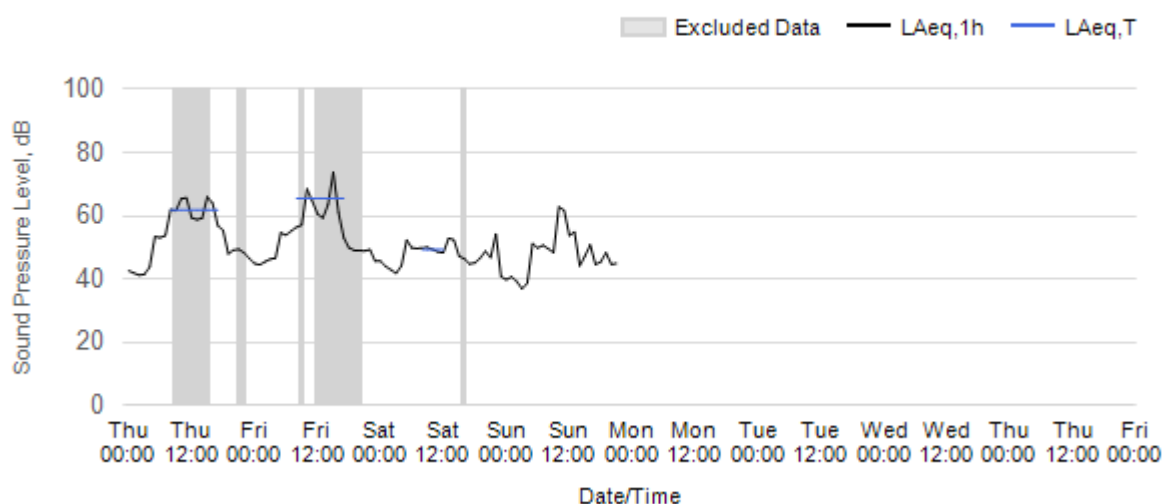




**Worksite: CVV-DL Monitoring Ref: DLC-NMP 15 May 2026 to 21 May 2026**

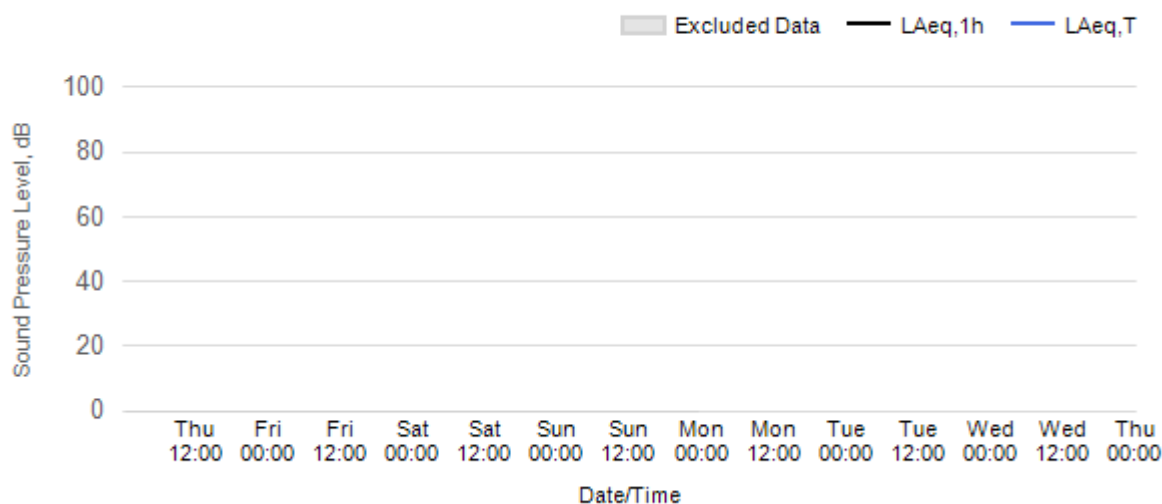


**Worksite: CVV-DL Monitoring Ref: DLC-NMP 22 May 2026 to 28 May 2026**



Note: Missing data was due to a loss of power at the monitoring station

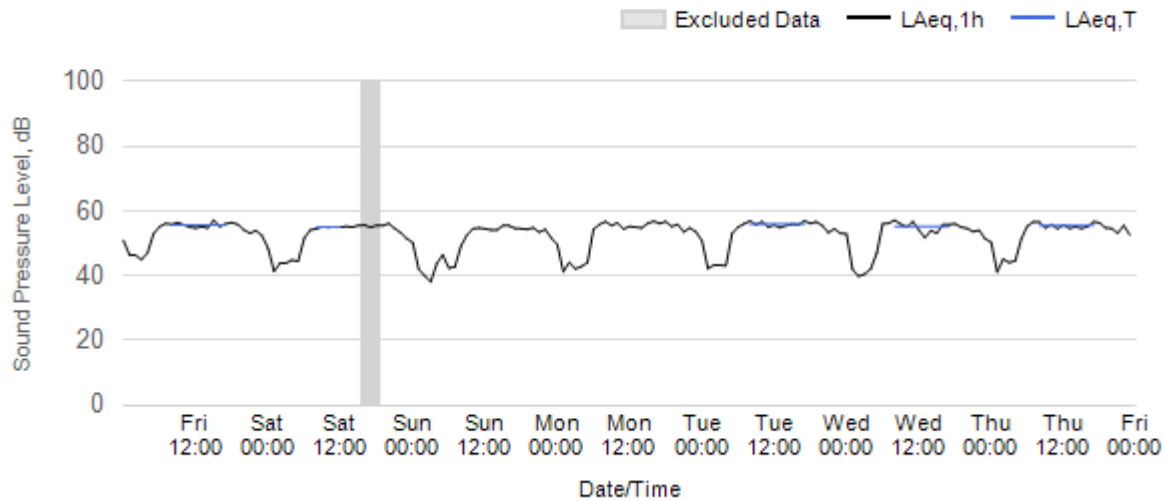
**Worksite: CVV-DL Monitoring Ref: DLC-NMP 29 May 2026 to 4 June 2026**



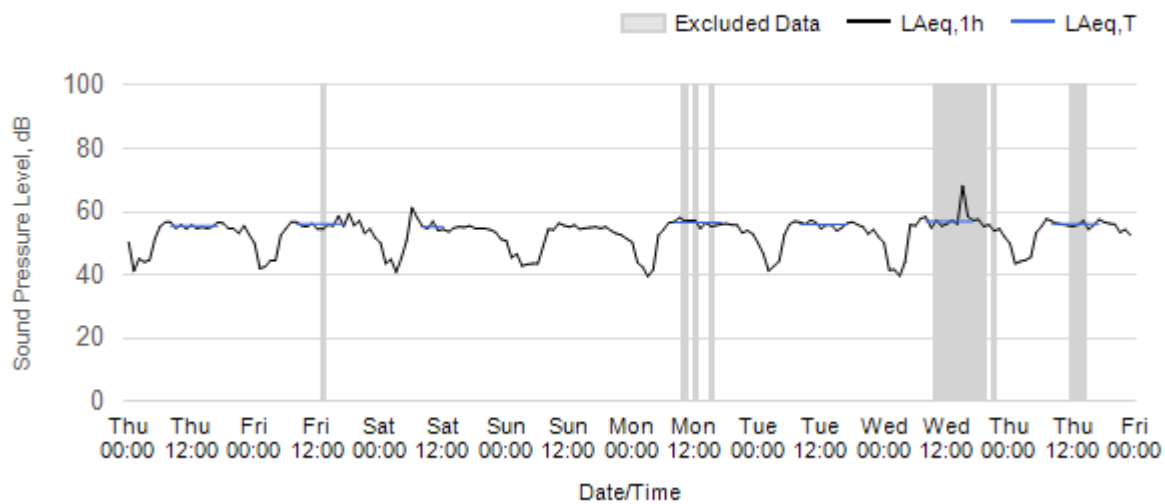
Note: Missing data was due to a loss of power at the monitoring station

## Worksite: WRP - Monitoring Ref: N057

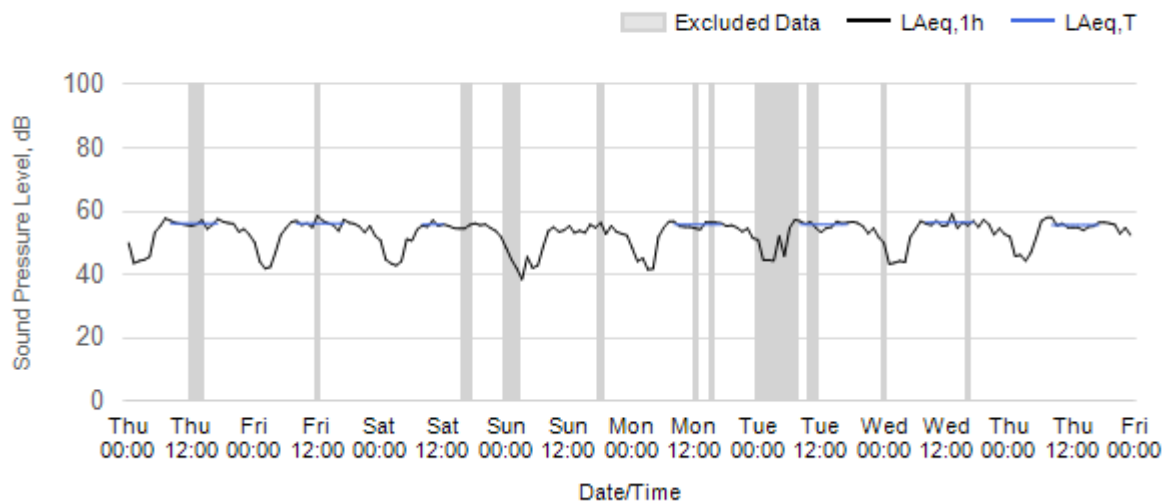
Worksite: WRP Monitoring Ref: N057 01 May 2026 to 07 May 2026



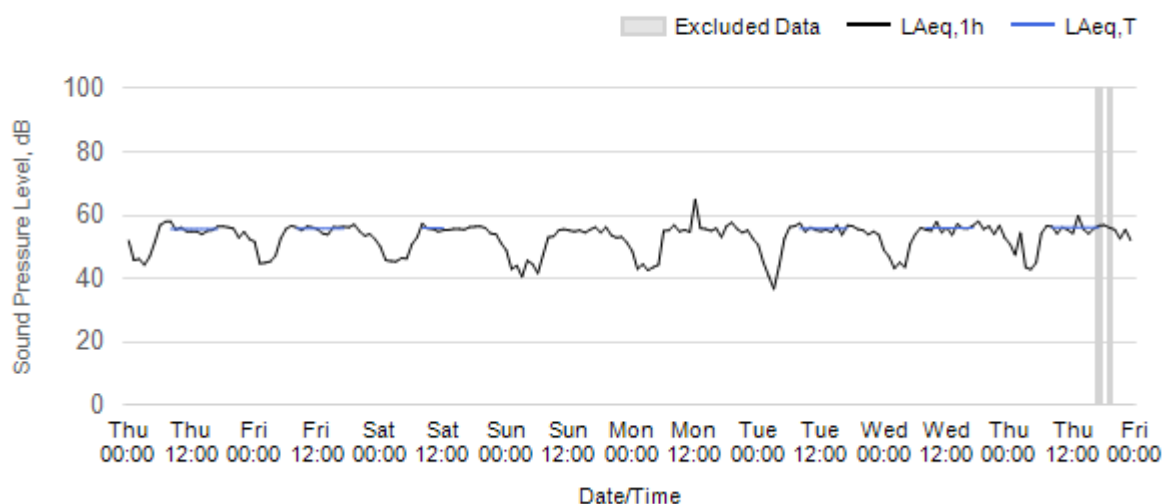
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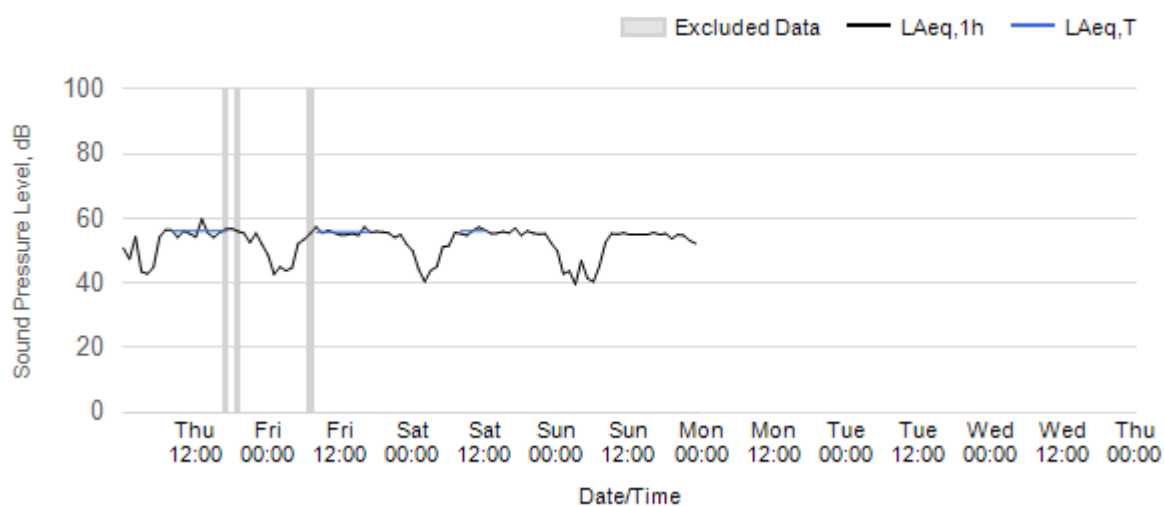
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**Worksite: WRP Monitoring Ref: N057 22 May 2026 to 28 May 2026**

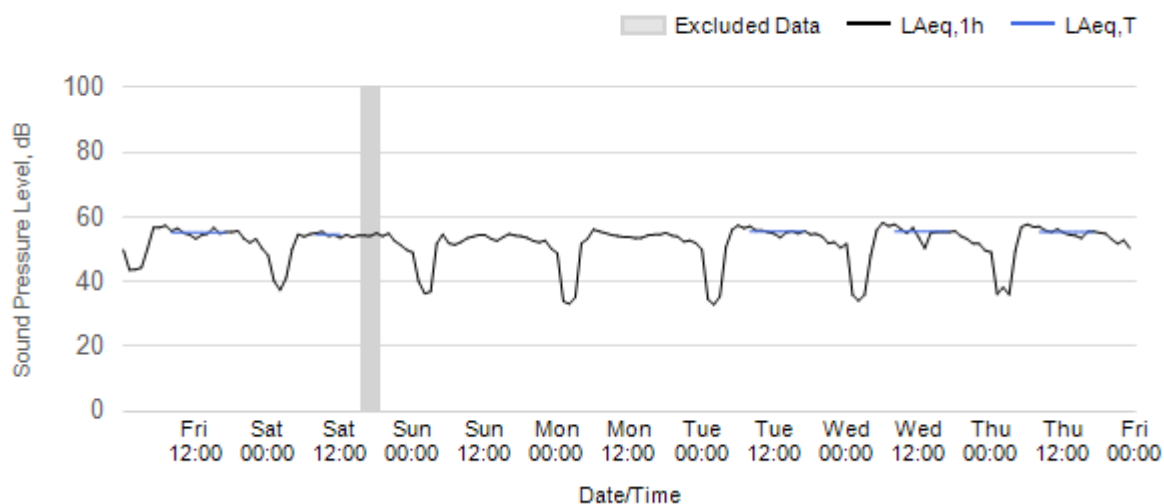


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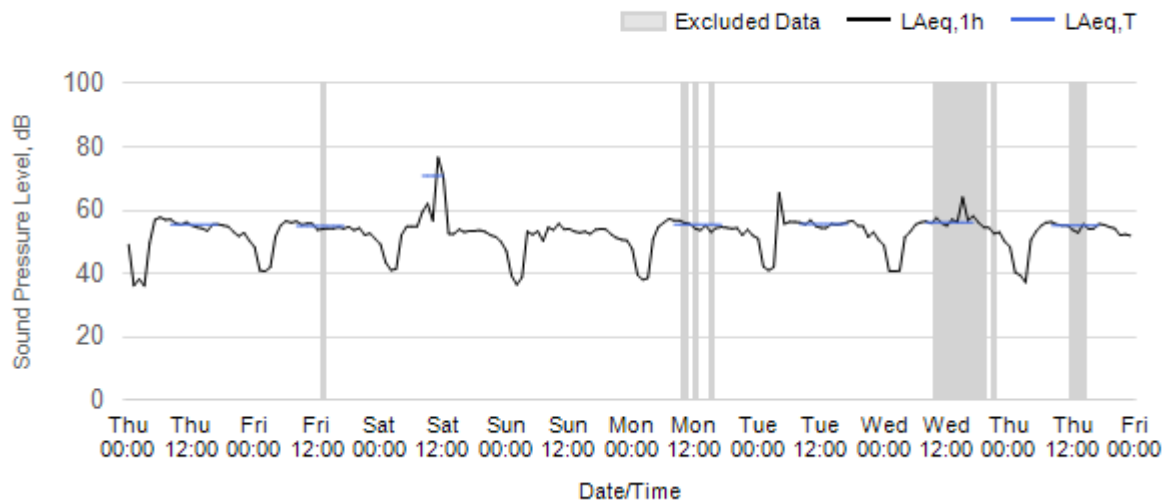


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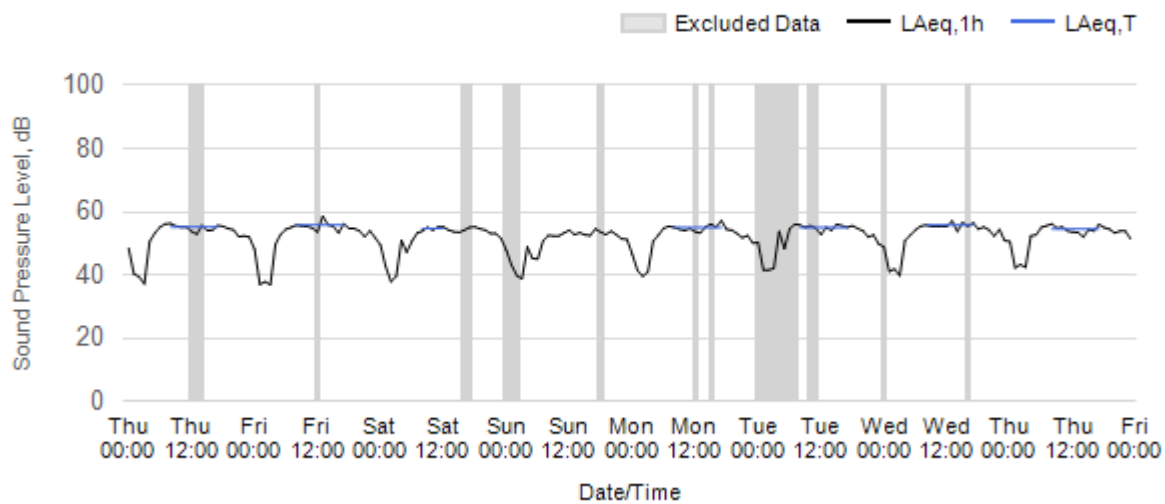
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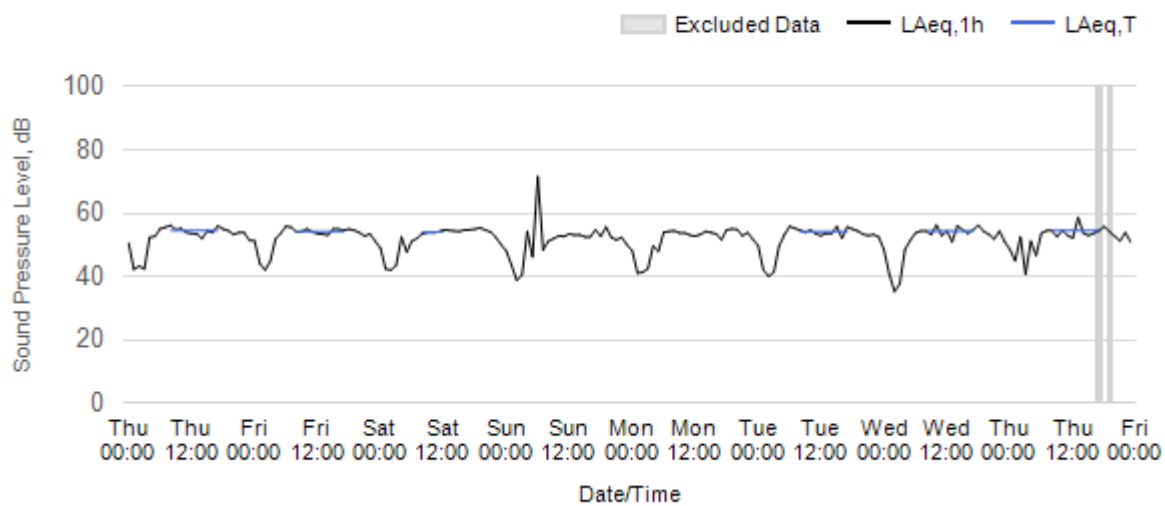
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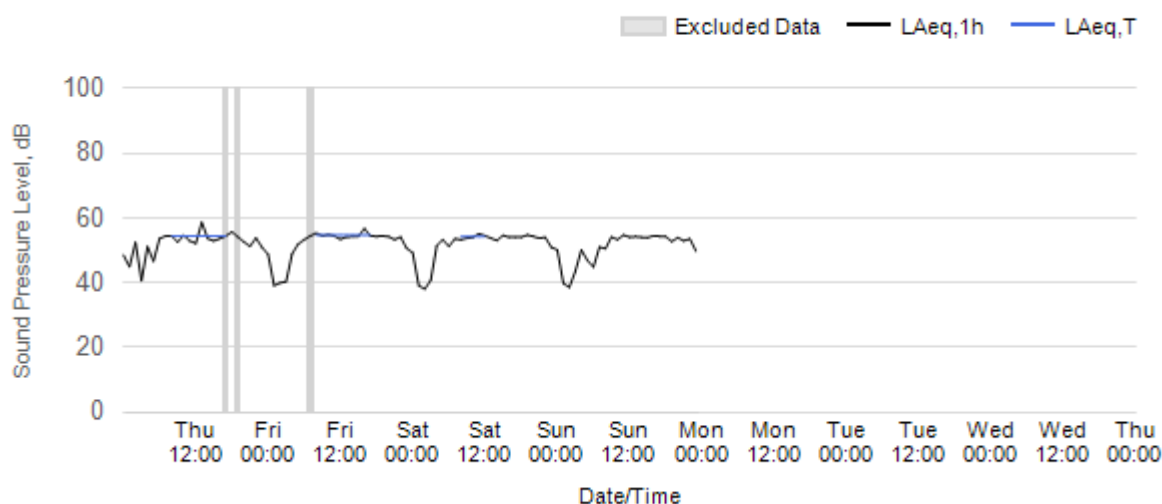
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**Worksite: BR Monitoring Ref: HC-N002 22 May 2026 to 28 May 2026**

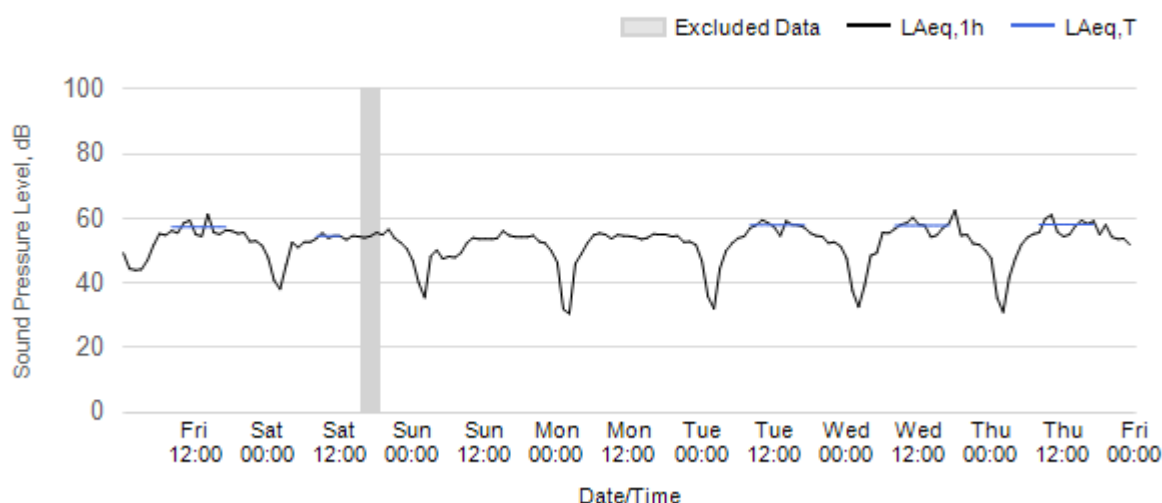


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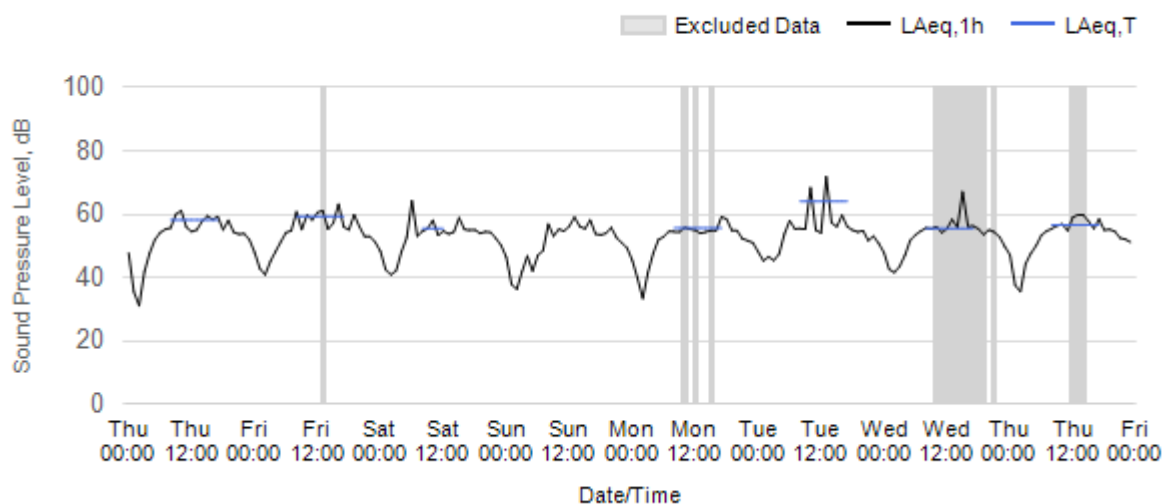


**Worksite: SRVS - Monitoring Ref: TCA-N001**

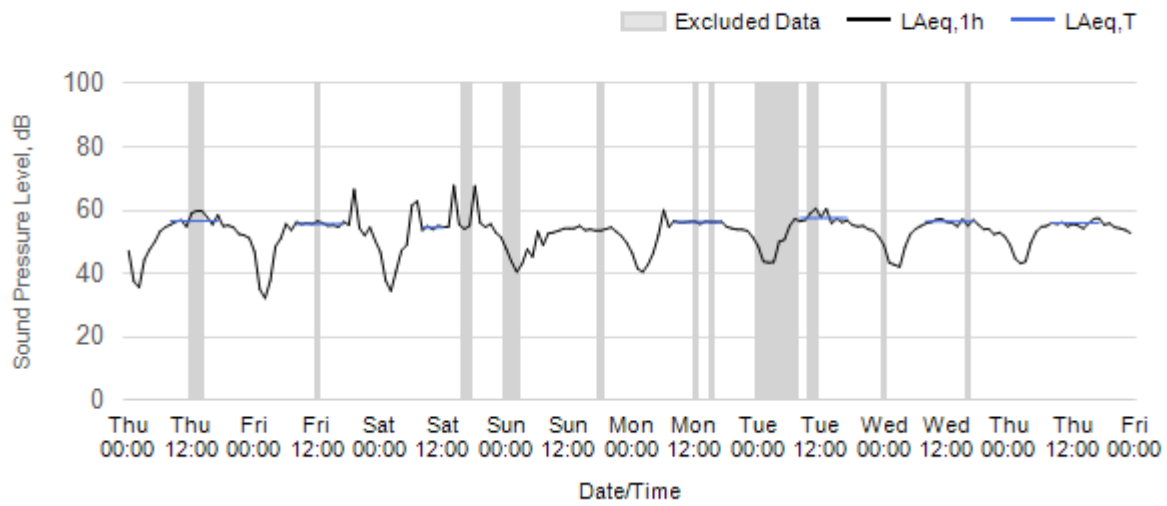
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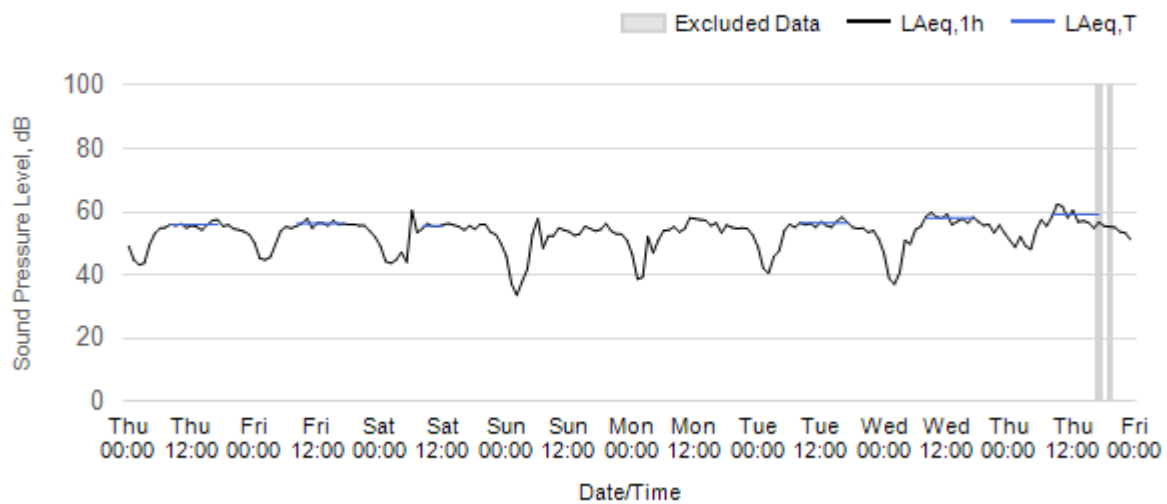
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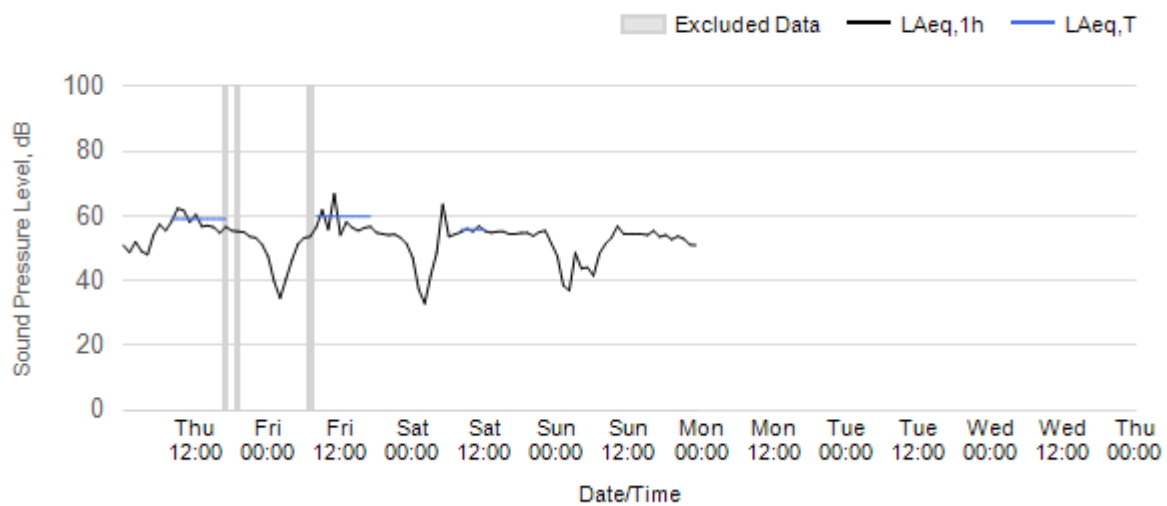
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**Worksite: SRVS Monitoring Ref: TCA-N001 22 May 2026 to 28 May 2026**



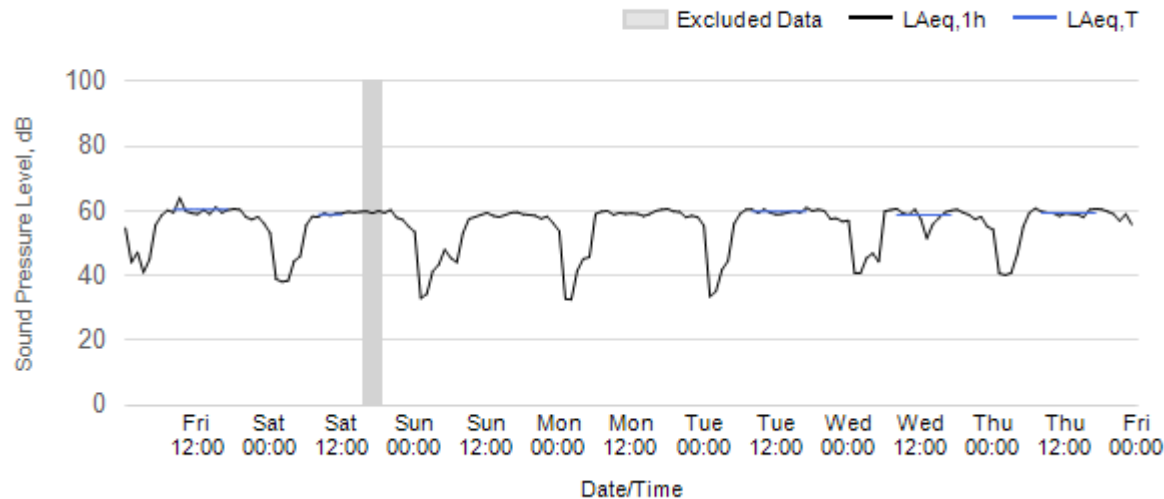
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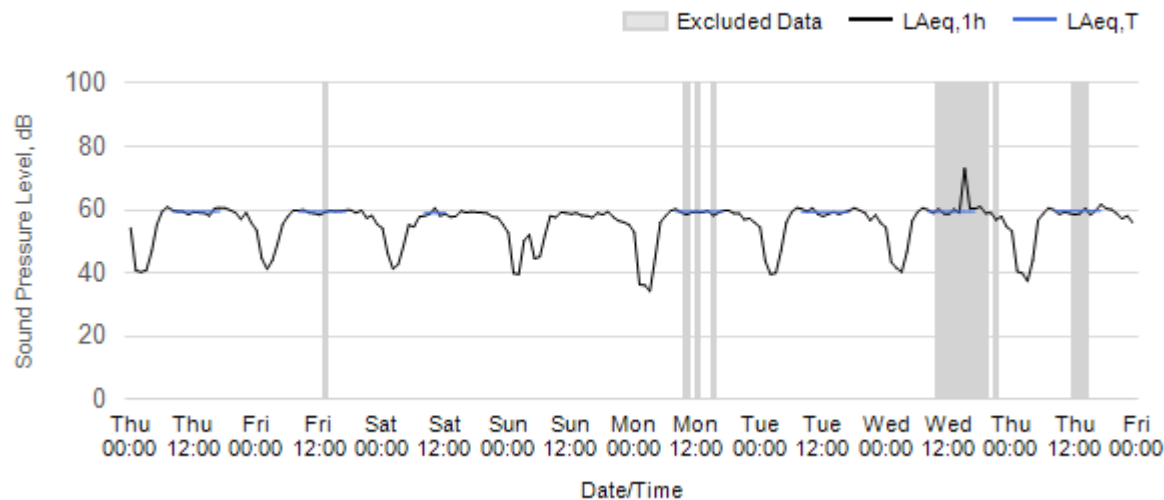


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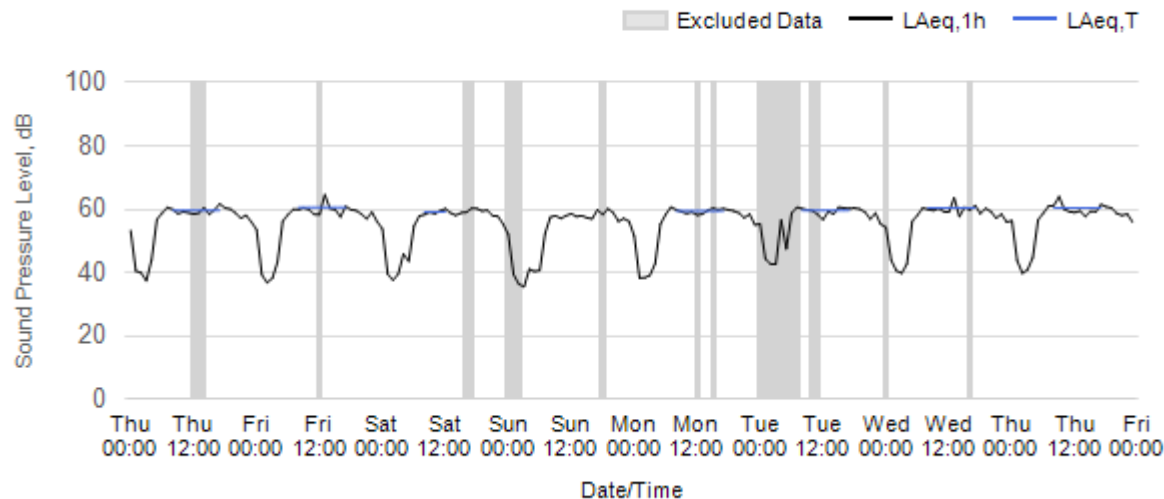
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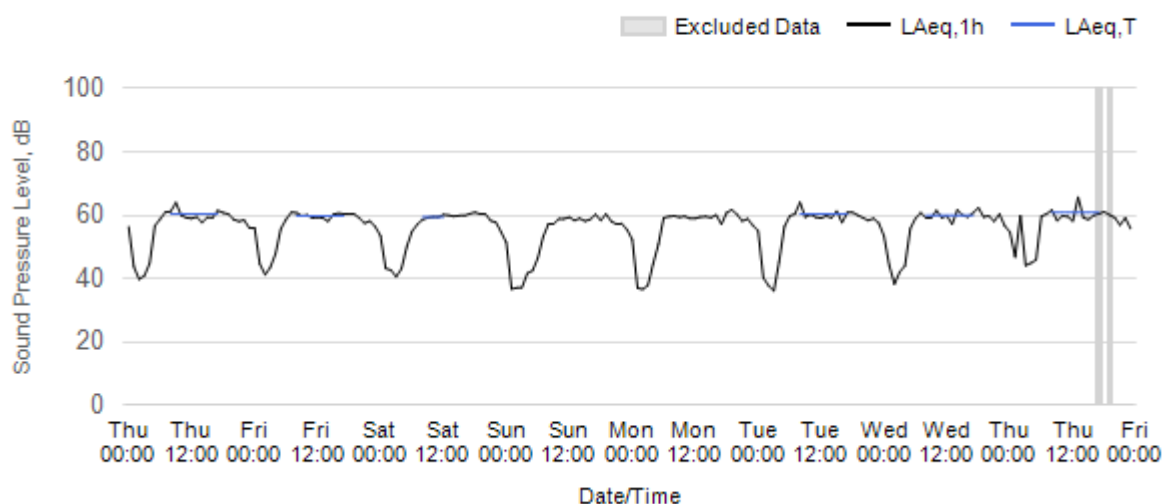
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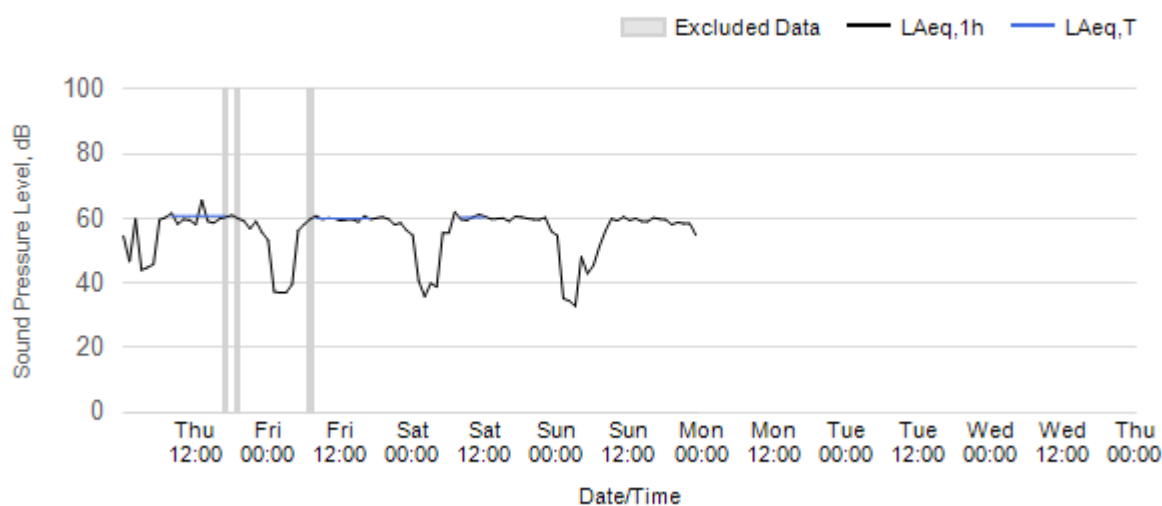
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**Worksite: WRP Monitoring Ref: N056 22 May 2026 to 28 May 2026**

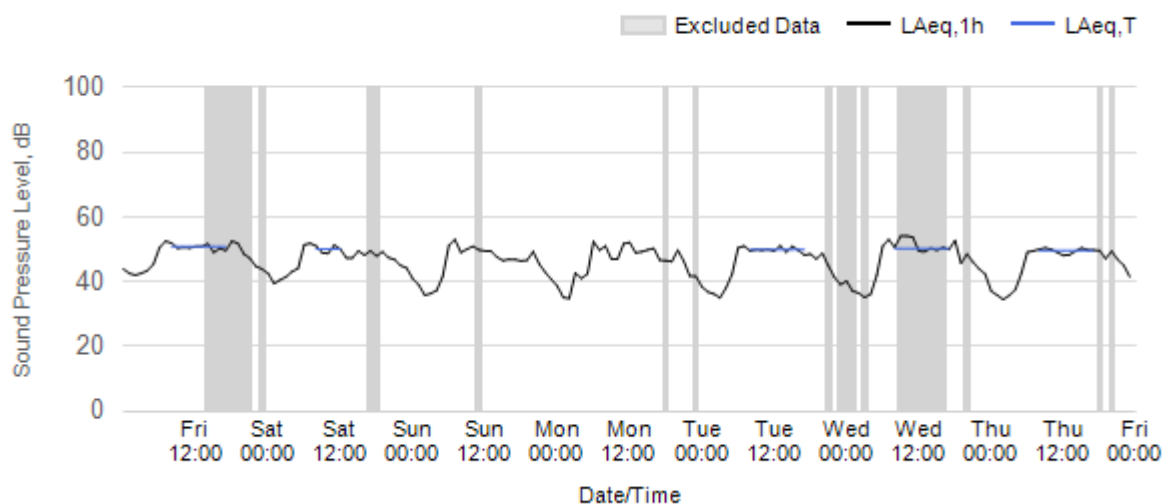


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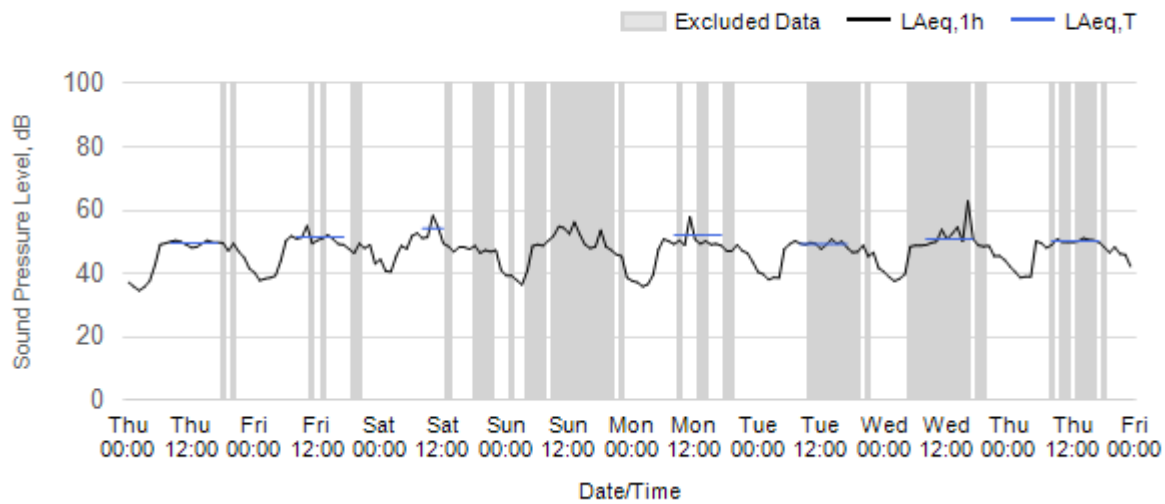


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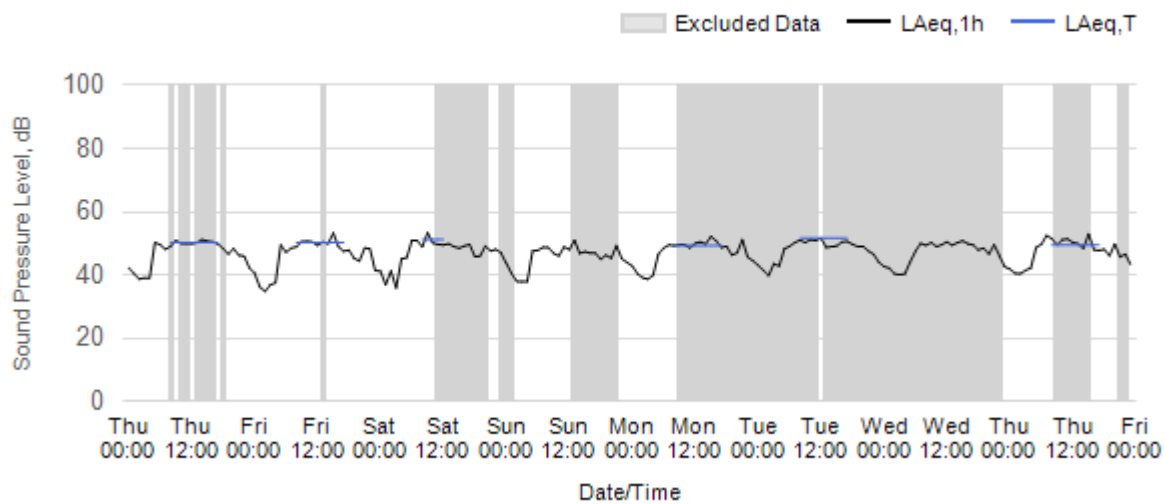
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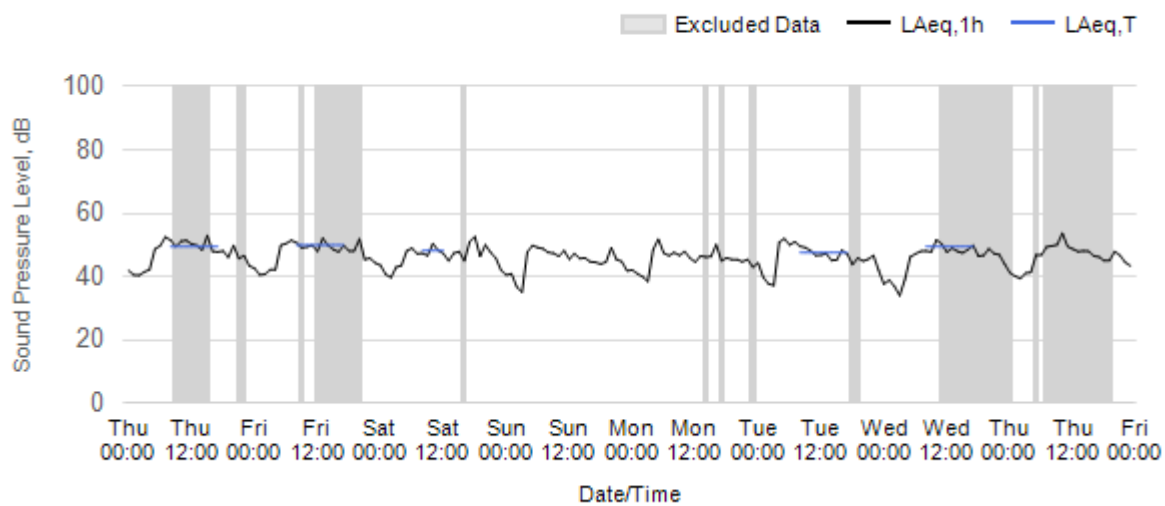
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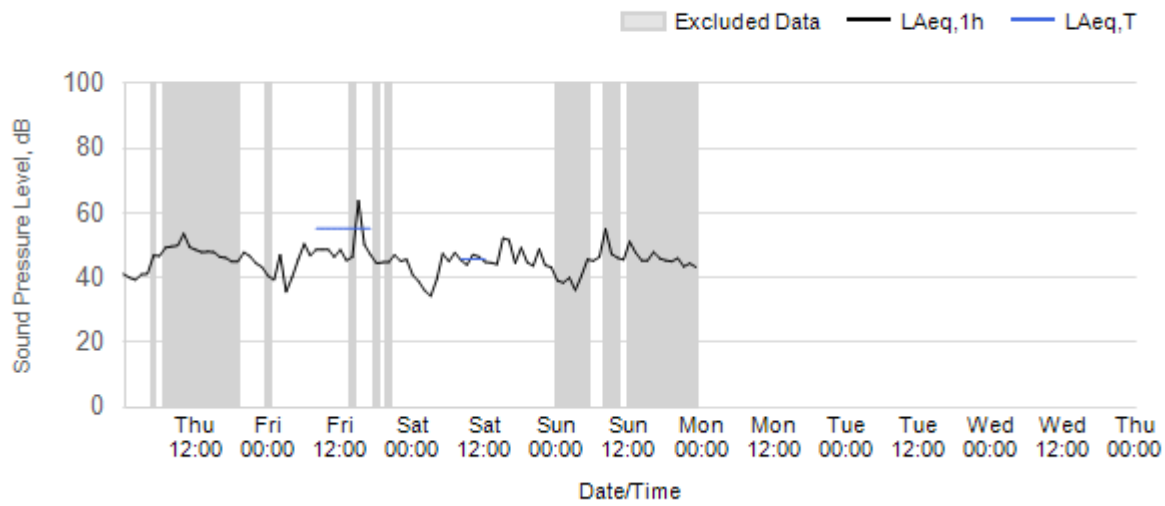
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Worksite: CVV-MR Monitoring Ref: HFM-NMP 22 May 2026 to 28 May 2026

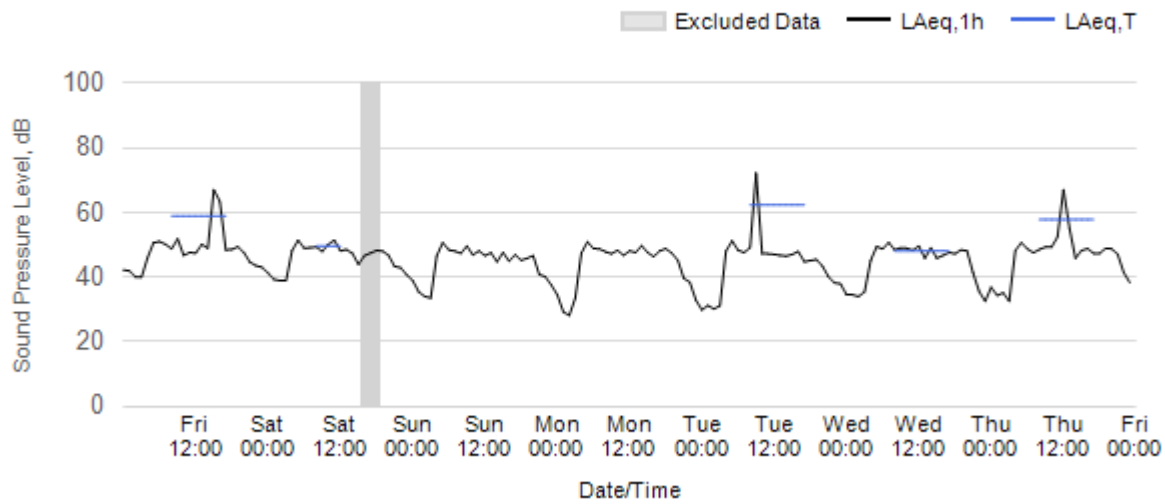


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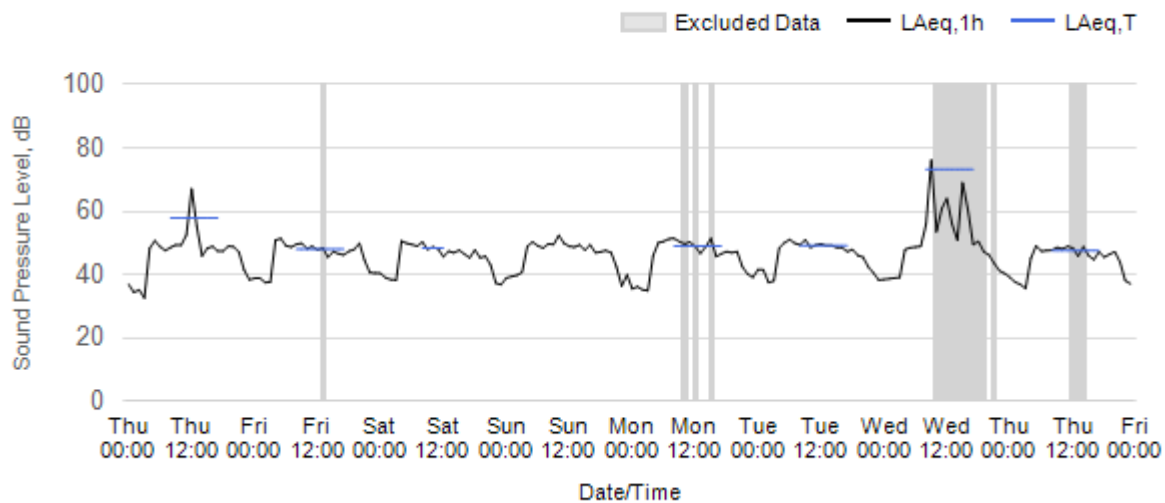


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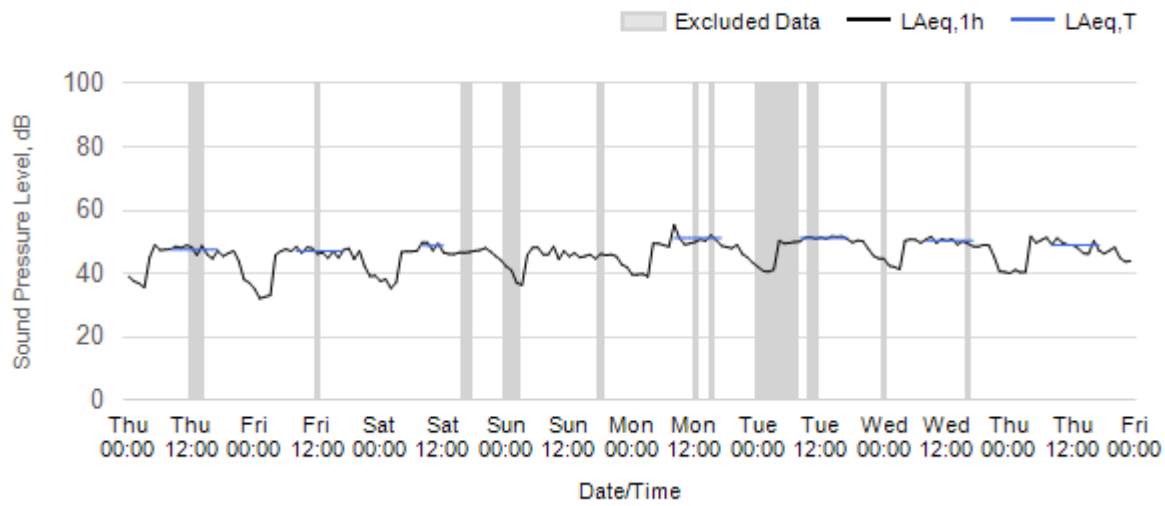
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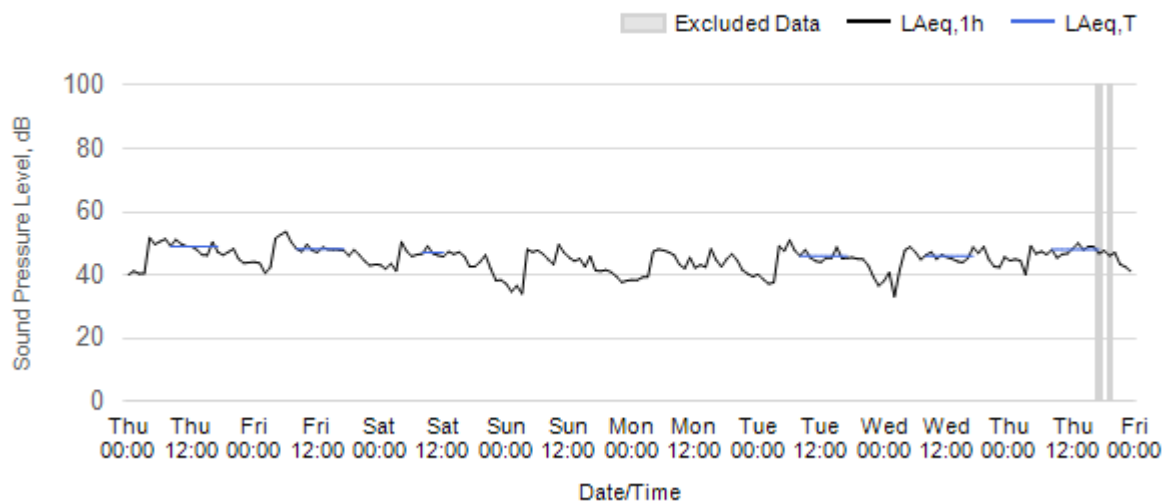
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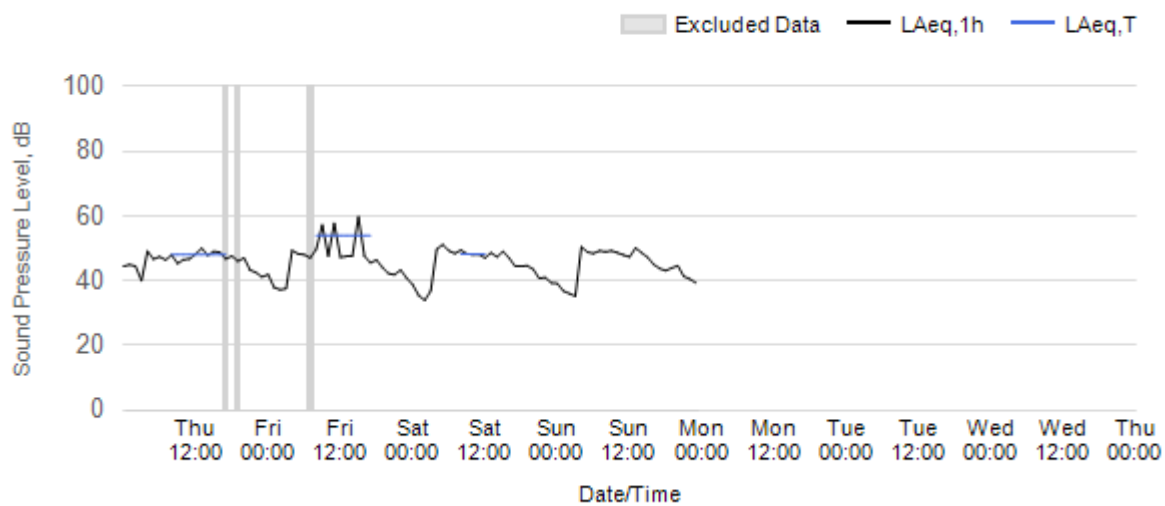
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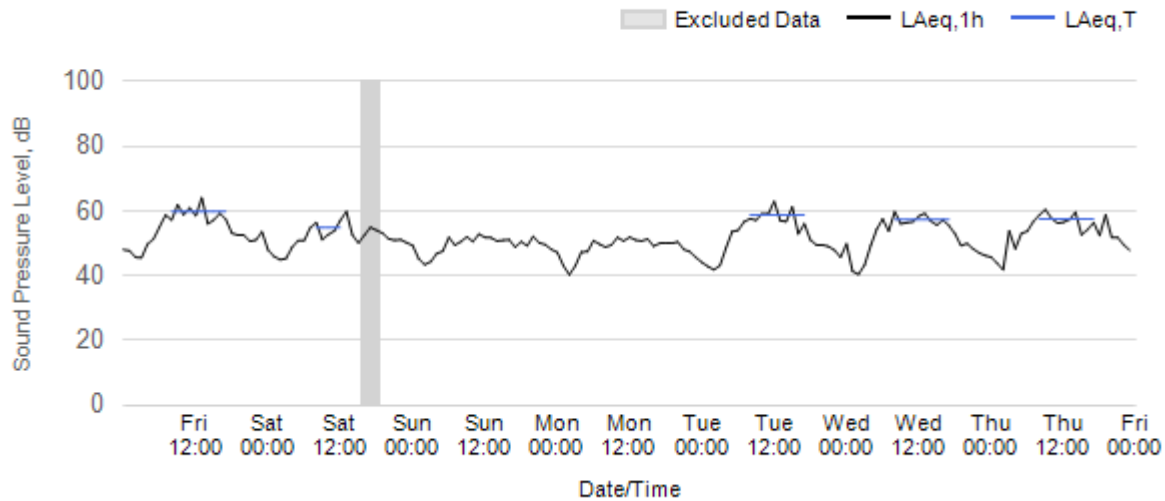


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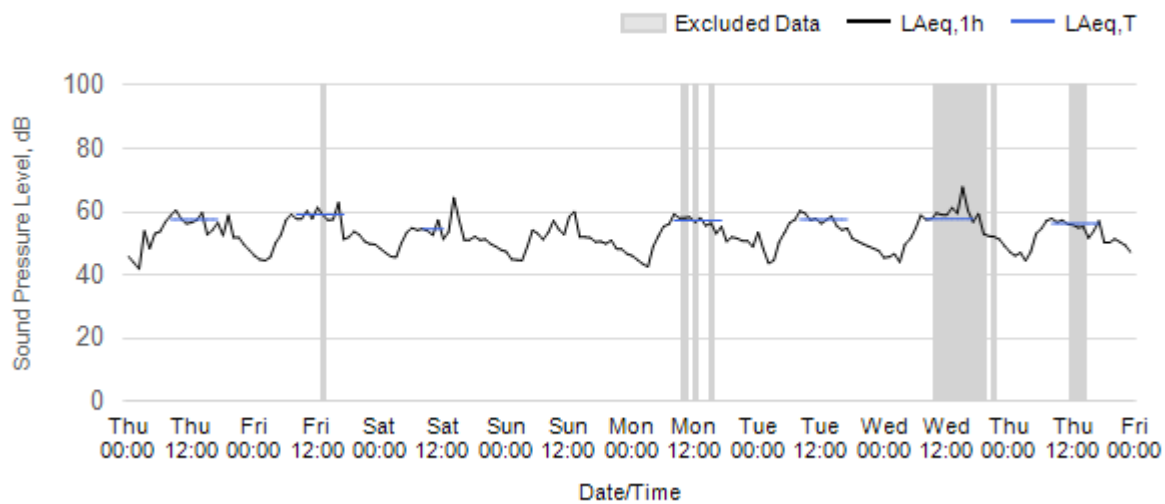


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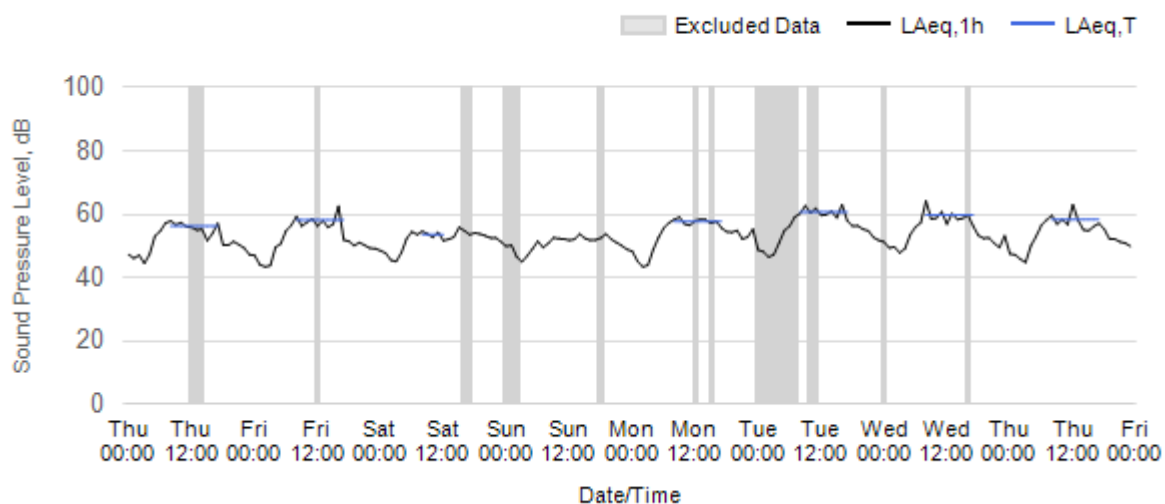
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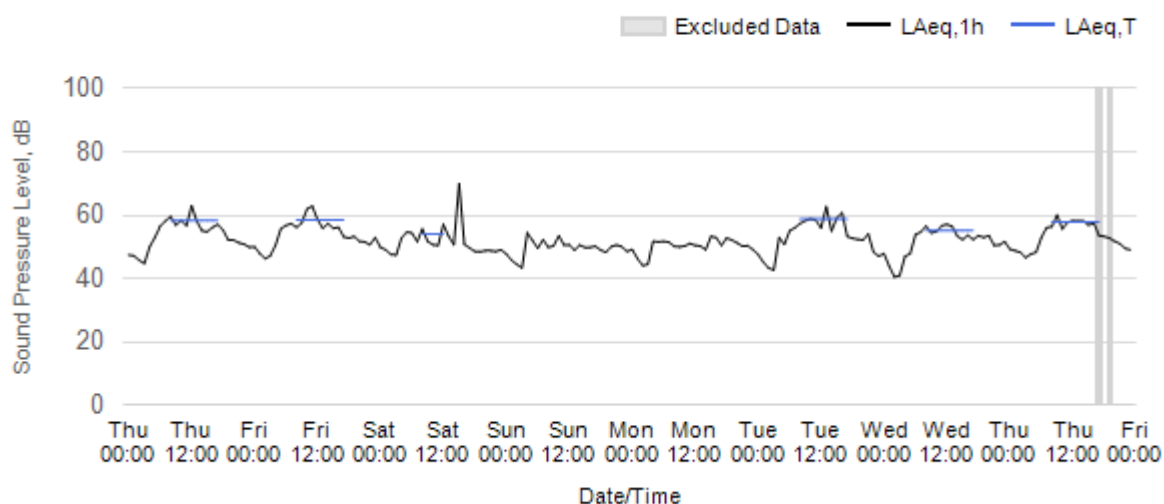
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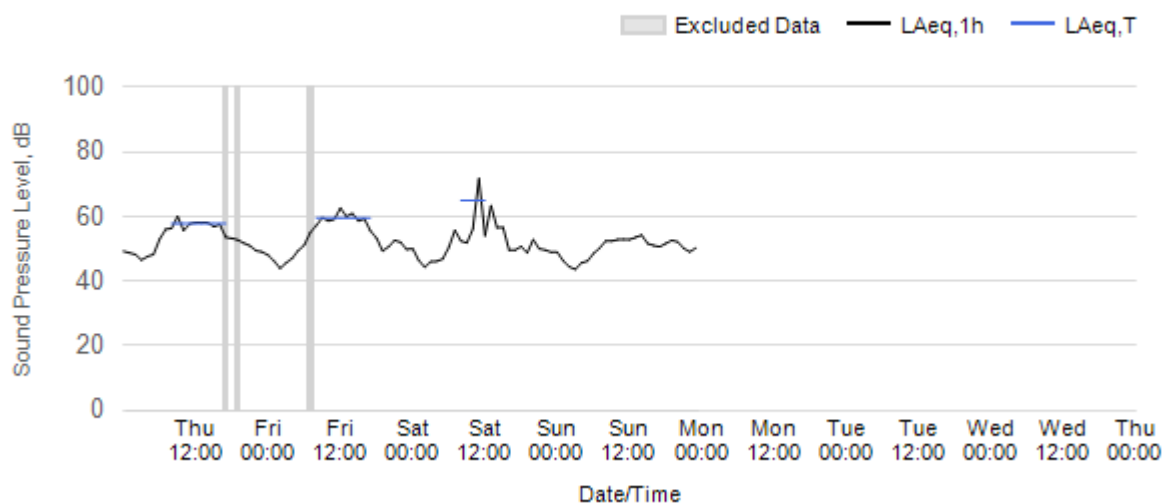
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**Worksite: WRP Monitoring Ref: N048 22 May 2026 to 28 May 2026**



**Worksite: WRP Monitoring Ref: N048 29 May 2026 to 4 June 2026**



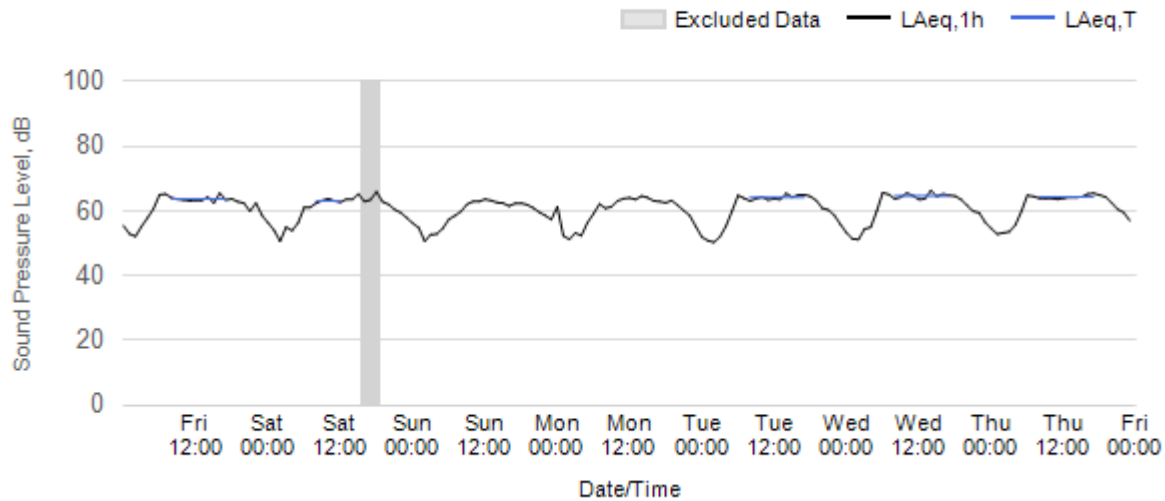
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Note: No data measured throughout the month due to a loss of power at the monitoring station

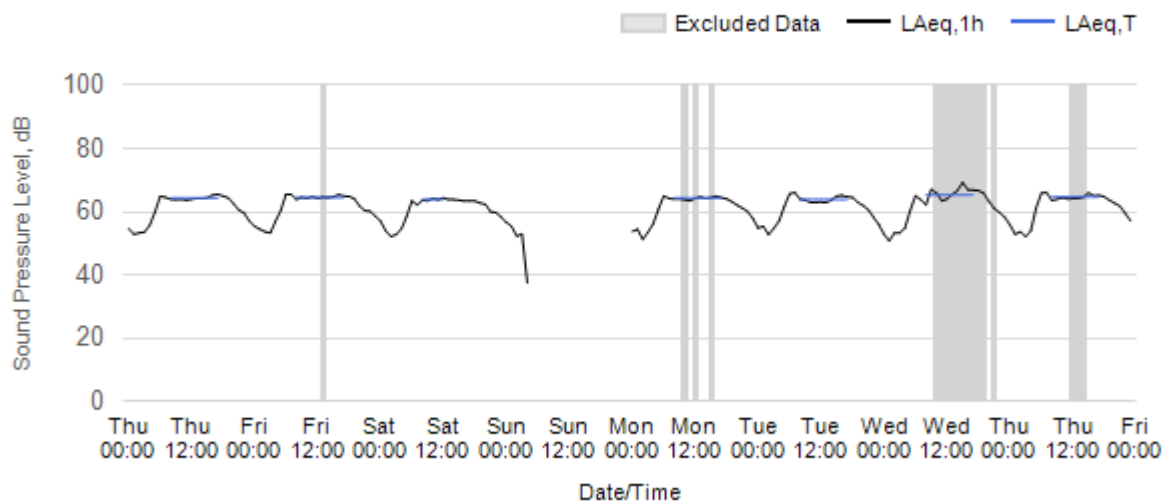


## Worksite: HR - Monitoring Ref: SSPA-N001

Worksite: G1 Monitoring Ref: SSPA-N001 01 May 2026 to 07 May 2026

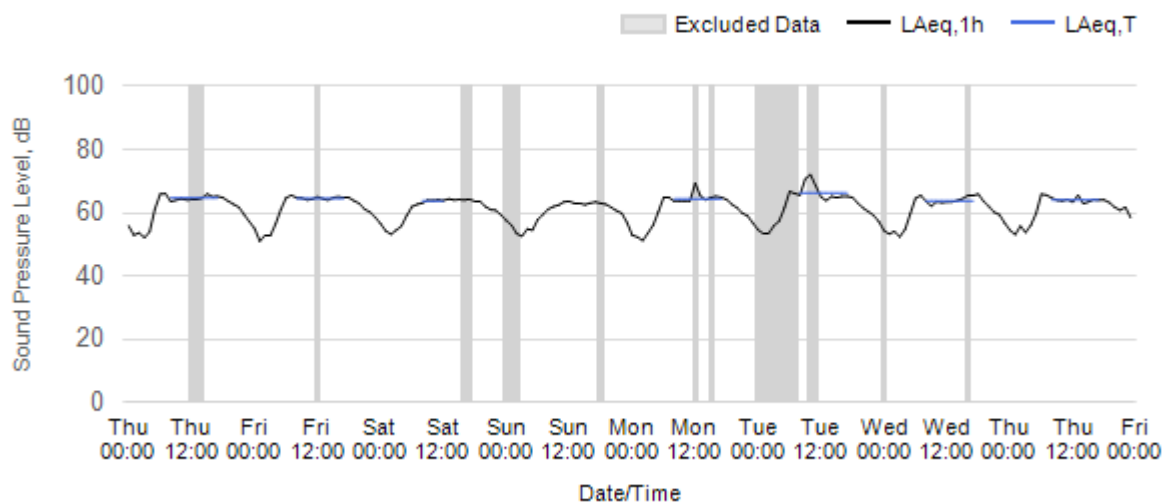


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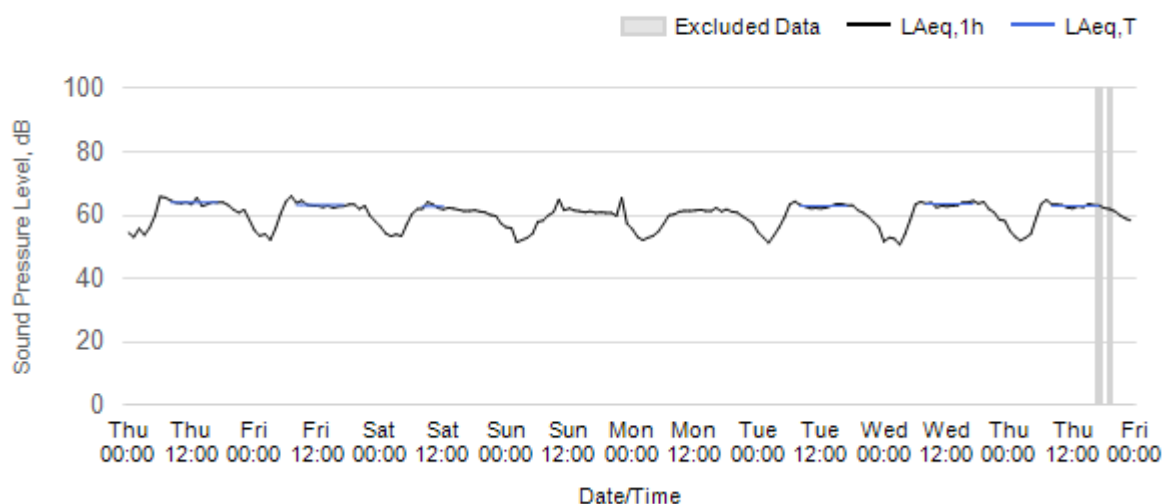


Note: Missing data was due to a communication error with the monitor

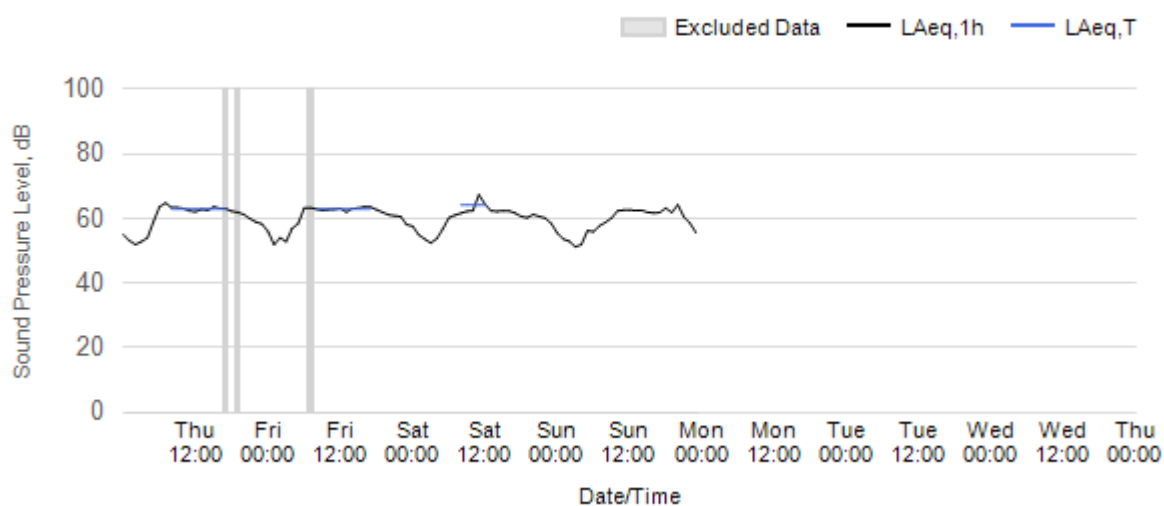
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**Worksite: G1 Monitoring Ref: SSPA-N001 22 May 2026 to 28 May 2026**

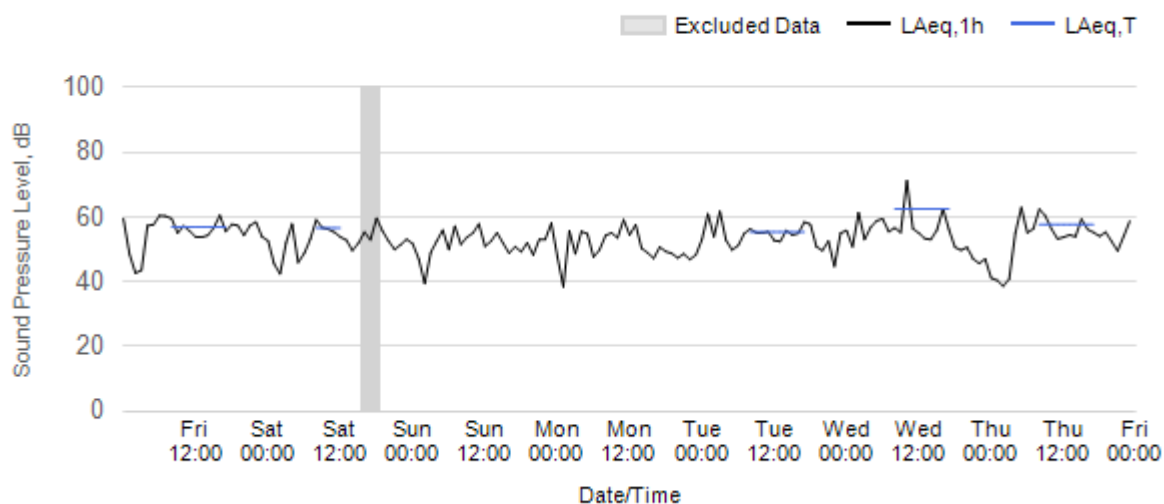


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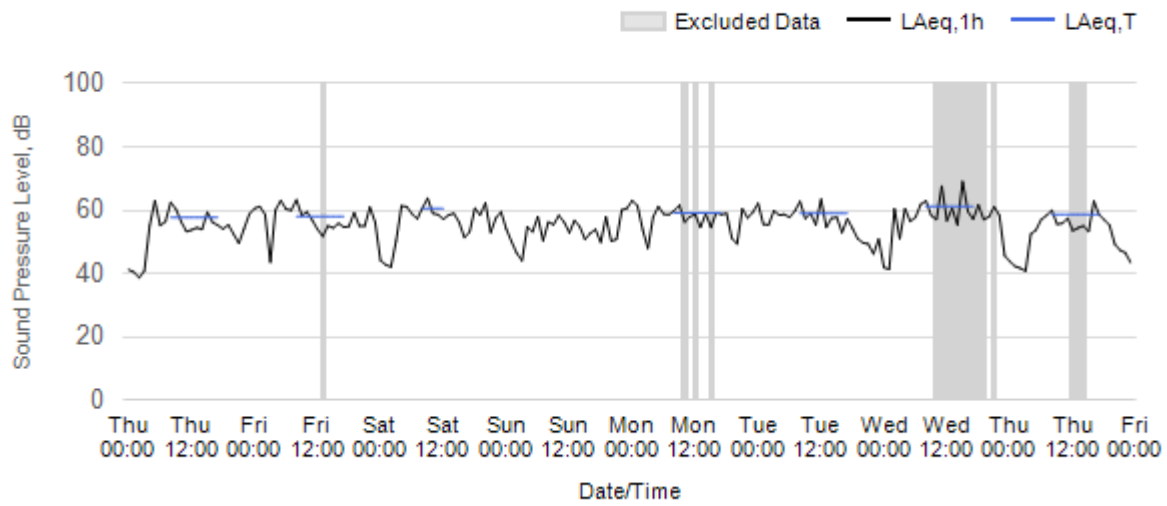


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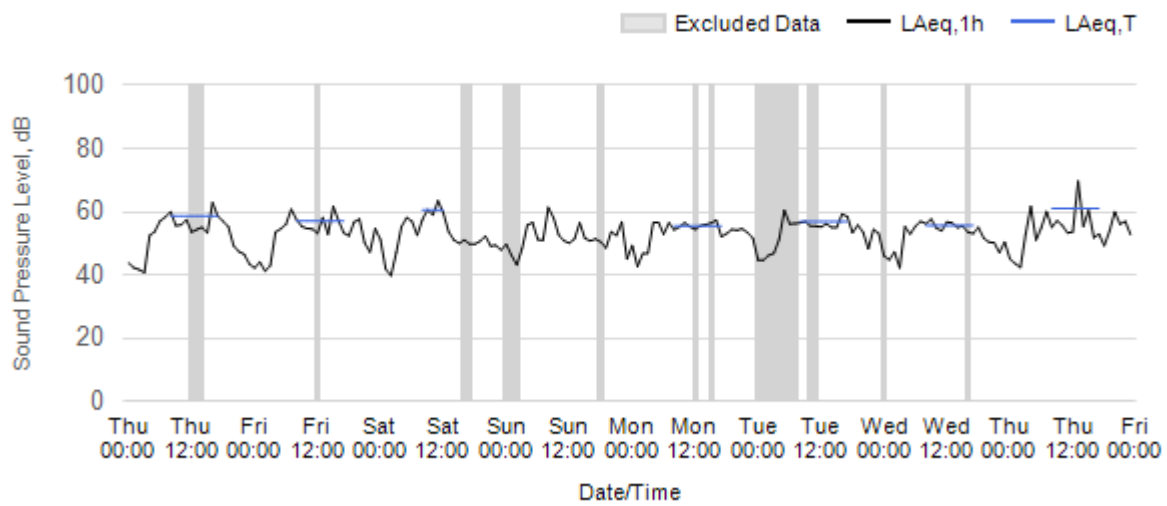
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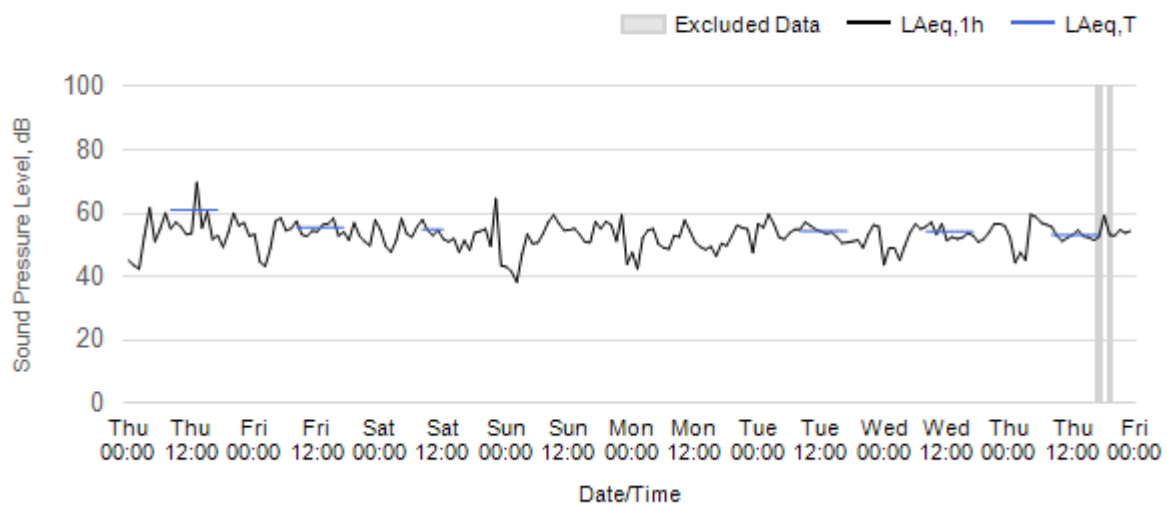
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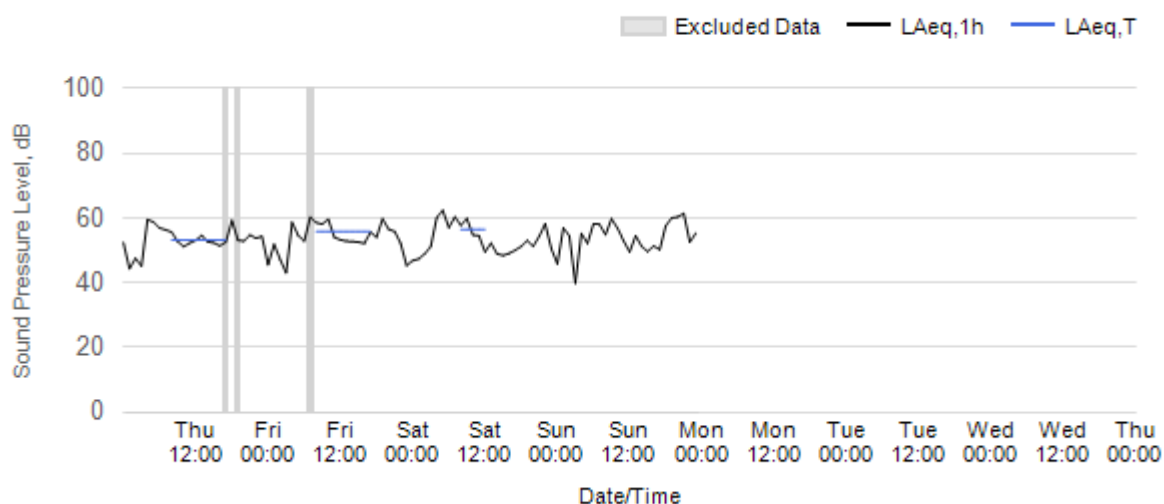
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**Worksite: G1 Monitoring Ref: N067 22 May 2026 to 28 May 2026**



**Worksite: G1 Monitoring Ref: N067 29 May 2026 to 4 June 2026**

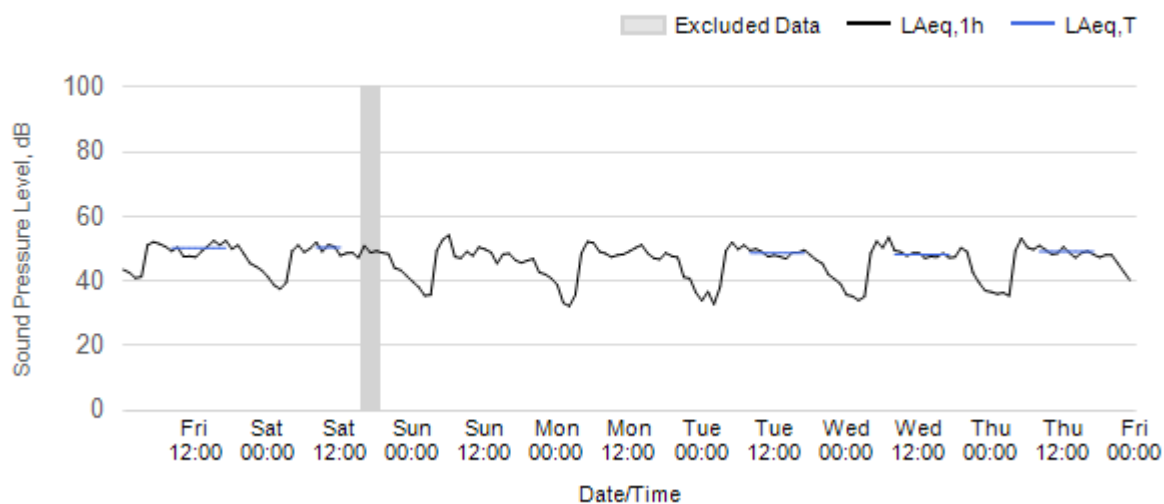


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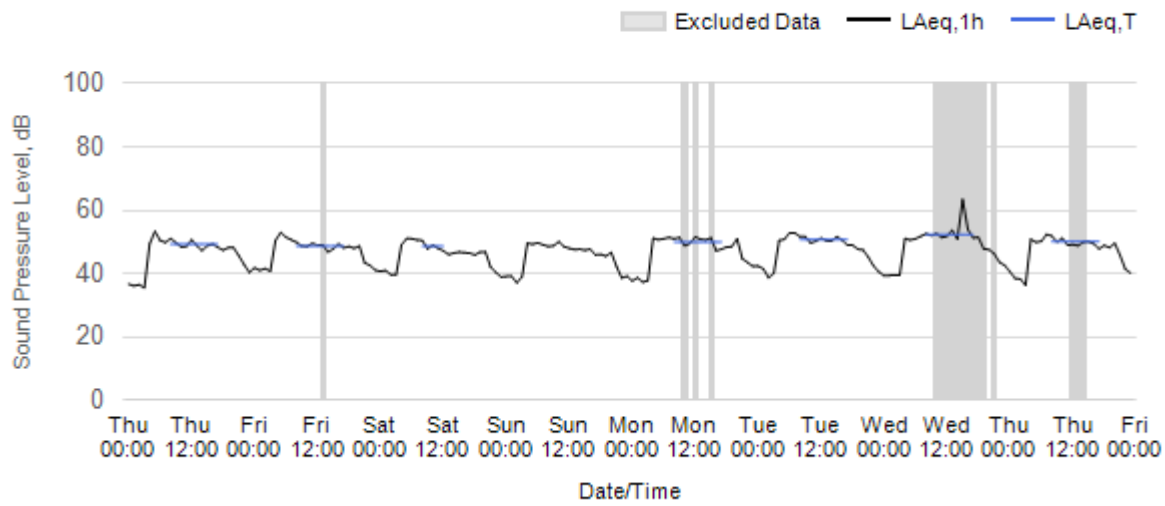
Note: No data measured throughout the month due to a fault with the monitoring station

**Worksite: BR - Monitoring Ref: TKL-N001**

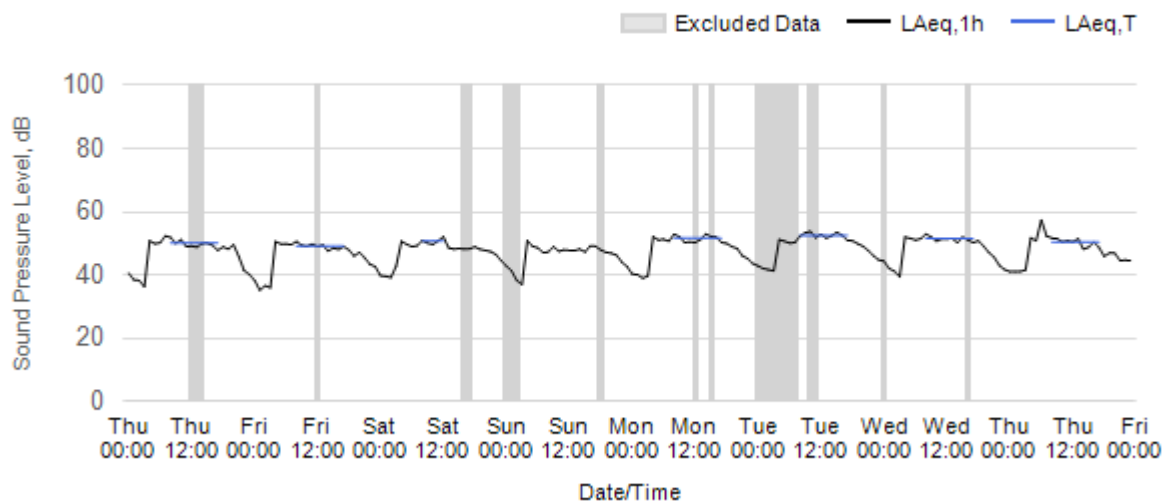
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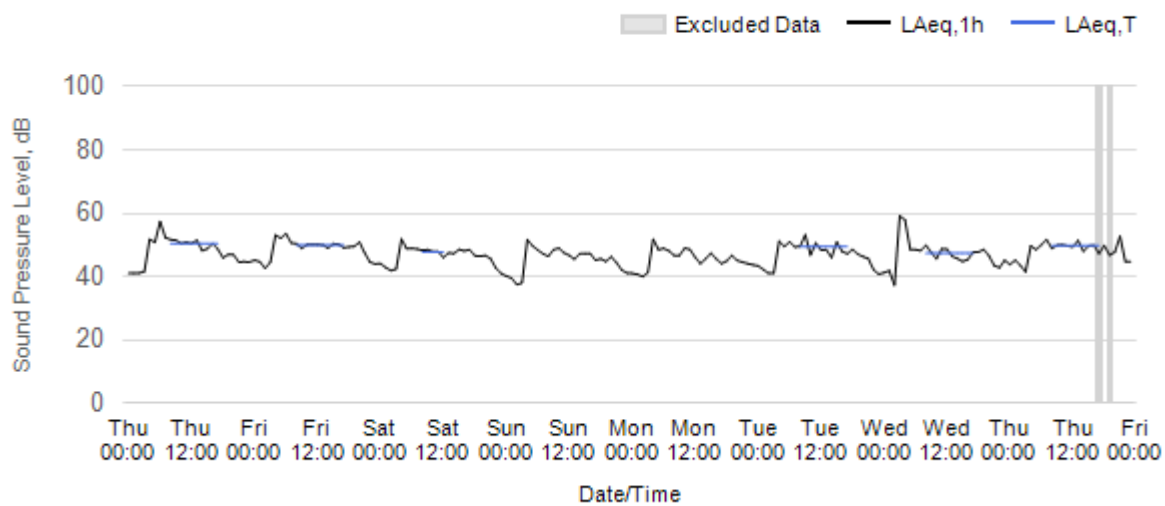
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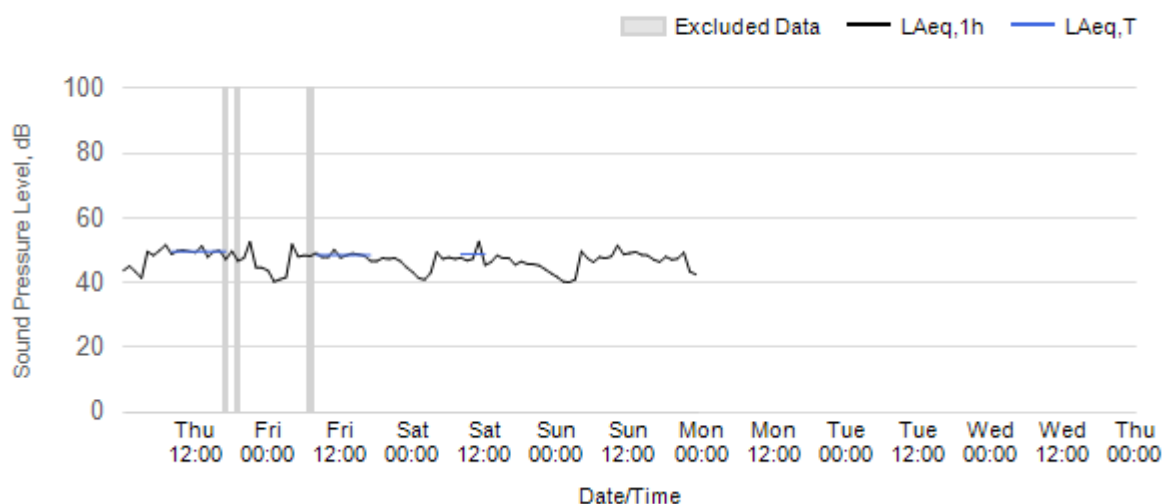
**Worksite: BR Monitoring Ref: TKL-N001 15 May 2026 to 21 May 2026**



**Worksite: BR Monitoring Ref: TKL-N001 22 May 2026 to 28 May 2026**

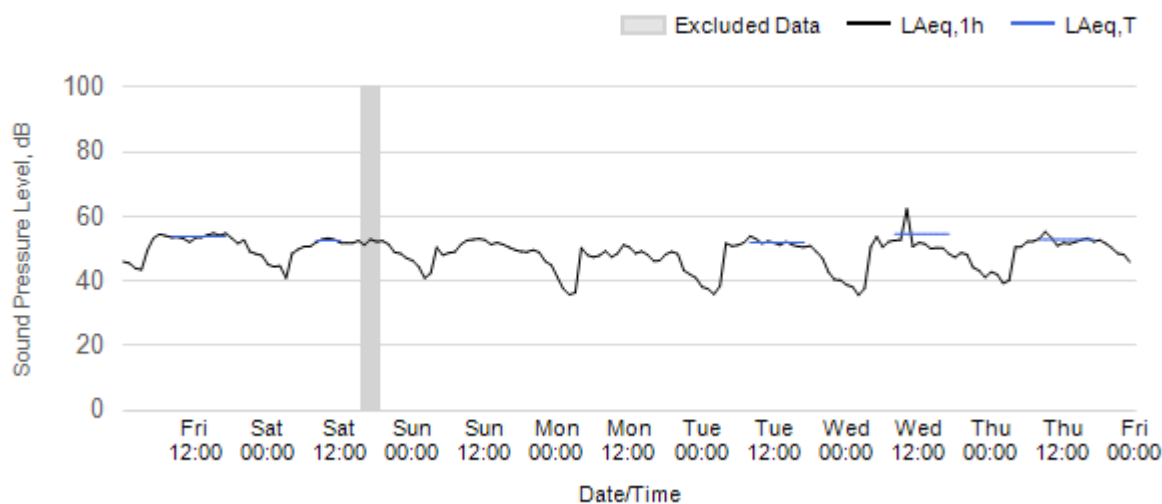


**Worksite: BR Monitoring Ref: TKL-N001 29 May 2026 to 4 June 2026**

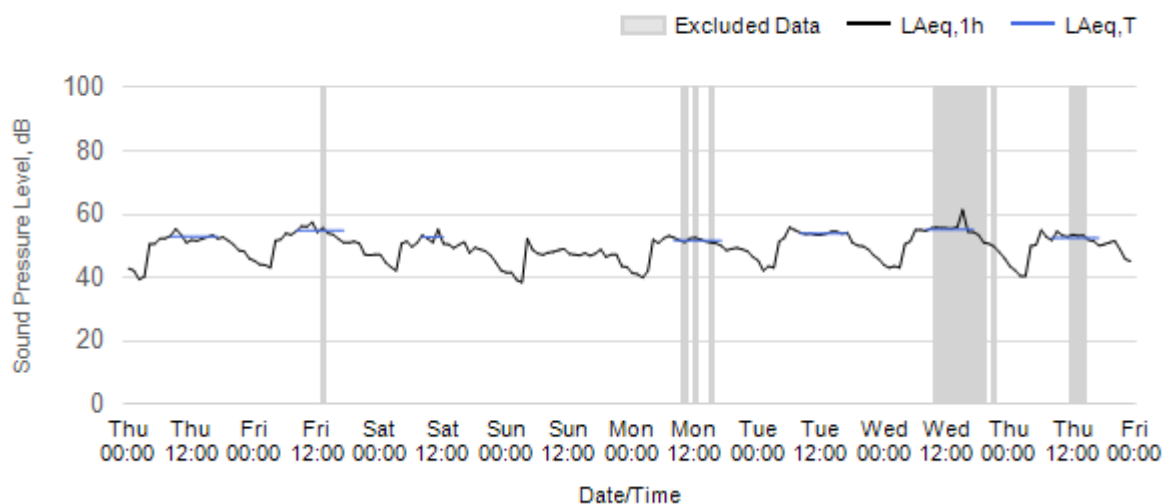


**Worksite: HR - Monitoring Ref: DGT-N001**

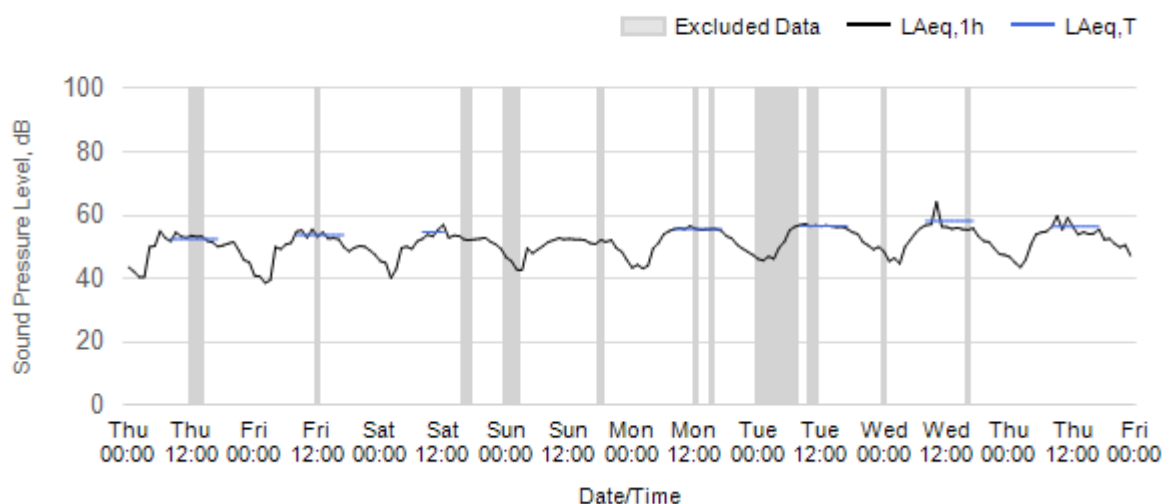
**Worksite: G2 Monitoring Ref: DGT-N001 01 May 2026 to 07 May 2026**



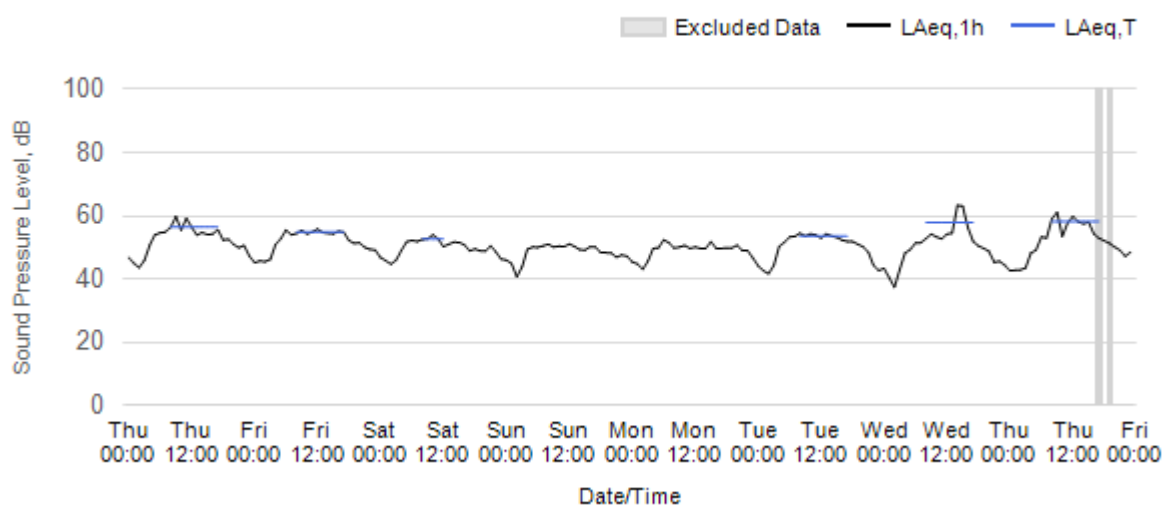
**Worksite: G2 Monitoring Ref: DGT-N001 08 May 2026 to 14 May 2026**



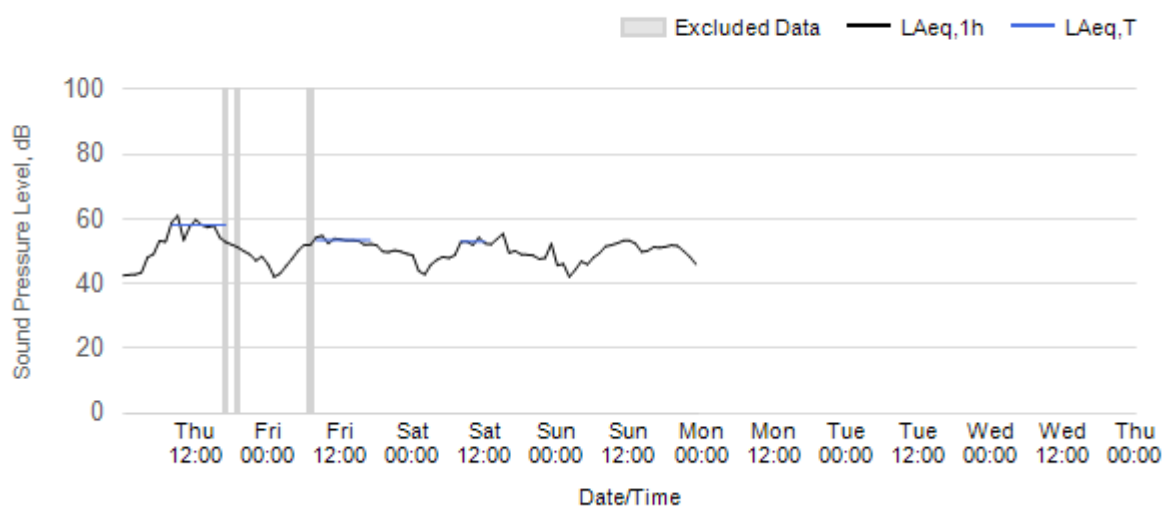
**Worksite: G2 Monitoring Ref: DGT-N001 15 May 2026 to 21 May 2026**



**Worksite: G2 Monitoring Ref: DGT-N001 22 May 2026 to 28 May 2026**



**Worksite: G2 Monitoring Ref: DGT-N001 29 May 2026 to 4 June 2026**



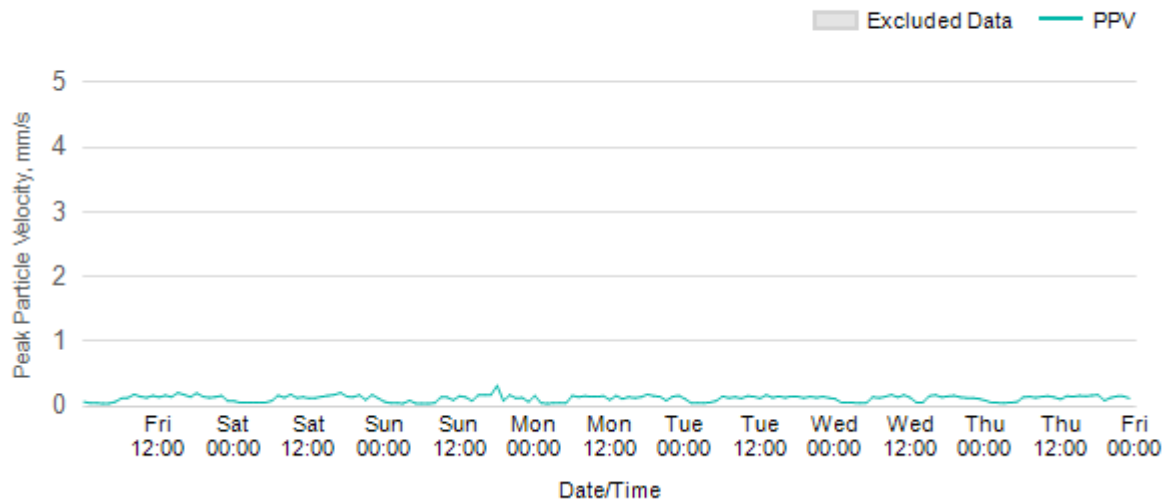


## Vibration

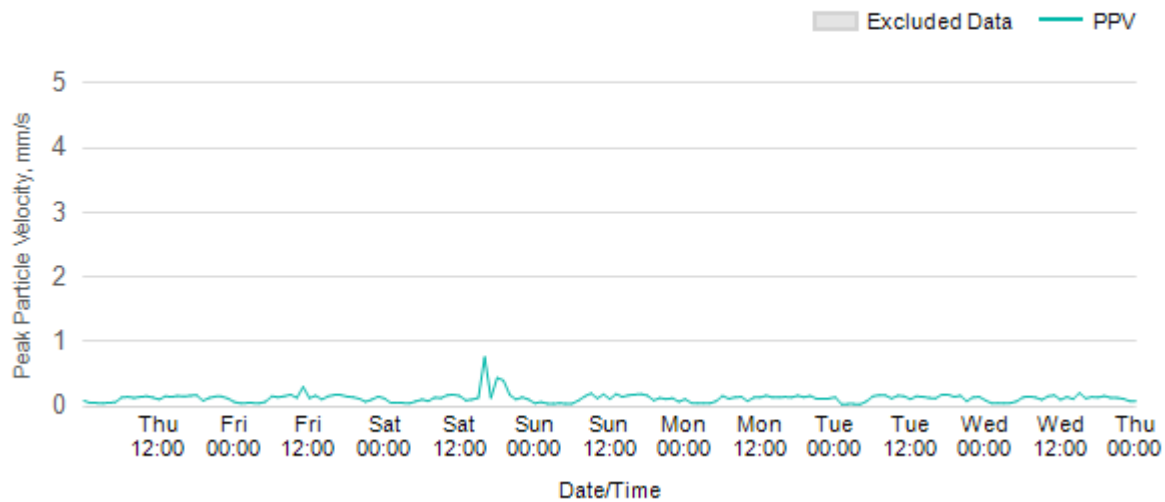
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which 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: BR - Monitoring Ref: HC-V002

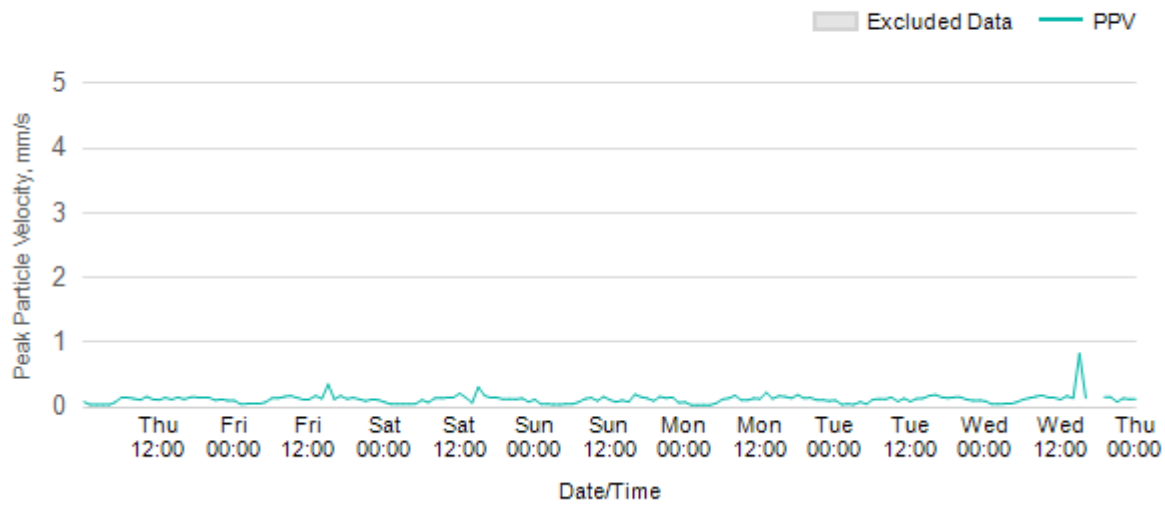
Worksite: BR Monitoring Ref: HC-V002 01 May 2026 to 07 May 2026



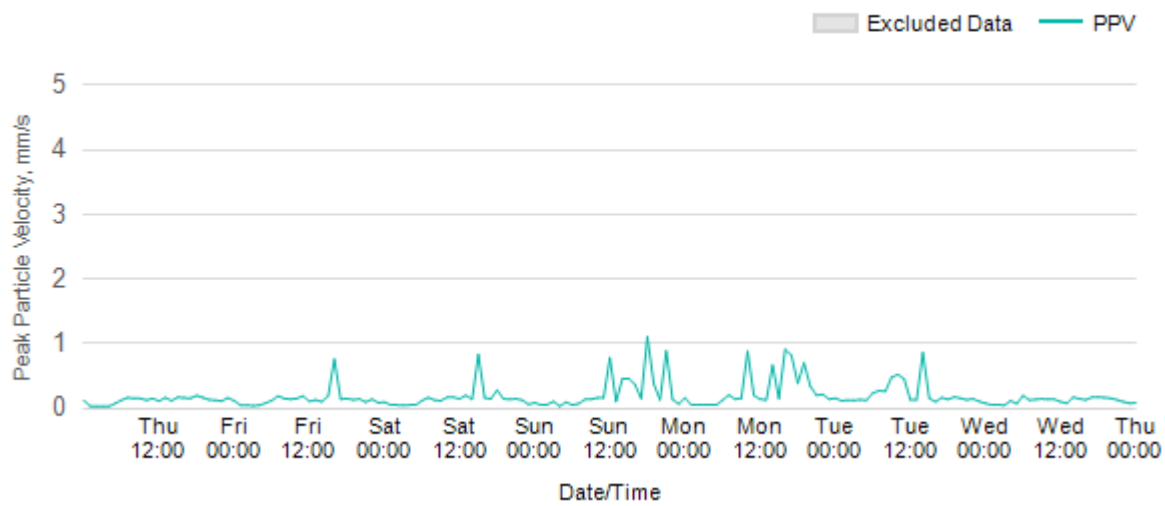
Worksite: BR Monitoring Ref: HC-V002 08 May 2026 to 14 May 2026



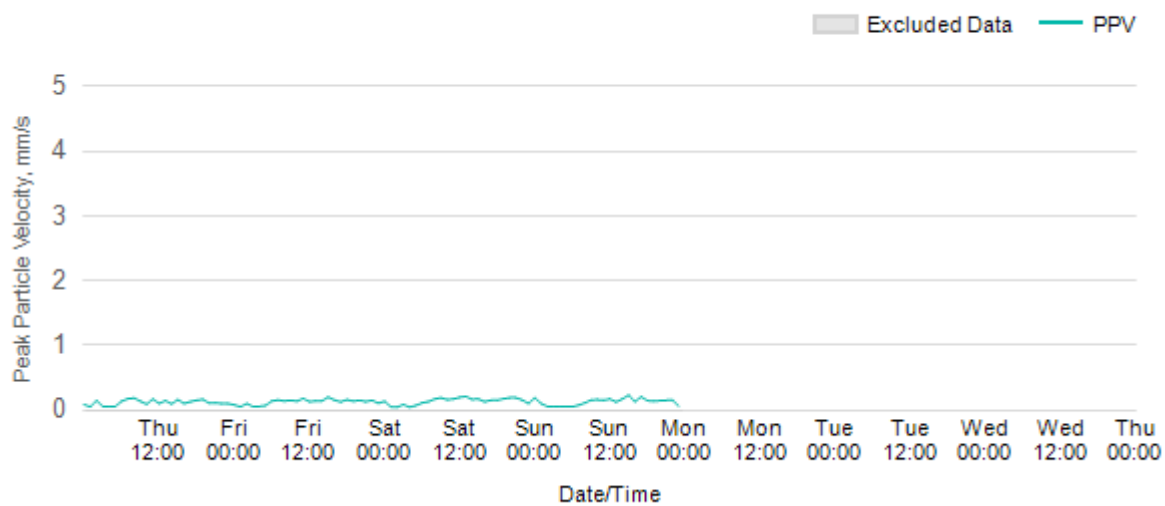
Worksite: BR Monitoring Ref: HC-V002 15 May 2026 to 21 May 2026



Worksite: BR Monitoring Ref: HC-V002 22 May 2026 to 28 May 2026

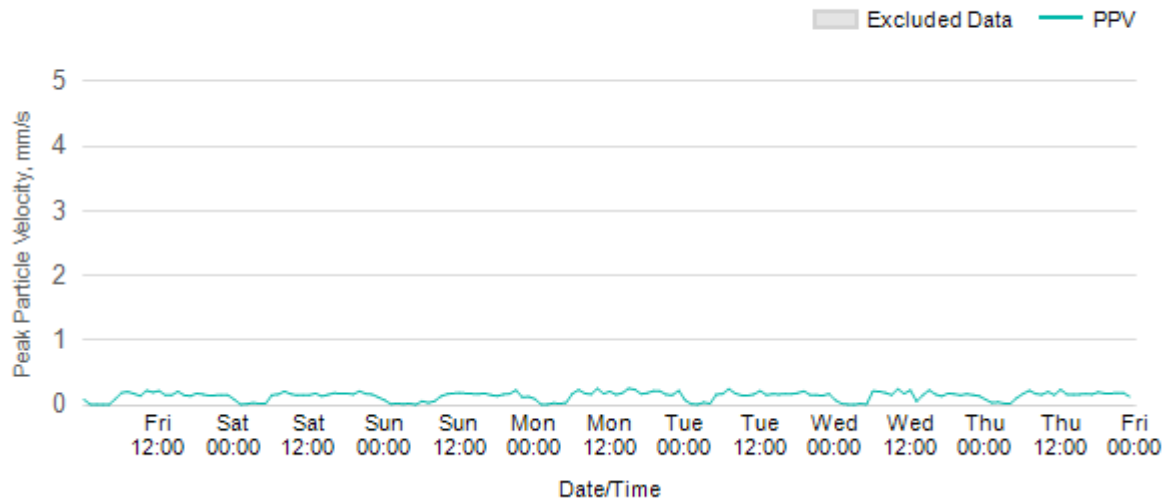


Worksite: BR Monitoring Ref: HC-V002 29 May 2026 to 4 June 2026

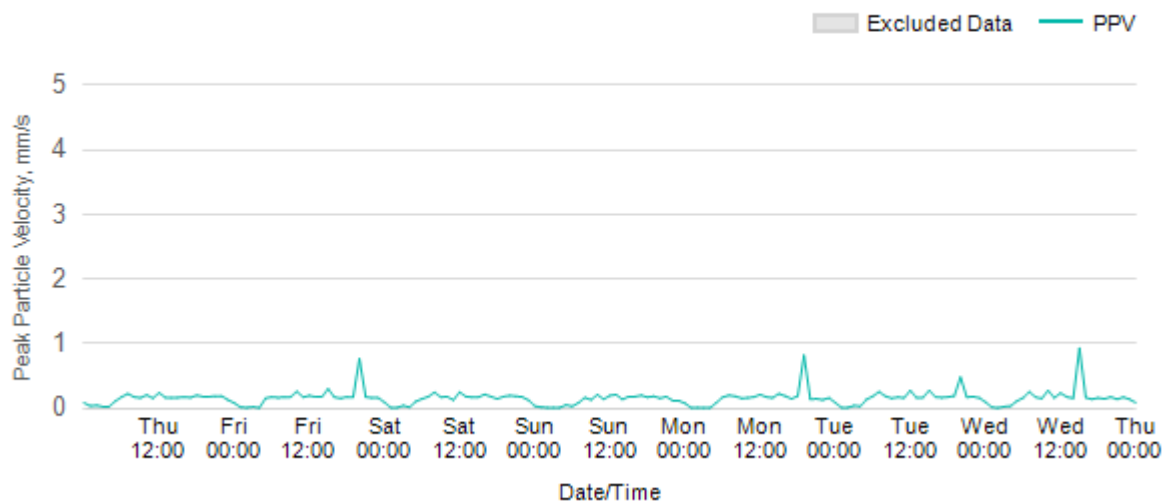


## Worksite: WRP - Monitoring Ref: GW-V001

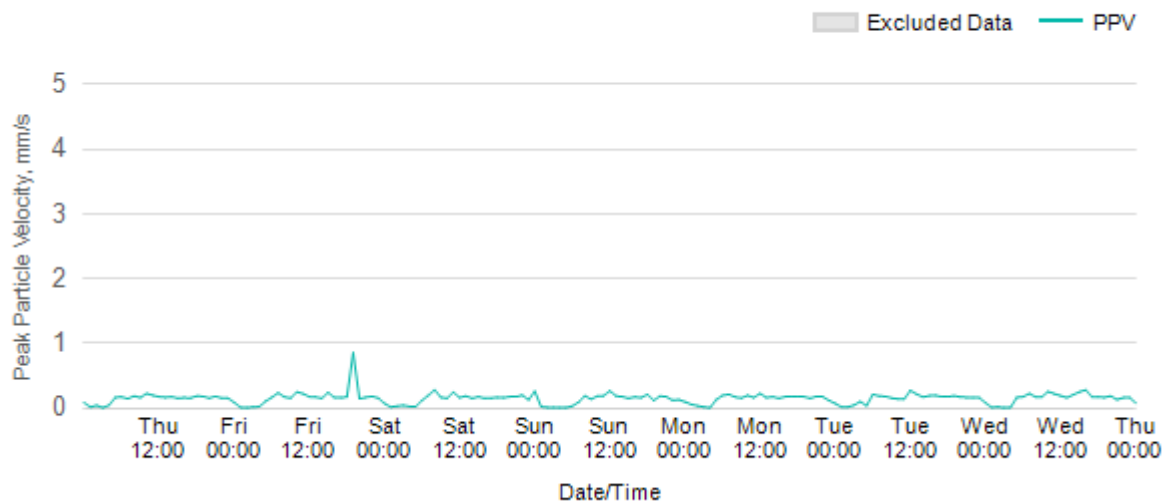
Worksite: WRP Monitoring Ref: GW-V001 01 May 2026 to 07 May 2026



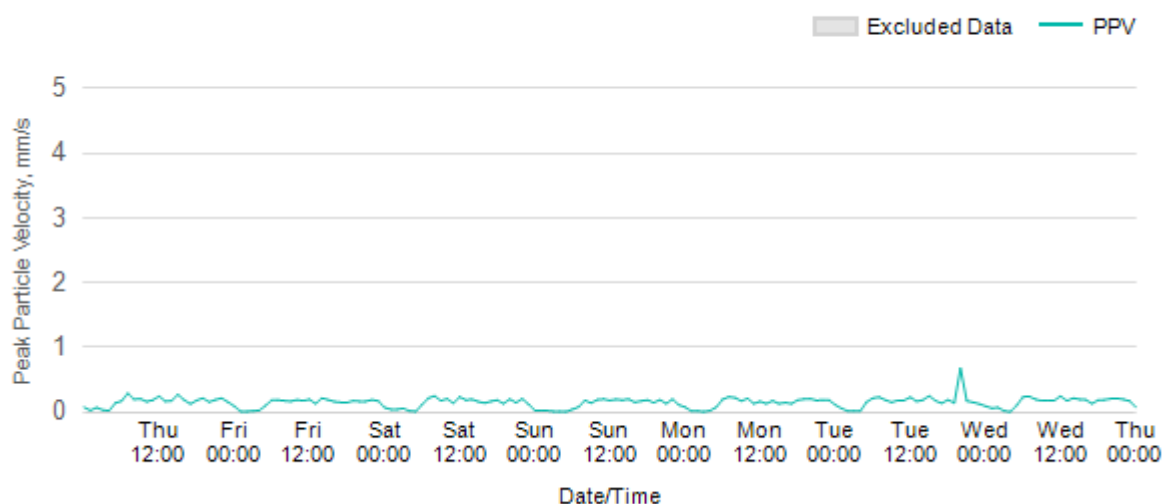
Worksite: WRP Monitoring Ref: GW-V001 08 May 2026 to 14 May 2026



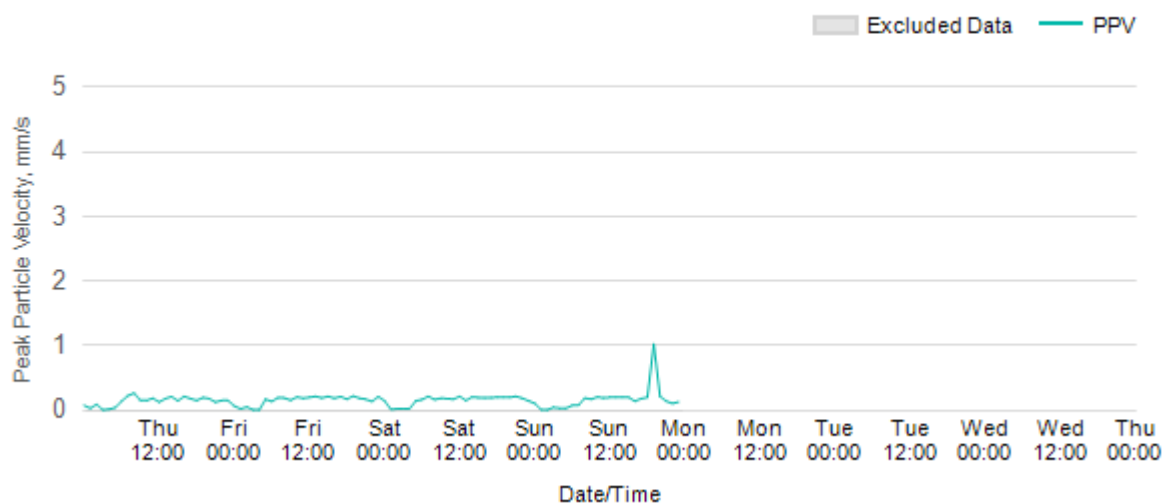
Worksite: WRP Monitoring Ref: GW-V001 15 May 2026 to 21 May 2026



Worksite: WRP Monitoring Ref: GW-V001 22 May 2026 to 28 May 2026

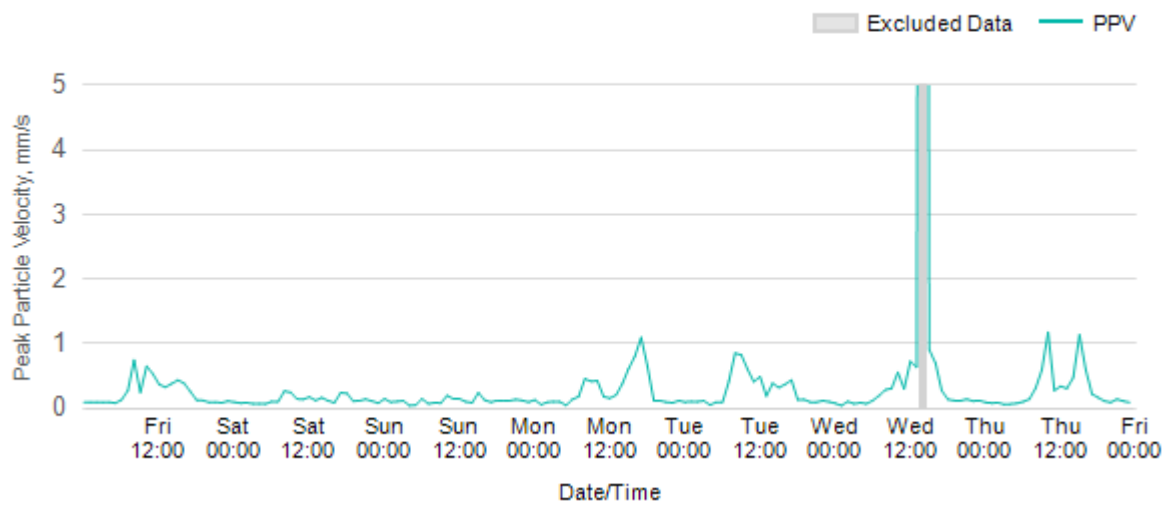


Worksite: WRP Monitoring Ref: GW-V001 29 May 2026 to 4 June 2026

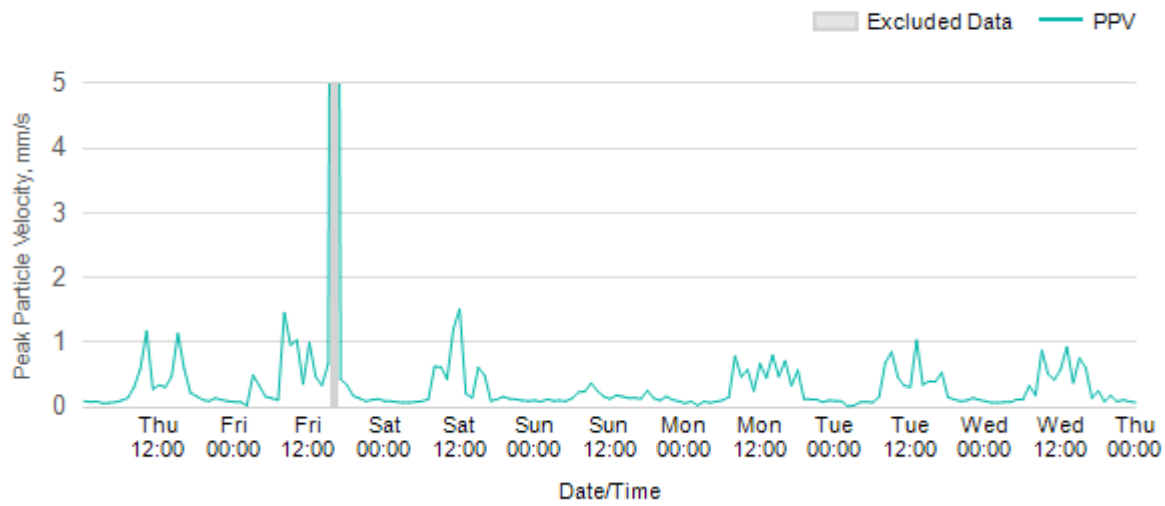


## Worksite: SRVS - Monitoring Ref: SRVS-V001a

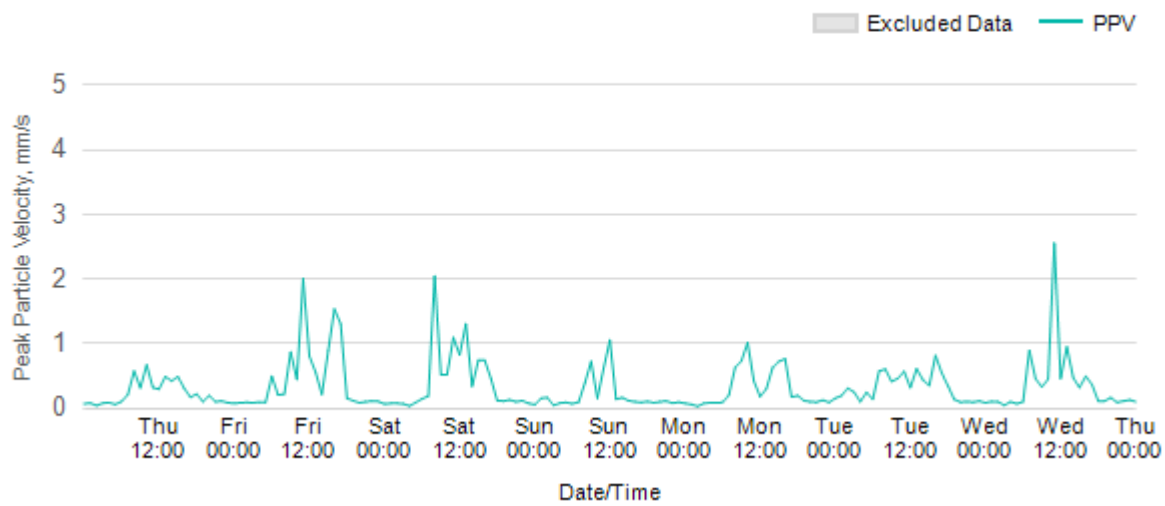
Worksite: SRVS Monitoring Ref: SRVS-V001a 01 May 2026 to 07 May 2026



Worksite: SRVS Monitoring Ref: SRVS-V001a 08 May 2026 to 14 May 2026



Worksite: SRVS Monitoring Ref: SRVS-V001a 15 May 2026 to 21 May 2026



Worksite: SRVS Monitoring Ref: SRVS-V001a 22 May 2026 to 28 May 2026

