

## Orora Pty Ltd

### B9 Paper Mill – EPL Compliance Quarterly noise monitoring report



20 March 2017

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Orora Pty Ltd  
B9 Paper Mill - EPL Compliance

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## Glossary

Acoustic and vibration related terms:

- **Acoustic Spectrum:** A representation of a sound sample (usually short term) of the amount of energy or sound level per frequency.
- **Ambient Noise:** Ambient noise encompasses all sound present in a given environment, being usually a composite of sounds from many sources near and far.
- **dB(A):** A unit of sound measurement which has frequency characteristics weighted so that it approximates the response of the human ear to sound waves
- **Heavy Vehicle:** A truck, transport or other vehicle with a gross vehicle weight above a specified level (for example: over 8 tonnes)
- **L<sub>A90</sub>:** Is the noise level that is exceeded 90 per cent of the measurement time. This parameter is commonly referred to as the background noise level
- **L<sub>Aeq</sub>:** Noise level that represents the energy average noise from the source during a specified time period, and is the equivalent continuous sound pressure level for a given period
- **L<sub>Aeq(15hr)</sub>:** The Leq noise level for the period from 7 am to 10 pm.
- **L<sub>Aeq(9hr)</sub>:** The Leq noise level for the period from 10 pm to 7 am.
- **NCA:** Noise Catchment Area. Grouping dwellings or receivers together in terms of similar noise environment.
- **Noise barrier:** Generally a wall or an earth mound that obstructs or restricts the passage of sounds waves from a noise source
- **Noise Logger:** A data logging (data and audio in some cases) which records noise. Usually used for unattended noise monitoring of background or ambient noise.
- **NML:** Noise Management Level as detailed in the NSW Interim Construction Noise Guideline. The NML is the noise goal for construction activities.
- **Octave Bands:** Sounds that contain energy over a wide range of frequencies are divided into sections called bands. A common standard division is in 10 octave bands identified by their center frequencies 31.5, 63, 250, 500, 1000, 2000, and 4000 Hz
- **RBL:** Rating Background Level is the overall single figure background level representing each assessment period over the whole monitoring period. The RBL is used for determining the appropriate construction noise criteria.
- **RNP:** Road Noise Policy (OEH, 2011)
- **Sound Level Meter:** An instrument consisting of a microphone, amplifier and data analysis package for quantifying and measuring noise.
- **Sound Power Level (L<sub>w</sub>):** Sound power level or acoustic power level is a logarithmic measure of the sound power in comparison to a specified reference level.
- **Sound Pressure Level (SPL or L<sub>p</sub>):** The level of noise, usually expressed in dB(A), as measured by a standard sound level meter.

## 1. Introduction

### 1.1 Background

ORORA Packaging operates the B9 Paper Mill at its Botany site in Sydney, NSW. The Paper Mill is subject to operational noise conditions set out in the Ministers Conditions of Approval (MCoA) (including subsequent modifications) and the Environment Protection Licence (EPL) No. 1594.

As part of the EPL, there is a requirement to undertake quarterly monitoring at receivers surrounding the site to show compliance with set noise limits. At the time of preparing this report, the B9 paper machine has been in use for over 4 years and is currently operating at typical production capacity. Traffic currently accesses the site via Botany Road with product trucks and delivery vehicles exiting the site via McCauley Road as per the site traffic plan.

Recent modifications to the site layout include the demolition of the remains of the old B5 building, and construction of a new waste water treatment plant. Also a large warehousing development on the boundary of the site at the corner of McCauley Street and Australia Avenue has been recently completed. This new development has significantly changed the acoustic environment for receivers directly north of the site by shielding noise sources in the south including Orora, the Port, and Botany Road.

The B7 paper machine building, scheduled for demolition, remains *in situ*.

### 1.2 Objective

This report addresses operational licence conditions relating to measurements of the quarterly monitoring of the noise environment around the Orora site, ie Condition M6.1 and M6.2 of EPL 1594. These require:

- M6.1 The licensee must undertake noise monitoring at least once every three months to check compliance with the noise limits specified in Condition L4.1.
- M6.2 All monitoring required by this licence must be undertaken in accordance with Australian Standard 2659.1 – 1998: Guide to the use of sound measuring equipment – Portable sound level meters, or any revisions of that standard which may be made by Australian Standards Authority, and the compliance monitoring guidance provided in the NSW Industrial Noise Policy.

### 1.3 Operational noise limits

Operational noise limits for the new Orora Paper Mill are detailed in condition L4.1 of EPL 1594 and Condition 10 of the MCoA. These have been replicated in **Table 1**.

**Table 1 Operational noise limits**

ID	Location	Day	Evening	Night	Night
		L <sub>Aeq,15min</sub> , dB(A)	L <sub>Aeq,15min</sub> , dB(A)	L <sub>Aeq,15min</sub> , dB(A)	L <sub>Amax</sub> , dB(A)
R1	Corner of McCauley Street and Australia Avenue	46	45	43	55
R2	Australia Avenue	45	45	43	55
R3	Murrabin Avenue	46	45	43	55
R4	Partanna Avenue	42	41	41	55
R5	Corner of Partanna Avenue and Moorina Avenue	42	42	39	55
R6	Moorina Avenue	43	43	39	55

## 2. Existing environment

The site is located within a predominantly industrial area having residential properties located to the north and at the north eastern boundary, as illustrated in Figure 1. The local noise environment beyond the Orora boundary varies throughout the day depending on the contribution of sources such as high traffic volume and heavy vehicles using Botany Road, aircraft noise, port noise, local businesses on McCauley Road, and local traffic.

Meteorological conditions also play an important role in the propagation of noise due to the site location near the coast. These conditions include strong drainage flows for wind direction and also temperature inversions during the winter months.

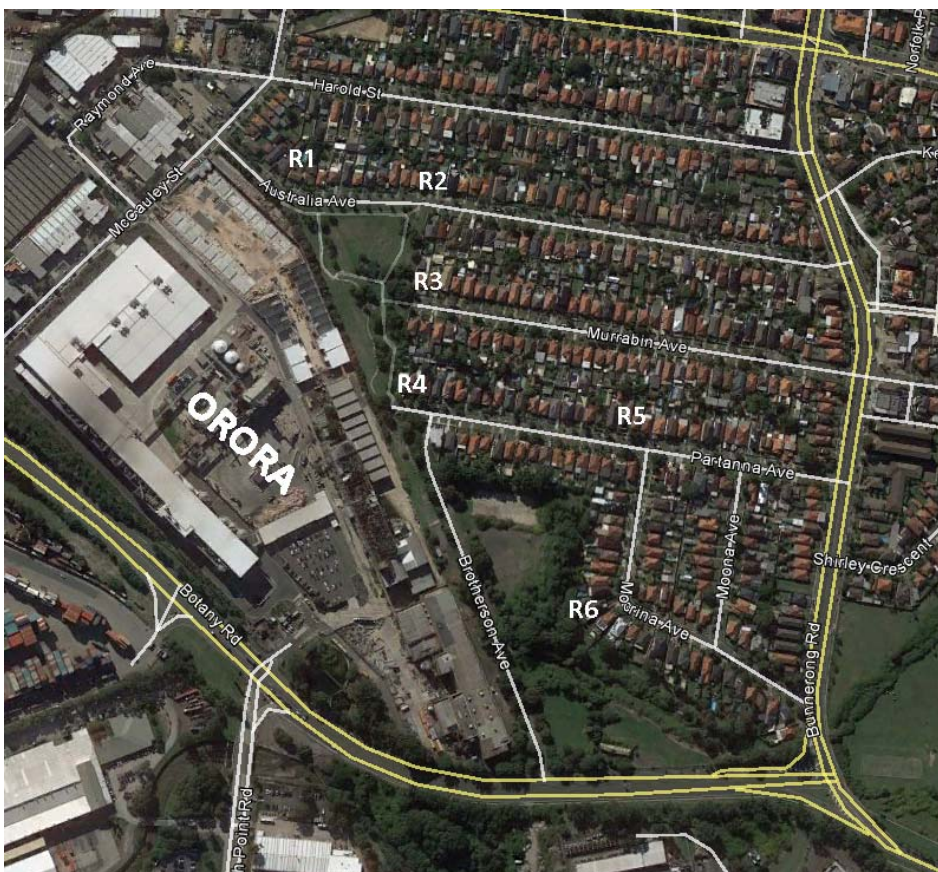
Local weather effects on noise propagation due to seasonal variations are also becoming apparent in the long term trend data for the area. Section 3 of this report presents historical and current noise levels from the quarterly compliance monitoring.

### 2.1 Monitoring limitations

Total measured noise levels at monitoring locations are only partly due to Orora site operations. Direct monitoring of Orora noise emissions over several years has demonstrated that specific contribution from Orora cannot be provided with any certainty, mainly due to the multitude of audible sources adjacent to the site.

### 2.2 Receiver locations

The EPL specifies six locations for quarterly monitoring. These are illustrated in **Figure 1** and described further in **Table 2**.



**Figure 1 Site location and compliance monitoring locations (Source: Google Maps 2016)**

**Table 2 Description of monitoring locations**

Monitoring location	Description
R1	This location has a large degree of acoustic shielding from local noise sources due to the recent development of a warehousing facility on the corner of McCauley Avenue and Australia Avenue. The noise environment at this location is heavily influenced by traffic on McCauley Street, Perry Street and Beauchamp Road. Local industrial noise from Raymond Avenue is also audible during the day and night time. Some construction work was in progress at the property during the monitoring period.
R2	This receiver is located opposite the bottom apex of the Purcell Park on Australia Avenue. At this location the residents have a clear line of sight to the paper mill. Noise walls have less effectiveness for the residences due to the large separation distances. Noise from port activities also has less shielding from the Orora site. Background noise levels are heavily dominated by road traffic noise from all sources.
R3	The receivers at Partanna Avenue are physically closest to the Orora site but have the benefit of significant shielding of operational activities from the B7 paper machine building and the No. 7 reel store. Road traffic noise contributes to background noise for this receiver. Some construction work was in progress at the property during the monitoring period.
R4	Furthest location from the Orora site, a higher degree of influence from Botany Road, Bunnerong Road and the port. Noise from the Orora site is generally inaudible at this location although significant noise from the Orora site has been observed here during adverse meteorological conditions. Some construction activity was noted at the adjacent property during the monitoring period.
R5	In this location receivers are well shielded from operational noise from the Orora site due to the presence of the redundant No. 7 and No. 8 paper machine buildings. Noise levels at this location are heavily influenced by local bird colonies, port noise, traffic on Botany road and traffic on Bunnerong Road.
R6	In this location receivers are well shielded from operational noise from the Orora site due to the presence of the redundant No. 7 and No. 8 paper machine buildings. Noise levels at this location are heavily influenced by local bird colonies, port noise, traffic on Botany road and traffic on Bunnerong Road.



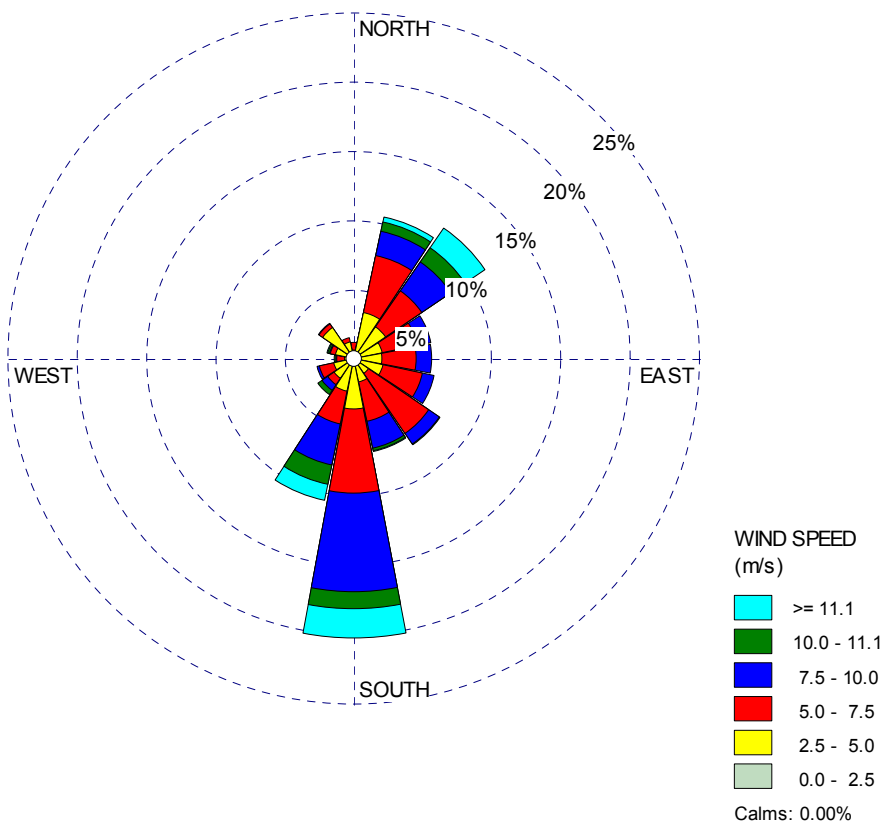
### 3. Operational noise monitoring

#### 3.1 Method

Operational noise monitoring for the February monitoring period between 13 and 22 February 2017, using automatic noise loggers deployed at five representative locations. One site was not accessible due to construction activities within the property.

Monitoring was performed using Acoustic Research Laboratories brand Ngara Type 1 noise loggers, set to A-weighting, fast-response, and recording noise levels continuously over consecutive 24 hour periods at each location.

Weather conditions during the noise survey were obtained from the Automatic Weather Station (AWS) maintained by the Bureau of Meteorology at Sydney Airport. Weather conditions for the monitoring period have been plotted showing daily trends in wind speed which are presented in Figure 2.



**Figure 2 Wind speed and direction during monitoring period (13February– 22 February 2017, source BoM 2017)**

The plotted data indicates that the wind direction during the monitoring period was dominated by winds from the south, which would tend to enhance noise from the paper mill at residences in Australia Avenue, directly north of the site. Other wind conditions from the north east and south east would tend to reduce the noise influence from the paper mill, but may enhance noise from Botany Road and Bunnerong Road. This profile would tend to enhance noise levels to the south of the site away from residential areas. Some westerly winds were present for about 20% of the monitoring time. Winds from this direction would tend to enhance noise levels in Partanna and Moorina Avenues during these times.



Overall, the average wind speeds were relatively high. Wind speeds during the monitoring period included about 65% of measured velocities above 5 m/s.

### 3.2 Monitoring results

The results of long term monitoring have been graphed and are shown in Appendix A. The parameters of  $L_{Aeq}$  and  $L_{A90}$  are used to provide information for comparison against the project criteria and the background noise environment.

The recent round of monitoring for February 2017 was affected by 2 site logger outages resulting in only a few days of data, as well as the inability to access one of the long term monitoring sites at R4, Partanna Avenue. The inability to access the Partanna Avenue site is related to the recent listing for sale of the property with no suitable alternative for this site found prior to the survey. An alternative location will be organised for future monitoring surveys. Attended daytime monitoring has been used at this site as an interim measure.

The latest monitoring results are typical of previous studies, which have confirmed that audible sources within the residential areas adjacent to the Orora site represent a large variety of acoustic influences from the local area. These sources include the Orora operations, which are audible as a contribution to the general ambient noise levels.

The  $L_{Aeq}$  noise levels in the area are generally affected by extraneous noise sources such as traffic as well as being influenced to a degree by loud short-term noise such as birds, aircraft, and local heavy vehicle movements.

The Orora site itself has a noise profile consistent with plant and equipment that operate at more or less a steady state and therefore has little variability in noise emissions. This type of noise environment is most appropriately described using the  $L_{A90}$  statistical parameter, which has been presented in the results summary to be considered in conjunction with the  $L_{Aeq}$  noise level when assessing compliance of the Orora site.

It has previously been shown to be impractical to directly measure the contribution of Orora operational noise emissions when monitoring at nearby receiver locations. Evidence of this fact is provided where the measured  $L_{Aeq}$  noise levels are consistently above the EPL criteria, even when the Orora site is not operational.

The most recent round of compliance measurements provides an addition to the historical data collected for multiple round of compliance monitoring. This data includes measurements of the noise environment both with the Orora site operational and without. Table 3 presents the assessment background noise levels and the rating background noise levels from the February 2017 survey as well as the  $L_{Aeq}$ , 15 minute for each assessment period.

Observations during the survey period suggest that typical operations within the Orora site were not specifically audible in the general acoustic environment and was not a dominant noise source. The measured  $L_{Aeq}$  15 minute noise levels during the survey are above the EPL criteria for day evening and night during all modes of operations of the Orora site.

### 3.3 Comparison with previous monitoring surveys

An indicator of the contribution of Orora operational noise to existing noise levels may be made using background noise levels measured during both shutdown and operational conditions. During the night time-period, fewer extraneous noise influences are present providing lower overall noise levels in the area. Under these conditions constant noise sources such as Orora operations are more likely to be apparent in the background noise levels measured during this time noting that the emission levels from the site remain relatively constant throughout the day, evening, and night time.

The data in Figure 3-3 and Figure 3-4 provides a chronological progression of the noise data measured during shutdown and normal operations summarised for monitoring from 2012 to present. These results demonstrate the degree of variability in the noise environment at these locations as well as any trends due to

seasonal and local influences. The measured data for the most recent monitoring in February 2017 indicates that  $L_{A90}$  noise levels were below  $L_{Aeq}$ , 15 minute criteria at all sites.

The background noise levels from Figure 3-3 and Figure 3-4 are not directly related to the  $L_{Aeq}$  criteria from the EPL; however, they provide an indication of the increase in background environmental noise levels corresponding to the regular noise surveys for the Orora site. The results show that the monitoring conducted in February 2017 represent levels that are amongst the lowest  $L_{A90}$  night time levels measured in terms of the historical data.

**Table 3 Summary of noise monitoring**

Time and date*	Profile of Noise Environment - Noise Monitoring Location											
	R1		R2		R3		R4		R5		R6	
	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period
<b>7:00:00 AM to 6:00:00 PM</b>												
Monday 13 February 2017	42.9	69.9	39.2	67.0	38.6	72.3	-	-	43.2	84.4	46.6	72.6
Tuesday 14 February 2017	45.1	58.1	41.3	52.8	41.1	51.0	-	-	42.5	52.8	46.6	55.5
Wednesday 15 February 2017	40.8	52.8	38.2	51.9	-	-	-	-	38.4	51.9	-	-
Thursday 16 February 2017	42.2	56.0	39.6	51.2	-	-	-	-	41.7	53.6	-	-
Friday 17 February 2017	44.4	57.1	42.4	57.2	-	-	-	-	45.2	57.5	-	-
Saturday 18 February 2017	45.3	54.3	40.3	60.6	-	-	-	-	40.6	51.6	-	-
Sunday 19 February 2020	41.2	51.8	39.0	51.8	-	-	-	-	39.6	50.7	-	-
Monday 20 February 2020	41.8	52.3	38.9	54.1	-	-	-	-	41.7	54.8	-	-
Tuesday 21 February 2021	41.8	54.6	39.2	51.6	-	-	47.5	62.3	39.9	51.0	-	-
<b>Median</b>	<b>42.5</b>	<b>54.5</b>	<b>39.4</b>	<b>52.4</b>	<b>39.9</b>	<b>61.7</b>	<b>47.5</b>	<b>62.3</b>	<b>41.7</b>	<b>52.8</b>	<b>46.6</b>	<b>64.0</b>
<b>6:00:00 PM to 10:00:00 PM</b>												
Monday 13 February 2017	40.0	49.0	37.1	53.0	36.5	42.9	-	-	34.4	46.4	39.7	59.8
Tuesday 14 February 2017	42.3	53.3	41.8	49.6	40.7	46.2	-	-	37.5	55.8	42.0	53.3
Wednesday 15 February 2017	42.3	53.2	38.9	49.8			-	-	41.8	54.4	-	-
Thursday 16 February 2017	44.7	52.3	42.0	50.4			-	-	46.1	57.5	-	-
Friday 17 February 2017	42.0	50.0	40.6	49.2			-	-	42.9	53.4	-	-
Saturday 18 February 2017	45.6	54.4	45.0	50.2			-	-	37.7	50.1	-	-
Sunday 19 February 2020	40.3	57.0	37.3	54.6			-	-	37.3	50.7	-	-
Monday 20 February 2020	40.1	47.0	36.1	53.0			-	-	36.1	46.9	-	-
Tuesday 21 February 2021	40.4	50.6	38.5	50.9			-	-	40.3	49.7	-	-
<b>Median</b>	<b>42.0</b>	<b>52.3</b>	<b>38.9</b>	<b>50.4</b>	<b>38.6</b>	<b>44.6</b>	<b>-</b>	<b>-</b>	<b>37.7</b>	<b>50.7</b>	<b>40.8</b>	<b>56.6</b>

ORORA – B9 COMPLIANCE NOISE MONITORING

Time and date*	Profile of Noise Environment - Noise Monitoring Location											
	R1		R2		R3		R4		R5		R6	
10:00:00 PM to 7:00:00 AM	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period	L90 (10th Percentile)	Leq - over period
Monday 13 February 2017	39.3	46.8	34.1	43.0	35.0	40.2	-	-	29.4	39.9	35.0	44.4
Tuesday 14 February 2017	39.1	49.1	41.7	49.5	42.1	49.8	-	-	39.1	47.1	40.5	50.4
Wednesday 15 February 2017	38.7	49.0	35.9	46.0	-	-	-	-	37.2	45.0	-	-
Thursday 16 February 2017	40.3	46.5	37.8	46.6	-	-	-	-	38.3	47.1	-	-
Friday 17 February 2017	41.1	46.6	42.4	47.3	-	-	-	-	42.0	46.3	-	-
Saturday 18 February 2017	43.7	52.3	46.4	51.0	-	-	-	-	40.2	49.4	-	-
Sunday 19 February 2020	40.6	47.7	45.2	50.7	-	-	-	-	39.8	47.5	-	-
Monday 20 February 2020	39.0	46.1	44.4	50.0	-	-	-	-	38.9	44.5	-	-
Tuesday 21 February 2021	39.0	47.8	37.2	47.6	-	-	-	-	37.3	45.5	-	-
<b>Median</b>	<b>39.3</b>	<b>47.7</b>	<b>41.7</b>	<b>47.6</b>	<b>38.5</b>	<b>45.0</b>	-	-	<b>38.9</b>	<b>46.3</b>	<b>37.8</b>	<b>47.4</b>

\*Shaded areas indicate periods where the site was not operational. – Dashes indicate an equipment fault.

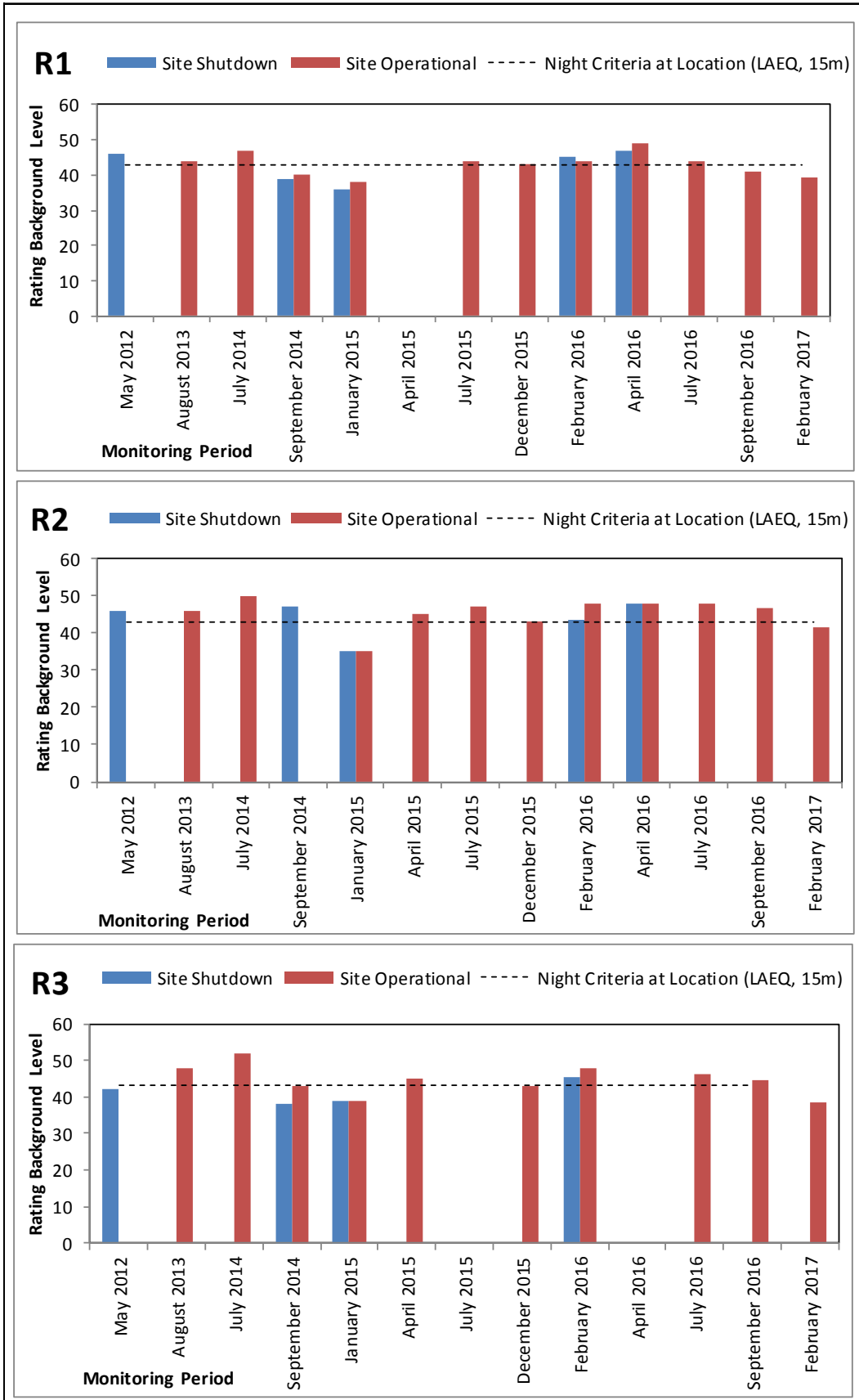


Figure 3-3: Comparison of background noise levels at R1 – R3

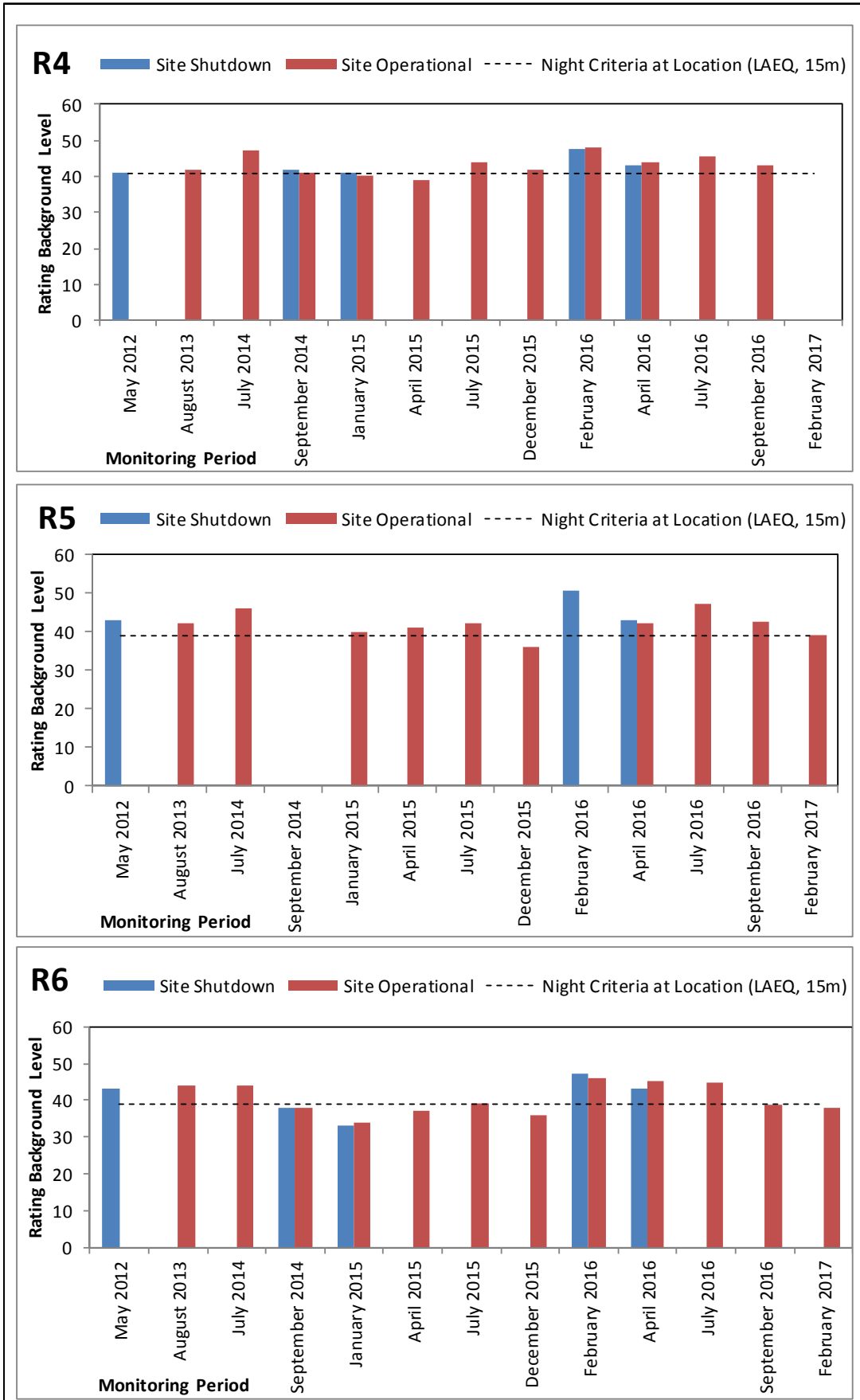


Figure 3-4: Comparison of background noise levels at R4 – R6

## 4. Summary

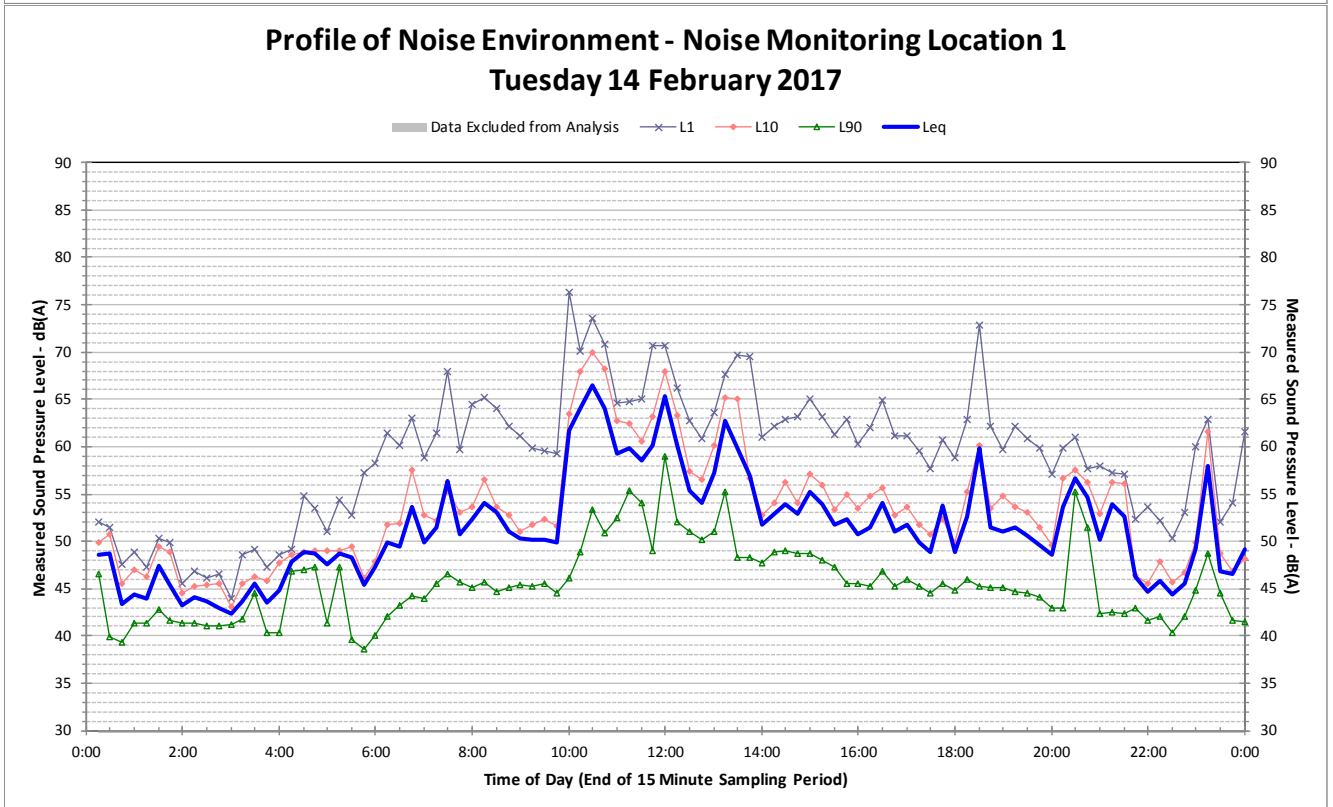
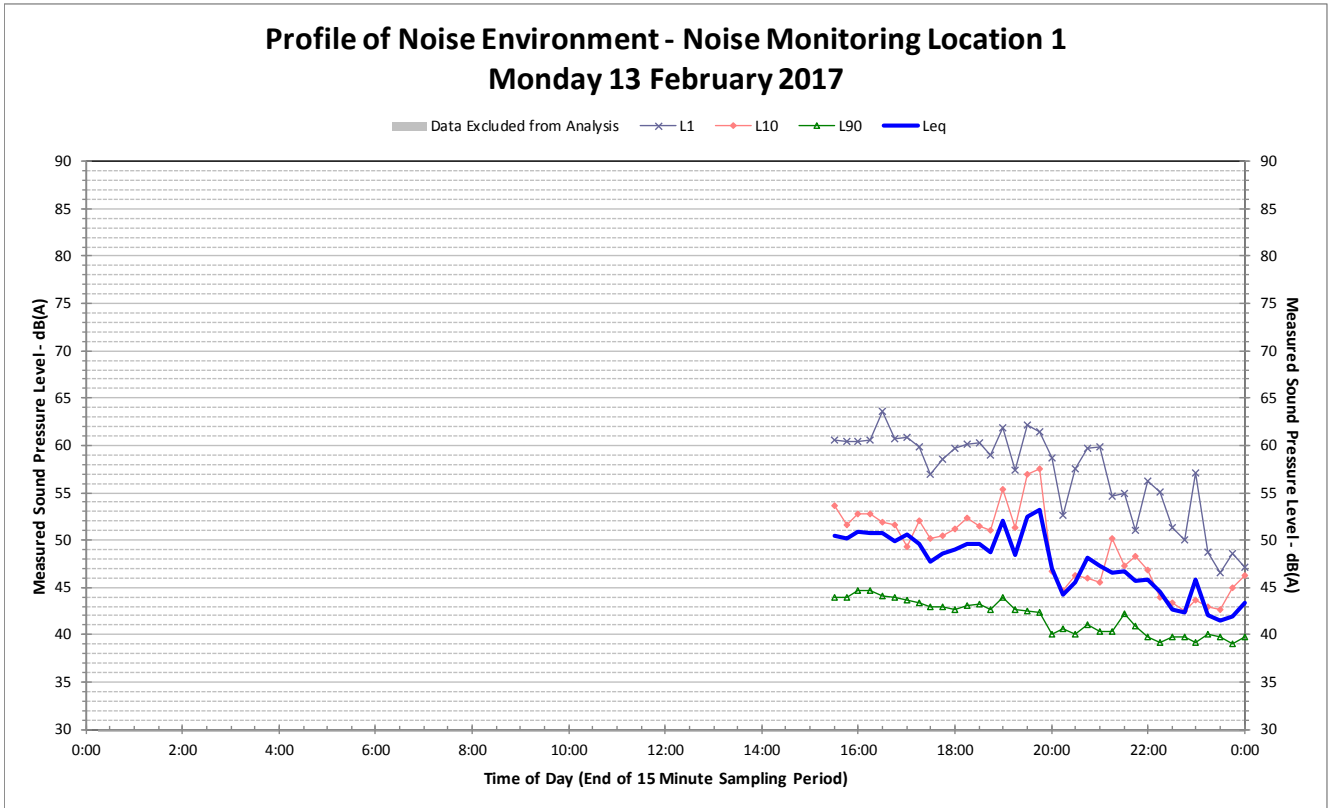
Historically, the Orora B9 Paper Mill quarterly monitoring surveys indicate  $L_{Aeq}$  measured noise levels that exceed the EPL criteria for day, evening, and night time whether the site is operational or shut down. The most recent results for the February monitoring period when the Orora site is operational, indicate that an exceedance of the EPL criteria is apparent at all the representative receiver locations. These exceedances are not directly attributable to the operations of the B9 paper mill.

From the February 2017 quarterly monitoring the following conclusions may be drawn.

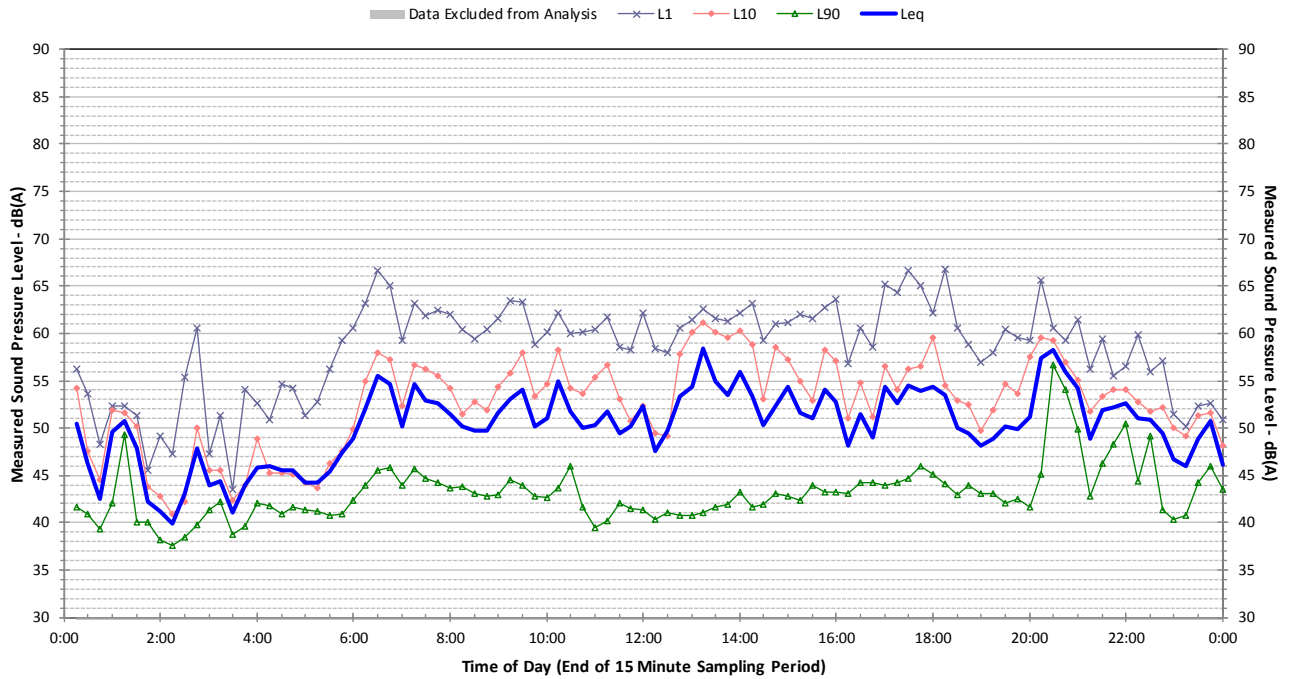
- The most recent noise monitoring results indicate that the measured  $L_{A90}$  noise levels are comparatively lower than other monitoring periods on an annual basis.
- The meteorological conditions during the monitoring period were typically favourable to the propagation of noise from the Orora site away from residential locations. Winds generally came from the south and easterly directions, which direct noise away from receivers located to the north and east of the Orora site. These weather patterns can result in increased noise influences from southern sources such as Botany Road and eastern noise sources such as Bunnerong road.
- The ambient noise environment in the local area is a product of the combined influence of all noise sources within the Port Botany area including the Orora site.
- Based on the current monitoring data and using the  $L_{A90}$  background noise results as an indicator of noise influences from constant noise sources such as the Orora site, the current noise contribution from operations of the B9 plant are expected to be generally compliant with their EPL noise limits during operational periods.
- Noise levels at receivers at the western end of Australia Avenue have decreased due to the additional shielding from the newly built warehousing development in MaCauley Avenue.



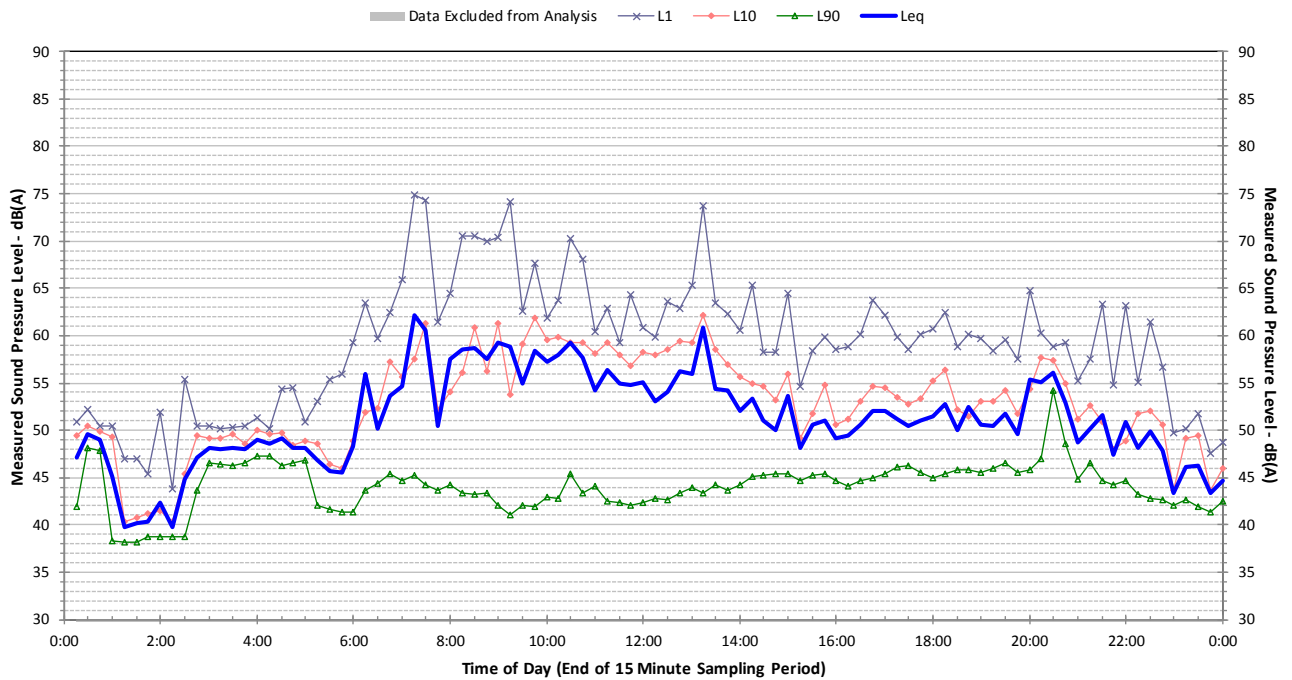
### Appendix A. Noise logger graphs



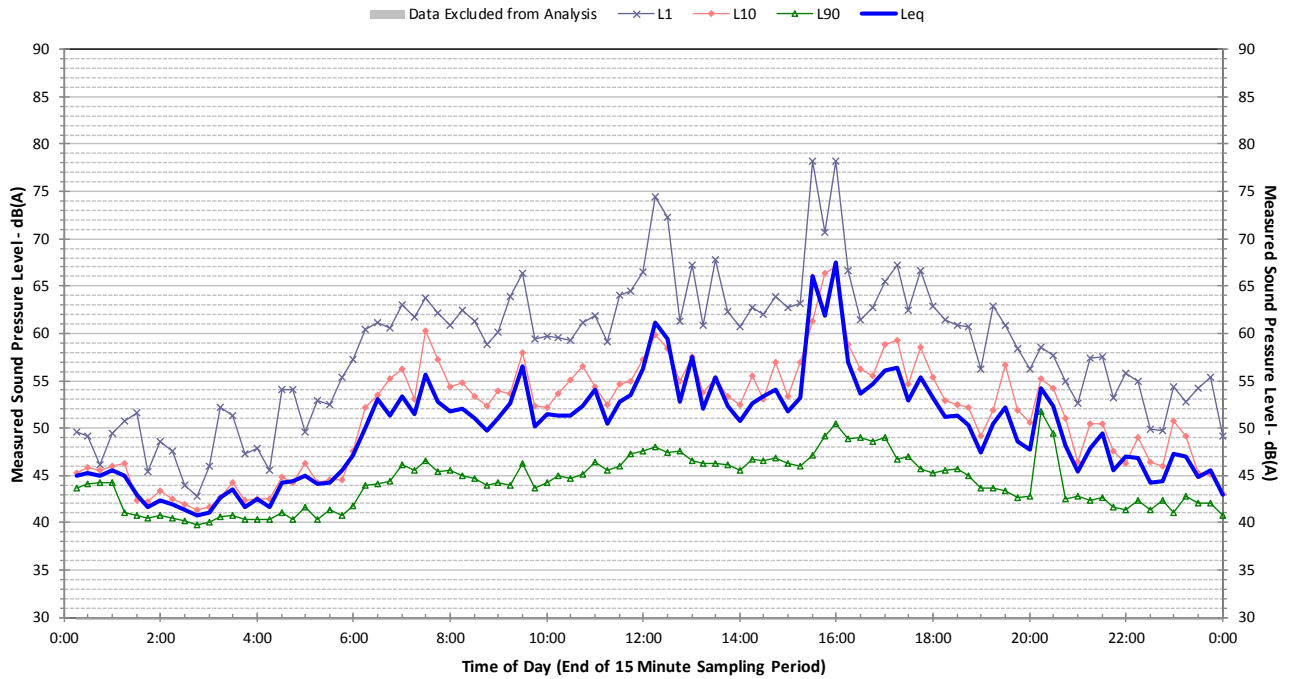
### Profile of Noise Environment - Noise Monitoring Location 1 Wednesday 15 February 2017



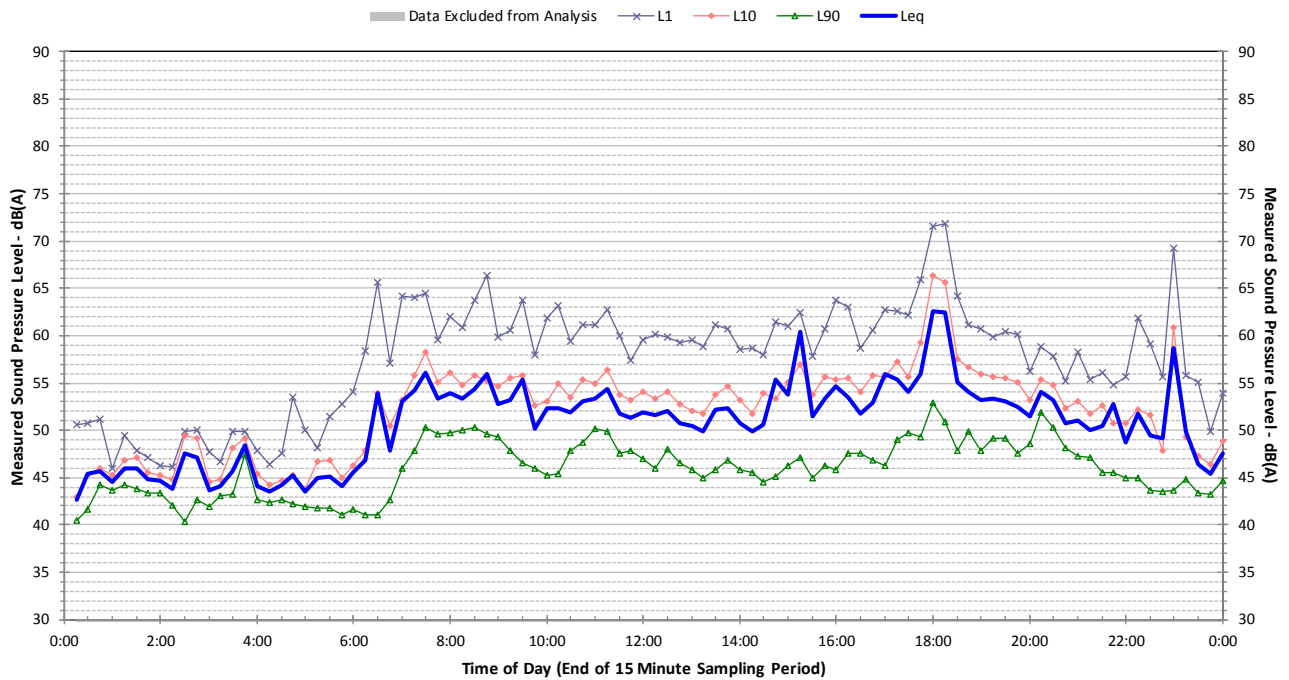
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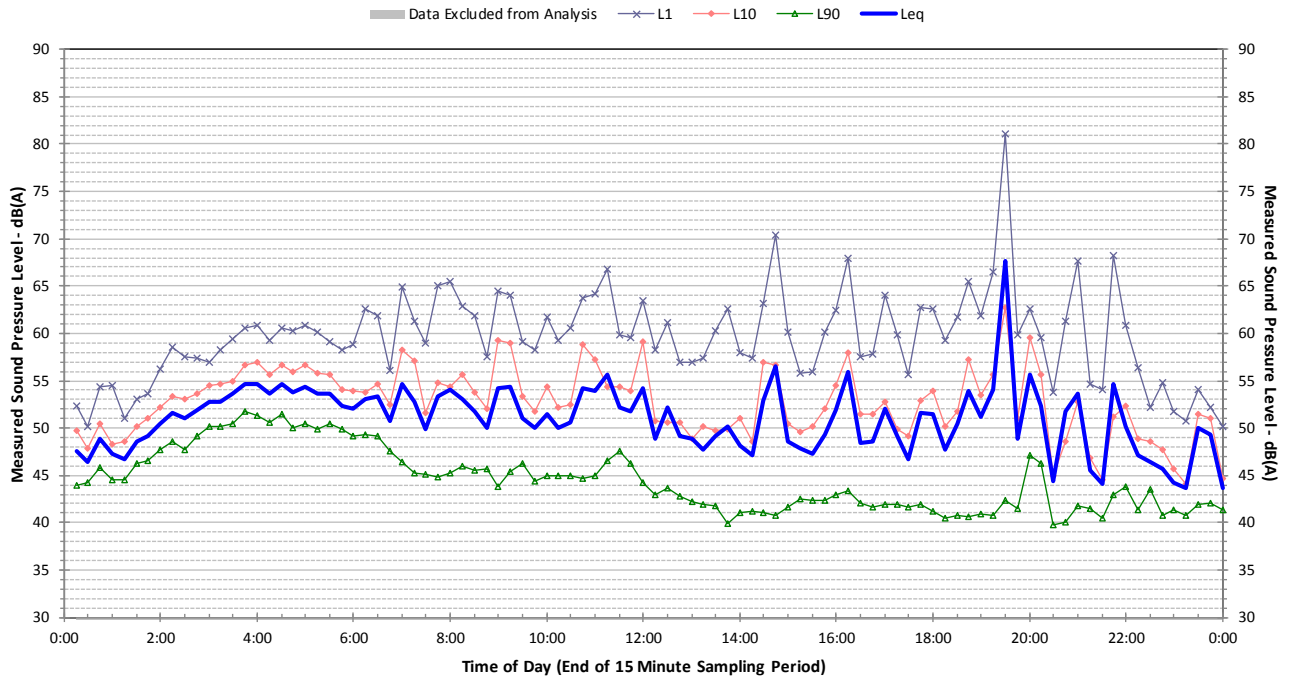
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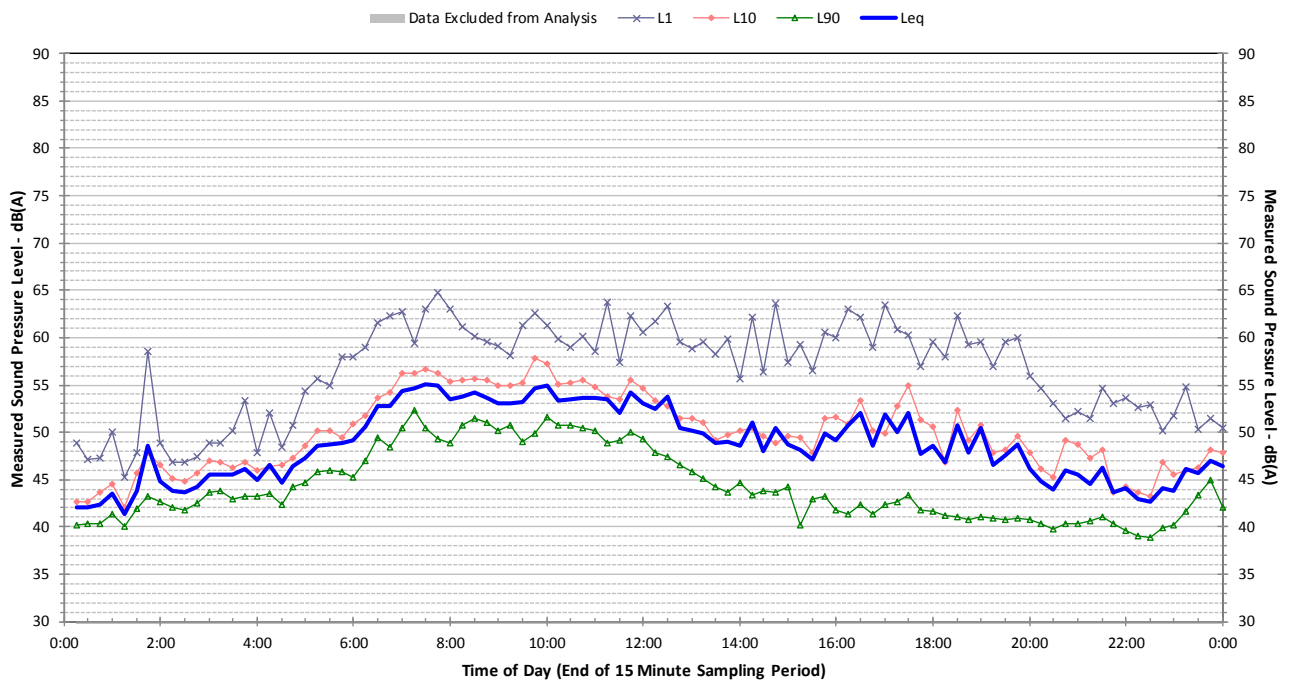
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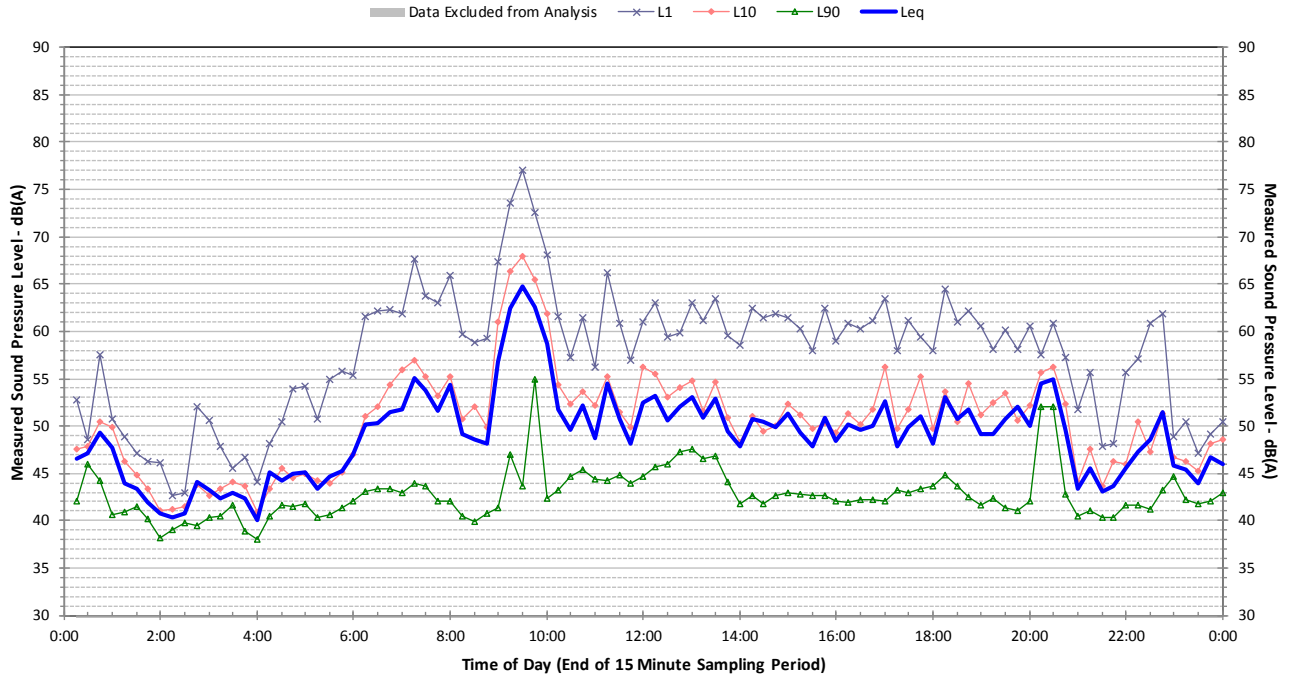
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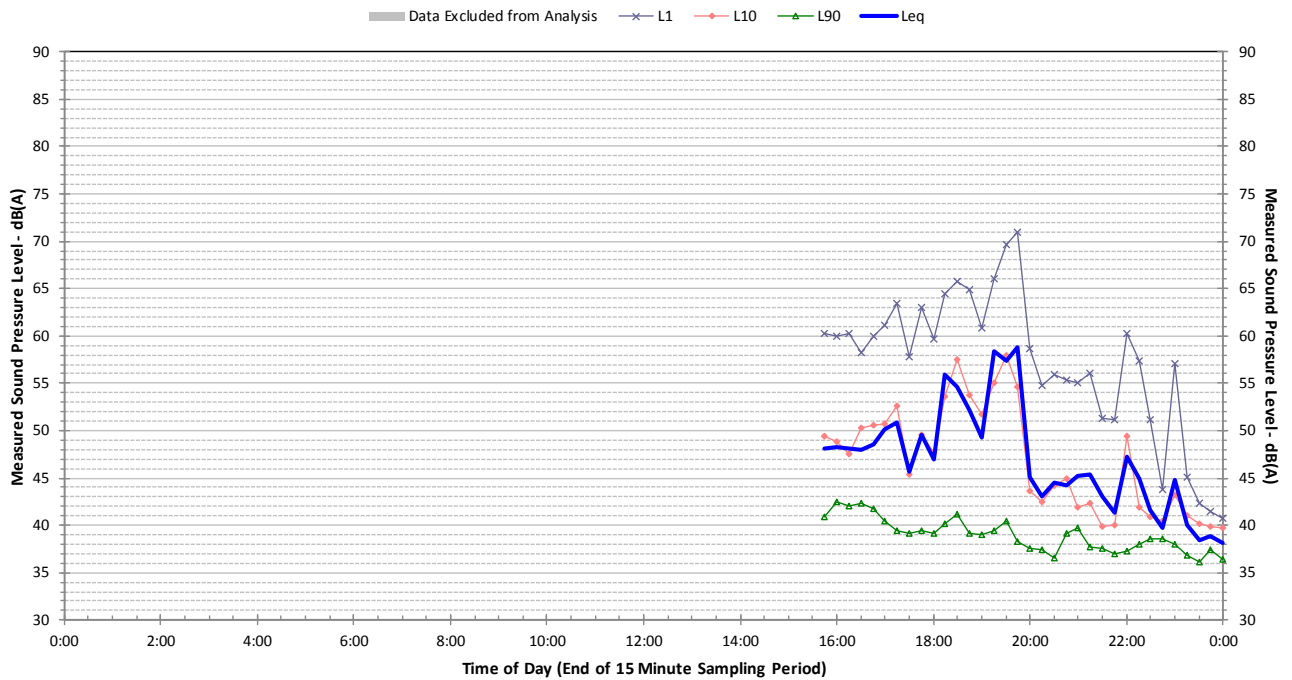
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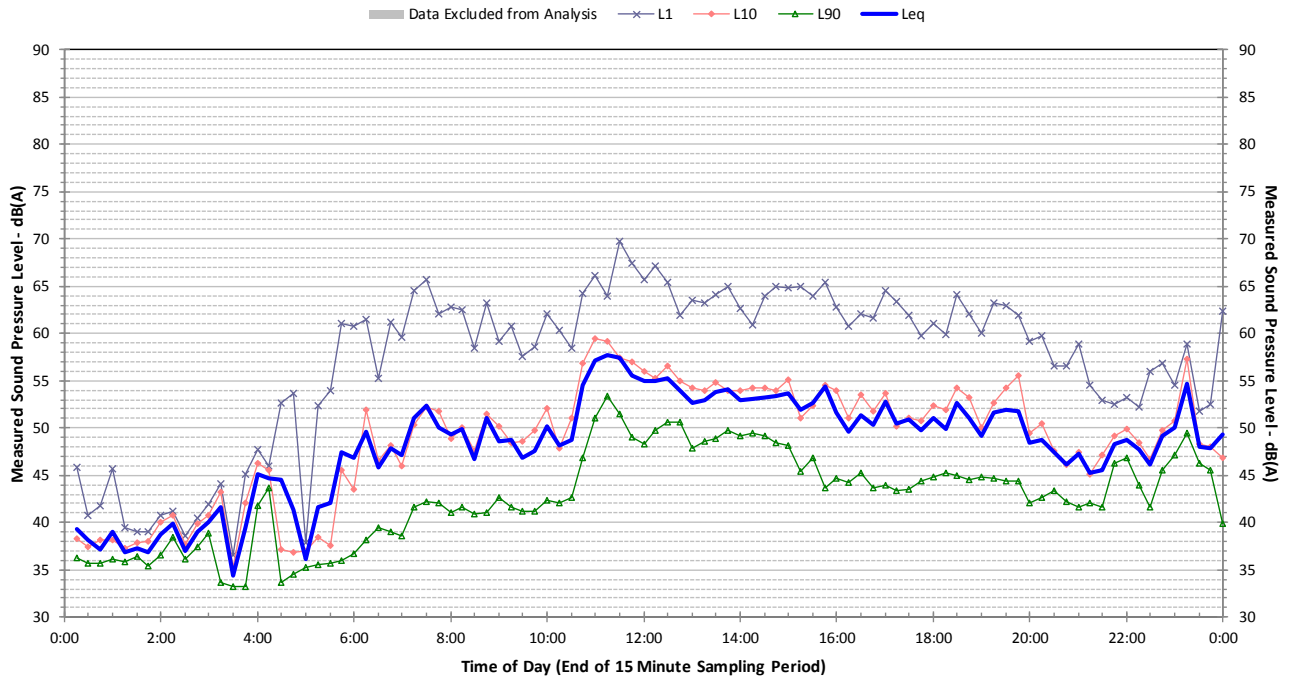
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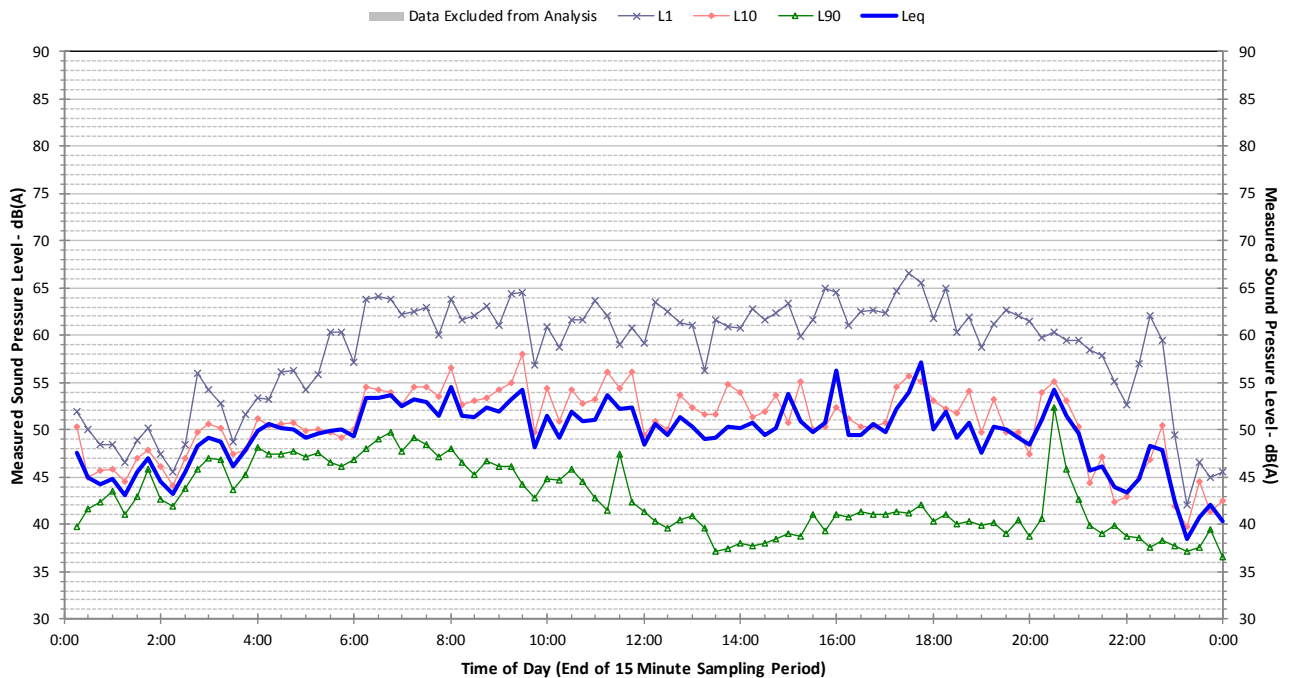
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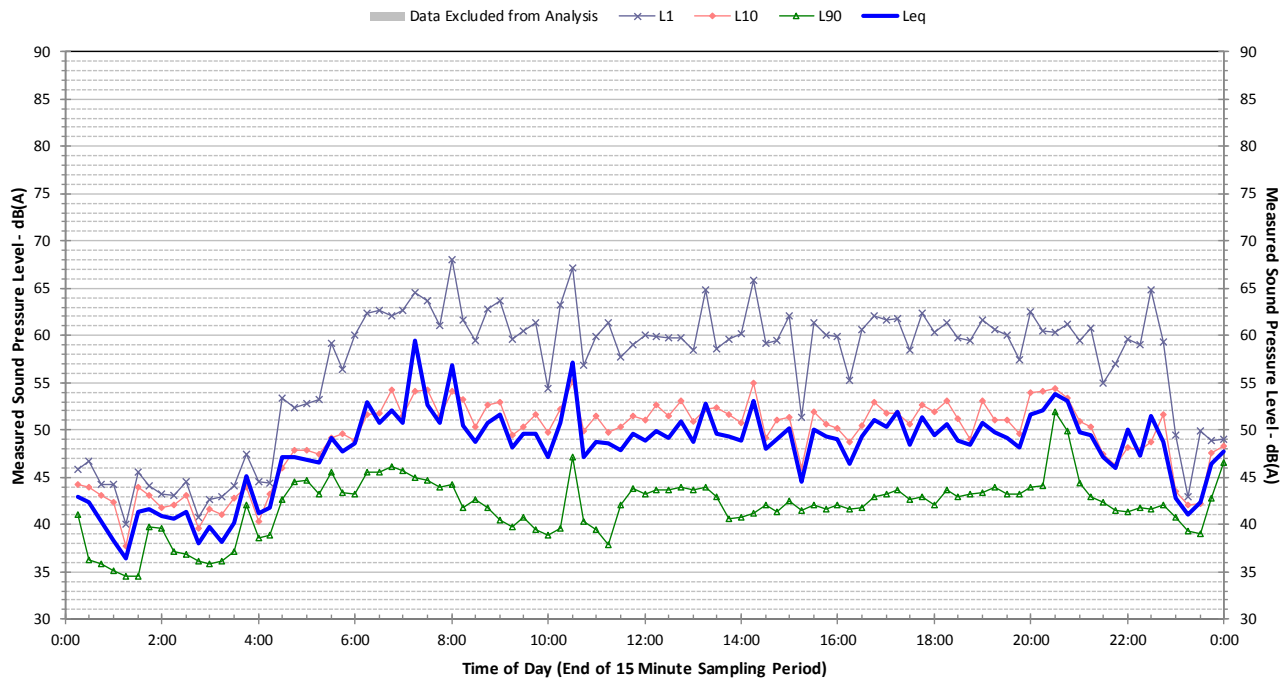
### Profile of Noise Environment - Noise Monitoring Location R2 Tuesday 14 February 2017



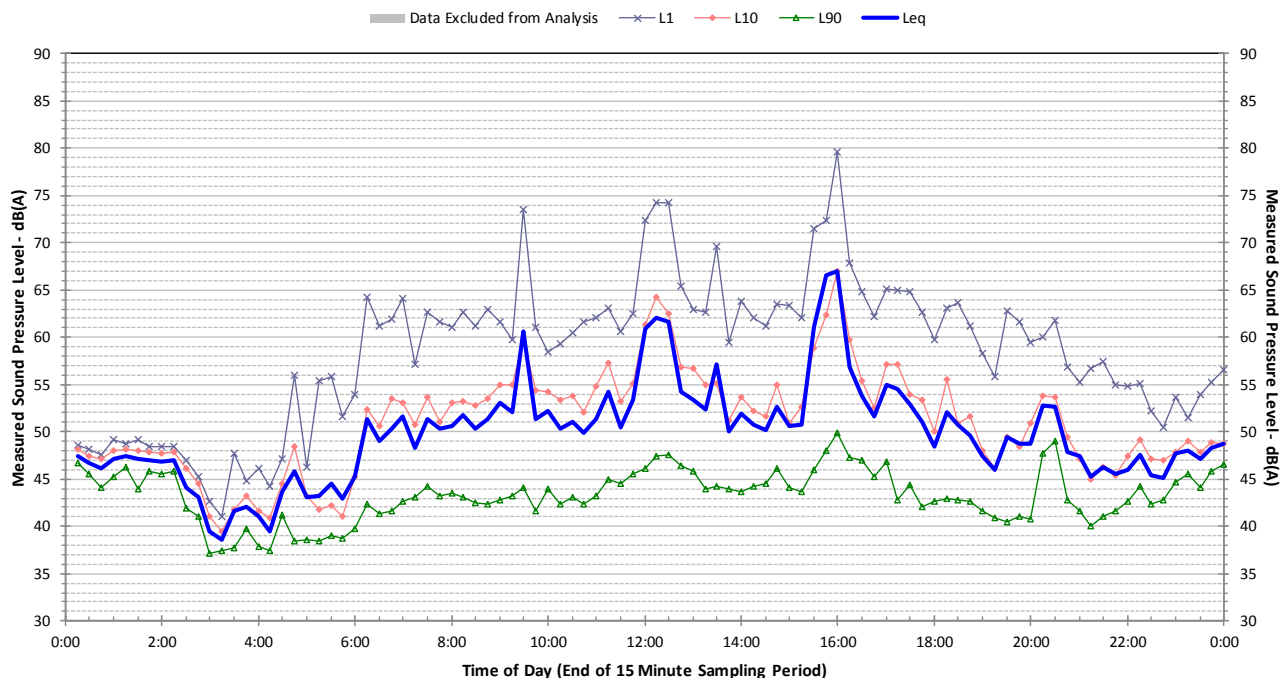
### Profile of Noise Environment - Noise Monitoring Location R2 Wednesday 15 February 2017



### Profile of Noise Environment - Noise Monitoring Location R2 Thursday 16 February 2017

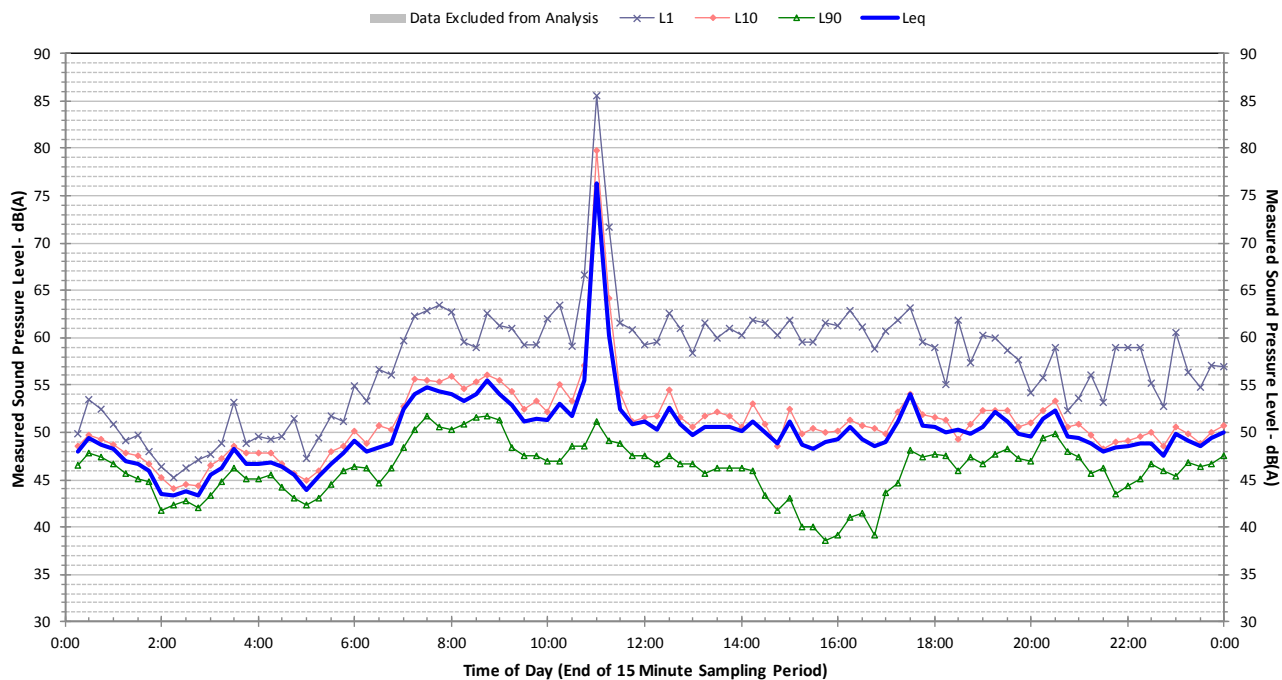


### Profile of Noise Environment - Noise Monitoring Location R2 Friday 17 February 2017

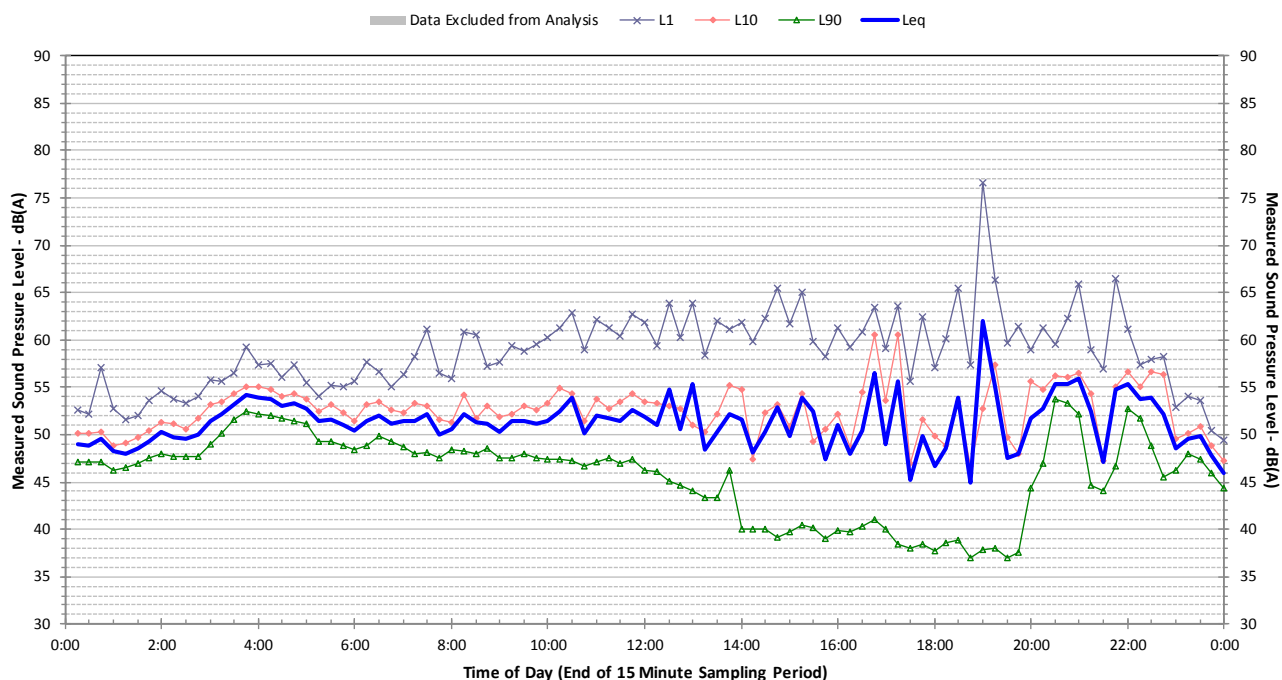




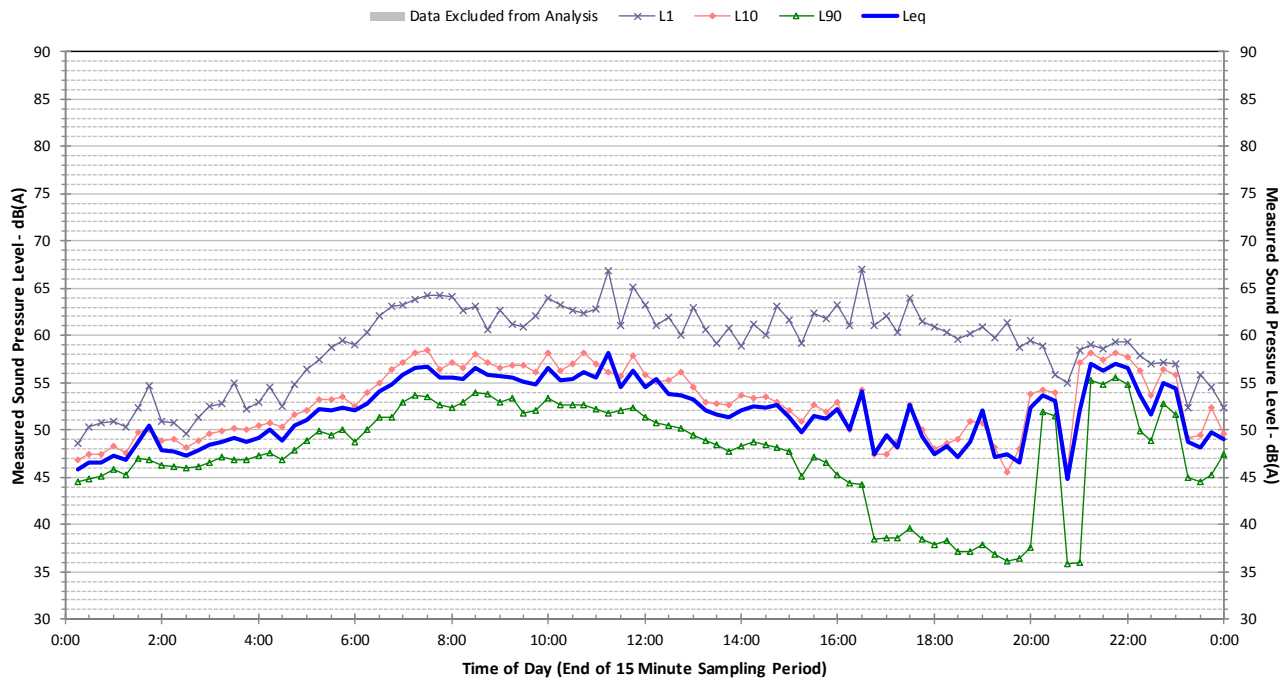
### Profile of Noise Environment - Noise Monitoring Location R2 Saturday 18 February 2017



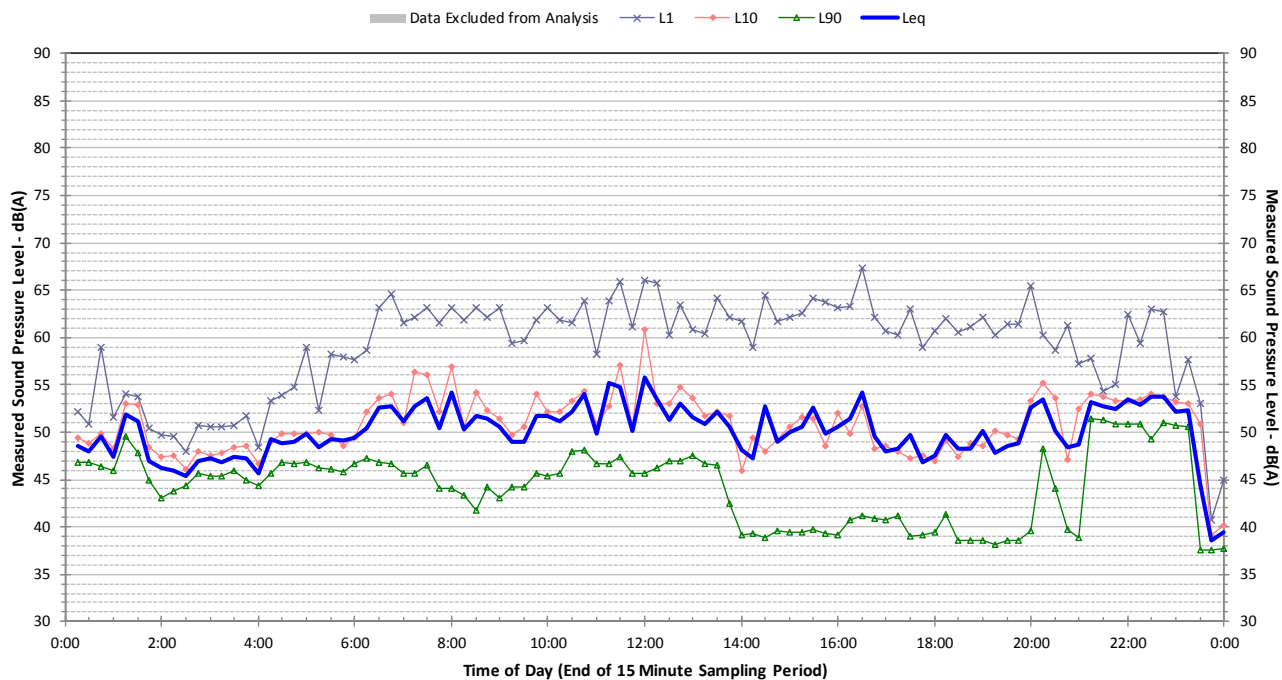
### Profile of Noise Environment - Noise Monitoring Location R2 Sunday 19 February 2017



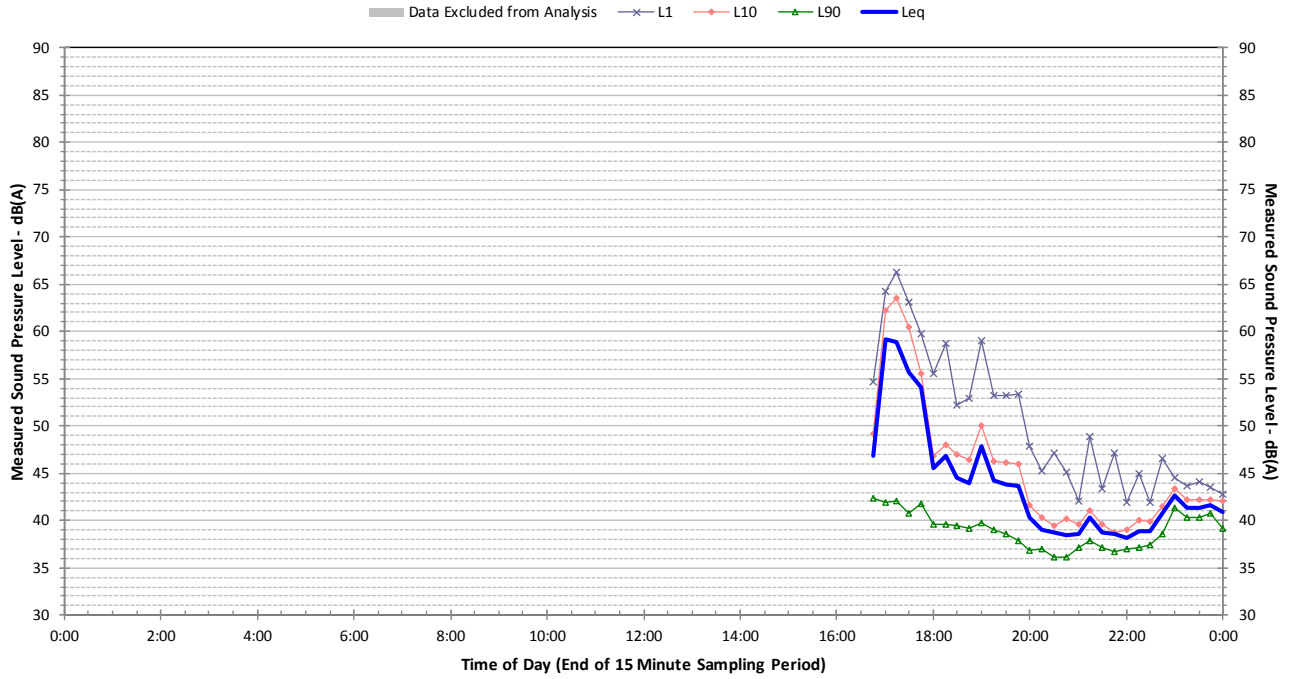
### Profile of Noise Environment - Noise Monitoring Location R2 Monday 20 February 2017



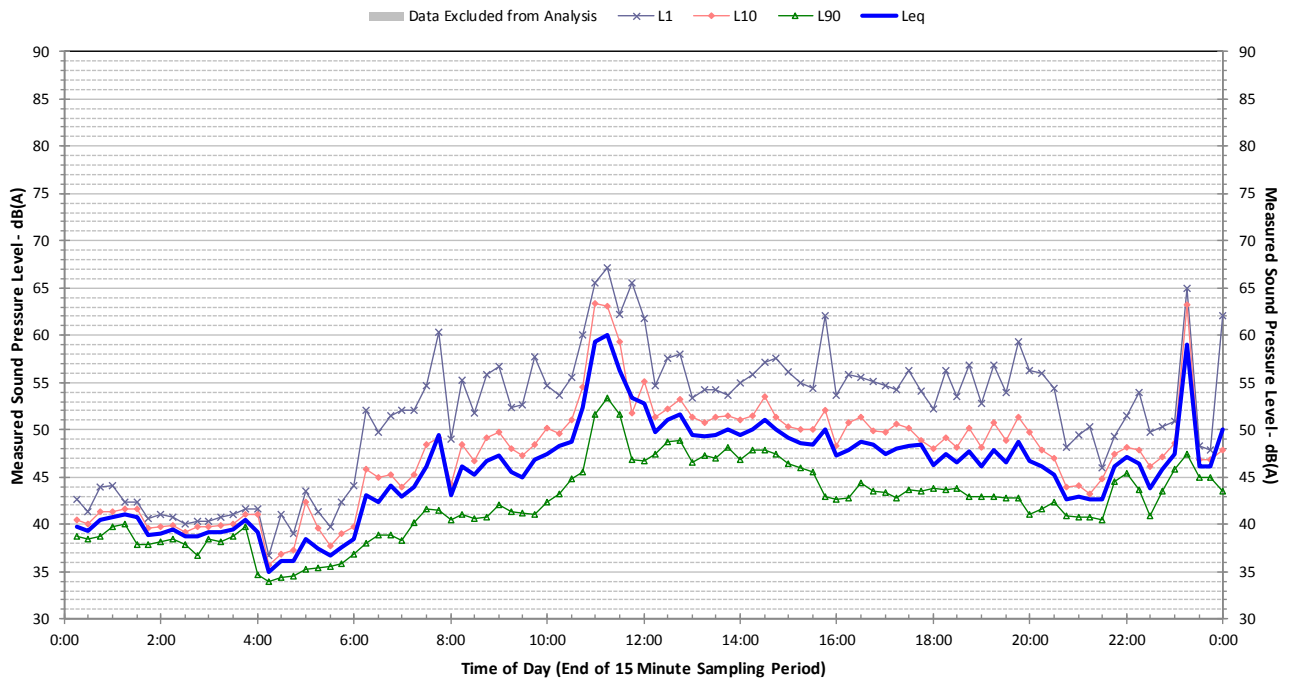
### Profile of Noise Environment - Noise Monitoring Location R2 Tuesday 21 February 2017



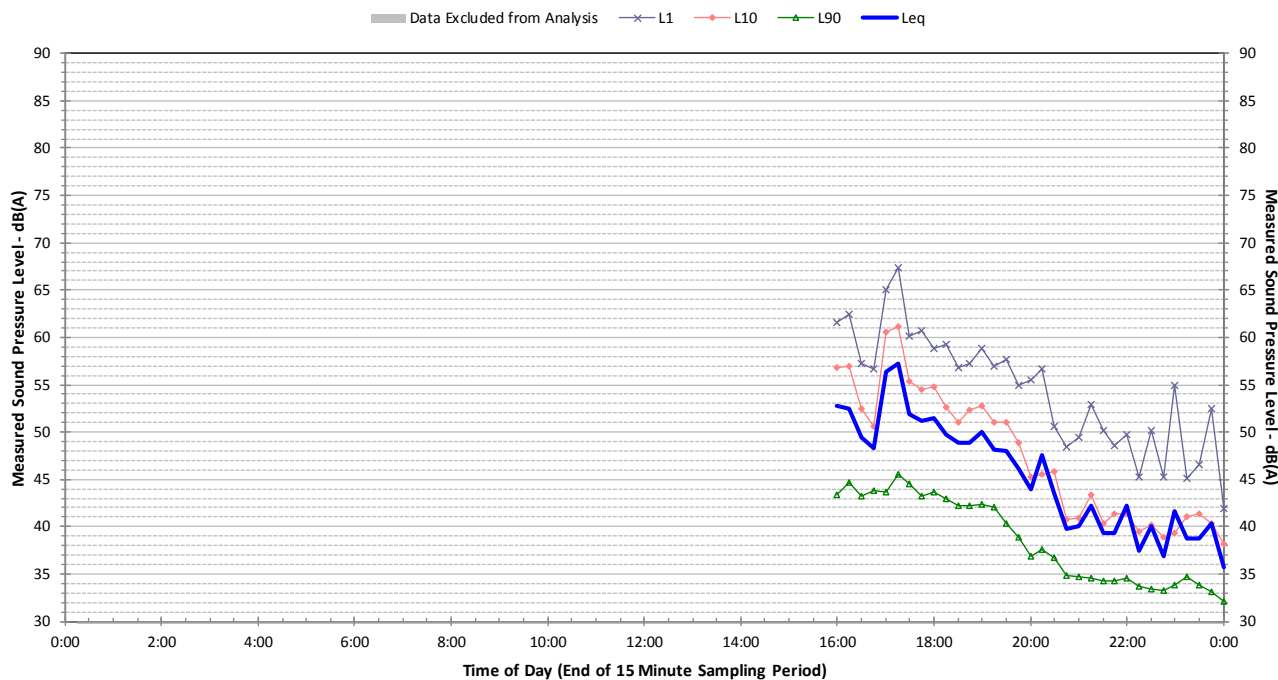
### Profile of Noise Environment - Noise Monitoring Location R3 Monday 13 February 2017



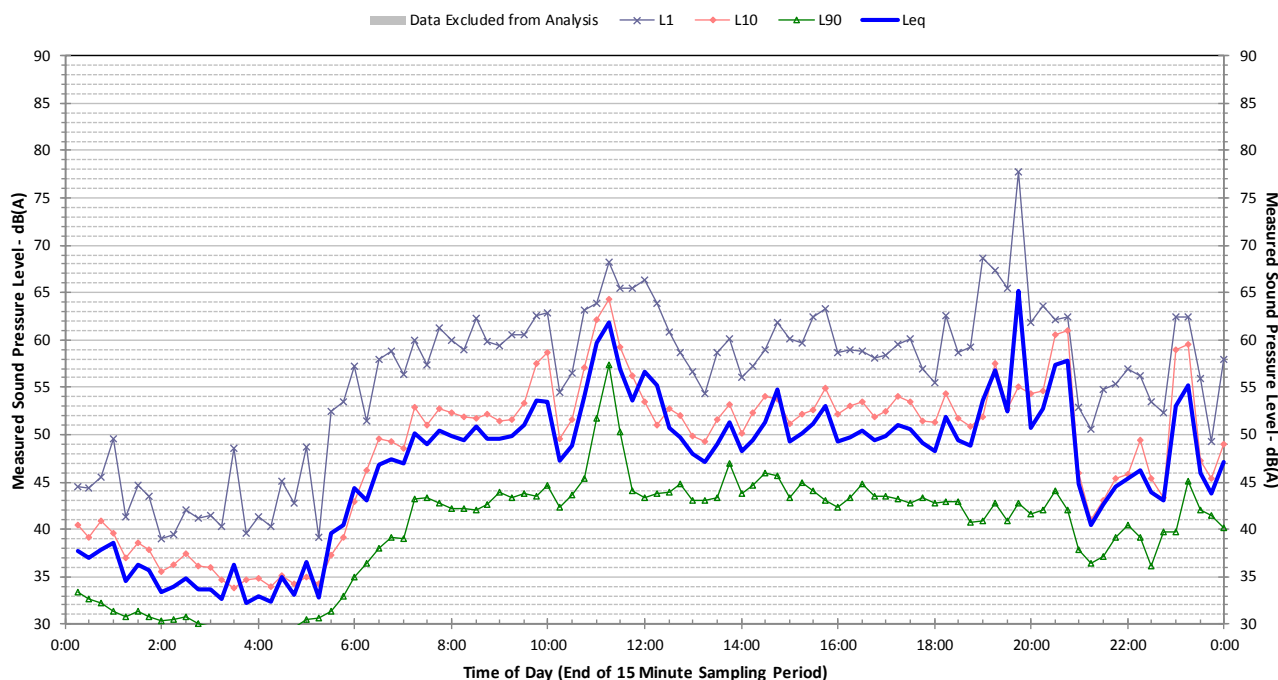
### Profile of Noise Environment - Noise Monitoring Location R3 Tuesday 14 February 2017



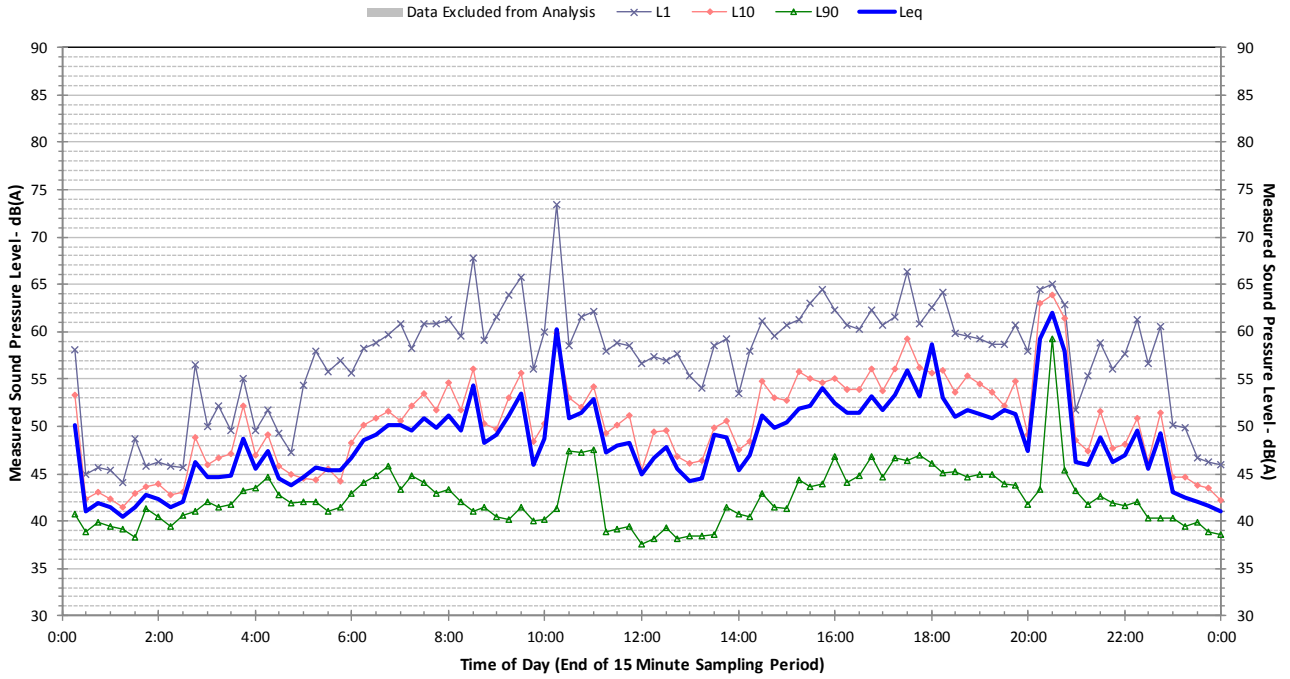
### Profile of Noise Environment - Noise Monitoring Location R5 Monday 13 February 2017



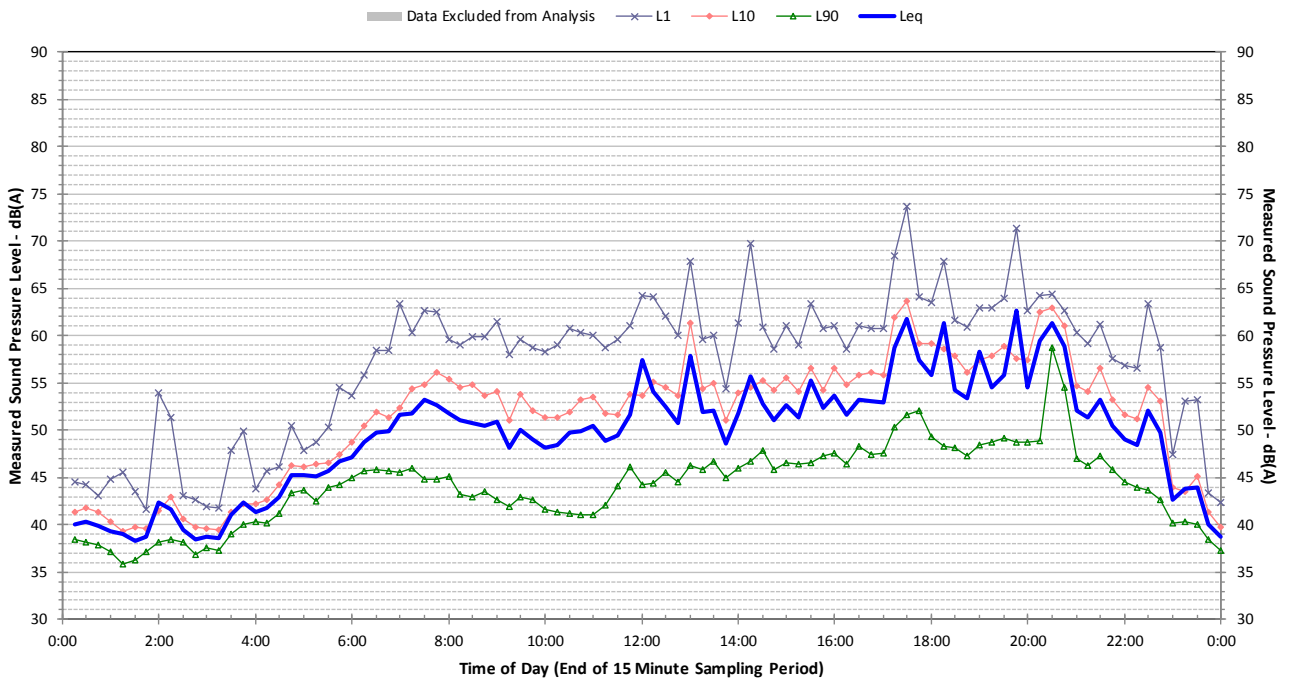
### Profile of Noise Environment - Noise Monitoring Location R5 Tuesday 14 February 2017



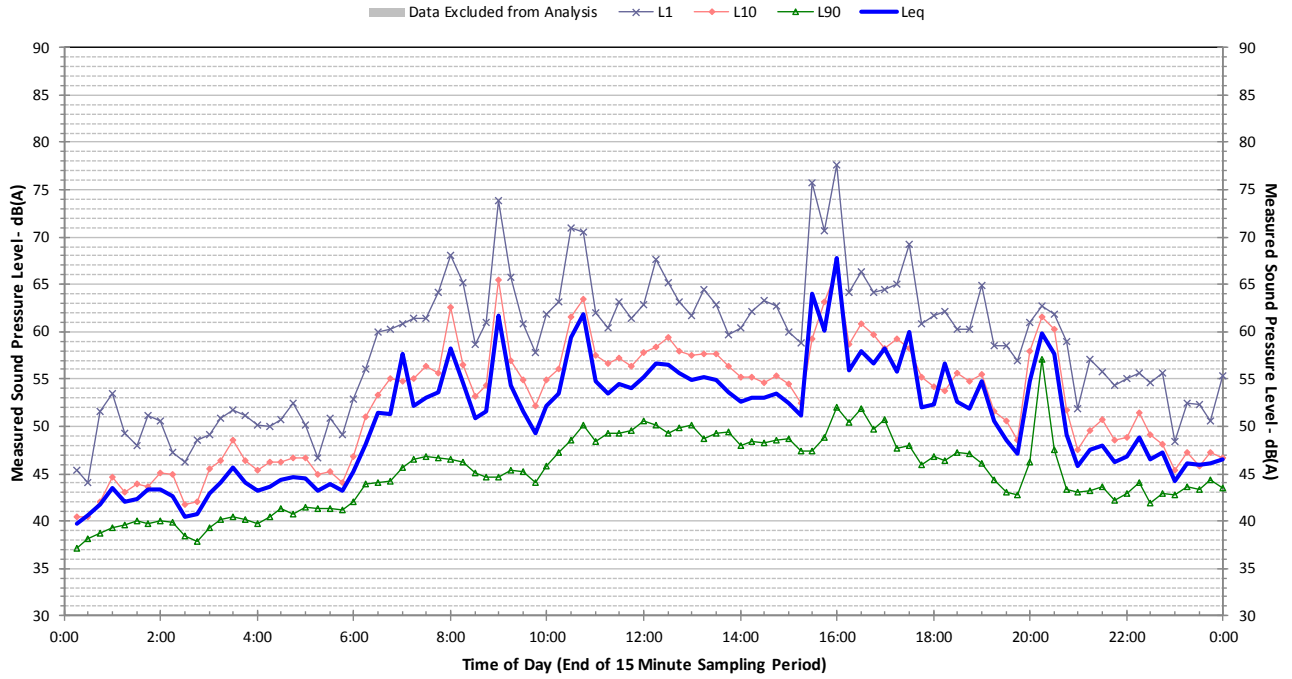
### Profile of Noise Environment - Noise Monitoring Location R5 Wednesday 15 February 2017



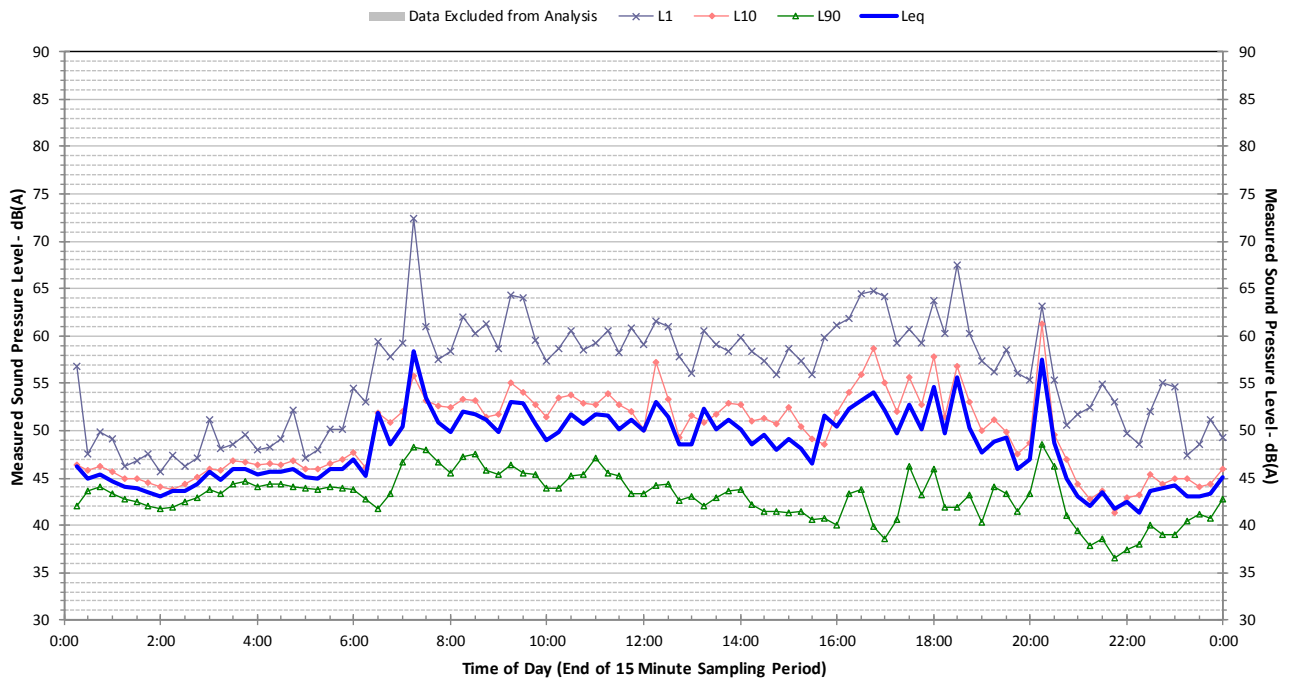
### Profile of Noise Environment - Noise Monitoring Location R5 Thursday 16 February 2017



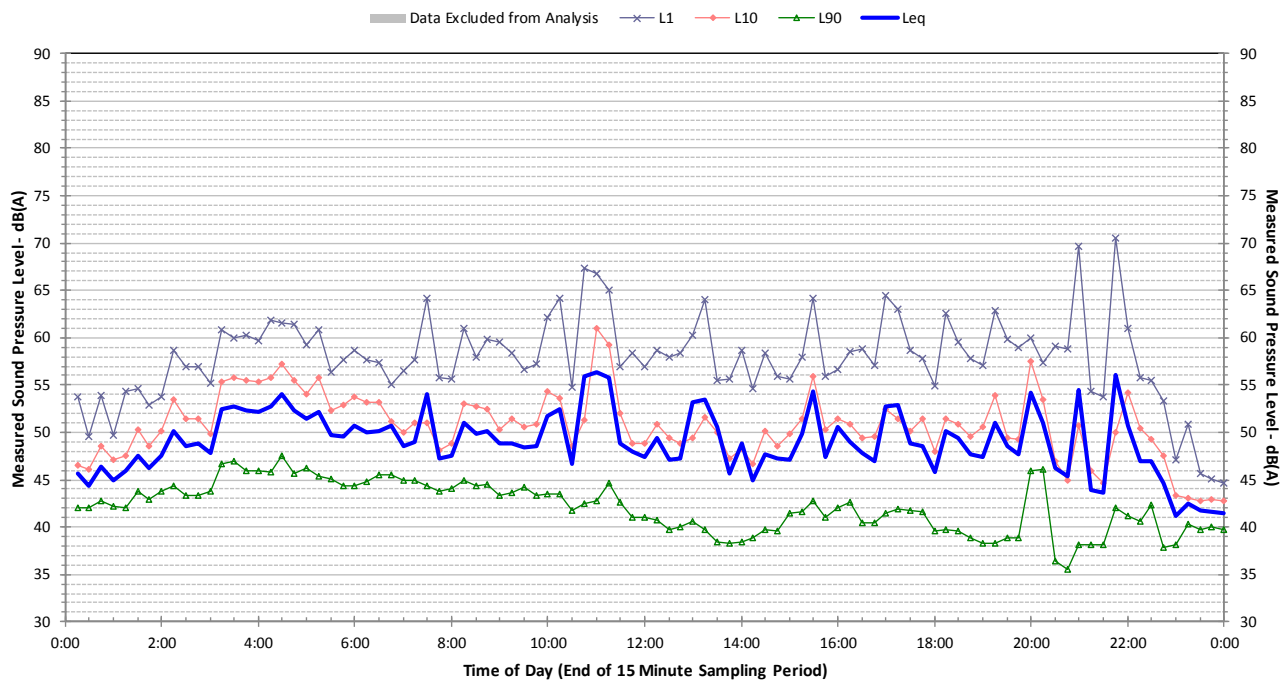
**Profile of Noise Environment - Noise Monitoring Location R5  
Friday 17 February 2017**



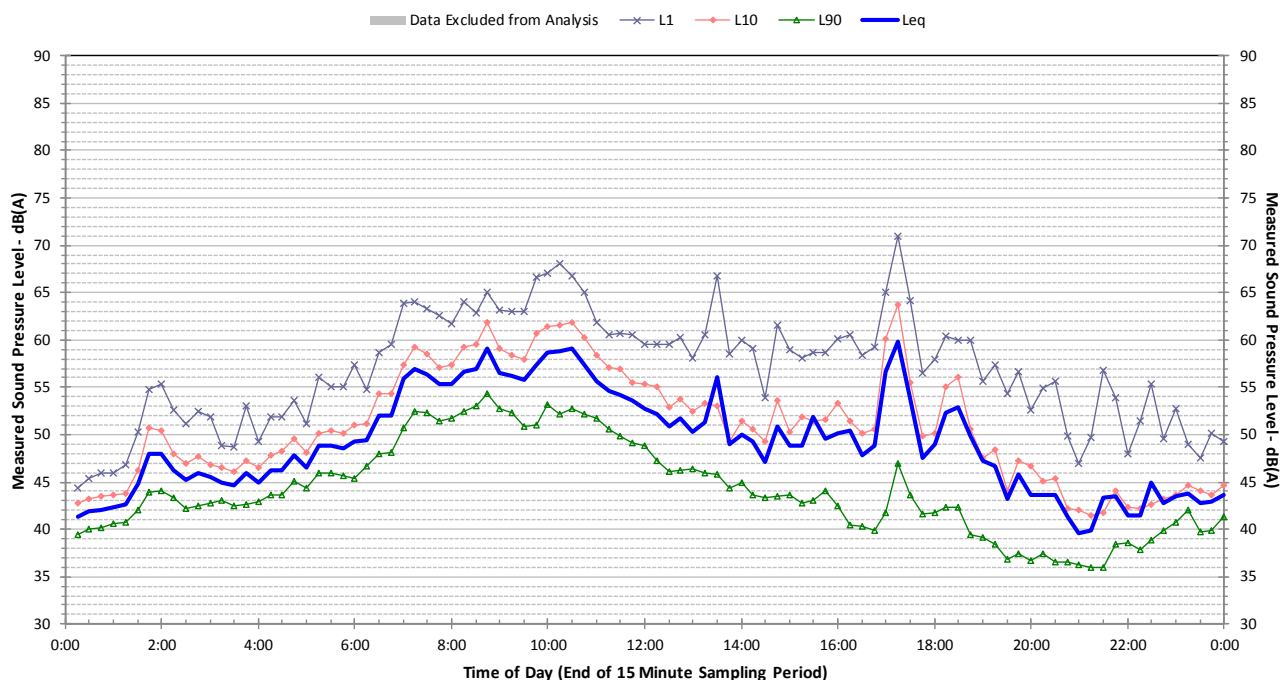
**Profile of Noise Environment - Noise Monitoring Location R5  
Saturday 18 February 2017**



### Profile of Noise Environment - Noise Monitoring Location R5 Sunday 19 February 2017

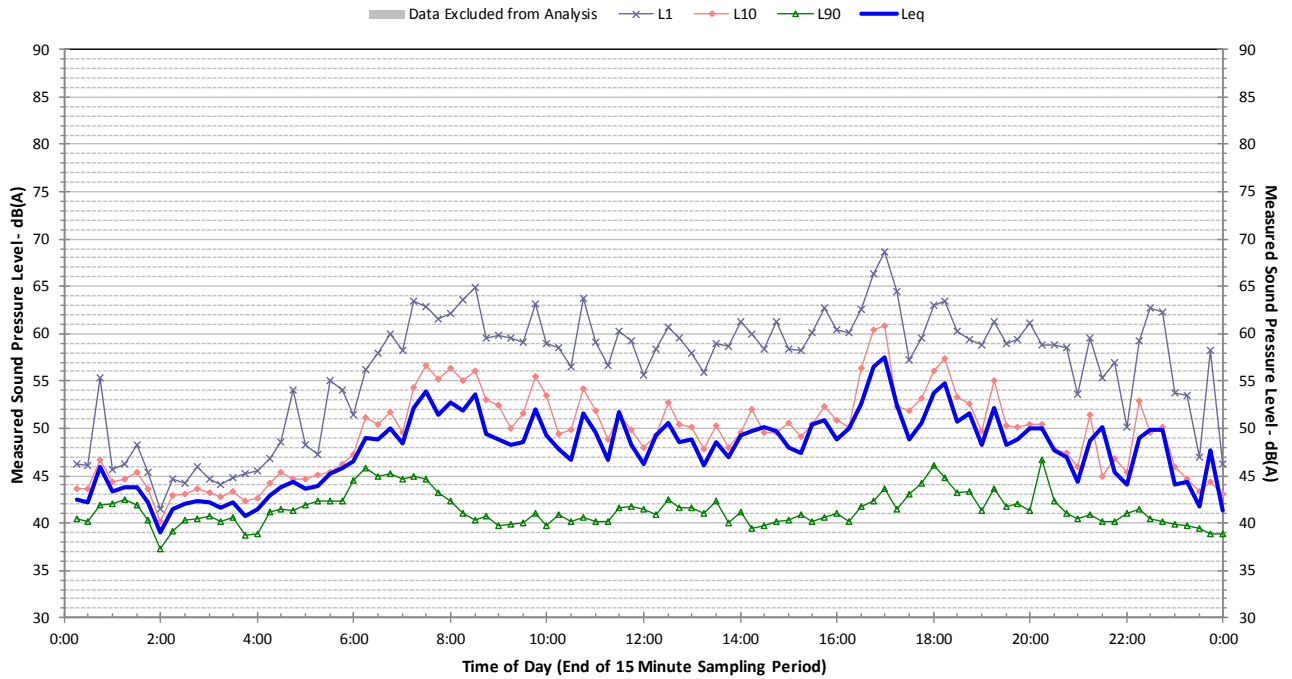


### Profile of Noise Environment - Noise Monitoring Location R5 Monday 20 February 2017

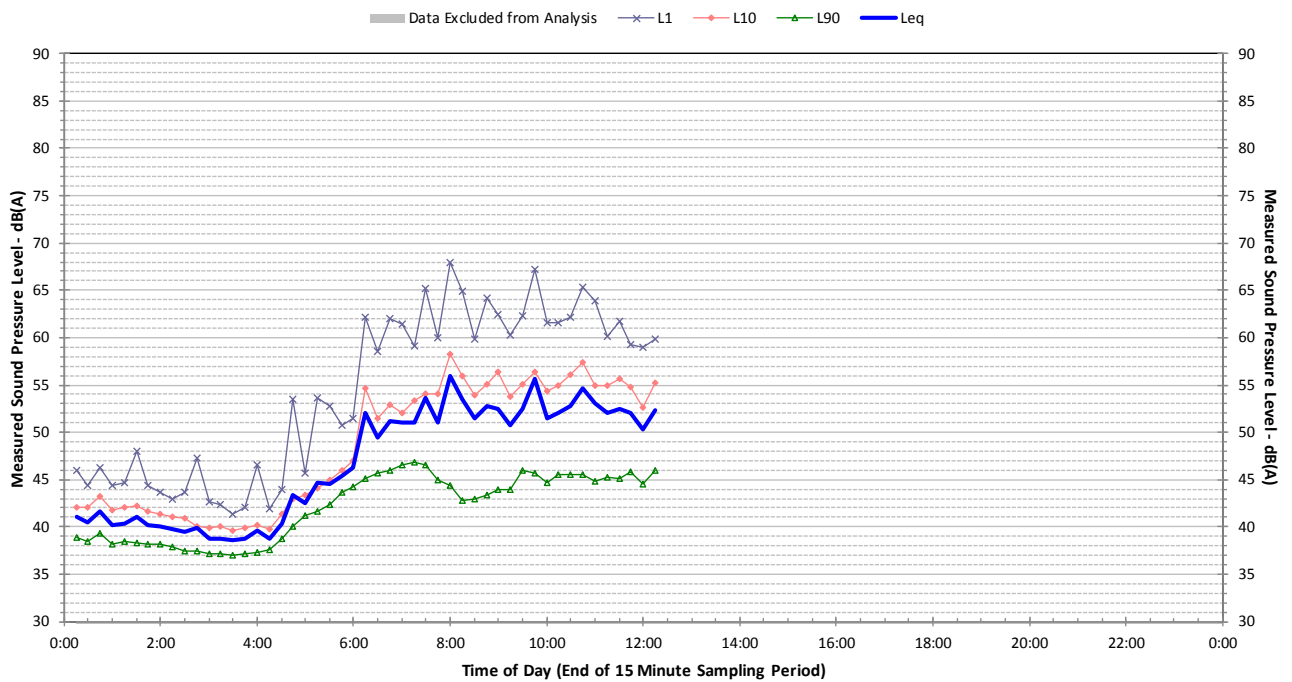




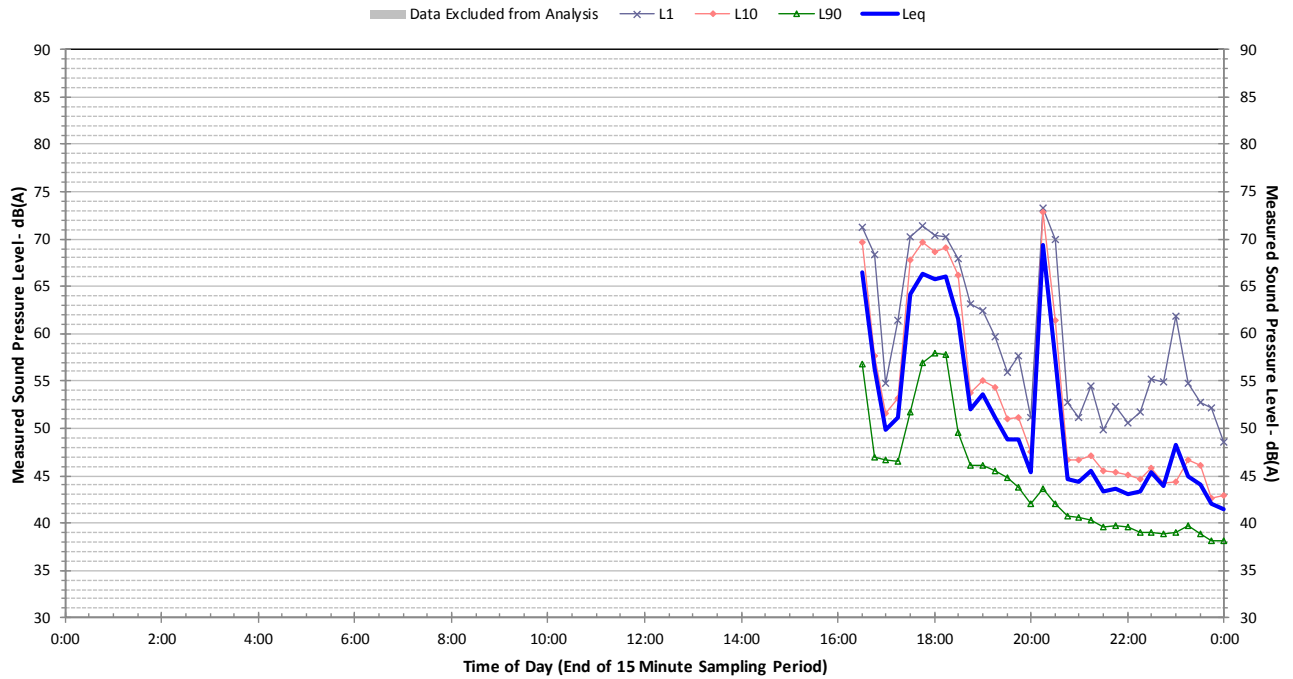
### Profile of Noise Environment - Noise Monitoring Location R5 Tuesday 21 February 2017



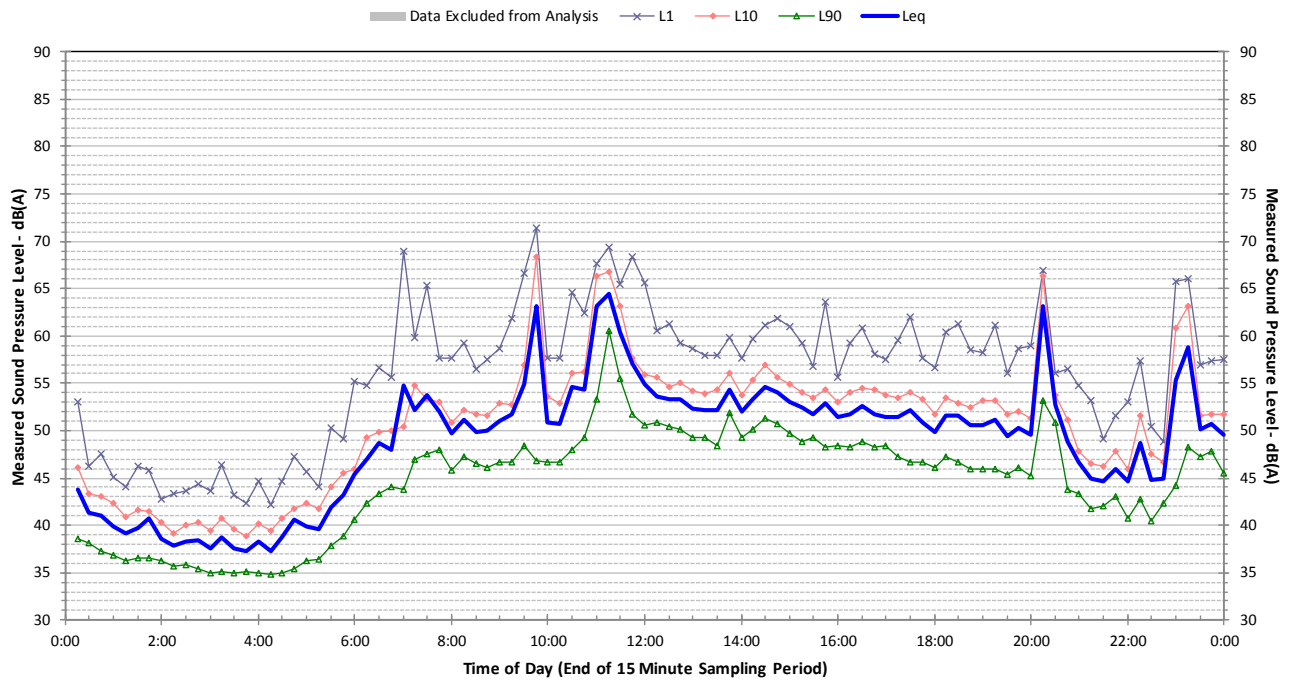
### Profile of Noise Environment - Noise Monitoring Location R5 Wednesday 22 February 2017



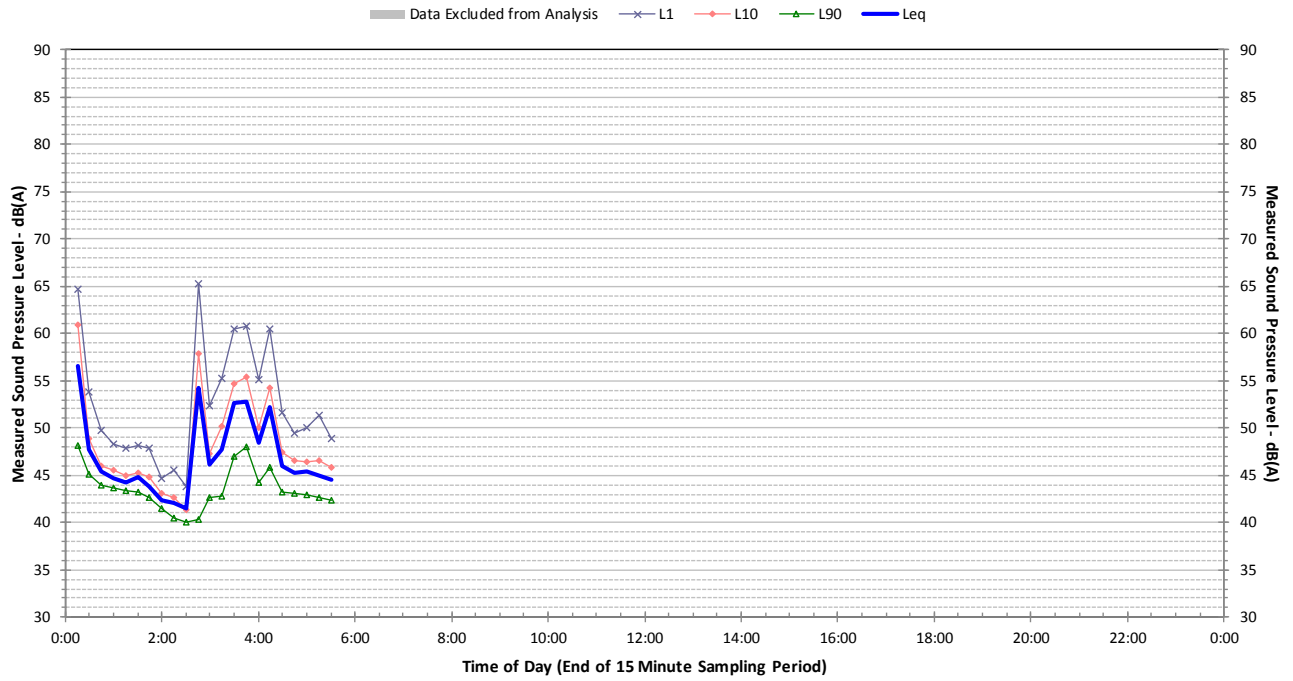
### Profile of Noise Environment - Noise Monitoring Location R6 Monday 13 February 2017



### Profile of Noise Environment - Noise Monitoring Location R6 Tuesday 14 February 2017



### Profile of Noise Environment - Noise Monitoring Location R6 Wednesday 15 February 2017



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