



# ENVIRONMENTAL STATEMENT: 6.3 APPENDIX 6-2: NOISE MONITORING

DECARBONISATION

## Cory Decarbonisation Project

PINS Reference: EN010128

March 2024

Revision A

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# 1. APPENDIX 6-2: NOISE MONITORING


1.1.1. This appendix identifies the locations and full results of the noise monitoring that has been carried out, and **Figure 6-1: Noise Survey Monitoring Locations (Volume 2)** shows the location of each of the three monitoring locations.

## 1.2. NOISE MONITORING POSITION DESCRIPTION

1.2.1. **Table 1-1** provides a description of each noise monitoring position.

**Table 1-1: Noise Monitoring Position Description**

Measurement Position	Description	Photo
MP1	<p>Microphone installed on a pole at a height of 4m on southern boundary fence of Gannon parcel.</p> <p>Measurements taken between 11:00 on Thursday 16<sup>th</sup> March until 11:00 on Tuesday 21<sup>st</sup> March 2023.</p> <p>Location is considered representative of the ambient noise levels incident upon the London Belvedere Travelodge, and other residential dwellings located to the south east on the opposing side of the A2016.</p>	
MP2	<p>Microphone installed on a tripod at a height of 1.5m to the southwest of the Site, within the Crossness Sewage Treatment Works site, and overlooking Crossness LNR to the east.</p> <p>Measurements taken between 14:00 on Thursday 16<sup>th</sup> March until 11:00 on Monday 20<sup>th</sup> March 2023.</p> <p>Location is considered representative of the ambient</p>	

Measurement Position	Description	Photo
	noise levels close to the A2016 Eastern Way.	
MP3	<p>Microphone installed on fence at a height of 2.5m.</p> <p>Measurements taken between 10:00 on Thursday 16<sup>th</sup> March until 10:00 on Tuesday 21<sup>st</sup> March 2023.</p> <p>Location is considered representative of the ambient noise levels at the Crossness LNR.</p>	

### 1.3. NOISE MONITORING SUMMARY DATA

1.3.1. **Table 1-2 to Table 1-4** provide a summary of the measured noise levels at each measurement position.

**Table 1-2: MP1 Data Summary**

<b>Date</b>	<b>Daytime Noise Level (07:00 – 23:00) L<sub>AEq</sub>, 16hr</b>	<b>Night-time Noise Level (23:00 – 07:00) L<sub>AEq</sub>, 8hr</b>	<b>Typical Daytime Background Sound Level (07:00 – 23:00), L<sub>A90</sub>, 1hr</b>	<b>Typical Night-time Background Sound Level (23:00 – 07:00), L<sub>A90</sub>, 15 mins</b>	<b>Typical Daytime Max Noise Level, L<sub>Amax</sub>, 5 mins</b>	<b>Typical Night-time Max Noise Level, L<sub>Amax</sub>, 5 mins</b>
<b>16/03/2023</b>	61 <sup>1</sup>	55	57	47	80	68
<b>17/03/2023</b>	60	56	57	49	76	68
<b>18/03/2023</b>	58	54	53	49	72	66
<b>19/03/2023</b>	60	56	52	46	80	69
<b>20/03/2023</b>	60	56	56	47	76	69
<b>21/03/2023</b>	62 <sup>2</sup>	-	56	-	75	-

<sup>1</sup>Partial daytime measurement period between 11:00 to 23:00.  
<sup>2</sup>Partial daytime measurement period between 07:00 to 11:00.

**Table 1-3: MP2 Data Summary**

<b>Date</b>	<b>Daytime Noise Level (07:00 – 23:00) LAEq, 16hr</b>	<b>Night-time Noise Level (23:00 – 07:00) LAEq, 8hr</b>	<b>Typical daytime background sound level (07:00 – 23:00), LA90, 1hr</b>	<b>Typical Night-time Background Sound Level (23:00 – 07:00), LA90, 15 mins</b>	<b>Typical Daytime Max Noise Level, LAmax, 5 mins</b>	<b>Typical Night-time Max Noise Level, LAmax, 5 mins</b>
<b>16/03/2023</b>	63 <sup>1</sup>	55	60	46	76	67
<b>17/03/2023</b>	62	57	58	48	75	68
<b>18/03/2023</b>	61	57	55	47	73	71
<b>19/03/2023</b>	61	56	57	46	76	72
<b>20/03/2023</b>	63	-	58	-	77	-

<sup>1</sup>Partial daytime measurement period between 14:00 to 23:00.

**Table 1-4: MP3 Data Summary**

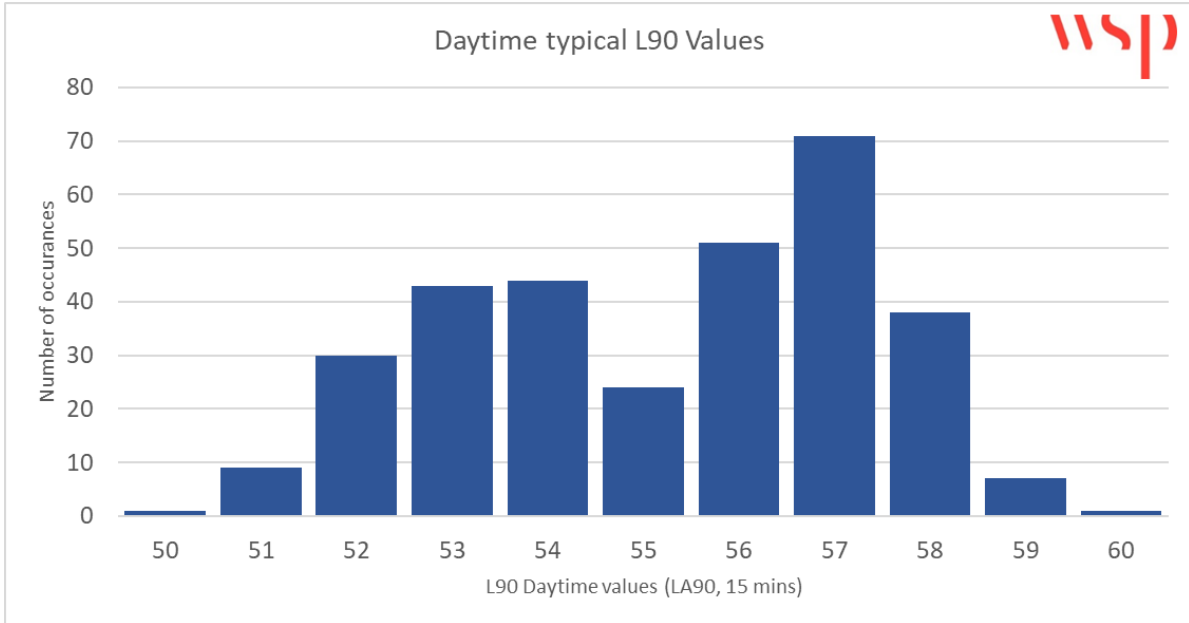
Date	Daytime Noise Level (07:00 – 23:00) L <sub>A</sub> Eq, 16hr	Night-time Noise Level (23:00 – 07:00) L <sub>A</sub> Eq, 8hr	Typical Daytime Background Sound Level (07:00 – 23:00), L <sub>A</sub> 90, 1hr	Typical Night-time Background Sound Level (23:00 – 07:00), L <sub>A</sub> 90, 15 mins	Typical Daytime Max Noise Level, L <sub>A</sub> max, 5 min	Typical Night-time Max Noise Level, L <sub>A</sub> max, 5 min
16/03/2023	57 <sup>1</sup>	52	51	49	76	61
17/03/2023	56	51	52	50	74	67
18/03/2023	53	52	51	49	70	63
19/03/2023	54	51	50	48	73	65
20/03/2023	61	52	52	48	81	67
21/03/2023	59 <sup>2</sup>	-	53	-	65	-

<sup>1</sup>Partial daytime measurement period between 10:00 to 23:00.

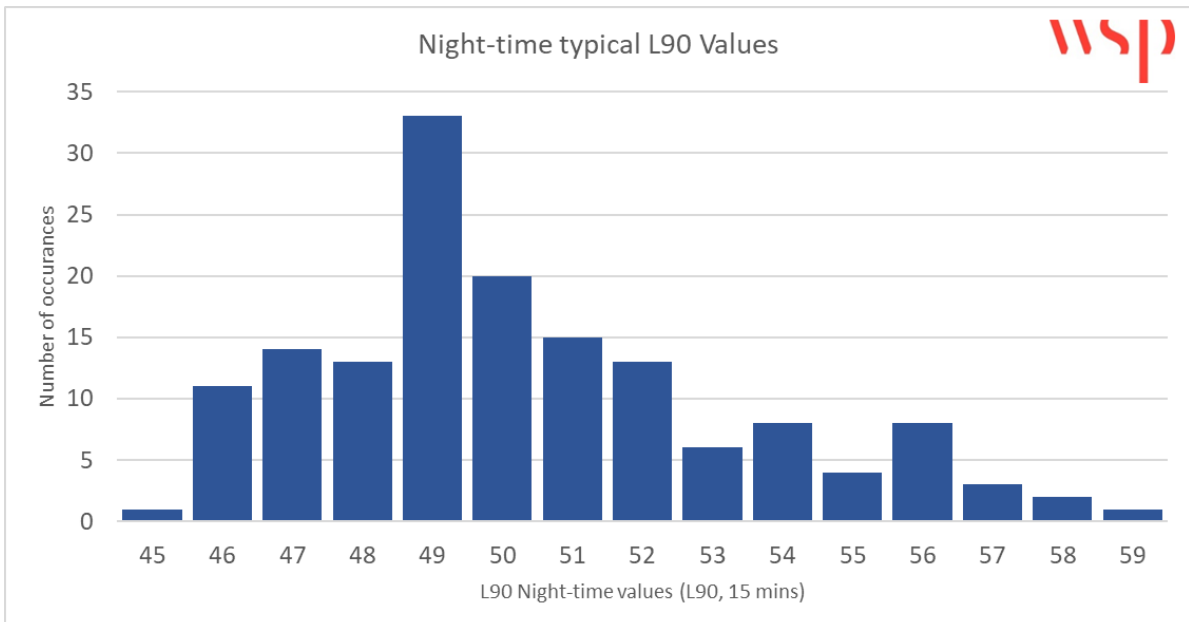
<sup>2</sup> Partial daytime measurement period between 07:00 to 10:00.

## 1.4. NOISE MONITORING GRAPHS

1.4.1. The graphs in **Figure 1-1** to **Figure 1-6** identify the typical background sound levels at each of the measurement positions, during the daytime and night-time periods.

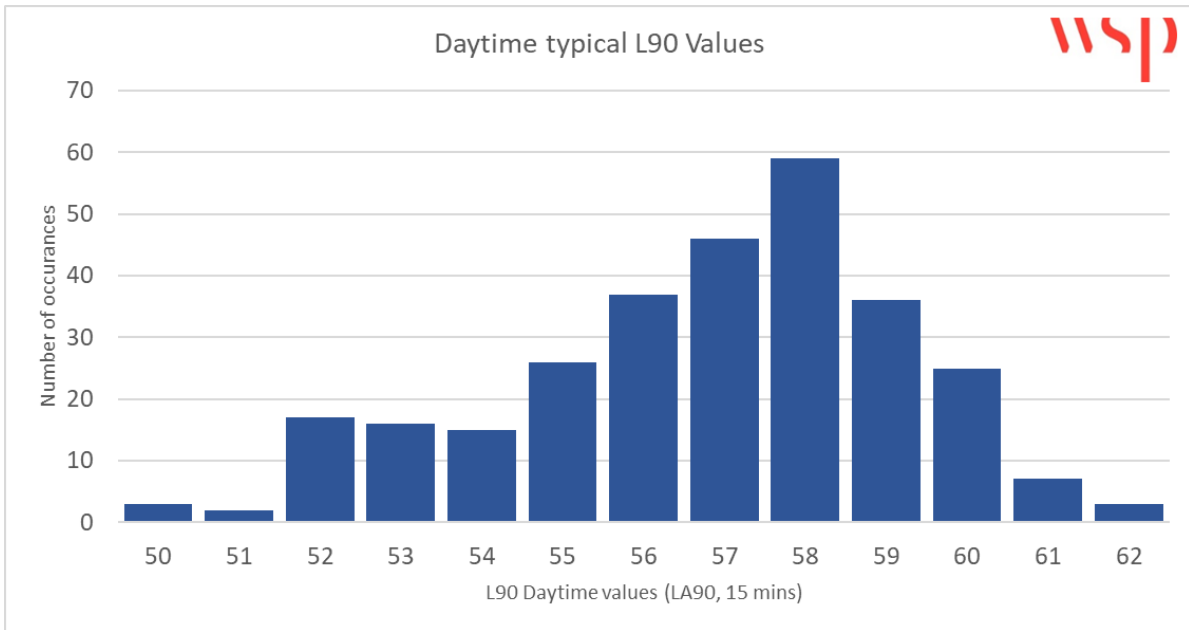


**Figure 1-1: MP1 Daytime Typical Background Sound Levels**

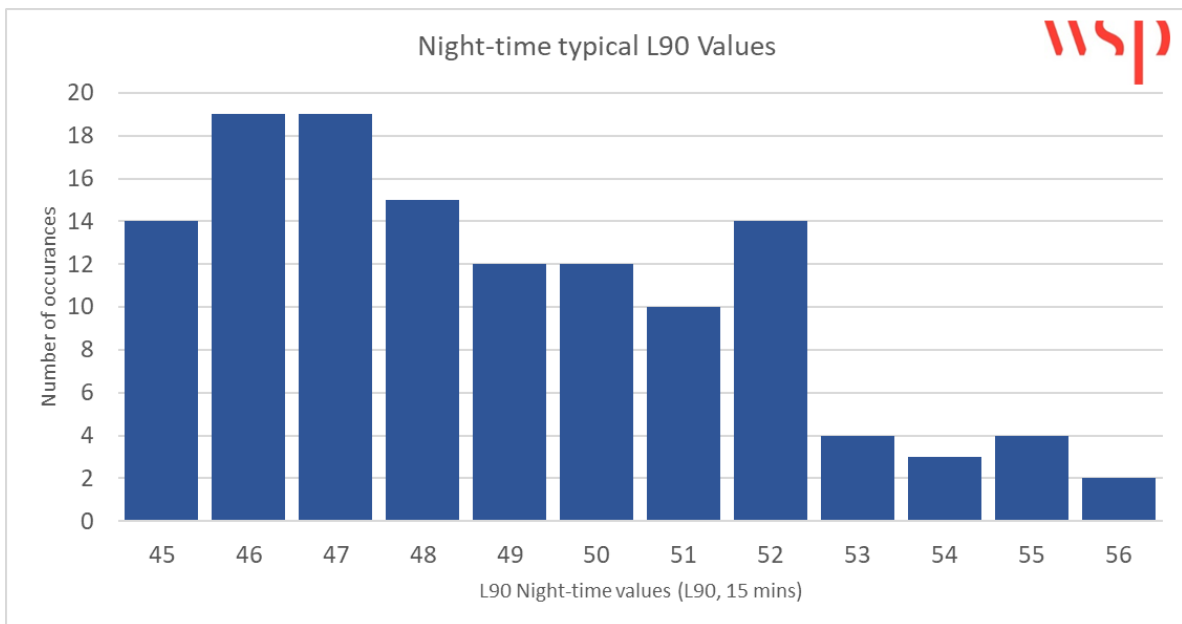


**Figure 1-2: MP1 Night-Time Typical Background Sound Levels**

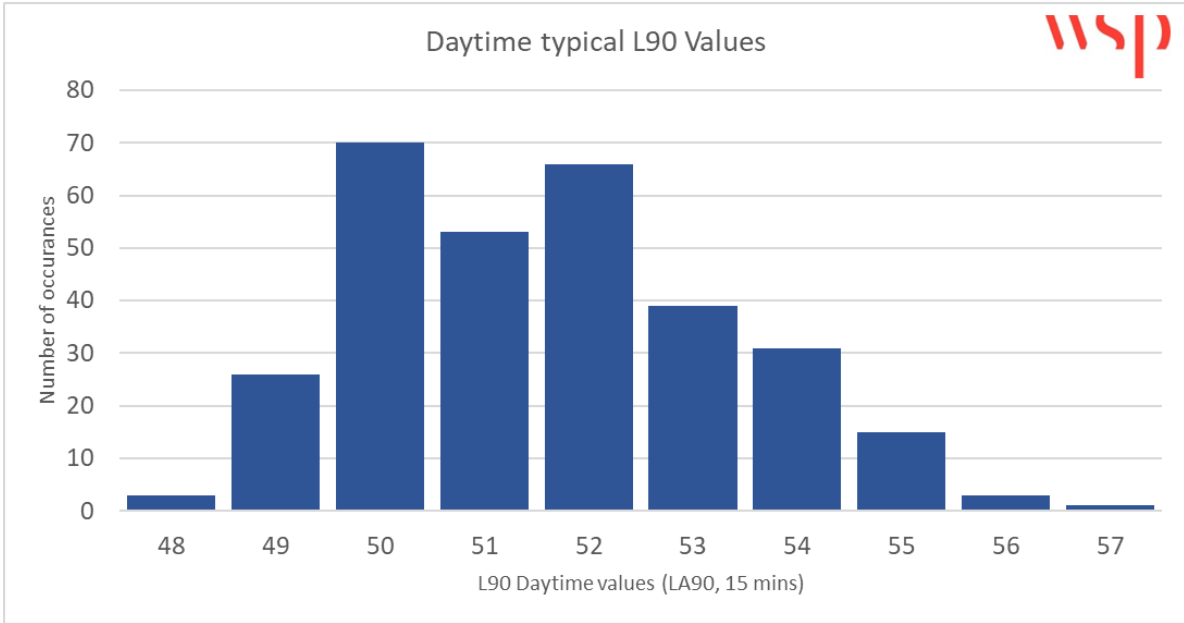




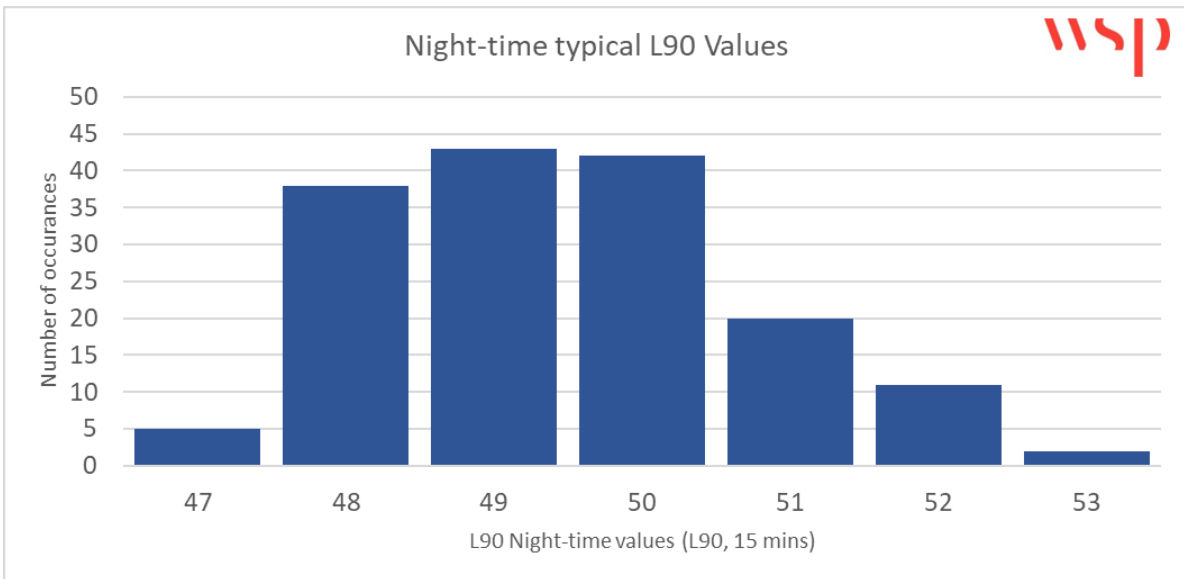
**Figure 1-3: MP2 Daytime Typical Background Sound Levels**



**Figure 1-4: MP2 Night-Time Typical Background Sound Levels**



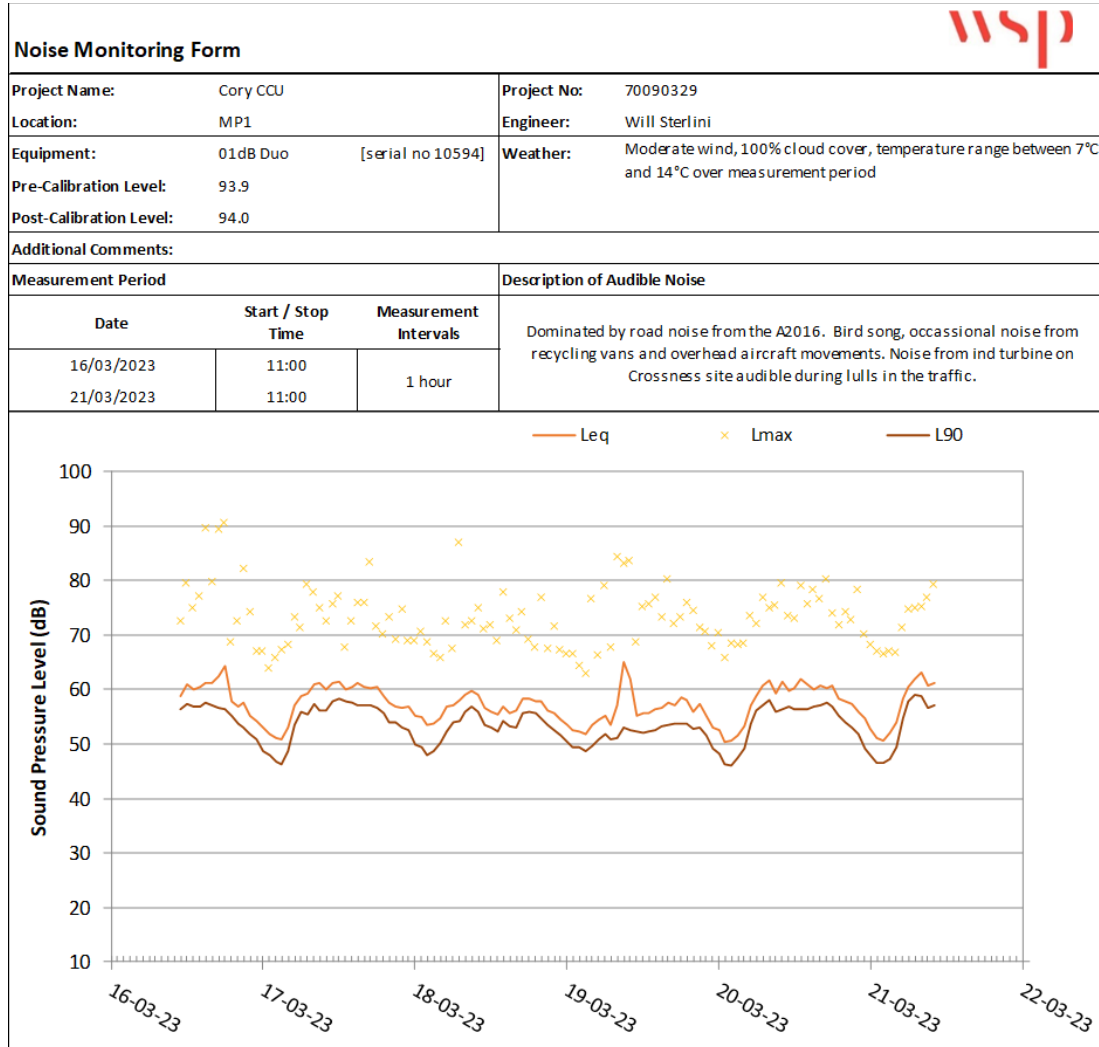
**Figure 1-5: MP3 Daytime Typical Background Sound Levels**



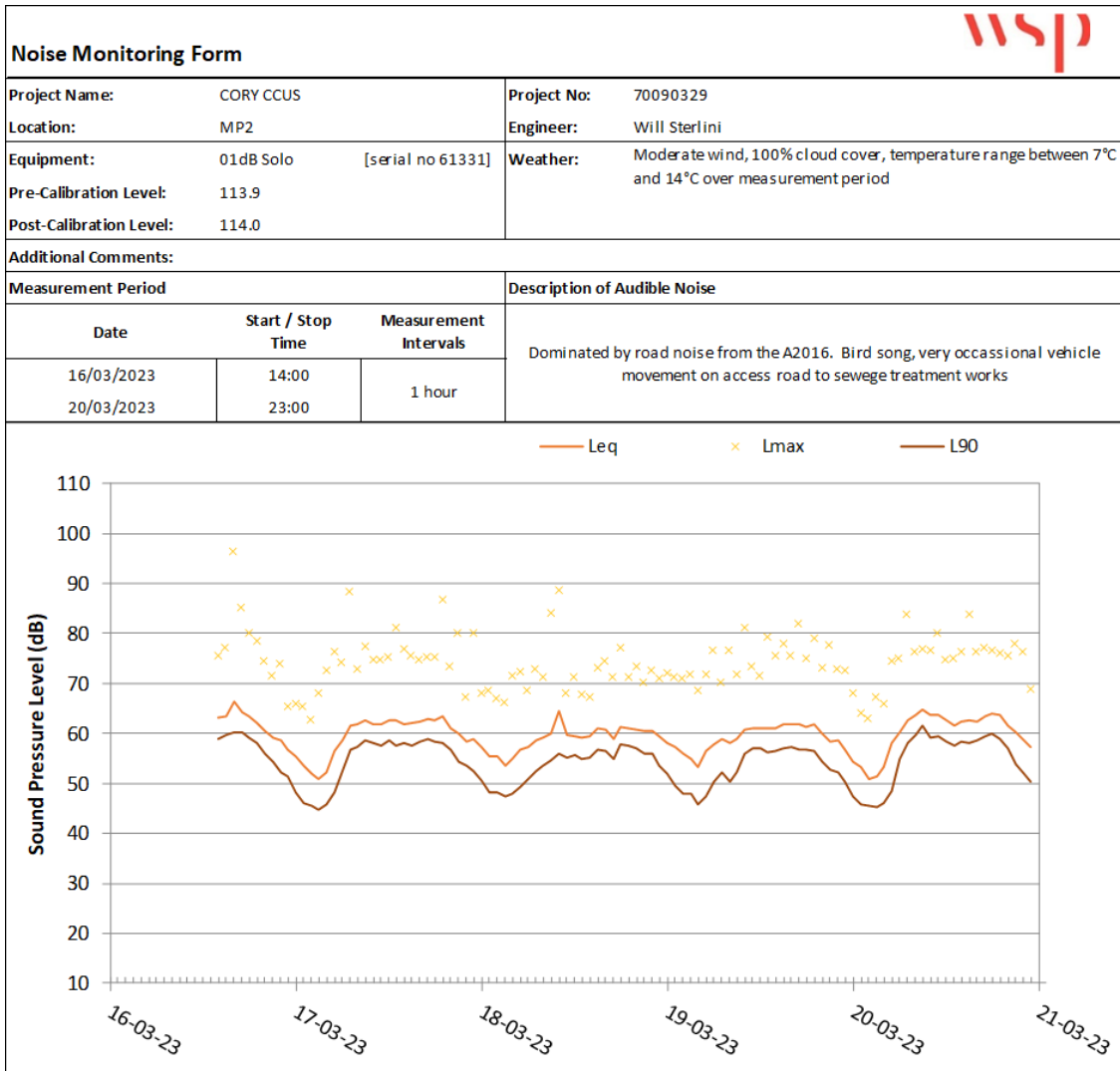
**Figure 1-6: MP3 Night-Time Typical Background Sound Levels**

## 1.5. NOISE MONITORING FORMS

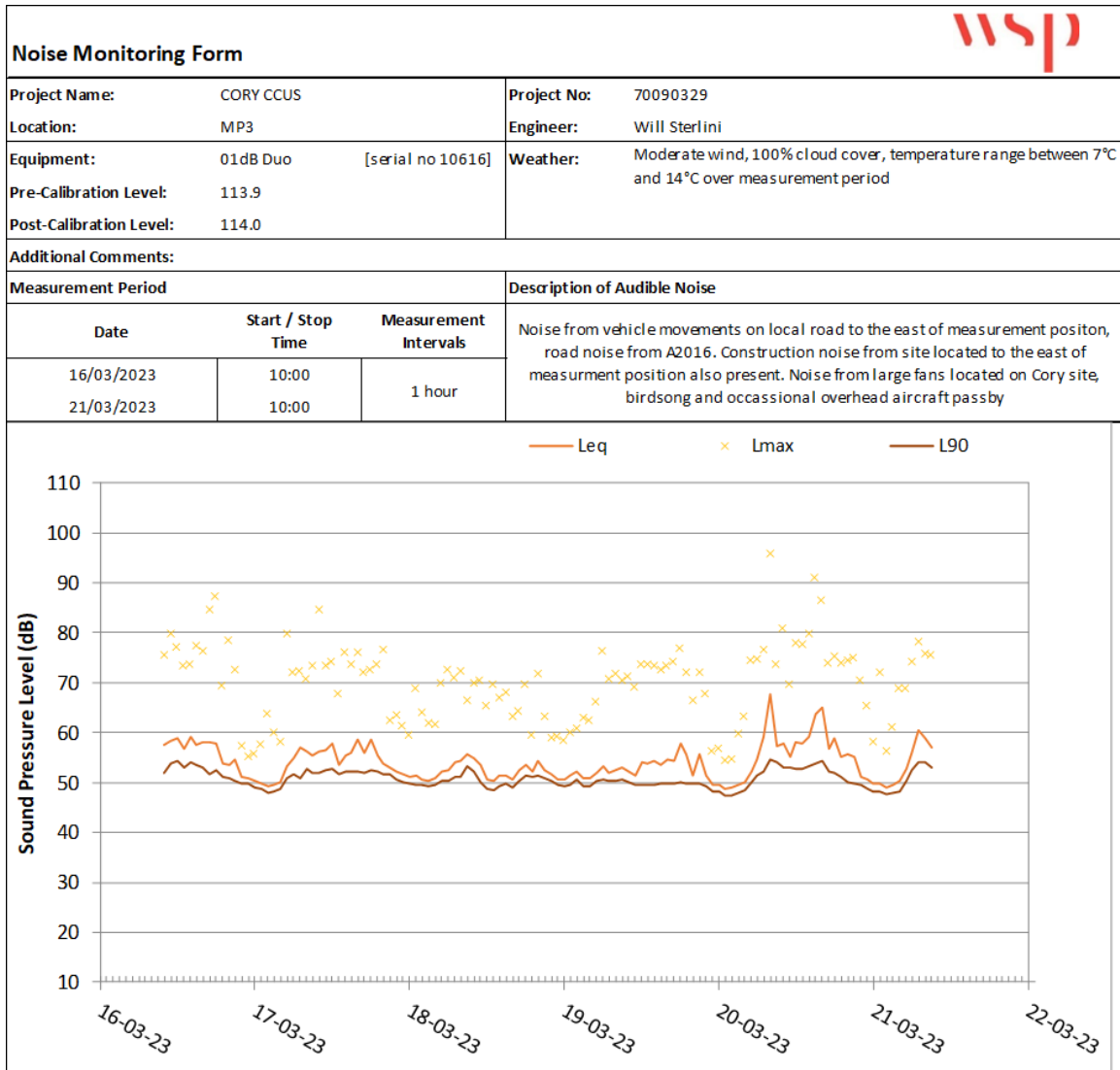
1.5.1. The noise monitoring forms in **Figure 1-7** to **Figure 1-9** identify the monitoring results at each noise monitoring position.



**Figure 1-7: MP1 Noise Monitoring Form**



**Figure 1-8: MP2 Noise Monitoring Form**



**Figure 1-9: MP3 Noise Monitoring Form**

## 1.6. NOISE MONITORING EQUIPMENT DETAILS

1.6.1. **Table 1-5** presents details of the equipment used whilst undertaking the noise monitoring surveys. Certification of calibration is available upon request.

**Table 1-5: Noise Monitoring Equipment Details**

Measurement Location	Equipment Description	Manufacturer & Type No.	Serial No.	Calibration Due Date
<b>MP1</b>	Sound Level Meter	01dB-Stell Duo 'Datalogging Integrating Sound Level Meter'	10594	16 May 2024
	Pre-amplifier	01dB-Stell PRE 22 Preamplifier	1507076	
	Microphone	G.R.A.S Type 40CD Condenser Microphone	224313	
	Calibrator	01dB Cal 21	34924020	
<b>MP2</b>	Sound Level Meter	01dB-METRAVIB Blue Solo 'Datalogging Integrating Sound Level Meter'	61331	22 October 2023
	Pre-amplifier	01dB-METRAVIB PRE 21 S	14575	
	Microphone	01dB Mereavib MCE 212 Microphone	92344	
	Calibrator	Norsonic type 1251 Sound Calibrator	31460	26 September 2023
<b>MP3</b>	Sound Level Meter	01dB-Stell Duo 'Datalogging Integrating Sound Level Meter'	10616	1 June 2023 <sup>1</sup>
	Pre-amplifier	01dB-Stell PRE 22 Preamplifier	10180	
	Microphone	G.R.A.S Type 40CD Condenser Microphone	154423	
	Calibrator	01dB Cal 21	34924053	13 May 2023

<sup>1</sup>Calibration due date at time of survey, equipment has since been calibrated prior to the issue of this report.



## DECARBONISATION

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