



ElAR Volume 6: Onshore Infrastructure Technical Appendices Appendix 6.5.5-1 Noise and Vibration Technical Baseline Report

Kish Offshore Wind Ltd

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Dublin Array Offshore Wind Farm

Environmental Impact Assessment Report

Volume 6, Appendix: 6.5.5-1 Noise and Vibration Technical Baseline
Report

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Acronyms

Term	Definition
CM	Carrickmines
dB	Decibels
DLR	Dún Laoghaire-Rathdown
DLRCC	Dún Laoghaire-Rathdown County Council
Dublin Array	Dublin Array Offshore Wind Farm
ECR	Export Cable Route
EIAR	Environmental Impact Assessment Report
EPA	Environment Protection Agency
HDD	Horizontal Directional Drilling
HWM	High Water Mark
IoA	Institute of Acoustics
$L_{A10,T}$	The A-weighted noise level exceeded for 10% of the measurement time. This parameter is often used to describe road traffic noise; and
$L_{A90,T}$	The A-weighted noise level exceeded for 90% of the measurement time. This parameter is often used to describe background noise;
$L_{Aeq,T}$	The A-weighted equivalent continuous noise level, over the measurement time (T);
$L_{Amax,F}$	The maximum A-weighted noise level during the measurement period, with the fast (F) time-weighting.
m/s	Meters per Second (Wind Speed)
NSRs	Noise Sensitive Receptors
O&M	Operations and maintenance
OES	Onshore Electrical System
OSS	Onshore Substation
SH	Shanganagh
TCC	Temporary Construction Compounds
TJB	Transition Joint Bay
UKAS	United Kingdom Accreditation Service
WWTP	Waste Water Treatment Plant

1 Introduction

1.1 Baseline characterisation report

- 1.1.1 The purpose of this technical baseline report is to characterise the baseline noise and vibration environment, for the purposes of informing the impact assessment of the Dublin Array Offshore Wind Farm (Dublin Array) onshore infrastructure works, comprising the Onshore Electrical System (OES) and Operations and Maintenance (O&M) Base. It describes the baseline relevant to the assessment of potential environmental effects that might result from the OES and O&M Base.
- 1.1.2 This baseline characterisation report has been prepared specifically for Volume 5, Chapter 5, Noise and Vibration (hereafter referred to as the Noise and Vibration Chapter) of the Environmental Impact Assessment Report (EIAR) relating to the Dublin Array onshore infrastructure works.
- 1.1.3 The report considers potential impacts which may occur as a result of the construction, operation and decommissioning of the project and the determination of sensitivity of the receiving environment; the magnitude of the effect, and the overall significance of each effect will be presented within the Noise and Vibration Chapter of the Environmental Impact Assessment Report (EIAR).
- 1.1.4 A detailed description of the project is provided within Volume 2, Chapter 6, Project Description (hereafter referred to as the Project Description Chapter).

1.2 Practitioner competency

- 1.2.1 This report has been prepared by Nick Auckland, an Associate Acoustic Consultant and corporate Member of the Institute of Acoustics (MIOA), who has over 12 years of experience in environmental noise and vibration assessments. His expertise spans a broad spectrum of projects, including energy, mining, industry, and the built environment.
- 1.2.2 Nick has significant knowledge in managing and undertaking noise and vibration surveys, including construction and industrial operations. His work involves assessment, modelling, and reporting in accordance with the appropriate standards and guidance. He has prepared numerous assessment reports to inform the planning, permitting, and consenting processes regarding a development's impacts, and has provided advice on mitigation measures where required. His portfolio includes developments across the UK and Ireland, encompassing a large number of Environmental Impact Assessments and renewable energy infrastructure projects.
- 1.2.3 Additional input into the preparation of this Chapter has also been provided by Michelle Dawson (Acoustics Technical Discipline Manager), and Jon Munns (Senior Acoustic Consultant).
- 1.2.4 Further information in relation to SLR Consulting can be found at www.slrconsulting.com.

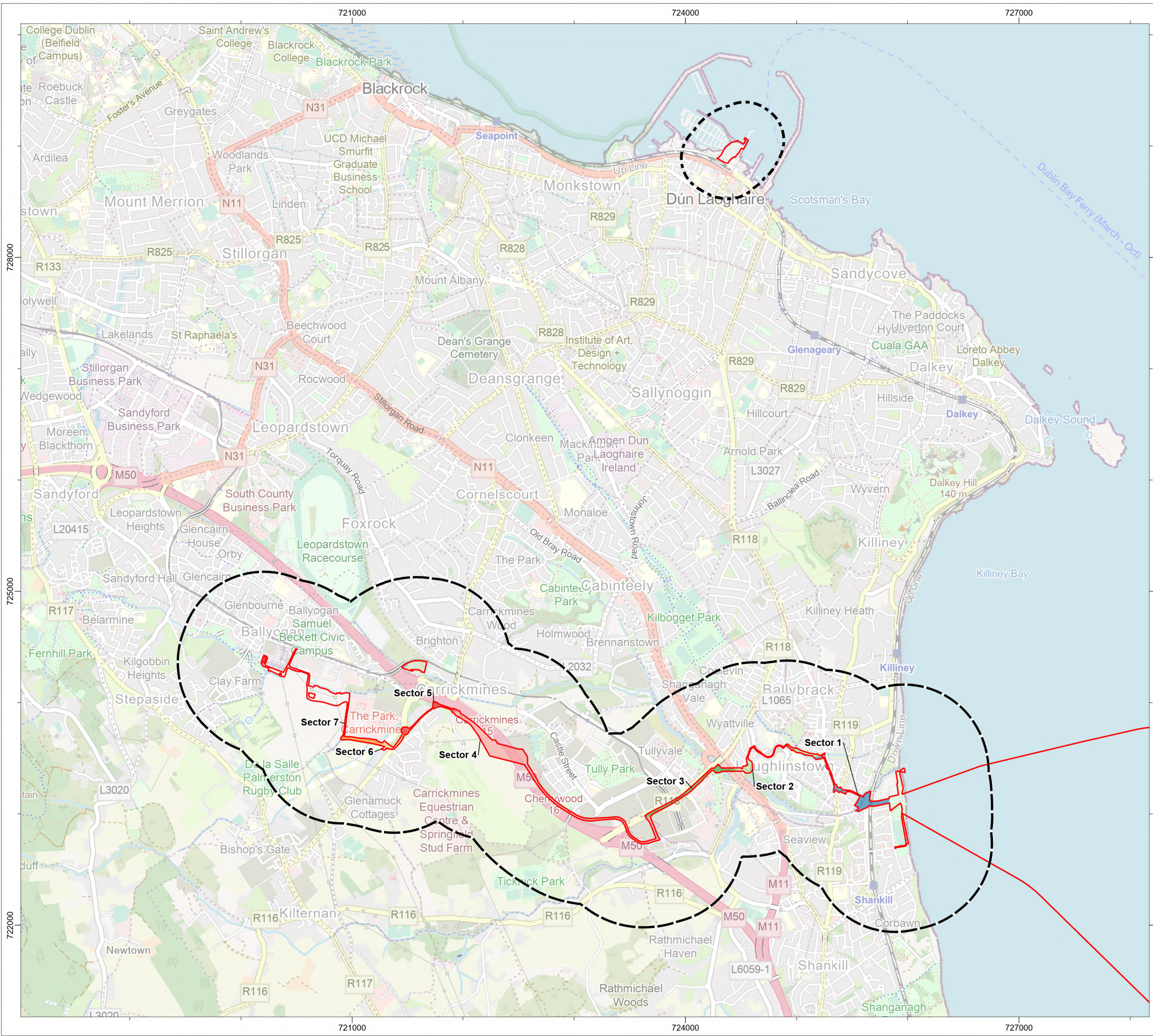
2 Methodology

2.1 Approach

- 2.1.1 The methodology for this baseline characterisation report has included monitoring to establish the baseline information available on the noise environment within the defined study areas (described in Section 2.2 below).
- 2.1.2 There is no requirement for baseline vibration monitoring, therefore this has not been undertaken.

2.2 Study area

- 2.2.1 The methodology for this chapter has included monitoring to establish the baseline information available on the noise environment within a defined study area for the OES and O&M Base.
- 2.2.2 The location of the O&M Base is shown on Figure 1 and is located within Dún Laoghaire Harbour.
- 2.2.3 The location of the OES is also shown in Figure 1 and comprises:
- Landfall Site;
 - Onshore export cable route (ECR); and
 - Onshore substation (OSS).
- 2.2.4 The OES comprises all of the onshore electrical transmission infrastructure above the HWM associated with the Dublin Array project. This includes the transition joint bays (TJBs) at the Landfall Site, a new onshore substation (OSS), and the onshore export cables connecting the TJB and OSS to the national transmission network at the existing Carrickmines 220 kV substation. The Dublin Array onshore transmission infrastructure is cumulatively referred to as the OES.



- Application Site Boundary**
- Onshore Electrical System (OES) 750 m Buffer**
- Operations and Maintenance Base (O&M Base) 320 m Buffer**
- Export Cable Route (ECR) Sector**
- Sector 1
 - Sector 2
 - Sector 3
 - Sector 4
 - Sector 5
 - Sector 6
 - Sector 7

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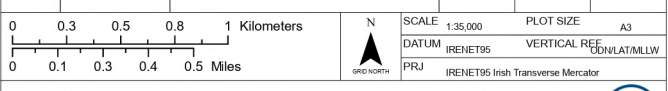
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Noise and Vibration: Study Area

DRAWING NUMBER: **Figure: 1** PAGE NUMBER: **1 of 1**

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01	2025-02-12	DRAFT	JK	SW	AE
02	2025-01-31	Public	JK	AM	AM



Landfall Site

- 2.2.5 The two offshore export cables will come ashore at the Landfall Site, located at Shanganagh Cliffs to the south of the Uisce Eireann Shanganagh Wastewater Treatment Plant (WWTP), where they will connect to the OES in two TJBs. The TJBs will be located on land above and set back from the cliff edge by approximately 90 m.
- 2.2.6 The Landfall Site is bounded to the west by Shanganagh Cliffs road, with residential dwellings beyond. The WWTP is located to the north, with a coastal path and the cliffs to the east. To the south, the area is bounded by open amenity land and sports pitches, with residential dwellings located on Seafield road.
- 2.2.7 A construction compound of under 1 ha will be established at the Landfall Site for the TJB installation and associated with trenchless installation techniques for the offshore export cables and the onshore ECR.

Onshore Export Cable Route

- 2.2.8 The onshore ECR is sub-divided into seven areas referred to as 'Sectors' for reference purposes. These sectors run west of the Landfall Site at Shanganagh Cliffs, to OSS at Jamestown as shown in Figure 1. A full description of the Onshore ECR including the sectors is set out in the Project Description Chapter.
- 2.2.9 The onshore ECR length will be 7.4 km and is predominantly proposed within public roads or public land, with some short sections being located in private land.
- 2.2.10 The noise and vibration study area for the onshore ECR, extends from Shanganagh Cliffs to the Carrickmines GCP and includes the nearest Noise Sensitive Receptors (NSRs) either side of the onshore ECR. At its closest extents, these are located 5 to 10 m from the onshore ECR.
- 2.2.11 For some sections of the Onshore ECR, trenchless drilling techniques will be deployed in order to cross linear constraints.
- 2.2.12 Trenchless drilling installation technique such as horizontal directional drilling (HDD) or similar will be utilised at a number of locations, as an alternative methodology to open-cut trenching, to cross significant environmental and physical features such as watercourses, utilities, and roads. The trenchless crossing locations are set out in Table 1.
- 2.2.13 The Clifton Park Temporary Construction Compound (TCC) will be the site of two entry pits for two trenchless crossings along the onshore ECR; one under the DART railway line and Shanganagh Community Gardens (TX-01), and another under Loughlinstown Stream (TX-02) into Bayview Crescent.

Table 1 Trenchless crossing locations along the onshore ECR

Trenchless crossing reference no.	Obstacle	Location	Sector no.
TX-01*	Railway line	Shanganagh Cliffs – Clifton Park	1
TX-02	Shanganagh River	Clifton Park – Bayview Crescent	1
TX-03	Shanganagh Road Roundabout (R119)	Bayview Glade - Shanganagh Road	1
TX-04	Kill O’ the Grange Stream	Achill Road - Loughlinstown Linear Park	1, 2
TX-05	Kill O’ the Grange Stream	Loughlinstown Linear Park	2
TX-06*	N11, Loughlinstown River	Eurofound – Cherrywood Park	2, 3
TX-07*	M50	Carrickmines Great	4
TX-08	Glenamuck District Distributor Road, Golf Stream	Carrickmines Great	6, 7
*Evening and nighttime operations have been considered at these locations i.e. 24hr drilling activities.			

2.2.14 The Leopardstown TCC will be located to the southern approach to Leopardstown Racecourse. It will serve the construction of part of the onshore ECR.

2.2.15 A detailed description of all TCCs is set out in the Project Description Chapter.

Onshore Substation (OSS)

2.2.16 An OSS will be required to connect to the existing national electricity transmission network at the existing Carrickmines 220 kV substation. The proposed location for the OSS is in close proximity of the existing Carrickmines 220 kV substation and comprises open land at the former Ballyogan Landfill Facility and Recycling Park (Waste Licence W0015-01), which is no longer in use and the extend of the waste is capped.

2.2.17 To the north, the site is bordered by open land and industrial/commercial uses, with residential dwellings beyond. To the east, the site is bordered by the Carrickmines [Retail] Park, with commercial and office uses beyond. To the south and west, the site is bordered by open grass land (also part of the former Landfill site) and Stepside Golf Course, with residential areas beyond.

2.2.18 The study area extends to the nearest residential receptors to the north, south, east and west of the proposed OSS; at their furthest extents, these are located approximately 780 m from the proposed site.

O&M Base

- 2.2.19 In order to service and maintain the offshore infrastructure, a storage and coordination facility is required (referred to as the O&M Base). The O&M Base will act as a storage and loading area for small and medium spare parts for the wind turbines and small ancillary equipment such as tools and consumables.
- 2.2.20 The proposed development will provide offices and warehouse space together with berthing facilities for maintenance vessels (referred to as CTVs) associated with operation and maintenance of Dublin Array.
- 2.2.21 The proposed development will be located on, and directly adjacent to St. Michael's Pier, within Dún Laoghaire Harbour, Co. Dublin.
- 2.2.22 The study area has a radius of 320 m from the O&M Base, as shown in Figure 1. Dún Laoghaire Harbour is located within a mixed-use urban area and includes the former ferry terminal at St Michael's Pier. The Dún Laoghaire East Pier is located to the east, and Dún Laoghaire Marina and West Pier to the west, with a mixture of commercial harbour uses within these areas, including several yacht clubs.
- 2.2.23 Harbour Road, Crofton Road and Queens Road, are located to the south, along with Dún Laoghaire train station and the railway line. Beyond the roads, there are a mixture of buildings used for public, leisure, and commercial uses, along with residential apartments.
- 2.2.24 The study area extends to the nearest residential receptors to the southeast and southwest of the O&M Base; at their furthest extents, these are located approximately 300 m from the site of the proposed O&M Base.

2.3 Baseline data collection

Landfall Site

- 2.3.1 To inform the assessment, noise surveys were undertaken at the Landfall Site. Noise monitoring locations were selected to be representative of NSRs with the greatest potential to be affected by noise from the construction and operational phases.
- 2.3.2 The NSRs and monitoring locations were identified using local information derived from site inspections, aerial imagery, and mapping. The results of the baseline noise surveys are detailed in full within Section 3.2.

Onshore Export Cable Route

- 2.3.3 To inform the assessment, baseline surveys have been undertaken at the three locations on the onshore ECR where trenchless crossings are required to operate during the evening and nighttime hours along the onshore ECR; in Sector 1 (TX-01), Sector 2 (TX-06), and Sector 4 (TX-07). Please refer to Table 1 for a reference list of the trenchless crossings.

- 2.3.4 The NSRs and monitoring locations were identified using local information derived from site inspections, aerial imagery, and mapping. The results of the baseline noise surveys are detailed in full within Section 3.3.

Onshore substation

- 2.3.5 To inform the assessment, noise surveys were undertaken at the proposed OSS location at Ballyogan. Noise monitoring locations were selected to be representative of NSRs with the greatest potential to be affected by noise from the construction and operational phases.
- 2.3.6 The NSRs and monitoring locations were identified using local information derived from site inspections, aerial imagery, and mapping. The results of the baseline noise surveys are detailed in full within Section 3.4.

O&M Base

- 2.3.7 To inform the assessment, noise surveys were undertaken close to the proposed O&M Base at Dún Laoghaire Harbour. Noise monitoring locations were selected to be representative of NSRs with the greatest potential to be affected by noise from the construction and operational phases.
- 2.3.8 The NSRs and monitoring locations were identified using local information derived from site inspections, aerial imagery, and mapping. The results of the baseline noise surveys are detailed in full within Section 3.5.

2.4 Survey methodology

- 2.4.1 The sound level meters were calibrated before taking the measurements using an acoustic calibrator and the calibration was checked upon completion of the survey. No significant drift in readings was observed. The calibration chain is traceable via the United Kingdom Accreditation Service (UKAS) to National Standards held at the National Physical Laboratory.
- 2.4.2 All measurements were undertaken in accordance with BS 7445-1:2003 'Description and measurement of environmental noise. Part 1: Basic quantities and procedures', i.e., with microphones mounted to a minimum height of 1.2 to 1.5 m above ground level and no less than 3.5 m from any reflecting surface other than the ground.
- 2.4.3 Weather conditions during the majority of the survey were suitable for environmental noise monitoring, being dry with wind speeds of less than 5 ms⁻¹. Short periods of rain and higher wind speeds were noted on the 24th March 2021 but did not have a significant impact on measured noise levels.
- 2.4.4 As part of the survey the following noise level indices were recorded:
- ▲ L_{Aeq,T}: The A-weighted equivalent continuous noise level over the measurement period;
 - ▲ L_{A90}: The A-weighted noise level exceeded for 90% of the measurement period. This parameter is often used to describe background noise;

- ▲ L_{A10} : The A-weighted noise level exceeded for 10% of the measurement period. This parameter is often used to describe road traffic noise; and
- ▲ L_{Amax} : The maximum A-weighted noise level during the measurement period.

2.4.5 Noise measurements were also undertaken in accordance current technical guidance, including:

- ▲ British Standard 5228: 2009+A1 2014 Code of practice for noise and vibration control on construction and open sites – Part 1: Noise (BS 5228-1).
- ▲ British Standard 4142 Methods for rating and assessing industrial and commercial sound (BS 4142).

BS 5228-1 construction noise

2.4.6 The impact of construction noise arising from the onshore works, upon residential receptors is determined with reference to BS 5228-1.

2.4.7 The guidance sets out methodology for predicting noise levels arising from a wide variety of construction and related activities and contains tables of sound power levels generated by a wide variety of mobile and fixed plant equipment.

2.4.8 Compliance with BS 5228-1 is expected as a minimum standard when assessing the impact of construction noise upon the existing noise environment at nearby sensitive receptors.

2.4.9 Noise levels generated by construction operations and experienced at local receptors will depend upon a number of variables, the most significant of which are likely to be:

- ▲ The amount of noise generated by plant and equipment being used at the development site, generally expressed as a sound power level;
- ▲ The periods of operation of the plant at the development site, known as the ‘on-time’;
- ▲ The distance between the noise source and the receptor, known as the ‘stand-off’;
- ▲ The attenuation due to ground absorption or barrier screening effects; and
- ▲ Reflections of noise due to the presence of hard vertical faces such as walls.

2.4.10 BS 5228-1 gives several examples of acceptable noise limits for construction or demolition noise. For this assessment, as baseline noise data is available, the ABC method has been used to determine the threshold value at the receptor locations. Appendix 6.5.5-1 Noise and Vibration Technical Baseline Report.

2.4.11 Under the ABC method, a threshold noise level is determined by measuring the existing ambient noise level at each location. This measured noise level, representing the average sound energy over a period of time (referred to as $L_{Aeq,T}$), is rounded to the nearest whole 5 dB(A). The value is then used to determine the threshold noise level for each receptor, based on Table E.1 of BS 5228-1.

2.4.12 In simpler terms, $L_{Aeq,T}$ is a way to measure the ‘average’ noise level over a given time period, factoring in all the variations in sound during the time period. For construction noise assessments, this threshold represents the maximum noise level, averaged over the relevant time period, that should not be exceeded at a receptor location due to site activities.

2.4.13 If the threshold value is exceeded, then the effect of construction noise upon nearby receptors may be significant. BS 5228-1 states that the significance of the effect will depend upon ‘other project-specific factors, such as the number of receptors affected and the duration and character of the impact.’ Professional judgement will be used to determine whether an effect is considered to be significant, and commentary explaining the reasons for this judgement will be provided. In accordance with this method, the threshold noise levels for a potentially significant effect are as detailed in Table 2 below.

Table 2 Construction noise: BS 5228-1 ABC method threshold values

Assessment category and threshold value period (LAeq)	Threshold value, in decibels (dB)		
	Category A ^{A)}	Category B ^{B)}	Category C ^{C)}
Night-time (23.00-07.00)	45	50	55
Evenings and weekends D) (19:00 – 23:00 hours weekdays; 14:00 – 23:00 hours Saturdays; 07:00 – 23:00 hours Sundays.)	55	60	65
Daytime (07.00-19.00 Monday to Friday and 08.00-14.00 Saturdays)	65	70	75
<p>NOTE 1: A significant effect has been deemed to occur if the total L_{Aeq} noise level, including construction, exceeds the threshold level for the Category appropriate to the ambient noise level.</p> <p>NOTE 2: If the ambient noise level exceeds the threshold values given in the Table (i.e. the ambient noise level is higher than the above values), then a significant effect is deemed to occur if the total L_{Aeq} noise level for the period increases by more than 3 dB due to construction activity.</p> <p>NOTE 3: Applied to residential receptors only.</p>			
<p>^{A)} Category A: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are less than these values.</p> <p>^{B)} Category B: threshold values to use when the ambient noise levels (when rounded to the nearest 5 dB) are the same as category A values.</p> <p>^{C)} Category C: threshold values to use when the ambient noise levels (when rounded to the nearest 5 dB) are higher than category A values.</p> <p>^{D)} 19.01-23.00 weekdays, 13.01-23.00 Saturdays and 07.01-23.00 Sundays.</p>			

2.4.14 Note that the targets in Table 2, are considered to be noise level limits externally at the closest noise sensitive window. They are not considered as internal noise targets.

BS 4142

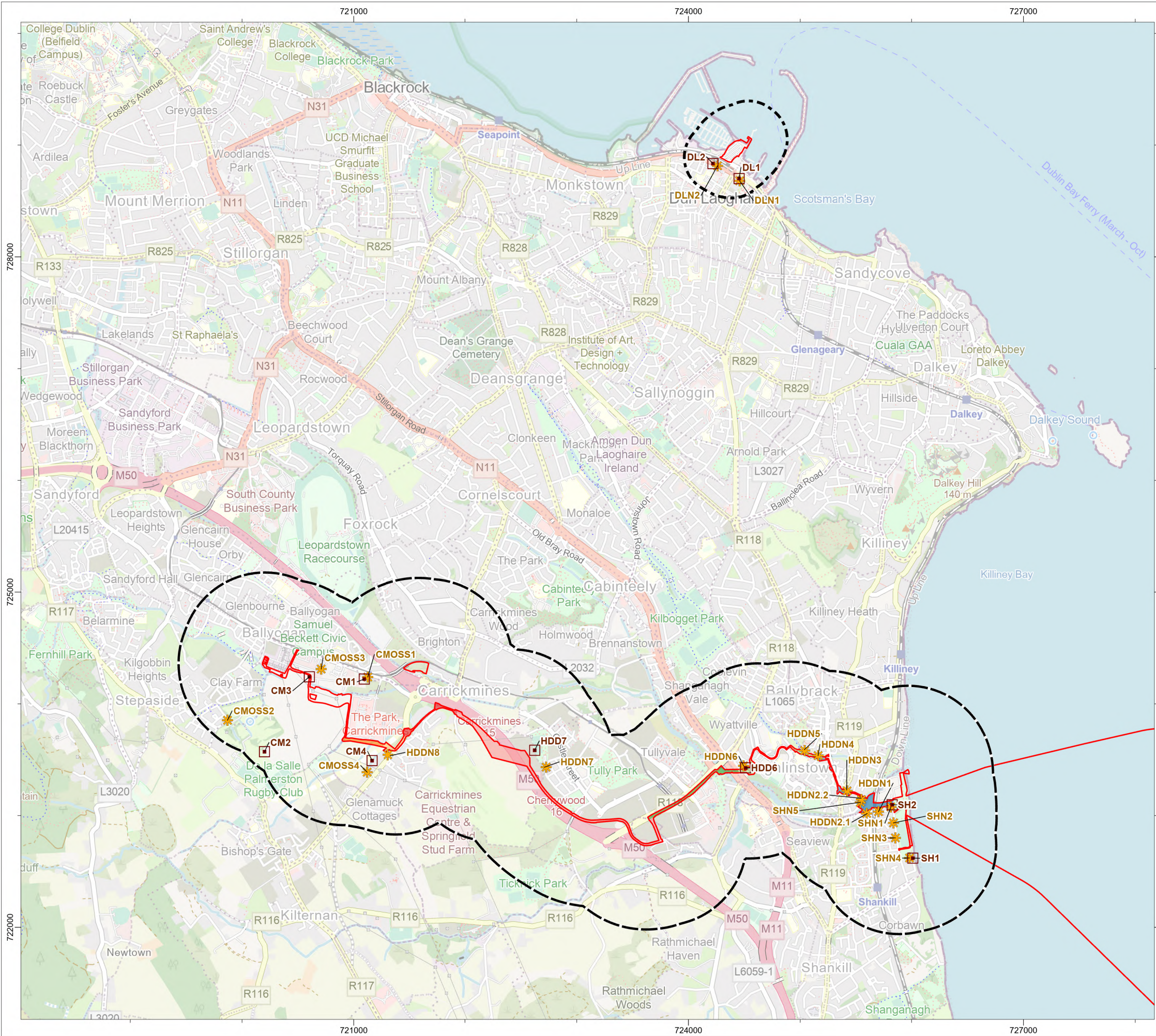
- 2.4.15 BS 4142 Methods for rating and assessing industrial and commercial sound (BS 4142) is intended to be used to assess the potential adverse impact of sound, of an industrial and/or commercial nature, at nearby sensitive receptor locations within the context of the existing sound environment.
- 2.4.16 Where the specific sound contains tonality, impulsivity and/or other sound characteristics, corrections should be applied depending on the perceptibility. For tonality, a correction of either 0, 2, 4 or 6 dB should be added; for impulsivity, a correction of either 0, 3, 6 or 9 dB should be added and if the sound contains specific sound features which are neither tonal nor impulsive a penalty of 3 dB should be added.
- 2.4.17 In addition, if the sound contains identifiable operational and non-operational periods that are readily distinguishable against the existing sound environment, a further correction of 3 dB may be applied.
- 2.4.18 The assessment of impacts contained in BS 4142 is undertaken by comparing the sound rating level, i.e. the specific sound level of the source plus any character corrections, to the measured representative background sound level immediately outside the sensitive receptor location. Consideration is then given to the context of the existing sound environment at the sensitive receptor location to assess the potential impact.
- 2.4.19 Once an initial estimate of the impact is determined, by subtracting the measured background sound level from the rating sound level, BS 4142 states that the following should be considered:
- Typically, the greater the difference, the greater the magnitude of the impact;
 - A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context;
 - A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context; and
 - The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. It is an indication that the specific sound source has a low impact when the rating level does not exceed the background sound level, depending on the context.
- 2.4.20 Response to sound can be subjective and is affected by many factors, both acoustic and non-acoustic. The significance of its impact, for example, can depend on such factors as the margin by which a sound exceeds the background sound level, its absolute level, time of day and change in the acoustic environment, as well as local attitudes to the source of the sound and the character of the neighbourhood.
- 2.4.21 It is therefore essential to place the sound in context, as an 'effective assessment cannot be conducted without an understanding of the reason(s) for the assessment and the context in which the sound occurs'.

- 2.4.22 BS 4142 also notes that ‘adverse impacts include, but are not limited to, annoyance and sleep disturbance. Not all adverse impacts will lead to complaints and not every complaint is proof of an adverse impact’. BS 4142 contains guidance for the consideration of the context of the potential impact, including consideration of the existing residual sound levels, location and/or absolute sound levels.
- 2.4.23 The impact of operational noise from the OSS upon residential receptors will be determined with reference to BS 4142.

3 Baseline

3.1 Monitoring locations

- 3.1.1 Baseline noise monitoring was undertaken at the locations shown Figure 2.



Application Site Boundary

Onshore Electrical System (OES) 750 m Buffer

Operations and Maintenance Base (O&M Base) 320 m Buffer

Export Cable Route (ECR) Sector

- Sector 1
- Sector 2
- Sector 3
- Sector 4
- Sector 5
- Sector 6
- Sector 7

Noise Sensitive Receptor (NSR) Location

Noise Monitoring Location

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PROJECT TITLE

Dublin Array

DRAWING TITLE

**Noise and Vibration:
Noise Monitoring Locations**

DRAWING NUMBER: **Figure: 2**

PAGE NUMBER: **1 of 1**

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01	2025-02-12	DRAFT	JK	SW	AE
02	2025-01-31	Public	JK	AM	AM



3.2 Landfall Site

Monitoring locations

3.2.1 At the Landfall Site, noise monitoring has been undertaken at two monitoring locations in Shanganagh (SH), which are considered representative of the closest residential receptors.

3.2.2 Noise monitoring was undertaken at the locations between the following attended periods:

▲ SH1

- 10:03 and 10:34, on 24th March 2021;
- 10:45 and 11:15, on 24th March 2021;
- 11:20 and 11:50, on 24th March 2021;
- 19:58 and 20:28, on 24th March 2021;
- 01:00 and 01:30, on 7th April 2021; and
- 01:31 and 02:01, on 7th April 2021.

▲ SH2

- 22:33 and 23:03, on 17th July 2024;
- 23:05 and 23:35, on 17th July 2024;
- 23:37 and 00:07, on 17th July 2024;
- 00:08 and 00:38, on 18th July 2024;
- 13:50 and 14:20, on 18th July 2024;
- 14:23 and 14:53, on 18th July 2024; and
- 14:54 and 15:24, on 18th July 2024.

3.2.3 The monitoring locations are detailed in Table 3 and shown on Figure 3.

Table 3 Landfall Site: monitoring locations

Location	Description	Coordinates, X (Easting) Y (Northing)
SH1	Located to the south of the Landfall and TJB area, and adjacent to residential dwellings on Seafield road, Shanganagh.	125711, 379216
SH2	Located adjacent to the western boundary of the Landfall and TJB area, and adjacent to residential dwellings on Shanganagh Cliffs Road, Shanganagh.	125567, 379716

Figure 3 Landfall – Noise monitoring locations



Weather conditions

3.2.4 Weather conditions during the majority of the survey were suitable for environmental noise monitoring, being dry with wind speeds of less than 5 ms⁻¹. Short periods of rain and higher wind speeds were noted on the 24th March 2021, but did not have a significant impact on measured noise levels.

Survey results

3.2.5 A summary of the survey is included in Table 4. The full data is detailed in full in Annex 1.

3.2.6 For the purpose of this report, the data has been split into the following time periods for the construction phase:

- ▲ Construction
 - Daytime (07:00 – 19:00) and Saturdays (08:00 – 14:00);
 - Evening (19:00 – 23:00) and weekends; and
 - Night-time (23:00 – 07:00).

3.2.7 The summary data presented is the median average of the L_{Aeq} , L_{A90} and L_{A10} and maximum L_{Amax} during each time period.

Table 4 Landfall: summary of measured noise levels for construction assessment, dB

Location	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
SH1	Daytime	48	42	50	79
	Evening	47	43	46	81
	Night	33	29	31	65
SH2	Daytime	54	83	42	53
	Evening	45	75	40	44
	Night	43	65	40	44

Soundscape

3.2.8 A description of the noise climate for the monitoring location is presented in Table 5.

Table 5 Landfall: Soundscape

Location	Period	Noise climate
SH1	Daytime	Distant road traffic, some small-scale construction noise from residential property and natural sounds including bird song and waves.
	Evening	Distant road traffic and natural sounds including bird song and waves.
	Night	Natural sounds including bird song and waves. One car passed during second measurement.
SH2	Daytime	Distant road traffic, some noise from residential property and natural sounds including bird song and waves.
	Evening	During the evening and night-time periods, mechanical noise from the wastewater treatment plant was the dominant influence on the measured background noise levels. Intermittent rail and distant aircraft movement were the dominant influence on the measured ambient and maximum values.
	Night	

3.3 Onshore Export Cable Route

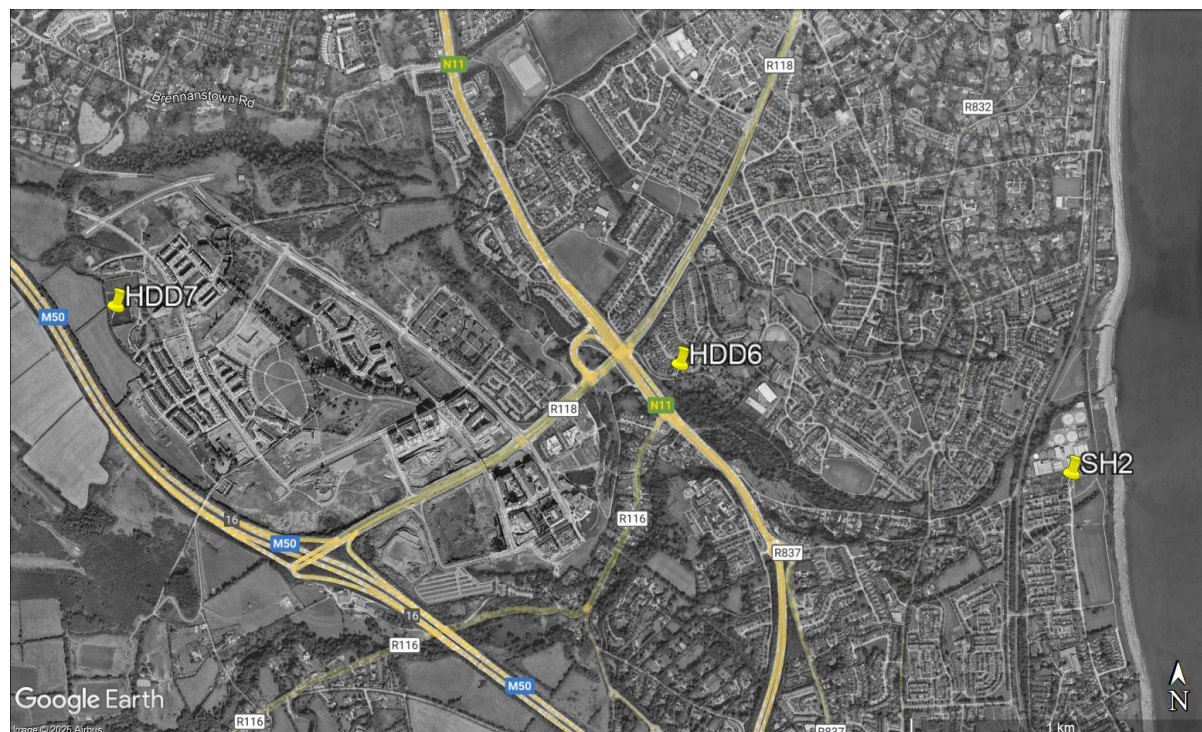
Monitoring locations

3.3.1 Baseline surveys have been undertaken at locations on the Onshore ECR where works will be required outside normal working hours, which will facilitate the installation of the cable at locations where trenchless techniques will be used, and which may necessitate continuous daytime and night-time operations. These trenchless crossing are summarised in Table 6, together with the monitoring location at each crossings, and shown on Figure 4.

Table 6 Landfall Site: baseline monitoring locations at receptors

Monitoring Location	Trenchless crossing Reference No.	Description	Co-ordinates (x, y)
SH2	TX-01 Railway Line crossing, Sector 1	Located adjacent to residential dwellings on Shanganagh Cliffs Road, at the Landfall Site (location SH2). This location is also considered to be representative of residential dwellings close to the Clifton Park TCC, associated with the trenchless crossing under the Railway line.	125567, 379716
HDD6	TX-06 N11 crossing, Sector 2 to 3	Near the gatehouse, at Eurofound, Wyattville Rd, Loughlinstown. This location is considered to be representative of residential dwellings to the north of the HDD construction compound, associated with the N11 trenchless crossing.	124283, 380154
HDD7	TX-07 M50 crossing, Sector 4	DLR Cherrywood All-Weather Pitch, Laughanstown. This location is considered to be representative of residential dwellings to the east of the trenchless drilling compound, associated with the M50 trenchless crossing (TX-07 as referenced in Table 1).	122415, 380469

Figure 4 Onshore ECR: Noise monitoring locations



Weather conditions

- 3.3.2 Continuous unattended noise monitoring was undertaken at HDD6 and HDD7, between 12:00 on Thursday 19th September 2024, and 10:00 Tuesday 24th September 2024.
- 3.3.3 Weather conditions during the survey included mild temperatures and moderate winds. Daytime temperatures generally ranged between 16°C and 19°C, while the night-time lows were around 10°C to 13°C. The weather was mostly overcast with intermittent rain showers, particularly on the 19th and 20th, where heavier showers and winds were present.
- 3.3.4 Reported wind speeds were generally below 5 m/s, but reached up to 9 m/s, with occasional gusts during periods of rain. As the week progressed, the rain tapered off slightly, but the conditions remained mostly cloudy.
- 3.3.5 The weather conditions during the monitoring period are considered suitable for use in the assessment, as wind speeds were generally within acceptable limits for accurate noise monitoring, with no adverse effects noted within the data. The conditions were representative of typical weather for the area, ensuring reliable and robust data collection.

Survey results

- 3.3.6 The results of the noise survey are summarised in Table 7. The results are detailed in full in Annex 1. It should be noted that monitoring location SH2 is located at Landfall, and the results are detailed above in Section 3.2.
- 3.3.7 For purpose of this report, the data at HDD6 and HDD7 has been split into the following time periods for the construction phases:
- ▲ Construction
 - Daytime (07:00 – 19:00) and Saturdays (07:00 – 13:00);
 - Evening (19:00 – 23:00) and weekends; and
 - Night-time (23:00 – 07:00).
- 3.3.8 The summary data presented is the median average of the LAeq, LA90 and LA10 and maximum LAmax, during each time period.

Table 7 OES: Summary of measured noise levels for construction assessment, dB

Location	Date	Period	LAeq, T	LA90	LA10	LAmax
HDD6	Thursday 19 th September 2024	Daytime (from 12:00)	55	53	56	84
		Evening	59	55	60	96
		Night-time	53	47	56	70
	Friday 20 th September 2024	Daytime	57	53	59	85
		Evening	52	50	54	73

Location	Date	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
	Saturday 21 st September 2024	Night-time	47	42	49	63
		Daytime	55	52	56	88
		Evening	53	51	55	75
		Night-time	47	42	49	63
	Sunday 22 nd September 2024	Daytime	58	53	59	96
		Evening	53	51	55	76
		Night-time	49	43	52	69
	Monday 23 rd September 2024	Daytime	57	55	58	77
		Evening	60	54	62	94
		Night-time	51	45	54	76
	Tuesday 24 th September 2024	Daytime (until 11:15)	61	59	63	75
HDD7	Thursday 19 th September 2024	Daytime (from 12:31)	51	46	53	85
		Evening	51	46	51	92
		Night-time	44	39	46	86
	Friday 20 th September 2024	Daytime	50	46	51	83
		Evening	50	44	49	96
		Night-time	43	37	43	73
	Saturday 21 st September 2024	Daytime	49	46	50	76
		Evening	48	45	50	77
		Night-time	43	38	45	71
	Sunday 22 nd September 2024	Daytime	50	46	51	79
		Evening	48	45	50	68
		Night-time	44	39	45	91
	Monday 23 rd September 2024	Daytime	53	49	54	86
		Evening	51	47	52	79
		Night-time	44	38	45	85
	Tuesday 24 th September 2024	Daytime (until 11:15)	55	51	56	84

Soundscape

3.3.9 A description of the noise climate during the setup and collection of the noise meters at the locations is presented in Table 8.

Table 8 OES: Description of noise climate

Location	Period	Noise climate
HDDN6	Daytime	Noise from constant road traffic on the N11 motorway, along with occasional road traffic on surrounding local road. Birdsong
HDDN7	Daytime	Noise from constant road traffic on the M50 motorway, along with distant road traffic on surrounding local roads. Birdsong

3.4 Onshore Substation

Monitoring locations

- 3.4.1 At the proposed OSS, unattended noise monitoring was undertaken at four monitoring locations in Carrickmines (CM), which are considered representative of the closest residential receptors which surround the OSS site.
- 3.4.2 At CM1 to CM3, continuous unattended noise monitoring was undertaken between 16:30 on Friday 19th March 2021, and 11:00 Thursday 25th March 2021. At CM4, continuous unattended noise monitoring was undertaken between 11:30 on Friday 15th December 2023, and 11:00 Thursday 21st December 2023.

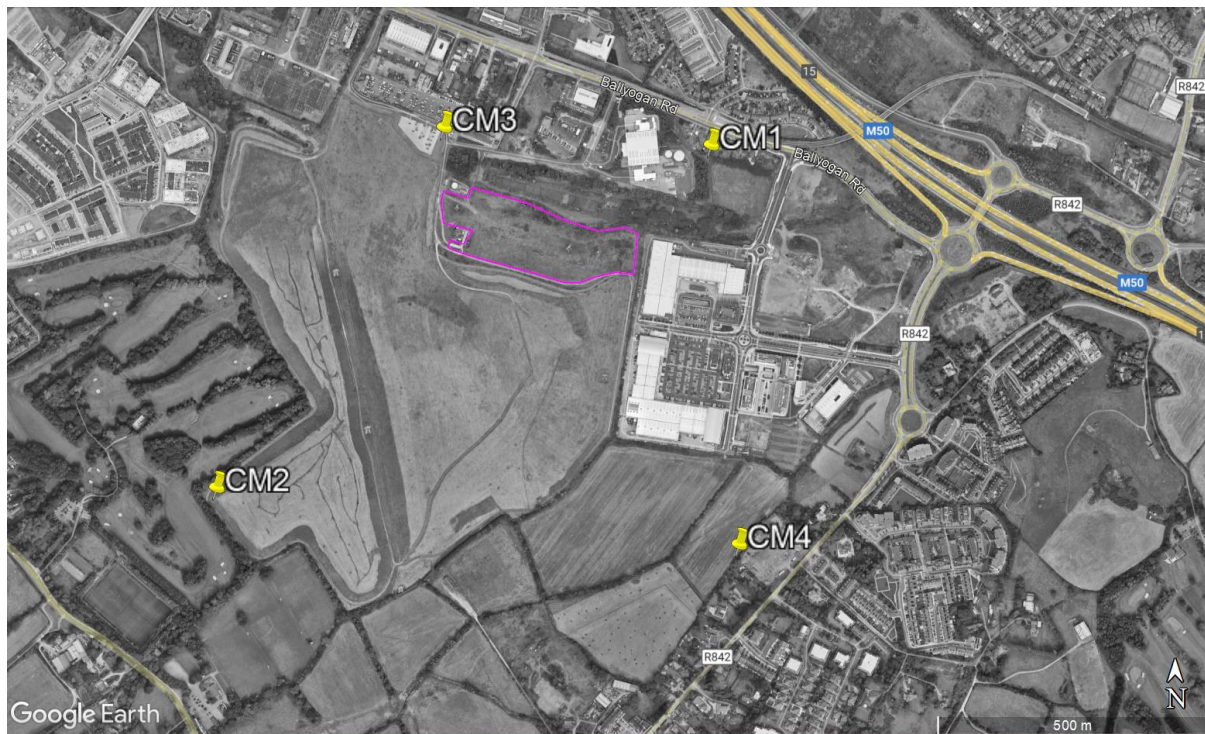
The locations are detailed in Table 9 and shown on Figure 5

Figure 6 below.

Table 9 OSS: Noise monitoring locations

Location	Description	Coordinates, X (Easting) Y (Northing)
CM1	To the northwest of the OSS, adjacent to the rear garden of residential dwellings located off Ballyogan Road, Carrickmines.	120887, 381190
CM2	To the south of the OSS near the golf course. This location is considered to be representative of residential dwellings at Ballyogan and Cruagh Manor.	119998, 380659
CM3	To the west of the OSS, next to the Dún Laoghaire Rathdown County Council operations centre car park. This location is considered to be representative of residential dwellings to the northwest, located off Ballyogan Road, Carrickmines.	120451, 381266
CM4	To the southeast of the OSS, close to the rear garden of residential dwellings located off Glenamuck Road, Carrickmines.	120980, 380535

Figure 5 OSS: noise monitoring locations



Weather conditions

- 3.4.3 Weather conditions during the majority of the survey were suitable for environmental noise monitoring, being dry with wind speeds of less than 5 m/s. Short periods of rain and higher wind speeds were noted on the 23rd and 24th March 2021 but did not have a significant impact on measured noise levels, at CM1, CM2, and CM3.
- 3.4.4 During the survey at CM4 in December 2023, high wind and rain present on Sunday 17th, and from Wednesday 20th until the end of the survey period at 07.00 on Thursday 21st. Onerous data during these periods has not been included within the survey results below.

Survey results

- 3.4.5 The results of the noise survey are summarised in Table 10 and Table 11. The results are detailed in full in Annex 1.
- 3.4.6 For purpose of this report, the data has been split into the following time periods for the construction and operational phases as follows:
- ▲ Construction – Shown in Table 10;
 - Daytime (07:00 – 19:00) and Saturdays (07:00 – 13:00);
 - Evening (19:00 – 23:00) and weekends; and
 - Night-time (23:00 – 07:00).

- ▲ Operational - Shown in Table 11;
 - Daytime (07:00 – 23:00); and
 - Night-time (23:00 – 07:00).

3.4.7 The summary data presented is the median average of the L_{Aeq} , L_{A90} and L_{A10} and maximum L_{Amax} during each time period.

Table 10 OSS: Summary of measured noise levels for construction assessment, dB

Location	Date	Period	$L_{Aeq, T}$	L_{A90}	L_{A10}	L_{Amax}
CM1	Friday 19 th March 2021	Daytime	47	42	47	79
		Evening	46	42	47	84
		Night	41	35	42	77
	Saturday 20 th March 2021	Daytime	45	41	47	78
		Evening	45	41	46	75
		Night	39	35	40	56
	Sunday 21 st March 2021	Daytime	42	38	43	74
		Night	42	33	38	78
	Monday 22 nd March 2021	Daytime	44	36	41	80
		Evening	36	31	35	61
		Night	36	28	33	61
	Tuesday 23 rd March 2021	Daytime	50	41	46	95
		Evening	40	34	40	66
		Night	37	32	38	64
	Wednesday 24 th March 2021	Daytime	51	40	46	91
		Evening	40	37	41	69
		Night	40	34	39	67
	Thursday 25 th March 2021	Daytime	49	44	50	77
CM2	Friday 19 th March 2021	Daytime	36	32	37	60
		Evening	36	33	36	67
		Night	36	31	34	62
	Saturday 20 th March 2021	Daytime	42	37	43	65
		Evening	45	38	43	70
		Night	38	32	36	65
		Daytime	42	35	42	67

Location	Date	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
	Sunday 21 st March 2021	Night	35	31	33	59
	Monday 22 nd March 2021	Daytime	40	36	41	66
		Evening	37	31	33	64
		Night	34	30	31	65
	Tuesday 23 rd March 2021	Daytime	47	39	48	71
		Evening	40	35	38	67
		Night	37	32	35	65
	Wednesday 24 th March 2021	Daytime	44	40	45	69
		Evening	40	36	42	69
		Night	43	34	41	69
	Thursday 25 th March 2021	Daytime	47	44	48	68
CM3	Friday 19 th March 2021	Daytime	43	40	43	60
		Evening	44	41	46	61
		Night	44	39	43	68
	Saturday 20 th March 2021	Daytime	50	48	51	70
		Evening	48	45	50	73
		Night	44	40	45	68
	Sunday 21 st March 2021	Daytime	48	43	47	72
		Night	43	38	41	71
	Monday 22 nd March 2021	Daytime	47	45	48	77
		Evening	40	37	39	65
		Night	44	39	41	76
	Tuesday 23 rd March 2021	Daytime	53	46	53	81
		Evening	45	39	46	68
		Night	43	34	43	67
	Wednesday 24 th March 2021	Daytime	52	46	53	87
		Evening	47	42	49	72
		Night	49	40	49	74
	Thursday 25 th March 2021	Daytime	55	49	58	78
CM4		Daytime	48	46	50	79
		Evening	44	41	45	65

Location	Date	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
	Friday 15 th December 2023	Night-time	45	39	47	79
	Saturday 16 th December 2023	Daytime	55	48	57	79
		Night	49	42	51	80
	Monday 18 th December 2023	Daytime	47	45	49	82
		Evening	43	41	44	62
		Night	39	36	41	60
	Tuesday 19 th December 2023	Daytime	55	50	57	109
		Evening	60	51	63	84
		Night	60	51	63	85

Table 11 OSS: Summary of measured noise levels for operational assessment, free-field, dB

Location	Date	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
CM1	Friday 19 th March 2021	Daytime	46	42	47	84
		Night	41	35	42	77
	Saturday 20 th March 2021	Daytime	45	41	46	78
		Night	39	35	40	56
	Sunday 21 st March 2021	Daytime	42	38	43	74
		Night	42	33	38	78
	Monday 22 nd March 2021	Daytime	43	36	40	80
		Night	36	28	33	61
	Tuesday 23 rd March 2021	Daytime	49	40	44	95
		Night	37	32	38	64
	Wednesday 24 th March 2021	Daytime	50	40	45	91
		Night	40	34	39	67
	Thursday 25 th March 2021	Daytime	49	44	50	77
CM2	Friday 19 th March 2021	Daytime	36	33	36	67
		Night	36	31	34	62
	Saturday 20 th March 2021	Daytime	44	38	43	70
		Night	38	32	36	65
	Sunday 21 st March 2021	Daytime	42	35	42	67
		Night	35	31	33	59

Location	Date	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
	Monday 22 nd March 2021	Daytime	40	35	40	66
		Night	34	30	31	65
	Tuesday 23 rd March 2021	Daytime	46	39	45	71
		Night	37	32	35	65
	Wednesday 24 th March 2021	Daytime	43	39	45	69
		Night	43	34	41	69
	Thursday 25 th March 2021	Daytime	47	44	48	68
CM3	Friday 19 th March 2021	Daytime	43	41	45	61
		Night	44	39	43	68
	Saturday 20 th March 2021	Daytime	49	46	50	73
		Night	44	40	45	68
	Sunday 21 st March 2021	Daytime	48	43	47	72
		Night	43	38	41	71
	Monday 22 nd March 2021	Daytime	46	45	48	77
		Night	44	39	41	76
	Tuesday 23 rd March 2021	Daytime	52	46	51	81
		Night	43	34	43	67
	Wednesday 24 th March 2021	Daytime	51	46	52	87
		Night	49	40	49	74
	Thursday 25 th March 2021	Daytime	55	49	58	78
CM4	Friday 15 th December 2023	Daytime	46	43	47	79
		Night	45	39	47	79
	Saturday 16 th December 2023	Daytime	50	44	52	79
		Night	52	42	55	80
	Sunday 17 th December 2023	Daytime	58	48	61	87
		Night	57	46	61	81
	Monday 18 th December 2023	Daytime	45	43	46	82
		Night	39	36	41	60
	Tuesday 19 th December 2023	Daytime	58	50	60	109
		Night	60	51	63	85

Location	Date	Period	L _{Aeq, T}	L _{A90}	L _{A10}	L _{Amax}
	Wednesday 20 th December 2023	Daytime	63	54	66	90
		Night	66	57	69	89

Soundscape

3.4.8 A description of the noise climate during the setup and collection of the noise meters at the monitoring locations is presented below in Table 12.

Table 12 OSS: Description of noise climate

Location	Period	Noise climate
CM1	Daytime	Local road traffic and activities from the recycling centre.
CM2	Daytime	Natural sounds including bird song.
CM3	Daytime	Local road traffic, including car park. Plant noise from office roof and nearby substation.
CM4	Daytime	Local road traffic and birdsong.

3.5 O&M Base

Monitoring locations

3.5.1 At the proposed O&M Base in Dún Laoghaire Harbour, noise monitoring has been undertaken at two monitoring locations, to the southeast and southwest of the O&M Base site.

The monitoring locations are detailed in Table 13, and shown on Figure 6.

Table 13 O&M Base: Monitoring locations

Location	Description	Coordinates, X (Easting) Y (Northing)
DL1	Located approximately 290 m to the south of the existing harbor building, outside The Pavilion (theater) and The Forty Foot (public house), off Marine Road. This location is considered to be representative of nearby residential dwellings at Pavilion Apartments.	124667, 385419
DL2	Located approximately 320 m to the southwest of the Site, within the Crofton Road (N31) public carpark. This location is considered to be representative of nearby residential apartments at Harbour Square.	124444, 385583

Figure 6 O&M Base: noise monitoring locations



3.5.2 Attended noise monitoring was undertaken at the two locations, between the following daytime and night-time periods:

DL1

- 11:48 - 12:48, and 14:02 - 15:02, 6th September 2023; and
- 00:36 - 01:06, and 01:47 - 02:17, 7th September 2023.

DL2

- 12:56 - 13:56, and 15:09 - 16:09, 6th September 2023; and
- 00:00 - 00:30, and 01:11 - 01:41, 7th September 2023.

Weather conditions

3.5.3 During the daytime survey, the temperature was around 22 °C, with wind speeds below 1 m/s. During the night-time, the temperature was around 15 °C, with wind speeds around 2 to 3 m/s.

Survey results

3.5.4 The results of the noise survey are summarised in Table 14 and detailed in full in Annex 2.

3.5.5 For purpose of this report, the data has been split into the following time periods for the construction and operational phases:

- ▲ Construction and Operational
 - Daytime (07:00 – 23:00); and
 - Night-time (23:00 – 07:00).

3.5.6 The summary data presented is the median average of the L_{Aeq} , L_{A90} and L_{A10} and maximum L_{Amax} , during each time period.

Table 14 O&M Base: Summary of measured noise levels, dB

Location	Period	$L_{Aeq, T}$	L_{A90}	L_{A10}	L_{Amax}
DL1	Daytime	54	56	50	80
	Night-time	44	47	39	77
DL2	Daytime	60	65	47	83
	Night-time	52	51	31	76

Soundscape

3.5.7 A description of the noise climate for the monitoring location is presented in Table 15.

Table 15 O&M Base: Description of noise climate

Location	Period	Noise climate
DL1	Daytime	Bustling town centre location, audible sources include road traffic noise along with plant/fan noise, and general ambient sounds.
	Night-time	Noise from road traffic movements, along with some construction works on nearby road. Low level music was audible from local bar, including rooftop AC plant.
DL2	Daytime	Bustling town centre location, audible sources include road traffic noise, along with rail and bus services, and general ambient sounds and distant boat horn.
	Night-time	Noise from road traffic movements, including idling buses, and distant boat horn.

4 Assessment baseline

4.1 Landfall Site

4.1.1 The noise sensitive receptors situated close to the Landfall Site would potentially be impacted from construction noise, therefore it is necessary to evaluate the measured baseline levels in conjunction with:

- ▲ The ABC Method contained in BS 5228-1 to calculate the daytime, evening and night-time construction noise threshold limits.

Construction phase – ambient levels and threshold limits

4.1.2 The measured baseline noise levels have been evaluated in conjunction with the ABC Method contained in BS 5228-1 to calculate the daytime, evening, and night-time construction noise threshold limits, which is shown in Table 16.

4.1.3 It should be noted that the measured ambient sound levels have been rounded to the nearest decibel.

Table 16 Calculated construction noise threshold noise limits, dB

Location	Period	Lowest measured average ambient level $L_{Aeq,T}$	Calculated threshold value $L_{Aeq,T}$
SH1	Daytime	48	65
	Evening	47	55
	Night-time	32	45
SH2	Daytime	52	65
	Evening	45	55
	Night-time	43	45

4.2 Onshore Export Cable Route

4.2.1 Baseline surveys have been undertaken at locations on the Onshore ECR where works will be required outside normal working hours, which will facilitate the installation of the cable at locations where trenchless techniques will be used and which may necessitate continuous daytime and nighttime operations. Receptors at these locations would potentially be impacted from construction noise during the daytime and nighttime, therefore it is necessary to evaluate the measured baseline levels in conjunction with:

- ▲ The ABC Method contained in BS 5228-1 to calculate the daytime, evening and night-time construction noise threshold limits.

Construction phase – ambient levels and threshold limits

- 4.2.2 With reference to the BS 5228-1 ABC method in Table 2, and the measured average ambient level at the monitoring location as set out in Table 4, the calculated threshold limit is shown in Table 17.
- 4.2.3 It should be noted that the measured ambient sound levels have been rounded to the nearest decibel.

Table 17 Calculated construction noise threshold noise limits, dB

Location	Period	Lowest average ambient level $L_{Aeq,T}$	Calculated threshold value $L_{Aeq,T}$
HDDN4	Daytime	55	65
	Evening	52	55
	Night-time	47	55*
HDDN5	Daytime	49	65
	Evening	48	55
	Night-time	43	50**
* Category C threshold values apply ** Category B threshold values apply			

4.3 Onshore Substation

- 4.3.1 The noise sensitive receptors situated close to the OSS would potentially be impacted by construction and operational noise, therefore it is necessary to evaluate the measured baseline levels in conjunction with:
- ▲ The ABC Method contained in BS 5228-1 to calculate the daytime construction noise threshold limits; and
 - ▲ BS 4142 to calculate the background sound levels to be utilised for the operational assessment at the residential receptors.

Construction phase

- 4.3.2 With reference to the BS 5228-1 ABC method in Table 2, and the measured average ambient level at each monitoring location as set out in Table 10, the calculated threshold limits are shown in Table 18.
- 4.3.3 The summary data presented is the median average of the L_{Aeq} , L_{A90} and L_{A10} and maximum L_{Amax} , during each time period.
- 4.3.4 It should be noted that the measured ambient sound levels have been rounded to the nearest decibel.

Table 18 OSS: Calculated Construction Noise Threshold Limits, dB

Location	Period	Lowest measured average ambient level $L_{Aeq,T}$	Calculated threshold value $L_{Aeq,T}$
CM1	Daytime	44	65
CM2	Daytime	40	65
CM3	Daytime	47	65
CM4	Daytime	40	65

Operational phase

4.3.5 The representative background levels are the lowest L_{A90} levels during the daytime and night-time periods, as set out in Table 11 .

4.3.6 The representative background sound levels (L_{A90}) which will be utilised for the operational noise assessment of the substation on the residential receptors are shown in Table 19.

Table 19 OSS: Representative background sound levels, dB

Location	Period	Representative background level L_{A90}
CM1	Daytime	36
	Night-time	28
CM2	Daytime	33
	Night-time	30
CM3	Daytime	41
	Night-time	34
CM4	Daytime	37
	Night-time	32

4.4 O&M Base study area

4.4.1 The noise sensitive receptors situated close to the O&M Base would potentially be impacted by construction and operational noise, therefore it is necessary to evaluate the measured baseline levels in conjunction with:

- The ABC Method contained in BS 5228-1 to calculate the daytime construction noise threshold limits; and
- BS 4142 to calculate the background sound levels to be utilised for the operational assessment at the residential receptors.

Construction phase

- 4.4.2 With reference to the BS 5228-1 ABC method in Table 2, and the ambient level at each monitoring location as set out in Table 14, the calculated threshold limits are shown in Table 20.
- 4.4.3 The summary data presented is the median average of the L_{Aeq} , L_{A90} and L_{A10} and maximum L_{Amax} , during each time period.

Table 20 O&M Base: Calculated construction noise threshold limits, dB

Location	Period	Lowest measured average ambient level $L_{Aeq,T}$	Calculated threshold value $L_{Aeq,T}$
DL1	Daytime	54	65
DL2	Daytime	60	65

Operational phase

- 4.4.4 The representative background levels are the median L_{A90} levels set out in Table 11, during the daytime and night-time periods.
- 4.4.5 The representative background sound levels (L_{A90}) which will be utilised for the operational noise assessment of the substation on the residential receptors are shown in Table 21.

Table 21 O&M Base: Representative background sound levels, dB

Location	Period	Representative background level L_{A90}
DL1	Daytime	56
	Night-time	47
DL2	Daytime	65
	Night-time	51

5 Future receiving environment

- 5.1.1 Environmental Protection Agency (EPA) EIAR guidance recommends that the assessments should include a description of the likely evolution of the future receiving environment if the project were not to proceed (i.e. the 'do-nothing scenario').
- 5.1.2 Given the linear nature of the project, the noise environment along the route varies but is predominantly urban, with key sources of noise predominately arising from means of transport including road traffic, the railway, and LUAS light rail operations across different sections. These existing noise sources are not anticipated to increase significantly in future.
- 5.1.3 With respect to the OES and O&M Base, it is expected that, should the proposed development not proceed (the 'do nothing' scenario), no noise impacts are expected to arise.

6 Data gaps & uncertainties

- 6.1.1 This report has been prepared based on baseline noise monitoring undertaken at locations considered representative to the closest receptors.
- 6.1.2 Uncertainty has been considered as a limit to the accuracy of any noise assessment, including associated steps of measurement. Factors have been considered to include (but not limited to) the following:
- The inherent accuracy limitation of methodology in Standards and guidance; and
 - Variability in meteorological conditions.
- 6.1.3 As advised in BS 4142, areas of uncertainty associated with measurements of sound include:
- The complexity and level of variability of the residual acoustic environment;
 - The location(s) selected for taking the measurements;
 - The distance between sources of sound and the measurement location and intervening ground conditions;
 - The number of measurements taken;
 - The measurement time intervals;
 - The range of times when the measurements have been taken;
 - The range of suitable weather conditions during which measurements have been taken;
 - The measurement method and variability between different practitioners in the way the method is applied;
 - The level of rounding of each measurement recorded; and
 - The instrumentation used.
- 6.1.4 With reference to the above, the measurement uncertainty was minimised during the baseline sound survey as follows:
- Baseline sound measurements were taken at positions representative of the noise-sensitive receptors to the Landfall Site; the trenchless crossing locations where nighttime construction works are proposed, the OSS, and the O&M Base;
 - The measurement positions were located away from reflecting surfaces and as far as reasonably practicable leafy vegetation;

- ▲ The reliability of the baseline noise survey can be influenced by the number of individual measurements conducted, as this determines the extent to which the acoustic environment is accurately characterised. A limited number of measurements may fail to capture the full variability of the environment, particularly in areas with fluctuating or intermittent noise sources. To ensure the survey results are robust and representative of the actual conditions, the assessment incorporated a combination of short-term and long-term monitoring, designed to address these challenges and reduce uncertainty:

 - Short-term monitoring involved several measurements at each location during various parts of the day, evening, and night, capturing temporal variations across these periods, and included typical midweek and weekend periods;
 - Long-term monitoring was carried out at the OSS to provide a more comprehensive understanding of the acoustic environment. This approach enabled continuous data collection over several days, capturing fluctuations in noise levels that may occur due to daily patterns, variations in weather conditions, or ambient noise sources. By using long-term monitoring, the assessment accounts for periods of atypical noise events, ensuring a more accurate representation of the baseline environment;
- ▲ Appropriate weather websites were consulted for the duration of the survey so any unsuitable weather conditions could be identified and these periods excluded from the monitoring results; and
- ▲ The instrumentation was appropriate for the accurate measurement of environmental noise and complied with recognised standards for noise assessment procedures.

6.1.5 Due to COVID restrictions, baseline noise levels measured in 2021 may have been lower than what is typical. However, the necessity of conducting further baseline surveys since 2021 was carefully evaluated, and it was determined that additional surveys were unnecessary. This is because the BS 5228-1 construction threshold limits, were derived directly from the lowest measured baseline levels which represent an estimate of worst-case conditions. Using these conservative baseline levels ensures that the assessment remains robust and protective of receptors.

6.1.6 Furthermore, ambient noise levels at most locations were significantly below the BS 5228-1 Category A value of 65 dB during the daytime, which is the threshold below which construction noise is generally considered negligible. The 2021 baseline levels therefore align with recognised industry standards and best practices, further supporting the validity of the methodology.

7 Summary

7.1 Landfall Site

- 7.1.1 The Landfall Site will be located at Shanganagh Cliffs, immediately south of the Uisce Éireann WWTP.
- 7.1.2 Attended noise monitoring has been undertaken at a two monitoring locations, to the south and west of the Landfall Site.
- 7.1.3 The noise-sensitive receptors situated close to the Landfall would potentially be impacted by construction noise, therefore it is necessary to evaluate the measured baseline levels in conjunction with BS 5228-1.

7.2 Onshore Export Cable Route

- 7.2.1 The onshore ECR is sub-divided into seven sectors, which run west from the Landfall Site at Shanganagh Cliffs to the OSS. The onshore ECR length will be up to 7.4 km and is predominantly proposed within public roads or public land, with some short sections being located in private land. For some sections of the Onshore ECR, trenchless drilling techniques will be deployed in order to cross linear constraints.
- 7.2.2 To inform the assessment, baseline surveys have been undertaken at the three locations where trenchless crossings are required to operate outside of standard working hours along the onshore ECR; in Sector 1 (TX-01), Sector 2 (TX-06), and Sector 4 (TX-07).
- 7.2.3 The noise-sensitive receptors situated close to the trenchless crossings would potentially be impacted by construction noise, therefore it is necessary to evaluate the measured baseline levels in conjunction with BS 5228-1.

7.3 Onshore substation

- 7.3.1 The proposed OSS site will be located in close proximity of the existing Carrickmines 220kV substation at the former Ballyogan Landfill Facility.
- 7.3.2 Unattended noise monitoring was undertaken at four monitoring locations, which are considered representative of the closest residential receptors surrounding the site.
- 7.3.3 The noise-sensitive receptors situated close to the OSS would potentially be impacted by both construction and operational noise, therefore the measured baseline levels will be evaluated in conjunction with BS 5228-1 and BS 4142 respectively.

7.4 O&M Base

- 7.4.1 The O&M Base is proposed to be located at St. Michael's Pier in Dún Laoghaire Harbour. The footprint of the existing harbour maintenance building, and the quay side in the immediate vicinity of St. Michael's Pier have been used to develop the design.

- 7.4.2 Attended noise monitoring has been undertaken at two monitoring locations, during a representative period of the daytime and night-time. The locations are considered representative of the closest residential receptors to the site.
- 7.4.3 The noise-sensitive receptors situated close to the O&M Base would potentially be impacted by both construction and operational noise, therefore the measured baseline levels will be evaluated in conjunction with BS 5228-1 and BS 4142 respectively.

8 References

BS 4142:2014+A1:2019 'Methods for rating and assessing industrial and commercial sound'.

Available at: <https://knowledge.bsigroup.com/products/methods-for-rating-and-assessing-industrial-and-commercial-sound?version=standard> [Accessed: January 2025].

BS 5228-1:2009+A1:2014 British Standards Institution (February 2014), 'Code of practice for noise and vibration control on construction and open sites – Noise'

<https://knowledge.bsigroup.com/products/code-of-practice-for-noise-and-vibration-control-on-construction-and-open-sites-noise?version=standard&tab=overview> [Accessed: December 2023].

Annex 1 Survey Data – Onshore Infrastructure

Table 22 SH1: Measured noise levels, free-field, dB

Monitoring location	Date	Period	LAeq, T	LA90	LA10	LAmix
SH1	24/03/2021	10:03 to 10:34	47.8	42.5	49.7	67.6
	24/03/2021	10:45 to 11:15	46.6	40.6	47.9	67.9
	24/03/2021	11:20 to 11:50	51.4	41.7	53.1	78.6
	24/03/2021	19:58 to 20:28	47.4	42.7	46.4	81.4
	07/04/2021	01:00 to 01:30	32.0	29.0	31.5	63.5
	07/04/2021	01:31 to 02:01	34.4	29.6	31.0	64.7

Table 23 SH1: measured noise levels, free-field, dB

Monitoring location	Date	Period	LAeq, T	LA90	LA10	LAmix
SH2	17/07/2024	22:33 to 23:03	45.0	75.0	40.0	44.0
	17/07/2024	23:05 to 23:35	44.0	65.0	40.0	44.0
	17/07/2024	23:37 to 00:07	43.0	60.0	40.0	43.0
	18/07/2024	00:08 to 00:38	43.0	57.0	41.0	44.0
	18/07/2024	13:50 to 14:20	54.0	83.0	46.0	53.0
	18/07/2024	14:23 to 14:53	55.0	80.0	44.0	54.0
	18/07/2024	14:54 to 15:24	52.0	76.0	42.0	53.0

Table 24 CM1: measured noise levels, free-field, dB

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-19	16:30:00	46.7	44.1	48.5	57.3

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-19	16:45:00	50.1	43.9	51.9	78.8
2021-03-19	17:00:00	46.2	41.9	47.5	61.9
2021-03-19	17:15:00	45.9	41.6	47.2	69.9
2021-03-19	17:30:00	45.9	41.8	48.0	64.7
2021-03-19	17:45:00	45.0	41.3	47.1	65.6
2021-03-19	18:00:00	45.5	42.1	45.7	68.1
2021-03-19	18:15:00	45.4	43.6	46.8	55.6
2021-03-19	18:30:00	45.9	41.3	45.9	65.9
2021-03-19	18:45:00	45.5	42.6	47.6	57.9
2021-03-19	19:00:00	43.4	41.3	44.9	53.5
2021-03-19	19:15:00	42.9	41.1	44.0	56.3
2021-03-19	19:30:00	42.5	41.2	43.7	45.8
2021-03-19	19:45:00	45.0	42.9	46.7	50.0
2021-03-19	20:00:00	45.7	42.1	47.9	54.3
2021-03-19	20:15:00	47.7	45.1	49.5	55.5
2021-03-19	20:30:00	47.4	44.5	49.5	54.3
2021-03-19	20:45:00	45.8	43.0	47.9	53.3
2021-03-19	21:00:00	46.0	42.7	48.3	54.2
2021-03-19	21:15:00	45.4	42.3	47.5	55.2
2021-03-19	21:30:00	45.8	42.1	48.7	53.7
2021-03-19	21:45:00	44.3	40.8	47.0	54.5
2021-03-19	22:00:00	44.7	41.3	47.2	55.8
2021-03-19	22:15:00	50.8	37.7	44.4	83.8
2021-03-19	22:30:00	42.4	38.6	43.8	57.8
2021-03-19	22:45:00	39.3	37.1	40.9	46.3
2021-03-19	23:00:00	41.3	37.7	43.6	55.0
2021-03-19	23:15:00	41.5	36.6	44.0	56.0
2021-03-19	23:30:00	42.0	39.2	44.3	53.6
2021-03-19	23:45:00	42.5	39.2	45.2	53.6
2021-03-20	00:00:00	41.6	38.9	42.7	57.0
2021-03-20	00:15:00	42.0	39.8	43.8	47.7
2021-03-20	00:30:00	39.2	36.9	41.4	48.3
2021-03-20	00:45:00	38.5	36.8	40.2	46.7
2021-03-20	01:00:00	38.7	36.7	40.2	43.0
2021-03-20	01:15:00	36.4	32.8	38.8	46.3
2021-03-20	01:30:00	35.9	31.3	38.1	51.6
2021-03-20	01:45:00	34.0	30.4	36.4	45.3

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-20	02:00:00	34.3	31.4	36.4	43.9
2021-03-20	02:15:00	33.9	32.5	35.0	42.4
2021-03-20	02:30:00	32.8	30.9	34.3	45.9
2021-03-20	02:45:00	36.5	33.5	38.4	43.9
2021-03-20	03:00:00	37.3	35.8	38.7	41.8
2021-03-20	03:15:00	36.6	35.1	37.7	41.2
2021-03-20	03:30:00	37.8	35.7	39.7	47.0
2021-03-20	03:45:00	41.5	40.6	42.6	45.6
2021-03-20	04:00:00	36.2	34.1	37.8	43.4
2021-03-20	04:15:00	34.8	32.7	36.6	41.5
2021-03-20	04:30:00	36.0	34.2	37.7	41.9
2021-03-20	04:45:00	39.2	32.8	41.6	57.6
2021-03-20	05:00:00	38.9	31.1	41.7	55.8
2021-03-20	05:15:00	42.4	31.7	47.4	56.5
2021-03-20	05:30:00	44.7	33.4	49.5	57.7
2021-03-20	05:45:00	43.2	34.3	47.5	60.3
2021-03-20	06:00:00	39.1	34.7	41.9	50.4
2021-03-20	06:15:00	51.1	35.1	54.0	76.9
2021-03-20	06:30:00	40.0	36.2	42.4	60.3
2021-03-20	06:45:00	40.4	36.9	42.7	49.8
2021-03-20	07:00:00	51.1	37.9	49.6	77.6
2021-03-20	07:15:00	39.5	35.1	41.6	53.0
2021-03-20	07:30:00	38.4	34.5	41.1	60.1
2021-03-20	07:45:00	39.5	35.0	41.2	62.1
2021-03-20	08:00:00	43.5	34.9	45.2	59.5
2021-03-20	08:15:00	39.4	35.6	41.7	57.4
2021-03-20	08:30:00	38.9	35.6	41.1	56.3
2021-03-20	08:45:00	40.7	37.4	42.5	61.0
2021-03-20	09:00:00	49.8	38.4	52.5	73.1
2021-03-20	09:15:00	40.6	38.3	42.3	53.3
2021-03-20	09:30:00	41.3	38.3	43.1	56.0
2021-03-20	09:45:00	42.9	39.5	44.3	64.6
2021-03-20	10:00:00	44.7	41.4	46.3	59.4
2021-03-20	10:15:00	44.9	42.1	46.8	57.5
2021-03-20	10:30:00	45.6	42.4	47.7	57.2
2021-03-20	10:45:00	45.4	42.4	47.3	62.9
2021-03-20	11:00:00	45.7	42.5	47.4	60.5
2021-03-20	11:15:00	45.1	41.6	46.9	58.6
2021-03-20	11:30:00	45.8	42.8	47.4	62.9
2021-03-20	11:45:00	46.2	43.3	48.2	58.0
2021-03-20	12:00:00	47.2	43.5	49.4	61.2
2021-03-20	12:15:00	45.4	42.5	47.2	62.5
2021-03-20	12:30:00	44.4	41.9	46.2	57.3

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-20	12:45:00	44.7	42.1	46.6	59.0
2021-03-20	13:00:00	45.5	42.9	47.3	59.3
2021-03-20	13:15:00	44.1	41.8	45.8	58.2
2021-03-20	13:30:00	45.0	42.3	46.9	58.1
2021-03-20	13:45:00	46.5	43.3	48.5	60.4
2021-03-20	14:00:00	45.5	43.1	47.2	57.7
2021-03-20	14:15:00	44.5	41.9	46.3	60.2
2021-03-20	14:30:00	45.9	40.5	46.1	63.5
2021-03-20	14:45:00	44.0	40.6	46.0	58.4
2021-03-20	15:00:00	45.7	41.3	48.1	60.4
2021-03-20	15:15:00	47.1	43.4	49.1	64.1
2021-03-20	15:30:00	45.1	42.8	46.7	60.3
2021-03-20	15:45:00	45.1	42.2	47.1	60.3
2021-03-20	16:00:00	46.6	43.2	48.4	61.4
2021-03-20	16:15:00	46.7	42.6	46.9	74.6
2021-03-20	16:30:00	44.7	42.2	46.5	56.1
2021-03-20	16:45:00	45.0	42.4	46.8	55.5
2021-03-20	17:00:00	44.3	41.5	46.2	58.7
2021-03-20	17:15:00	44.6	42.2	46.2	52.9
2021-03-20	17:30:00	45.1	41.7	47.1	62.9
2021-03-20	17:45:00	43.6	41.3	45.4	55.6
2021-03-20	18:00:00	44.2	40.8	45.6	61.4
2021-03-20	18:15:00	45.3	40.9	46.2	64.3
2021-03-20	18:30:00	45.0	42.5	46.8	56.0
2021-03-20	18:45:00	44.6	42.3	46.2	61.1
2021-03-20	19:00:00	45.8	43.1	47.6	57.7
2021-03-20	19:15:00	43.9	40.8	45.7	56.1
2021-03-20	19:30:00	42.5	39.9	44.5	52.3
2021-03-20	19:45:00	43.5	40.7	45.4	57.6
2021-03-20	20:00:00	43.4	40.4	45.3	57.0
2021-03-20	20:15:00	42.7	39.5	44.8	53.5
2021-03-20	20:30:00	42.5	39.2	44.6	51.5
2021-03-20	20:45:00	42.4	39.2	44.7	53.3
2021-03-20	21:00:00	40.8	37.6	43.1	51.7
2021-03-20	21:15:00	40.9	38.1	42.8	54.0
2021-03-20	21:30:00	47.4	37.6	44.3	68.3
2021-03-20	21:45:00	46.8	37.4	45.8	65.9
2021-03-20	22:00:00	40.9	37.3	43.2	51.4

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-20	22:15:00	39.2	35.9	41.4	47.3
2021-03-20	22:30:00	38.5	35.3	40.8	47.9
2021-03-20	22:45:00	38.1	34.8	40.6	46.8
2021-03-20	23:00:00	38.6	35.7	40.8	48.0
2021-03-20	23:15:00	39.8	35.3	42.4	54.1
2021-03-20	23:30:00	38.9	35.5	41.1	48.6
2021-03-20	23:45:00	38.7	35.1	41.3	47.3
2021-03-21	00:00:00	38.4	34.7	41.1	48.5
2021-03-21	00:15:00	38.5	34.8	41.2	47.4
2021-03-21	00:30:00	38.1	34.8	40.5	49.1
2021-03-21	00:45:00	37.7	34.5	40.0	47.4
2021-03-21	01:00:00	37.5	34.0	40.0	48.3
2021-03-21	01:15:00	36.9	33.3	39.2	48.5
2021-03-21	01:30:00	37.1	33.9	39.3	45.3
2021-03-21	01:45:00	36.6	33.5	38.8	45.3
2021-03-21	02:00:00	36.0	33.4	38.0	47.3
2021-03-21	02:15:00	37.0	34.0	39.2	47.1
2021-03-21	02:30:00	37.3	33.9	39.5	45.6
2021-03-21	02:45:00	37.6	34.5	39.6	47.0
2021-03-21	03:00:00	36.9	33.8	39.0	45.2
2021-03-21	03:15:00	37.1	34.3	39.3	46.7
2021-03-21	03:30:00	36.9	33.6	39.2	48.9
2021-03-21	03:45:00	37.1	33.8	39.3	47.2
2021-03-21	04:00:00	37.1	33.9	39.5	44.9
2021-03-21	04:15:00	37.2	33.7	39.5	46.6
2021-03-21	04:30:00	37.3	33.9	39.5	46.9
2021-03-21	04:45:00	40.5	35.0	43.1	55.8
2021-03-21	05:00:00	41.1	35.2	44.9	54.0
2021-03-21	05:15:00	43.4	35.0	48.3	56.3
2021-03-21	05:30:00	41.4	35.9	44.3	54.4
2021-03-21	05:45:00	40.0	35.7	42.7	49.5
2021-03-21	06:00:00	40.4	36.2	42.8	52.0

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-21	06:15:00	39.8	35.4	42.7	54.5
2021-03-21	06:30:00	39.0	35.5	41.2	56.0
2021-03-21	06:45:00	39.8	36.3	42.0	50.5
2021-03-21	07:00:00	43.1	35.3	41.2	73.8
2021-03-21	07:15:00	40.6	36.6	42.6	61.2
2021-03-21	07:30:00	41.0	37.0	42.9	59.2
2021-03-21	07:45:00	39.4	35.6	41.3	59.7
2021-03-21	08:00:00	38.5	35.3	40.6	50.1
2021-03-21	08:15:00	39.6	35.5	42.3	53.6
2021-03-21	08:30:00	40.1	35.4	41.8	60.7
2021-03-21	08:45:00	40.0	36.7	42.1	55.3
2021-03-21	09:00:00	42.0	37.9	43.2	62.6
2021-03-21	09:15:00	41.8	38.3	43.9	59.5
2021-03-21	09:30:00	43.2	39.4	45.5	61.8
2021-03-21	09:45:00	43.5	39.6	45.6	57.3
2021-03-21	10:00:00	44.0	39.5	44.9	64.0
2021-03-21	10:15:00	42.7	39.5	44.8	55.4
2021-03-21	10:30:00	44.0	40.7	46.4	55.1
2021-03-21	10:45:00	43.0	40.4	44.6	61.0
2021-03-21	11:00:00	43.1	39.8	44.8	57.3
2021-03-21	11:15:00	44.1	40.6	46.1	58.7
2021-03-21	11:30:00	42.5	39.6	44.6	52.9
2021-03-21	11:45:00	44.2	41.1	46.1	63.3
2021-03-21	12:00:00	41.6	38.9	42.9	62.2
2021-03-21	12:15:00	43.6	39.8	45.9	59.8
2021-03-21	12:30:00	45.1	41.7	47.3	56.0
2021-03-21	12:45:00	43.4	38.8	45.3	61.9
2021-03-21	13:00:00	44.4	39.9	45.3	65.2
2021-03-21	13:15:00	43.5	40.4	45.3	60.3
2021-03-21	13:30:00	42.0	39.5	44.0	53.0
2021-03-21	13:45:00	42.3	39.4	43.8	64.1
2021-03-21	14:00:00	43.3	39.5	44.5	64.5

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-21	14:15:00	43.1	39.6	45.1	58.5
2021-03-21	14:30:00	40.2	36.9	42.3	55.1
2021-03-21	14:45:00	40.8	38.1	42.7	54.7
2021-03-21	15:00:00	39.3	36.8	41.0	58.1
2021-03-21	15:15:00	51.1	37.7	54.3	69.4
2021-03-21	15:30:00	40.8	37.0	42.7	62.6
2021-03-21	15:45:00	38.6	36.7	39.9	60.1
2021-03-21	16:00:00	40.9	37.9	42.9	53.6
2021-03-21	16:15:00	39.8	37.9	41.7	50.8
2021-03-21	16:30:00	41.4	37.8	43.2	55.2
2021-03-21	16:45:00	39.9	38.1	41.5	52.7
2021-03-21	17:00:00	39.6	38.1	40.7	56.6
2021-03-21	17:15:00	40.1	38.0	41.8	51.8
2021-03-21	17:30:00	40.9	39.0	42.3	51.6
2021-03-21	17:45:00	41.5	39.1	43.0	60.9
2021-03-21	18:00:00	42.4	39.4	44.3	59.8
2021-03-21	18:15:00	41.4	39.5	42.5	55.1
2021-03-21	18:30:00	40.6	38.8	41.6	54.9
2021-03-21	18:45:00	42.1	39.3	44.2	55.4
2021-03-21	19:00:00	39.9	38.2	41.0	53.4
2021-03-21	19:15:00	40.1	36.9	41.0	57.8
2021-03-21	19:30:00	37.6	35.8	39.0	46.9
2021-03-21	19:45:00	37.7	36.5	38.6	46.1
2021-03-21	20:00:00	37.5	36.0	38.9	45.9
2021-03-21	20:15:00	40.2	38.1	41.8	46.7
2021-03-21	20:30:00	39.0	36.7	40.6	48.1
2021-03-21	20:45:00	39.0	36.2	41.2	49.8
2021-03-21	21:00:00	38.9	36.2	40.9	46.6
2021-03-21	21:15:00	37.6	33.8	40.0	47.1
2021-03-21	21:30:00	35.3	32.7	37.2	45.9
2021-03-21	21:45:00	35.2	32.6	37.1	46.2
2021-03-21	22:00:00	35.3	32.5	37.4	46.0

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-21	22:15:00	34.1	31.6	35.9	43.8
2021-03-21	22:30:00	34.8	31.7	36.9	44.7
2021-03-21	22:45:00	34.9	32.4	36.9	42.9
2021-03-21	23:00:00	36.0	33.4	37.9	43.8
2021-03-21	23:15:00	35.3	32.7	37.2	43.7
2021-03-21	23:30:00	35.6	32.8	37.7	46.6
2021-03-21	23:45:00	35.2	32.4	36.9	46.6
2021-03-22	00:00:00	35.5	32.3	37.8	46.5
2021-03-22	00:15:00	35.8	32.3	37.9	45.2
2021-03-22	00:30:00	34.0	30.6	36.3	47.2
2021-03-22	00:45:00	32.0	28.9	34.4	38.8
2021-03-22	01:00:00	33.2	30.3	34.8	41.6
2021-03-22	01:15:00	33.6	30.4	36.0	41.7
2021-03-22	01:30:00	32.0	29.8	33.7	37.0
2021-03-22	01:45:00	33.4	31.3	35.1	42.0
2021-03-22	02:00:00	34.5	32.7	36.2	39.6
2021-03-22	02:15:00	35.4	33.3	37.0	42.8
2021-03-22	02:30:00	36.5	34.8	37.7	43.3
2021-03-22	02:45:00	36.4	34.8	38.1	41.9
2021-03-22	03:00:00	35.6	32.3	37.6	40.4
2021-03-22	03:15:00	36.2	34.4	37.6	41.6
2021-03-22	03:30:00	36.6	34.3	38.2	48.4
2021-03-22	03:45:00	36.5	34.1	38.2	46.9
2021-03-22	04:00:00	36.0	33.4	37.9	41.9
2021-03-22	04:15:00	35.0	32.2	36.9	42.9
2021-03-22	04:30:00	40.2	34.0	41.8	56.6
2021-03-22	04:45:00	39.0	34.5	40.3	58.0
2021-03-22	05:00:00	40.2	34.2	43.5	53.8
2021-03-22	05:15:00	42.7	36.3	46.6	55.7
2021-03-22	05:30:00	43.7	37.3	47.9	55.0
2021-03-22	05:45:00	41.8	38.2	44.1	57.8
2021-03-22	06:00:00	41.2	37.9	43.4	55.0

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-22	06:15:00	54.2	36.4	57.2	78.3
2021-03-22	06:30:00	38.9	36.1	40.9	51.7
2021-03-22	06:45:00	43.2	36.7	40.3	69.4
2021-03-22	07:00:00	40.3	36.5	40.6	60.8
2021-03-22	07:15:00	43.0	37.9	41.4	72.2
2021-03-22	07:30:00	39.4	35.8	41.2	58.0
2021-03-22	07:45:00	39.8	35.9	40.5	63.1
2021-03-22	08:00:00	41.7	37.2	44.4	53.7
2021-03-22	08:15:00	40.3	37.1	42.4	52.9
2021-03-22	08:30:00	39.5	36.5	41.6	53.7
2021-03-22	08:45:00	38.3	36.2	40.0	48.3
2021-03-22	09:00:00	38.9	36.2	40.0	59.9
2021-03-22	09:15:00	37.6	35.4	39.5	46.5
2021-03-22	09:30:00	38.3	36.3	40.0	49.3
2021-03-22	09:45:00	40.2	36.7	42.0	60.6
2021-03-22	10:00:00	49.2	37.2	52.5	75.8
2021-03-22	10:15:00	38.1	35.8	39.8	52.5
2021-03-22	10:30:00	38.1	35.8	39.6	53.6
2021-03-22	10:45:00	40.8	35.9	39.9	68.4
2021-03-22	11:00:00	38.9	36.1	41.1	50.9
2021-03-22	11:15:00	39.6	36.0	41.4	60.6
2021-03-22	11:30:00	52.7	40.2	54.5	79.5
2021-03-22	11:45:00	45.8	40.7	48.1	61.1
2021-03-22	12:00:00	54.5	37.3	58.2	73.4
2021-03-22	12:15:00	37.6	36.0	38.9	48.9
2021-03-22	12:30:00	40.7	37.3	42.9	55.9
2021-03-22	12:45:00	43.8	36.5	42.6	63.3
2021-03-22	13:00:00	39.5	36.5	41.0	58.9
2021-03-22	13:15:00	51.0	38.4	54.4	74.1
2021-03-22	13:30:00	39.4	35.5	41.0	60.4
2021-03-22	13:45:00	39.8	36.6	41.4	56.9
2021-03-22	14:00:00	38.8	36.8	40.5	53.5

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-22	14:15:00	39.6	37.4	41.1	56.8
2021-03-22	14:30:00	41.0	36.8	43.7	56.1
2021-03-22	14:45:00	39.7	36.0	41.6	55.1
2021-03-22	15:00:00	39.4	36.4	41.2	58.9
2021-03-22	15:15:00	38.8	36.0	40.0	62.4
2021-03-22	15:30:00	38.0	36.2	39.2	52.2
2021-03-22	15:45:00	37.9	35.2	38.8	55.2
2021-03-22	16:00:00	40.8	35.4	42.4	62.7
2021-03-22	16:15:00	42.4	36.1	42.9	69.0
2021-03-22	16:30:00	42.0	36.9	40.8	68.6
2021-03-22	16:45:00	39.7	36.2	41.6	56.3
2021-03-22	17:00:00	38.7	36.5	40.4	51.0
2021-03-22	17:15:00	39.3	37.8	40.3	53.3
2021-03-22	17:30:00	38.6	36.2	39.6	60.8
2021-03-22	17:45:00	39.4	34.9	42.0	54.7
2021-03-22	18:00:00	36.9	34.0	38.8	52.4
2021-03-22	18:15:00	36.7	33.4	38.8	52.9
2021-03-22	18:30:00	36.4	33.8	38.2	53.9
2021-03-22	18:45:00	36.3	33.1	38.3	49.6
2021-03-22	19:00:00	35.0	32.7	36.6	49.1
2021-03-22	19:15:00	34.1	31.9	35.7	51.1
2021-03-22	19:30:00	33.9	31.3	35.6	54.0
2021-03-22	19:45:00	33.6	31.0	35.1	43.9
2021-03-22	20:00:00	39.6	31.2	35.9	61.2
2021-03-22	20:15:00	37.0	31.0	36.0	57.0
2021-03-22	20:30:00	32.9	30.4	35.3	45.3
2021-03-22	20:45:00	32.6	30.5	34.4	44.5
2021-03-22	21:00:00	33.1	31.0	34.6	46.1
2021-03-22	21:15:00	32.9	29.7	35.2	47.4
2021-03-22	21:30:00	33.2	30.7	35.3	44.3
2021-03-22	21:45:00	33.9	31.8	35.3	44.0
2021-03-22	22:00:00	40.0	32.2	39.4	58.3

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-22	22:15:00	42.0	31.0	39.1	59.7
2021-03-22	22:30:00	32.6	29.6	34.4	51.6
2021-03-22	22:45:00	32.2	30.1	33.8	42.0
2021-03-22	23:00:00	31.8	28.8	33.8	44.2
2021-03-22	23:15:00	31.1	28.3	32.8	42.6
2021-03-22	23:30:00	30.9	28.4	32.6	42.7
2021-03-22	23:45:00	30.1	27.2	31.8	43.2
2021-03-23	00:00:00	30.9	28.2	32.8	42.2
2021-03-23	00:15:00	31.3	28.2	33.2	43.8
2021-03-23	00:30:00	29.6	27.4	31.2	39.3
2021-03-23	00:45:00	28.4	26.3	29.9	42.3
2021-03-23	01:00:00	31.0	27.4	33.4	45.0
2021-03-23	01:15:00	29.6	27.0	30.7	44.1
2021-03-23	01:30:00	28.7	27.2	29.7	40.4
2021-03-23	01:45:00	29.9	28.1	31.3	40.6
2021-03-23	02:00:00	34.6	27.5	34.1	57.3
2021-03-23	02:15:00	28.8	26.7	30.7	40.6
2021-03-23	02:30:00	29.4	26.5	31.5	42.7
2021-03-23	02:45:00	28.8	26.2	31.3	40.1
2021-03-23	03:00:00	30.2	28.1	31.9	40.1
2021-03-23	03:15:00	30.2	28.5	31.8	40.4
2021-03-23	03:30:00	30.8	28.9	32.3	39.3
2021-03-23	03:45:00	30.7	28.5	32.4	40.6
2021-03-23	04:00:00	32.3	29.2	34.4	44.4
2021-03-23	04:15:00	37.3	29.7	36.8	56.1
2021-03-23	04:30:00	36.5	29.3	35.4	58.0
2021-03-23	04:45:00	33.0	29.5	35.2	48.1
2021-03-23	05:00:00	42.4	33.8	47.0	54.6
2021-03-23	05:15:00	43.1	33.4	48.2	55.2
2021-03-23	05:30:00	41.5	33.6	45.2	54.9
2021-03-23	05:45:00	41.1	33.8	44.0	60.7
2021-03-23	06:00:00	39.9	34.2	42.0	54.8

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-23	06:15:00	37.8	34.2	39.9	55.2
2021-03-23	06:30:00	36.7	34.7	38.2	48.0
2021-03-23	06:45:00	41.1	36.6	43.1	59.0
2021-03-23	07:00:00	41.6	39.8	43.2	51.1
2021-03-23	07:15:00	40.9	39.3	42.4	48.8
2021-03-23	07:30:00	40.7	38.5	41.2	63.2
2021-03-23	07:45:00	38.7	36.8	39.7	61.1
2021-03-23	08:00:00	40.6	38.5	42.2	55.1
2021-03-23	08:15:00	43.3	39.6	44.0	69.8
2021-03-23	08:30:00	42.0	40.5	43.1	53.2
2021-03-23	08:45:00	43.7	39.9	43.5	63.3
2021-03-23	09:00:00	41.7	39.1	42.9	54.6
2021-03-23	09:15:00	42.4	40.7	43.5	53.6
2021-03-23	09:30:00	49.4	41.6	50.2	73.0
2021-03-23	09:45:00	55.9	40.5	59.7	75.9
2021-03-23	10:00:00	54.3	39.6	58.3	76.0
2021-03-23	10:15:00	48.9	40.6	52.6	65.3
2021-03-23	10:30:00	41.1	38.9	42.4	58.6
2021-03-23	10:45:00	43.4	40.6	45.6	56.8
2021-03-23	11:00:00	43.6	40.0	44.3	68.7
2021-03-23	11:15:00	42.9	39.4	45.7	61.1
2021-03-23	11:30:00	48.2	39.4	43.6	82.0
2021-03-23	11:45:00	43.0	38.9	43.0	73.5
2021-03-23	12:00:00	42.7	40.9	44.2	55.8
2021-03-23	12:15:00	52.4	41.5	56.1	75.2
2021-03-23	12:30:00	62.9	40.3	60.0	95.2
2021-03-23	12:45:00	52.6	40.0	53.6	74.3
2021-03-23	13:00:00	42.9	40.9	43.5	66.9
2021-03-23	13:15:00	44.9	41.6	48.0	57.9
2021-03-23	13:30:00	43.1	41.0	44.9	54.0
2021-03-23	13:45:00	53.5	40.4	55.5	79.2
2021-03-23	14:00:00	43.3	41.0	45.2	53.9

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-23	14:15:00	47.6	42.0	49.5	68.5
2021-03-23	14:30:00	45.6	42.9	47.1	60.5
2021-03-23	14:45:00	48.8	42.2	52.2	58.9
2021-03-23	15:00:00	48.0	43.9	51.1	60.5
2021-03-23	15:15:00	45.3	42.9	47.2	52.3
2021-03-23	15:30:00	48.8	44.8	51.6	61.0
2021-03-23	15:45:00	51.5	46.7	54.7	60.5
2021-03-23	16:00:00	47.4	44.0	49.6	63.5
2021-03-23	16:15:00	47.8	43.6	50.8	57.6
2021-03-23	16:30:00	47.3	43.5	50.1	55.5
2021-03-23	16:45:00	46.9	43.4	49.8	54.8
2021-03-23	17:00:00	43.9	41.9	45.6	56.3
2021-03-23	17:15:00	46.4	42.4	47.6	60.7
2021-03-23	17:30:00	45.3	42.9	47.3	61.3
2021-03-23	17:45:00	43.7	41.2	45.1	66.0
2021-03-23	18:00:00	44.3	41.5	46.7	57.5
2021-03-23	18:15:00	42.9	40.6	44.4	57.2
2021-03-23	18:30:00	41.8	40.0	43.2	54.6
2021-03-23	18:45:00	41.2	39.3	42.8	49.6
2021-03-23	19:00:00	39.9	37.9	41.5	55.2
2021-03-23	19:15:00	39.9	36.4	42.9	50.4
2021-03-23	19:30:00	43.1	40.7	45.0	53.3
2021-03-23	19:45:00	45.8	38.9	43.7	65.8
2021-03-23	20:00:00	42.5	37.9	41.6	58.7
2021-03-23	20:15:00	39.4	36.3	40.4	55.1
2021-03-23	20:30:00	37.1	34.7	38.9	50.5
2021-03-23	20:45:00	37.0	34.1	39.0	52.0
2021-03-23	21:00:00	37.4	34.6	39.5	47.5
2021-03-23	21:15:00	37.3	34.2	39.6	47.0
2021-03-23	21:30:00	37.0	33.5	39.6	49.2
2021-03-23	21:45:00	36.1	33.2	38.1	45.0
2021-03-23	22:00:00	35.4	32.7	37.7	43.3

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-23	22:15:00	35.8	32.7	38.2	44.9
2021-03-23	22:30:00	35.5	32.5	37.9	42.9
2021-03-23	22:45:00	37.3	34.2	39.5	51.0
2021-03-23	23:00:00	37.5	34.3	39.6	60.5
2021-03-23	23:15:00	36.9	31.7	38.6	54.2
2021-03-23	23:30:00	35.7	33.1	37.5	45.5
2021-03-23	23:45:00	35.0	32.2	37.1	42.6
2021-03-24	00:00:00	35.1	32.2	37.3	42.8
2021-03-24	00:15:00	34.9	31.9	37.3	43.4
2021-03-24	00:30:00	34.5	31.5	36.8	43.3
2021-03-24	00:45:00	41.1	32.0	41.2	64.2
2021-03-24	01:00:00	34.8	31.4	37.3	43.1
2021-03-24	01:15:00	35.1	31.9	37.3	42.3
2021-03-24	01:30:00	35.3	32.1	37.4	42.6
2021-03-24	01:45:00	33.6	30.4	35.7	41.8
2021-03-24	02:00:00	34.3	30.9	37.0	41.9
2021-03-24	02:15:00	33.6	30.3	35.9	43.1
2021-03-24	02:30:00	33.3	30.2	35.6	40.0
2021-03-24	02:45:00	33.4	30.3	35.6	40.4
2021-03-24	03:00:00	33.9	31.1	36.2	41.9
2021-03-24	03:15:00	34.5	31.2	36.7	42.8
2021-03-24	03:30:00	34.7	31.8	37.1	42.5
2021-03-24	03:45:00	35.5	32.7	37.8	43.7
2021-03-24	04:00:00	34.5	30.4	36.8	46.9
2021-03-24	04:15:00	41.5	31.6	39.4	61.5
2021-03-24	04:30:00	35.6	32.5	37.8	45.2
2021-03-24	04:45:00	39.6	33.4	43.1	54.0
2021-03-24	05:00:00	39.7	33.9	43.1	53.1
2021-03-24	05:15:00	39.8	33.3	43.5	54.5
2021-03-24	05:30:00	41.2	35.4	44.8	54.4
2021-03-24	05:45:00	38.8	35.1	41.0	54.4
2021-03-24	06:00:00	39.0	35.9	41.0	55.3

Date	Period start	LAeq, T	LA90	LA10	LAmx
2021-03-24	06:15:00	39.4	37.4	40.8	51.6
2021-03-24	06:30:00	39.9	38.1	41.3	53.7
2021-03-24	06:45:00	39.7	37.6	41.1	57.8
2021-03-24	07:00:00	39.9	38.2	41.2	53.2
2021-03-24	07:15:00	41.1	39.0	42.7	51.3
2021-03-24	07:30:00	41.1	39.5	42.6	52.2
2021-03-24	07:45:00	46.9	39.3	42.8	74.7
2021-03-24	08:00:00	50.6	39.4	52.5	74.6
2021-03-24	08:15:00	55.6	40.4	55.8	75.6
2021-03-24	08:30:00	53.5	40.2	54.0	80.7
2021-03-24	08:45:00	42.3	40.3	43.7	55.2
2021-03-24	09:00:00	43.1	39.8	44.4	66.5
2021-03-24	09:15:00	44.9	40.3	45.1	62.4
2021-03-24	09:30:00	43.8	40.7	46.1	62.5
2021-03-24	09:45:00	55.7	41.7	47.5	91.2
2021-03-24	10:00:00	44.1	41.0	46.5	57.0
2021-03-24	10:15:00	42.4	39.7	44.6	60.4
2021-03-24	10:30:00	45.0	40.0	47.0	67.8
2021-03-24	10:45:00	41.4	38.7	43.7	49.7
2021-03-24	11:00:00	47.1	40.0	49.5	68.6
2021-03-24	11:15:00	57.0	43.2	60.3	81.4
2021-03-24	11:30:00	63.2	42.0	63.9	81.8
2021-03-24	11:45:00	43.2	40.4	45.6	58.8
2021-03-24	12:00:00	43.1	40.0	45.4	59.8
2021-03-24	12:15:00	44.6	41.1	47.0	58.6
2021-03-24	12:30:00	44.5	41.2	47.2	55.1
2021-03-24	12:45:00	58.3	41.5	62.7	81.5
2021-03-24	13:00:00	43.4	40.7	45.3	63.4
2021-03-24	13:15:00	42.1	40.2	43.9	48.4
2021-03-24	13:30:00	43.7	41.1	45.5	56.0
2021-03-24	13:45:00	45.0	41.0	48.0	53.3
2021-03-24	14:00:00	55.2	41.2	57.5	81.3

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-24	14:15:00	43.6	40.8	45.8	57.1
2021-03-24	14:30:00	46.1	42.7	48.3	53.0
2021-03-24	14:45:00	44.9	42.5	46.5	61.0
2021-03-24	15:00:00	45.5	40.5	45.0	77.2
2021-03-24	15:15:00	46.2	41.8	47.3	73.5
2021-03-24	15:30:00	42.5	40.3	44.4	50.8
2021-03-24	15:45:00	44.8	40.5	46.5	62.5
2021-03-24	16:00:00	44.5	42.0	46.3	55.6
2021-03-24	16:15:00	46.4	42.0	49.4	62.1
2021-03-24	16:30:00	44.2	41.6	46.4	53.8
2021-03-24	16:45:00	44.6	42.1	46.7	53.5
2021-03-24	17:00:00	42.6	41.2	43.8	52.8
2021-03-24	17:15:00	42.1	40.4	42.7	58.9
2021-03-24	17:30:00	53.0	39.9	53.9	72.8
2021-03-24	17:45:00	41.6	39.8	43.1	54.8
2021-03-24	18:00:00	41.3	39.2	42.1	59.6
2021-03-24	18:15:00	42.0	39.0	44.3	59.3
2021-03-24	18:30:00	41.2	38.5	42.0	65.3
2021-03-24	18:45:00	41.1	38.8	42.5	56.7
2021-03-24	19:00:00	41.7	38.8	42.9	64.7
2021-03-24	19:15:00	42.3	37.8	40.9	68.8
2021-03-24	19:30:00	39.8	38.1	41.2	47.2
2021-03-24	19:45:00	43.5	37.1	42.0	62.3
2021-03-24	20:00:00	39.9	37.6	41.4	54.1
2021-03-24	20:15:00	40.4	38.1	42.2	53.8
2021-03-24	20:30:00	40.1	37.5	42.0	54.0
2021-03-24	20:45:00	38.9	37.0	40.4	45.3
2021-03-24	21:00:00	38.9	36.6	40.5	51.8
2021-03-24	21:15:00	38.2	36.4	39.8	42.3
2021-03-24	21:30:00	38.5	36.6	40.0	44.3
2021-03-24	21:45:00	40.0	35.9	41.5	55.4
2021-03-24	22:00:00	38.6	36.3	40.2	50.0

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-24	22:15:00	38.1	35.2	40.2	46.1
2021-03-24	22:30:00	37.0	34.4	38.9	44.8
2021-03-24	22:45:00	34.4	31.8	36.1	47.2
2021-03-24	23:00:00	33.7	30.8	35.4	45.5
2021-03-24	23:15:00	32.2	29.8	33.4	43.8
2021-03-24	23:30:00	31.9	29.6	34.0	41.8
2021-03-24	23:45:00	32.2	29.8	33.7	45.9
2021-03-25	00:00:00	33.9	31.1	35.7	42.5
2021-03-25	00:15:00	34.4	31.9	36.3	43.9
2021-03-25	00:30:00	34.7	32.2	36.4	43.5
2021-03-25	00:45:00	34.5	32.0	36.7	42.0
2021-03-25	01:00:00	35.9	33.0	38.2	43.3
2021-03-25	01:15:00	35.8	33.2	37.8	44.9
2021-03-25	01:30:00	35.4	33.3	37.1	49.1
2021-03-25	01:45:00	35.3	32.9	37.2	41.7
2021-03-25	02:00:00	35.8	32.9	37.7	48.5
2021-03-25	02:15:00	35.9	33.3	37.8	45.0
2021-03-25	02:30:00	36.5	34.1	38.2	43.7
2021-03-25	02:45:00	37.0	34.5	39.0	43.7
2021-03-25	03:00:00	37.5	34.3	39.9	44.6
2021-03-25	03:15:00	37.3	34.4	39.5	43.8
2021-03-25	03:30:00	41.3	38.8	43.2	48.0
2021-03-25	03:45:00	41.8	38.5	44.3	49.2
2021-03-25	04:00:00	40.6	38.5	42.3	47.0
2021-03-25	04:15:00	40.5	37.6	42.6	48.7
2021-03-25	04:30:00	41.3	36.9	44.1	54.0
2021-03-25	04:45:00	42.1	38.6	44.3	52.0
2021-03-25	05:00:00	42.9	38.5	45.0	56.8
2021-03-25	05:15:00	41.7	38.1	44.0	55.3
2021-03-25	05:30:00	43.6	38.4	47.3	56.0
2021-03-25	05:45:00	48.3	38.1	47.6	67.3
2021-03-25	06:00:00	41.3	38.5	43.5	53.9

Date	Period start	LAeq, T	LA90	LA10	LAmix
2021-03-25	06:15:00	41.7	39.1	43.6	56.1
2021-03-25	06:30:00	42.7	39.8	45.1	48.5
2021-03-25	06:45:00	44.3	41.9	46.1	50.4
2021-03-25	07:00:00	43.3	40.9	45.3	50.9
2021-03-25	07:15:00	43.9	41.8	45.7	50.3
2021-03-25	07:30:00	43.9	41.8	45.7	57.1
2021-03-25	07:45:00	43.8	41.3	44.8	65.4
2021-03-25	08:00:00	45.4	42.1	46.0	70.1
2021-03-25	08:15:00	46.0	42.9	47.4	69.8
2021-03-25	08:30:00	51.4	44.6	55.4	71.0
2021-03-25	08:45:00	54.2	43.7	53.7	77.3
2021-03-25	09:00:00	51.3	44.2	49.6	75.4
2021-03-25	09:15:00	47.8	44.9	50.0	64.8
2021-03-25	09:30:00	49.1	46.1	51.5	56.2
2021-03-25	09:45:00	46.7	43.7	49.0	54.6
2021-03-25	10:00:00	47.2	44.0	49.6	54.7
2021-03-25	10:15:00	48.0	44.7	50.5	55.2
2021-03-25	10:30:00	47.9	44.5	50.3	61.6

Table 25 CM2 - Measured noise levels, free-field, dB

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-19	16:45:00	34.5	32.3	36.0	48.2
2021-03-19	17:00:00	35.7	32.1	38.2	50.6
2021-03-19	17:15:00	35.3	32.6	37.2	48.0
2021-03-19	17:30:00	35.2	32.4	37.0	53.6
2021-03-19	17:45:00	33.6	32.2	35.1	44.1
2021-03-19	18:00:00	34.8	32.4	36.7	49.5
2021-03-19	18:15:00	34.9	32.4	36.4	48.3
2021-03-19	18:30:00	35.2	32.4	37.6	47.9
2021-03-19	18:45:00	39.5	33.2	42.3	59.9
2021-03-19	19:00:00	42.4	34.0	41.6	66.9
2021-03-19	19:15:00	38.7	33.7	40.0	56.4
2021-03-19	19:30:00	33.8	32.8	34.7	41.3

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-19	19:45:00	36.8	33.2	36.4	54.6
2021-03-19	20:00:00	38.8	33.2	39.9	56.9
2021-03-19	20:15:00	34.3	32.6	35.8	42.8
2021-03-19	20:30:00	33.8	32.3	35.7	39.8
2021-03-19	20:45:00	34.2	32.8	35.5	46.0
2021-03-19	21:00:00	34.0	32.2	35.4	42.9
2021-03-19	21:15:00	34.0	32.3	35.9	41.3
2021-03-19	21:30:00	33.6	32.1	35.2	43.0
2021-03-19	21:45:00	34.4	32.5	35.9	45.4
2021-03-19	22:00:00	34.3	32.7	35.8	47.4
2021-03-19	22:15:00	34.2	32.5	35.7	44.9
2021-03-19	22:30:00	34.0	32.6	35.2	44.3
2021-03-19	22:45:00	34.1	32.7	35.4	45.0
2021-03-19	23:00:00	33.1	32.2	34.1	40.3
2021-03-19	23:15:00	33.9	32.5	35.2	42.3
2021-03-19	23:30:00	34.9	33.5	36.2	40.4
2021-03-19	23:45:00	34.4	32.3	36.1	45.7
2021-03-20	00:00:00	34.7	32.5	36.8	48.6
2021-03-20	00:15:00	35.1	32.8	36.8	46.5
2021-03-20	00:30:00	33.4	31.5	35.0	43.7
2021-03-20	00:45:00	33.5	31.5	34.2	52.8
2021-03-20	01:00:00	32.8	31.0	33.5	54.1
2021-03-20	01:15:00	32.9	30.9	33.2	53.0
2021-03-20	01:30:00	32.2	31.0	33.5	40.9
2021-03-20	01:45:00	32.4	30.9	33.6	43.7
2021-03-20	02:00:00	32.1	30.8	33.4	40.6
2021-03-20	02:15:00	31.4	30.7	32.3	38.3
2021-03-20	02:30:00	31.2	30.4	32.0	42.6
2021-03-20	02:45:00	30.6	30.3	30.9	34.2
2021-03-20	03:00:00	30.8	30.3	31.0	44.6
2021-03-20	03:15:00	30.7	30.3	31.1	35.2
2021-03-20	03:30:00	30.9	30.6	31.2	35.8
2021-03-20	03:45:00	31.3	30.7	31.9	39.0

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-20	04:00:00	31.4	30.8	31.9	40.8
2021-03-20	04:15:00	31.5	30.7	32.2	43.3
2021-03-20	04:30:00	31.4	30.7	32.0	36.2
2021-03-20	04:45:00	31.6	30.9	32.1	46.8
2021-03-20	05:00:00	32.3	31.0	33.5	41.8
2021-03-20	05:15:00	35.5	31.3	38.9	49.0
2021-03-20	05:30:00	39.1	34.1	41.9	50.5
2021-03-20	05:45:00	42.9	35.5	45.1	60.6
2021-03-20	06:00:00	42.6	33.1	45.6	61.8
2021-03-20	06:15:00	42.9	33.4	46.5	59.0
2021-03-20	06:30:00	39.9	33.8	41.8	57.1
2021-03-20	06:45:00	39.8	34.9	42.4	53.5
2021-03-20	07:00:00	39.2	35.5	41.1	57.7
2021-03-20	07:15:00	37.9	34.9	39.5	51.1
2021-03-20	07:30:00	38.8	34.5	39.6	60.8
2021-03-20	07:45:00	44.2	34.4	47.0	64.3
2021-03-20	08:00:00	45.2	34.1	49.5	60.1
2021-03-20	08:15:00	38.5	34.2	41.5	53.4
2021-03-20	08:30:00	38.3	34.4	40.9	58.2
2021-03-20	08:45:00	40.1	35.2	43.2	55.8
2021-03-20	09:00:00	40.8	35.1	42.9	59.6
2021-03-20	09:15:00	41.8	36.0	44.6	56.9
2021-03-20	09:30:00	42.2	36.1	45.3	57.2
2021-03-20	09:45:00	43.8	36.6	47.5	60.3
2021-03-20	10:00:00	40.6	36.8	42.8	55.3
2021-03-20	10:15:00	41.6	37.8	43.4	57.0
2021-03-20	10:30:00	39.6	37.5	40.4	54.5
2021-03-20	10:45:00	40.0	37.9	41.6	54.0
2021-03-20	11:00:00	39.7	37.9	40.9	53.2
2021-03-20	11:15:00	41.3	38.3	42.7	55.0
2021-03-20	11:30:00	41.7	37.8	42.3	59.9
2021-03-20	11:45:00	41.7	38.1	43.1	58.2
2021-03-20	12:00:00	43.7	38.7	43.6	65.2

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-20	12:15:00	41.4	38.8	42.4	60.2
2021-03-20	12:30:00	43.0	38.3	45.1	57.9
2021-03-20	12:45:00	40.4	37.9	41.6	61.6
2021-03-20	13:00:00	42.7	38.2	44.6	58.5
2021-03-20	13:15:00	42.6	38.4	44.0	58.1
2021-03-20	13:30:00	41.9	38.6	43.4	61.4
2021-03-20	13:45:00	43.6	37.9	46.1	64.9
2021-03-20	14:00:00	42.9	37.5	44.1	60.9
2021-03-20	14:15:00	41.8	37.4	43.2	59.9
2021-03-20	14:30:00	46.7	37.1	50.2	66.1
2021-03-20	14:45:00	40.4	37.5	42.1	57.4
2021-03-20	15:00:00	40.8	37.0	43.1	56.9
2021-03-20	15:15:00	40.5	38.0	42.1	55.9
2021-03-20	15:30:00	40.1	37.7	41.1	53.9
2021-03-20	15:45:00	45.4	38.0	49.9	58.2
2021-03-20	16:00:00	40.8	37.5	42.3	56.5
2021-03-20	16:15:00	44.1	38.0	46.4	62.1
2021-03-20	16:30:00	41.3	38.4	42.6	57.7
2021-03-20	16:45:00	42.7	38.4	42.5	64.1
2021-03-20	17:00:00	40.1	38.6	41.4	51.6
2021-03-20	17:15:00	41.6	38.2	43.9	54.6
2021-03-20	17:30:00	41.0	38.7	42.7	53.2
2021-03-20	17:45:00	40.9	38.1	42.2	59.0
2021-03-20	18:00:00	46.2	37.3	50.9	61.0
2021-03-20	18:15:00	48.7	38.3	52.8	65.5
2021-03-20	18:30:00	45.8	37.2	50.1	61.5
2021-03-20	18:45:00	47.5	38.8	52.0	63.0
2021-03-20	19:00:00	51.6	40.0	55.4	66.8
2021-03-20	19:15:00	50.5	38.3	54.0	67.4
2021-03-20	19:30:00	48.2	36.9	52.2	66.4
2021-03-20	19:45:00	50.2	37.7	54.1	66.0
2021-03-20	20:00:00	42.7	36.7	44.6	61.8
2021-03-20	20:15:00	40.0	36.1	39.2	59.4

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-20	20:30:00	38.4	36.2	39.4	56.5
2021-03-20	20:45:00	41.4	35.5	41.3	60.4
2021-03-20	21:00:00	37.8	35.3	38.6	57.7
2021-03-20	21:15:00	36.8	34.8	38.1	52.8
2021-03-20	21:30:00	46.1	34.3	41.3	69.5
2021-03-20	21:45:00	39.6	34.0	39.2	60.8
2021-03-20	22:00:00	35.9	34.0	37.3	48.7
2021-03-20	22:15:00	35.0	33.6	36.3	43.9
2021-03-20	22:30:00	34.6	33.3	35.7	42.2
2021-03-20	22:45:00	33.9	32.6	34.9	44.3
2021-03-20	23:00:00	34.3	32.9	35.4	41.4
2021-03-20	23:15:00	36.2	32.3	38.7	52.9
2021-03-20	23:30:00	35.0	33.1	36.2	49.2
2021-03-20	23:45:00	34.0	32.6	35.1	47.1
2021-03-21	00:00:00	34.0	32.4	35.0	52.2
2021-03-21	00:15:00	34.1	32.5	35.2	53.4
2021-03-21	00:30:00	33.7	32.4	34.8	41.9
2021-03-21	00:45:00	34.2	32.1	35.1	52.9
2021-03-21	01:00:00	33.8	31.7	34.7	52.6
2021-03-21	01:15:00	33.2	31.5	35.1	43.2
2021-03-21	01:30:00	35.5	31.9	36.5	54.0
2021-03-21	01:45:00	33.8	31.9	35.3	45.4
2021-03-21	02:00:00	34.2	31.8	34.9	55.6
2021-03-21	02:15:00	33.3	32.1	33.9	49.2
2021-03-21	02:30:00	34.8	32.5	37.0	45.4
2021-03-21	02:45:00	34.3	31.9	36.0	47.4
2021-03-21	03:00:00	33.7	31.9	34.9	46.8
2021-03-21	03:15:00	34.4	32.2	36.2	49.4
2021-03-21	03:30:00	34.4	32.3	36.3	44.8
2021-03-21	03:45:00	33.8	31.9	35.6	45.6
2021-03-21	04:00:00	33.7	32.2	35.0	45.8
2021-03-21	04:15:00	33.7	31.6	35.0	47.5
2021-03-21	04:30:00	36.0	32.3	39.0	44.2

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-21	04:45:00	35.9	32.2	37.4	53.1
2021-03-21	05:00:00	33.5	32.3	34.7	41.3
2021-03-21	05:15:00	34.9	32.3	37.1	47.7
2021-03-21	05:30:00	40.1	34.1	42.8	57.2
2021-03-21	05:45:00	46.9	36.2	49.7	64.5
2021-03-21	06:00:00	44.8	33.6	46.6	64.3
2021-03-21	06:15:00	39.5	33.8	42.4	57.2
2021-03-21	06:30:00	39.4	35.2	40.6	60.5
2021-03-21	06:45:00	37.7	34.9	39.4	49.9
2021-03-21	07:00:00	45.1	34.6	49.8	60.4
2021-03-21	07:15:00	44.6	34.5	48.9	60.3
2021-03-21	07:30:00	42.1	34.4	45.2	57.0
2021-03-21	07:45:00	37.7	33.6	39.5	57.1
2021-03-21	08:00:00	38.4	33.5	40.9	55.4
2021-03-21	08:15:00	40.7	33.4	42.2	63.6
2021-03-21	08:30:00	38.8	33.4	41.7	57.1
2021-03-21	08:45:00	44.1	33.9	48.4	58.7
2021-03-21	09:00:00	45.7	34.7	50.5	59.5
2021-03-21	09:15:00	47.0	35.9	51.4	60.9
2021-03-21	09:30:00	47.4	35.7	52.1	62.0
2021-03-21	09:45:00	45.4	35.1	50.2	59.8
2021-03-21	10:00:00	42.9	35.1	46.5	57.4
2021-03-21	10:15:00	45.6	34.9	50.2	61.2
2021-03-21	10:30:00	43.4	35.6	47.8	57.4
2021-03-21	10:45:00	44.7	34.7	49.5	58.4
2021-03-21	11:00:00	46.6	35.3	51.3	58.3
2021-03-21	11:15:00	45.5	35.8	50.2	59.0
2021-03-21	11:30:00	47.1	35.9	51.2	63.4
2021-03-21	11:45:00	44.1	35.8	45.4	63.8
2021-03-21	12:00:00	47.4	35.3	49.7	67.3
2021-03-21	12:15:00	45.3	35.8	49.9	58.2
2021-03-21	12:30:00	43.4	34.9	45.6	60.4
2021-03-21	12:45:00	43.7	35.4	47.8	59.1

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-21	13:00:00	46.9	35.3	51.2	62.9
2021-03-21	13:15:00	42.0	35.4	45.0	57.8
2021-03-21	13:30:00	42.5	34.9	45.5	59.0
2021-03-21	13:45:00	40.7	34.8	43.0	59.5
2021-03-21	14:00:00	44.8	34.9	45.1	67.1
2021-03-21	14:15:00	38.6	34.6	41.5	53.8
2021-03-21	14:30:00	39.4	34.4	42.3	56.8
2021-03-21	14:45:00	42.2	34.3	45.7	60.6
2021-03-21	15:00:00	38.3	33.0	41.6	53.8
2021-03-21	15:15:00	38.7	32.3	41.1	56.9
2021-03-21	15:30:00	37.6	32.5	38.9	54.0
2021-03-21	15:45:00	37.0	32.8	39.1	55.1
2021-03-21	16:00:00	36.6	33.0	37.4	52.7
2021-03-21	16:15:00	37.3	34.2	39.1	56.1
2021-03-21	16:30:00	43.2	34.5	44.2	64.6
2021-03-21	16:45:00	40.1	35.0	40.1	61.9
2021-03-21	17:00:00	39.2	35.5	40.9	53.1
2021-03-21	17:15:00	40.1	35.7	41.7	57.9
2021-03-21	17:30:00	43.1	36.2	42.0	62.4
2021-03-21	17:45:00	38.3	36.0	39.8	49.7
2021-03-21	18:00:00	39.2	37.3	40.7	50.0
2021-03-21	18:15:00	40.6	38.7	42.1	51.9
2021-03-21	18:30:00	41.5	39.5	43.1	51.8
2021-03-21	18:45:00	42.2	40.6	43.4	59.7
2021-03-21	19:00:00	41.7	38.8	43.5	54.4
2021-03-21	19:15:00	38.9	36.2	41.0	47.6
2021-03-21	19:30:00	38.3	36.8	39.6	44.7
2021-03-21	19:45:00	38.8	37.3	40.0	50.9
2021-03-21	20:00:00	37.1	35.8	38.2	45.8
2021-03-21	20:15:00	35.9	34.8	37.0	40.0
2021-03-21	20:30:00	35.3	34.1	36.3	51.4
2021-03-21	20:45:00	35.3	33.8	36.3	45.6
2021-03-21	21:00:00	33.7	32.6	34.8	41.6

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-21	21:15:00	34.1	32.6	35.3	43.9
2021-03-21	21:30:00	34.0	32.8	35.2	40.2
2021-03-21	21:45:00	33.4	32.3	34.4	39.7
2021-03-21	22:00:00	32.8	31.7	33.9	41.5
2021-03-21	22:15:00	32.6	31.5	33.4	41.8
2021-03-21	22:30:00	32.2	31.2	33.2	42.8
2021-03-21	22:45:00	32.3	31.1	33.2	50.6
2021-03-21	23:00:00	32.2	31.1	33.2	37.7
2021-03-21	23:15:00	32.1	30.9	33.2	39.7
2021-03-21	23:30:00	32.3	31.1	33.3	43.7
2021-03-21	23:45:00	32.0	31.1	33.0	36.4
2021-03-22	00:00:00	32.5	30.9	33.9	46.8
2021-03-22	00:15:00	32.7	30.9	33.2	53.3
2021-03-22	00:30:00	31.2	30.5	31.8	40.9
2021-03-22	00:45:00	31.0	30.4	31.6	39.4
2021-03-22	01:00:00	31.2	30.3	32.1	42.5
2021-03-22	01:15:00	38.0	30.3	31.9	58.7
2021-03-22	01:30:00	30.6	30.2	31.1	34.7
2021-03-22	01:45:00	30.6	30.2	31.1	34.6
2021-03-22	02:00:00	31.2	30.3	32.3	35.8
2021-03-22	02:15:00	32.0	30.6	33.6	40.1
2021-03-22	02:30:00	31.9	30.7	33.2	41.8
2021-03-22	02:45:00	31.1	30.5	31.9	37.8
2021-03-22	03:00:00	31.7	30.8	32.7	39.1
2021-03-22	03:15:00	31.6	30.6	32.5	40.1
2021-03-22	03:30:00	31.2	30.5	31.9	39.9
2021-03-22	03:45:00	31.1	30.4	32.1	37.0
2021-03-22	04:00:00	31.3	30.5	32.0	40.4
2021-03-22	04:15:00	31.9	30.8	32.9	42.1
2021-03-22	04:30:00	32.5	31.2	33.8	40.4
2021-03-22	04:45:00	32.8	31.4	34.1	42.7
2021-03-22	05:00:00	32.3	31.3	33.4	38.6
2021-03-22	05:15:00	34.1	32.1	35.3	47.3

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-22	05:30:00	41.0	35.1	44.4	55.4
2021-03-22	05:45:00	40.8	34.6	43.4	54.0
2021-03-22	06:00:00	39.1	34.7	41.9	53.0
2021-03-22	06:15:00	37.9	34.8	39.1	53.8
2021-03-22	06:30:00	38.6	36.4	40.4	52.2
2021-03-22	06:45:00	38.5	35.3	40.8	55.9
2021-03-22	07:00:00	40.5	36.1	41.1	60.5
2021-03-22	07:15:00	38.8	36.3	40.6	53.5
2021-03-22	07:30:00	37.7	35.6	39.2	48.2
2021-03-22	07:45:00	38.7	36.1	39.6	55.1
2021-03-22	08:00:00	44.4	36.8	45.3	60.5
2021-03-22	08:15:00	39.2	37.1	40.9	54.6
2021-03-22	08:30:00	39.5	37.2	40.8	56.5
2021-03-22	08:45:00	40.2	37.0	41.3	57.2
2021-03-22	09:00:00	38.6	36.1	40.0	51.3
2021-03-22	09:15:00	39.5	35.0	41.3	57.8
2021-03-22	09:30:00	39.2	35.9	41.6	51.3
2021-03-22	09:45:00	39.0	36.1	40.9	52.2
2021-03-22	10:00:00	37.0	34.7	38.5	50.6
2021-03-22	10:15:00	38.3	34.4	38.9	54.0
2021-03-22	10:30:00	37.2	34.7	38.8	51.3
2021-03-22	10:45:00	38.6	34.3	39.9	57.9
2021-03-22	11:00:00	38.5	35.3	39.2	55.4
2021-03-22	11:15:00	39.8	35.5	42.7	54.2
2021-03-22	11:30:00	37.4	34.7	39.2	54.5
2021-03-22	11:45:00	39.8	35.7	41.9	54.5
2021-03-22	12:00:00	39.8	35.9	42.3	55.3
2021-03-22	12:15:00	39.2	35.0	41.2	55.8
2021-03-22	12:30:00	41.3	35.2	42.8	59.9
2021-03-22	12:45:00	40.0	36.0	42.4	53.0
2021-03-22	13:00:00	38.7	35.1	40.7	54.6
2021-03-22	13:15:00	37.4	34.8	39.5	49.0
2021-03-22	13:30:00	44.4	35.0	46.1	66.3

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-22	13:45:00	38.1	35.5	39.8	49.2
2021-03-22	14:00:00	41.7	36.9	45.3	59.6
2021-03-22	14:15:00	43.2	38.5	46.6	56.0
2021-03-22	14:30:00	42.1	37.4	44.4	57.5
2021-03-22	14:45:00	38.9	36.2	40.8	54.1
2021-03-22	15:00:00	37.9	35.0	40.2	48.6
2021-03-22	15:15:00	38.7	35.7	40.8	49.2
2021-03-22	15:30:00	38.0	35.5	39.4	53.6
2021-03-22	15:45:00	38.3	34.9	39.2	57.3
2021-03-22	16:00:00	38.7	34.9	40.8	56.1
2021-03-22	16:15:00	38.7	35.2	40.3	57.1
2021-03-22	16:30:00	42.6	36.2	45.8	61.9
2021-03-22	16:45:00	39.0	35.4	39.6	59.7
2021-03-22	17:00:00	41.9	35.6	42.3	66.4
2021-03-22	17:15:00	40.0	36.1	40.1	65.6
2021-03-22	17:30:00	41.9	34.8	43.6	61.8
2021-03-22	17:45:00	45.1	34.1	48.3	63.6
2021-03-22	18:00:00	38.6	34.1	40.3	55.1
2021-03-22	18:15:00	44.3	34.3	46.3	61.2
2021-03-22	18:30:00	38.6	33.6	41.7	52.9
2021-03-22	18:45:00	35.5	32.8	37.2	48.3
2021-03-22	19:00:00	35.2	32.8	37.0	46.9
2021-03-22	19:15:00	32.2	31.1	33.2	40.7
2021-03-22	19:30:00	31.8	30.9	32.7	42.1
2021-03-22	19:45:00	32.3	30.6	32.6	47.5
2021-03-22	20:00:00	36.0	31.0	33.4	54.6
2021-03-22	20:15:00	34.7	30.6	33.4	54.6
2021-03-22	20:30:00	31.0	30.5	31.7	34.6
2021-03-22	20:45:00	31.2	30.4	32.0	42.1
2021-03-22	21:00:00	31.7	30.8	32.7	42.0
2021-03-22	21:15:00	31.5	30.5	32.6	40.6
2021-03-22	21:30:00	31.1	30.4	31.9	40.1
2021-03-22	21:45:00	31.1	30.3	31.9	37.2

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-22	22:00:00	44.0	30.3	38.0	63.7
2021-03-22	22:15:00	45.1	30.3	38.5	64.3
2021-03-22	22:30:00	30.5	30.1	30.8	36.0
2021-03-22	22:45:00	30.7	30.1	30.9	39.4
2021-03-22	23:00:00	30.3	30.1	30.6	34.3
2021-03-22	23:15:00	30.5	30.2	30.7	37.0
2021-03-22	23:30:00	30.5	30.2	30.7	33.1
2021-03-22	23:45:00	30.3	30.1	30.5	34.3
2021-03-23	00:00:00	30.2	30.0	30.4	33.2
2021-03-23	00:15:00	30.3	30.0	30.4	38.5
2021-03-23	00:30:00	30.4	30.2	30.6	31.5
2021-03-23	00:45:00	30.7	30.2	31.0	40.2
2021-03-23	01:00:00	31.0	30.2	31.3	43.9
2021-03-23	01:15:00	30.4	30.1	30.5	36.8
2021-03-23	01:30:00	30.3	30.1	30.4	35.0
2021-03-23	01:45:00	30.6	30.1	30.7	45.3
2021-03-23	02:00:00	33.1	30.0	30.7	54.1
2021-03-23	02:15:00	30.2	30.0	30.4	33.3
2021-03-23	02:30:00	30.3	30.1	30.5	34.0
2021-03-23	02:45:00	30.3	30.0	30.6	38.7
2021-03-23	03:00:00	30.9	30.1	31.7	41.5
2021-03-23	03:15:00	30.6	30.1	31.2	37.8
2021-03-23	03:30:00	30.6	30.1	31.0	43.5
2021-03-23	03:45:00	30.7	30.1	31.1	45.0
2021-03-23	04:00:00	30.5	30.0	30.9	43.2
2021-03-23	04:15:00	30.4	30.0	30.8	37.0
2021-03-23	04:30:00	30.3	30.1	30.6	33.9
2021-03-23	04:45:00	31.2	30.1	32.0	45.2
2021-03-23	05:00:00	34.4	30.4	34.4	54.1
2021-03-23	05:15:00	35.7	30.8	39.3	49.3
2021-03-23	05:30:00	39.0	31.5	43.4	52.3
2021-03-23	05:45:00	39.4	33.0	42.6	51.4
2021-03-23	06:00:00	37.0	31.8	40.4	50.7

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-23	06:15:00	35.5	32.0	36.4	55.5
2021-03-23	06:30:00	38.7	32.9	38.8	65.2
2021-03-23	06:45:00	36.4	32.6	38.8	53.3
2021-03-23	07:00:00	40.9	32.1	42.1	60.0
2021-03-23	07:15:00	35.7	32.5	36.9	54.0
2021-03-23	07:30:00	36.9	33.4	39.9	51.9
2021-03-23	07:45:00	36.1	33.8	37.9	46.0
2021-03-23	08:00:00	41.5	36.6	43.0	56.8
2021-03-23	08:15:00	41.7	38.4	44.0	55.8
2021-03-23	08:30:00	42.5	39.2	43.8	59.4
2021-03-23	08:45:00	42.0	38.6	43.5	58.1
2021-03-23	09:00:00	40.9	38.6	42.7	54.2
2021-03-23	09:15:00	44.3	37.5	46.6	64.5
2021-03-23	09:30:00	41.1	36.3	43.8	56.7
2021-03-23	09:45:00	40.5	35.3	41.3	62.3
2021-03-23	10:00:00	41.1	36.8	43.3	57.6
2021-03-23	10:15:00	48.4	41.1	49.6	65.4
2021-03-23	10:30:00	53.2	42.2	56.4	66.8
2021-03-23	10:45:00	50.2	42.1	53.0	66.5
2021-03-23	11:00:00	42.9	39.5	45.3	55.0
2021-03-23	11:15:00	41.9	38.1	44.0	53.4
2021-03-23	11:30:00	42.4	36.4	45.3	58.5
2021-03-23	11:45:00	41.6	37.0	44.7	55.0
2021-03-23	12:00:00	46.7	39.2	49.4	64.6
2021-03-23	12:15:00	45.1	38.2	48.1	63.4
2021-03-23	12:30:00	42.6	38.2	44.7	57.6
2021-03-23	12:45:00	44.2	37.4	46.1	70.1
2021-03-23	13:00:00	43.4	37.9	45.4	62.8
2021-03-23	13:15:00	48.1	38.7	48.8	71.3
2021-03-23	13:30:00	46.8	39.8	50.1	62.1
2021-03-23	13:45:00	45.6	39.7	47.7	63.1
2021-03-23	14:00:00	47.6	41.0	50.1	68.3
2021-03-23	14:15:00	51.1	42.5	54.2	68.8

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-23	14:30:00	48.9	43.4	51.7	64.2
2021-03-23	14:45:00	50.3	42.2	54.1	69.3
2021-03-23	15:00:00	49.9	43.6	52.8	66.7
2021-03-23	15:15:00	48.1	42.5	49.6	68.3
2021-03-23	15:30:00	49.5	44.0	52.7	64.5
2021-03-23	15:45:00	51.6	44.8	54.9	65.3
2021-03-23	16:00:00	48.4	42.9	50.9	70.4
2021-03-23	16:15:00	48.3	41.6	51.0	65.2
2021-03-23	16:30:00	47.6	42.2	50.0	66.8
2021-03-23	16:45:00	47.7	41.0	51.4	61.1
2021-03-23	17:00:00	46.3	40.5	48.6	66.2
2021-03-23	17:15:00	48.6	41.0	51.9	65.2
2021-03-23	17:30:00	49.1	41.9	51.6	66.9
2021-03-23	17:45:00	49.7	41.3	53.2	65.7
2021-03-23	18:00:00	47.4	40.9	50.8	62.3
2021-03-23	18:15:00	46.3	39.7	48.2	62.7
2021-03-23	18:30:00	44.3	39.2	46.7	61.0
2021-03-23	18:45:00	44.1	38.3	47.7	61.6
2021-03-23	19:00:00	40.8	36.5	43.0	55.9
2021-03-23	19:15:00	40.0	36.5	42.3	56.2
2021-03-23	19:30:00	42.6	38.8	45.4	54.5
2021-03-23	19:45:00	45.6	38.9	43.5	66.8
2021-03-23	20:00:00	42.9	38.0	44.2	61.8
2021-03-23	20:15:00	38.2	36.6	39.6	49.7
2021-03-23	20:30:00	37.0	35.3	38.3	48.2
2021-03-23	20:45:00	37.0	34.9	38.3	55.8
2021-03-23	21:00:00	36.7	34.9	38.1	49.8
2021-03-23	21:15:00	36.3	34.4	37.9	49.8
2021-03-23	21:30:00	36.4	34.7	38.1	45.6
2021-03-23	21:45:00	35.3	33.8	36.7	42.9
2021-03-23	22:00:00	34.9	33.3	36.3	43.2
2021-03-23	22:15:00	34.4	33.1	35.6	46.0
2021-03-23	22:30:00	34.5	33.2	35.8	39.9

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-23	22:45:00	36.0	34.0	37.7	47.7
2021-03-23	23:00:00	35.4	32.9	37.7	46.8
2021-03-23	23:15:00	33.7	32.1	35.2	46.0
2021-03-23	23:30:00	33.4	32.1	34.8	43.1
2021-03-23	23:45:00	33.0	31.7	34.3	41.3
2021-03-24	00:00:00	32.9	31.8	33.3	43.5
2021-03-24	00:15:00	32.9	31.7	34.0	41.9
2021-03-24	00:30:00	32.6	31.7	33.5	39.5
2021-03-24	00:45:00	34.8	31.5	35.1	49.4
2021-03-24	01:00:00	32.5	31.2	33.2	53.7
2021-03-24	01:15:00	33.8	31.7	36.2	41.0
2021-03-24	01:30:00	33.0	31.5	34.1	40.5
2021-03-24	01:45:00	31.4	30.8	32.1	35.2
2021-03-24	02:00:00	31.6	30.8	32.1	41.3
2021-03-24	02:15:00	31.5	30.5	32.3	43.4
2021-03-24	02:30:00	31.5	30.6	31.9	42.8
2021-03-24	02:45:00	31.9	30.8	32.5	44.2
2021-03-24	03:00:00	32.0	30.9	33.1	45.5
2021-03-24	03:15:00	34.3	31.3	36.5	52.0
2021-03-24	03:30:00	36.4	33.3	38.1	53.4
2021-03-24	03:45:00	35.6	32.7	37.7	41.8
2021-03-24	04:00:00	32.7	30.7	33.2	48.5
2021-03-24	04:15:00	38.5	31.2	33.5	56.9
2021-03-24	04:30:00	34.3	31.9	36.3	52.1
2021-03-24	04:45:00	37.9	32.0	37.1	55.2
2021-03-24	05:00:00	34.0	32.3	35.5	43.7
2021-03-24	05:15:00	34.0	32.6	35.2	46.5
2021-03-24	05:30:00	41.9	34.3	43.6	61.8
2021-03-24	05:45:00	43.2	35.7	46.3	64.7
2021-03-24	06:00:00	39.8	36.2	41.3	61.6
2021-03-24	06:15:00	40.0	37.8	41.3	53.2
2021-03-24	06:30:00	39.5	38.3	40.5	54.4
2021-03-24	06:45:00	41.9	38.0	41.9	62.6

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-24	07:00:00	40.3	38.6	41.7	54.1
2021-03-24	07:15:00	43.3	39.6	42.4	65.8
2021-03-24	07:30:00	42.3	40.2	42.9	58.0
2021-03-24	07:45:00	41.2	39.5	42.4	52.7
2021-03-24	08:00:00	50.7	39.6	47.1	68.7
2021-03-24	08:15:00	43.5	41.2	44.6	62.0
2021-03-24	08:30:00	43.6	42.1	44.8	54.5
2021-03-24	08:45:00	42.0	40.5	43.2	54.8
2021-03-24	09:00:00	42.3	40.4	44.1	52.2
2021-03-24	09:15:00	44.2	40.4	46.9	53.4
2021-03-24	09:30:00	46.3	41.5	49.5	56.3
2021-03-24	09:45:00	45.0	40.3	47.9	56.5
2021-03-24	10:00:00	41.9	38.9	43.8	53.4
2021-03-24	10:15:00	42.3	38.4	44.6	57.1
2021-03-24	10:30:00	45.9	42.8	48.1	54.6
2021-03-24	10:45:00	44.3	39.5	46.8	57.8
2021-03-24	11:00:00	43.7	38.2	45.8	66.3
2021-03-24	11:15:00	42.4	38.7	44.5	57.1
2021-03-24	11:30:00	42.7	39.3	45.3	55.5
2021-03-24	11:45:00	44.7	39.9	47.4	60.7
2021-03-24	12:00:00	43.2	39.7	45.2	58.1
2021-03-24	12:15:00	44.7	40.2	47.3	52.6
2021-03-24	12:30:00	44.0	39.2	46.1	60.5
2021-03-24	12:45:00	43.2	39.0	45.2	62.7
2021-03-24	13:00:00	45.8	40.7	48.3	60.5
2021-03-24	13:15:00	43.2	39.3	45.2	60.0
2021-03-24	13:30:00	44.4	39.9	47.0	60.6
2021-03-24	13:45:00	44.5	39.1	47.3	59.6
2021-03-24	14:00:00	44.1	40.2	46.0	58.2
2021-03-24	14:15:00	44.0	40.6	46.6	59.7
2021-03-24	14:30:00	44.4	40.8	46.4	58.1
2021-03-24	14:45:00	43.1	39.8	45.0	58.2
2021-03-24	15:00:00	42.3	38.1	44.5	56.8

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-24	15:15:00	47.4	40.4	50.8	64.6
2021-03-24	15:30:00	44.4	38.7	47.3	63.0
2021-03-24	15:45:00	43.5	39.7	45.7	61.2
2021-03-24	16:00:00	43.1	39.8	45.5	58.8
2021-03-24	16:15:00	44.7	40.6	46.9	59.8
2021-03-24	16:30:00	43.6	41.2	44.9	57.7
2021-03-24	16:45:00	44.6	40.8	47.0	57.9
2021-03-24	17:00:00	42.3	39.2	43.8	56.6
2021-03-24	17:15:00	40.5	37.6	42.1	54.1
2021-03-24	17:30:00	42.8	38.9	44.1	63.8
2021-03-24	17:45:00	45.1	38.9	46.0	62.7
2021-03-24	18:00:00	42.0	39.0	43.8	54.8
2021-03-24	18:15:00	41.9	38.5	44.2	58.6
2021-03-24	18:30:00	41.8	37.6	44.3	57.9
2021-03-24	18:45:00	42.0	38.7	43.5	59.2
2021-03-24	19:00:00	40.4	38.1	42.0	53.6
2021-03-24	19:15:00	41.4	37.5	41.8	67.2
2021-03-24	19:30:00	40.4	37.8	42.4	50.8
2021-03-24	19:45:00	45.4	36.6	40.9	68.7
2021-03-24	20:00:00	40.4	37.7	42.5	54.8
2021-03-24	20:15:00	41.2	38.0	43.0	53.6
2021-03-24	20:30:00	41.0	37.9	43.5	52.8
2021-03-24	20:45:00	38.4	36.4	40.2	44.4
2021-03-24	21:00:00	38.1	36.0	39.9	49.5
2021-03-24	21:15:00	37.5	35.7	38.9	50.5
2021-03-24	21:30:00	38.2	36.3	39.6	44.8
2021-03-24	21:45:00	39.7	35.5	41.7	56.0
2021-03-24	22:00:00	39.8	35.9	42.8	49.2
2021-03-24	22:15:00	39.6	35.7	42.1	53.4
2021-03-24	22:30:00	36.7	33.8	38.1	52.9
2021-03-24	22:45:00	34.4	32.5	35.0	54.7
2021-03-24	23:00:00	33.8	32.3	34.9	48.9
2021-03-24	23:15:00	34.2	32.2	35.1	49.1

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-24	23:30:00	35.1	31.6	35.3	58.8
2021-03-24	23:45:00	32.6	31.5	33.6	50.0
2021-03-25	00:00:00	33.6	31.7	35.1	49.2
2021-03-25	00:15:00	32.6	31.5	33.8	40.4
2021-03-25	00:30:00	32.8	31.7	33.9	43.8
2021-03-25	00:45:00	32.5	31.4	33.5	43.6
2021-03-25	01:00:00	33.8	31.8	35.5	40.4
2021-03-25	01:15:00	35.0	32.4	36.6	44.8
2021-03-25	01:30:00	35.2	32.6	37.5	44.0
2021-03-25	01:45:00	34.0	32.1	35.4	48.9
2021-03-25	02:00:00	35.4	32.5	37.9	46.9
2021-03-25	02:15:00	37.4	33.8	40.5	50.3
2021-03-25	02:30:00	36.3	33.7	37.4	48.7
2021-03-25	02:45:00	38.8	34.3	41.4	57.4
2021-03-25	03:00:00	38.2	33.7	41.3	47.5
2021-03-25	03:15:00	39.2	35.1	41.9	55.3
2021-03-25	03:30:00	41.8	39.4	43.8	49.8
2021-03-25	03:45:00	42.0	38.6	44.5	52.4
2021-03-25	04:00:00	41.6	38.3	44.0	51.6
2021-03-25	04:15:00	40.9	36.6	43.1	55.0
2021-03-25	04:30:00	40.3	36.0	42.3	54.0
2021-03-25	04:45:00	41.4	37.6	43.5	60.3
2021-03-25	05:00:00	41.7	38.6	44.2	50.9
2021-03-25	05:15:00	37.7	35.6	39.1	46.9
2021-03-25	05:30:00	50.4	37.0	49.1	68.2
2021-03-25	05:45:00	54.3	38.2	59.3	69.4
2021-03-25	06:00:00	42.1	37.6	45.2	57.9
2021-03-25	06:15:00	41.8	38.9	44.0	55.0
2021-03-25	06:30:00	43.6	39.4	44.8	65.0
2021-03-25	06:45:00	43.8	41.1	45.7	55.3
2021-03-25	07:00:00	44.0	40.7	45.7	58.5
2021-03-25	07:15:00	43.6	41.6	45.1	50.4
2021-03-25	07:30:00	44.2	41.9	46.1	52.9

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-25	07:45:00	44.2	41.9	45.9	52.8
2021-03-25	08:00:00	44.9	42.7	46.5	57.5
2021-03-25	08:15:00	46.0	43.5	48.1	57.5
2021-03-25	08:30:00	46.8	44.3	48.7	57.7
2021-03-25	08:45:00	46.7	44.3	48.3	62.0
2021-03-25	09:00:00	46.0	43.8	47.6	59.9
2021-03-25	09:15:00	45.8	43.6	47.1	56.1
2021-03-25	09:30:00	47.3	44.5	49.3	58.9
2021-03-25	09:45:00	47.5	43.9	50.0	60.1
2021-03-25	10:00:00	47.6	44.2	49.6	60.9
2021-03-25	10:15:00	51.5	44.9	55.3	62.1
2021-03-25	10:30:00	46.6	42.1	47.0	67.8
2021-03-25	10:45:00	47.5	43.1	48.9	64.6
2021-03-25	11:00:00	46.9	43.2	49.4	57.4

Table 26 CM3: Measured noise levels, free-field, dB

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-19	17:00:00	45.1	40.5	48.4	59.7
2021-03-19	17:15:00	41.8	39.9	42.8	60.2
2021-03-19	17:30:00	42.0	39.9	43.4	54.6
2021-03-19	17:45:00	41.4	39.5	42.9	53.1
2021-03-19	18:00:00	41.2	39.4	42.7	51.8
2021-03-19	18:15:00	41.2	39.6	42.3	54.8
2021-03-19	18:30:00	40.9	39.5	42.0	50.6
2021-03-19	18:45:00	44.3	39.4	46.7	59.5
2021-03-19	19:00:00	42.5	40.7	43.9	54.6
2021-03-19	19:15:00	42.4	41.2	43.4	52.1
2021-03-19	19:30:00	42.6	41.5	43.5	53.0
2021-03-19	19:45:00	44.1	41.6	46.1	53.0
2021-03-19	20:00:00	43.9	41.8	45.6	55.9
2021-03-19	20:15:00	44.2	42.1	45.7	51.4
2021-03-19	20:30:00	43.7	41.3	45.7	50.6
2021-03-19	20:45:00	43.0	41.5	44.4	49.5
2021-03-19	21:00:00	43.2	41.4	44.8	53.7

Date	Time	LAeq, T	LA90	LA10	LAmaz
2021-03-19	21:15:00	44.2	41.3	46.4	54.0
2021-03-19	21:30:00	44.3	41.5	46.4	53.1
2021-03-19	21:45:00	42.9	41.0	44.6	51.8
2021-03-19	22:00:00	42.7	41.3	44.1	52.6
2021-03-19	22:15:00	44.3	41.8	46.2	54.3
2021-03-19	22:30:00	44.5	41.3	46.3	60.5
2021-03-19	22:45:00	44.2	41.4	46.2	54.2
2021-03-19	23:00:00	42.8	40.7	44.6	51.2
2021-03-19	23:15:00	44.0	41.5	46.0	54.0
2021-03-19	23:30:00	44.5	42.7	46.0	51.2
2021-03-19	23:45:00	45.7	43.8	47.3	52.4
2021-03-20	00:00:00	44.1	42.3	45.5	51.6
2021-03-20	00:15:00	43.9	41.8	45.5	53.3
2021-03-20	00:30:00	43.4	41.4	45.3	53.1
2021-03-20	00:45:00	42.6	41.4	43.8	50.2
2021-03-20	01:00:00	41.6	40.3	42.7	49.1
2021-03-20	01:15:00	41.4	40.5	42.3	48.2
2021-03-20	01:30:00	42.2	40.3	43.3	59.1
2021-03-20	01:45:00	40.8	38.7	42.3	50.8
2021-03-20	02:00:00	39.2	38.3	40.2	46.0
2021-03-20	02:15:00	39.4	38.4	40.3	48.0
2021-03-20	02:30:00	40.3	38.1	39.9	60.9
2021-03-20	02:45:00	39.4	38.3	40.6	46.8
2021-03-20	03:00:00	40.3	39.2	41.3	49.4
2021-03-20	03:15:00	40.5	39.6	41.2	49.6
2021-03-20	03:30:00	40.1	38.9	41.0	50.3
2021-03-20	03:45:00	39.6	38.4	40.7	50.1
2021-03-20	04:00:00	39.5	38.4	40.3	46.1
2021-03-20	04:15:00	40.2	39.0	41.3	50.6
2021-03-20	04:30:00	40.0	38.6	40.7	50.6
2021-03-20	04:45:00	39.8	38.7	40.9	48.0
2021-03-20	05:00:00	44.2	37.9	43.3	62.3
2021-03-20	05:15:00	43.7	38.6	47.0	58.8

Date	Time	LAeq, T	LA90	LA10	LAmaz
2021-03-20	05:30:00	43.3	39.0	46.4	58.5
2021-03-20	05:45:00	44.8	39.1	45.7	63.8
2021-03-20	06:00:00	49.7	39.6	53.1	64.3
2021-03-20	06:15:00	47.5	45.6	48.4	61.4
2021-03-20	06:30:00	49.9	46.3	50.4	68.4
2021-03-20	06:45:00	48.7	46.8	49.5	63.5
2021-03-20	07:00:00	50.5	47.1	51.9	68.4
2021-03-20	07:15:00	49.3	46.3	49.9	62.8
2021-03-20	07:30:00	48.5	46.0	49.0	64.3
2021-03-20	07:45:00	48.6	45.9	49.0	63.0
2021-03-20	08:00:00	48.9	46.1	49.8	62.7
2021-03-20	08:15:00	48.4	46.3	48.9	65.1
2021-03-20	08:30:00	48.0	46.2	48.9	62.2
2021-03-20	08:45:00	48.7	46.8	50.3	58.0
2021-03-20	09:00:00	48.4	46.7	49.3	63.7
2021-03-20	09:15:00	52.2	46.9	55.3	70.4
2021-03-20	09:30:00	49.7	47.1	50.5	65.0
2021-03-20	09:45:00	49.4	47.8	50.6	59.5
2021-03-20	10:00:00	50.5	48.2	51.9	62.1
2021-03-20	10:15:00	49.9	48.1	51.2	62.9
2021-03-20	10:30:00	49.9	48.2	51.2	61.5
2021-03-20	10:45:00	50.0	48.2	51.3	60.6
2021-03-20	11:00:00	49.8	48.1	51.2	63.8
2021-03-20	11:15:00	49.7	47.7	51.2	60.4
2021-03-20	11:30:00	50.9	47.8	52.8	65.9
2021-03-20	11:45:00	51.0	48.4	52.5	64.8
2021-03-20	12:00:00	50.8	48.2	52.7	60.1
2021-03-20	12:15:00	50.4	47.8	52.2	62.7
2021-03-20	12:30:00	49.9	47.7	51.6	61.5
2021-03-20	12:45:00	54.5	47.5	56.6	69.5
2021-03-20	13:00:00	51.1	47.9	52.5	70.1
2021-03-20	13:15:00	49.8	47.3	51.5	63.1
2021-03-20	13:30:00	49.8	47.7	51.2	61.9

Date	Time	LAeq, T	LA90	LA10	LAmaz
2021-03-20	13:45:00	51.3	48.3	53.2	67.6
2021-03-20	14:00:00	50.1	47.2	51.9	62.0
2021-03-20	14:15:00	49.4	45.3	50.8	65.6
2021-03-20	14:30:00	50.6	44.2	51.9	72.6
2021-03-20	14:45:00	47.7	43.7	49.8	64.2
2021-03-20	15:00:00	46.8	44.3	48.7	59.1
2021-03-20	15:15:00	47.1	44.5	48.8	61.6
2021-03-20	15:30:00	47.9	45.3	49.8	64.5
2021-03-20	15:45:00	47.0	44.5	48.7	59.9
2021-03-20	16:00:00	47.9	45.3	49.9	60.1
2021-03-20	16:15:00	48.3	45.8	49.9	61.1
2021-03-20	16:30:00	47.1	45.1	48.6	55.6
2021-03-20	16:45:00	48.2	45.2	49.4	62.0
2021-03-20	17:00:00	47.3	45.1	49.2	58.0
2021-03-20	17:15:00	47.6	44.9	49.6	62.6
2021-03-20	17:30:00	47.5	44.4	48.8	62.5
2021-03-20	17:45:00	49.8	45.0	51.3	63.4
2021-03-20	18:00:00	47.9	45.1	50.0	59.9
2021-03-20	18:15:00	49.5	45.7	51.8	62.9
2021-03-20	18:30:00	50.3	46.3	52.7	66.2
2021-03-20	18:45:00	50.1	46.4	51.9	72.5
2021-03-20	19:00:00	51.0	46.6	53.4	67.1
2021-03-20	19:15:00	48.3	45.2	50.3	66.0
2021-03-20	19:30:00	47.8	45.1	49.7	61.0
2021-03-20	19:45:00	48.1	44.6	50.4	63.4
2021-03-20	20:00:00	47.3	43.9	49.5	61.2
2021-03-20	20:15:00	45.8	43.3	47.8	56.0
2021-03-20	20:30:00	46.1	43.7	47.9	58.1
2021-03-20	20:45:00	46.0	43.5	47.8	57.2
2021-03-20	21:00:00	44.9	42.5	46.6	54.7
2021-03-20	21:15:00	45.1	42.6	47.1	56.4
2021-03-20	21:30:00	49.2	42.3	47.0	69.3
2021-03-20	21:45:00	47.7	42.0	48.1	66.4

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-20	22:00:00	43.8	41.8	45.6	54.0
2021-03-20	22:15:00	43.2	41.0	45.0	51.3
2021-03-20	22:30:00	42.2	40.2	43.9	50.1
2021-03-20	22:45:00	43.1	40.6	45.1	54.6
2021-03-20	23:00:00	42.8	40.7	44.6	51.6
2021-03-20	23:15:00	43.1	40.6	45.1	53.5
2021-03-20	23:30:00	43.0	40.8	44.8	51.8
2021-03-20	23:45:00	43.2	40.5	45.4	53.3
2021-03-21	00:00:00	43.4	40.8	45.6	53.6
2021-03-21	00:15:00	43.1	40.5	45.0	55.1
2021-03-21	00:30:00	42.7	40.1	44.6	53.3
2021-03-21	00:45:00	42.4	40.1	44.3	56.7
2021-03-21	01:00:00	42.1	39.6	44.2	55.1
2021-03-21	01:15:00	41.6	39.3	43.4	51.9
2021-03-21	01:30:00	41.5	38.9	43.5	52.4
2021-03-21	01:45:00	41.4	39.0	43.3	50.6
2021-03-21	02:00:00	40.5	38.6	42.0	50.3
2021-03-21	02:15:00	42.5	39.4	44.8	55.3
2021-03-21	02:30:00	42.5	39.4	45.0	53.5
2021-03-21	02:45:00	43.4	40.1	45.8	56.7
2021-03-21	03:00:00	41.8	39.1	44.0	52.7
2021-03-21	03:15:00	42.2	39.5	44.0	57.2
2021-03-21	03:30:00	42.1	38.6	44.6	54.9
2021-03-21	03:45:00	41.4	38.9	43.5	55.9
2021-03-21	04:00:00	42.0	39.3	44.3	51.5
2021-03-21	04:15:00	41.8	38.7	44.2	51.8
2021-03-21	04:30:00	41.9	39.8	43.9	52.2
2021-03-21	04:45:00	43.6	39.2	46.7	57.4
2021-03-21	05:00:00	44.7	39.8	47.6	60.3
2021-03-21	05:15:00	44.9	39.9	47.9	60.2
2021-03-21	05:30:00	45.0	41.1	47.6	58.6
2021-03-21	05:45:00	45.4	40.3	46.4	67.5
2021-03-21	06:00:00	47.8	40.8	49.3	64.5

Date	Time	LAeq, T	LA90	LA10	LAmaz
2021-03-21	06:15:00	48.7	46.5	49.6	62.8
2021-03-21	06:30:00	49.1	46.5	49.3	64.4
2021-03-21	06:45:00	48.8	46.9	49.8	63.3
2021-03-21	07:00:00	49.4	47.4	50.9	59.0
2021-03-21	07:15:00	50.0	47.9	51.5	61.7
2021-03-21	07:30:00	49.8	47.6	51.1	61.3
2021-03-21	07:45:00	49.5	47.3	50.4	69.6
2021-03-21	08:00:00	48.6	46.8	49.9	61.9
2021-03-21	08:15:00	49.0	47.2	50.4	61.7
2021-03-21	08:30:00	48.6	46.9	50.1	54.4
2021-03-21	08:45:00	49.8	47.8	51.4	59.6
2021-03-21	09:00:00	49.6	47.6	51.0	63.0
2021-03-21	09:15:00	50.1	48.2	51.5	58.9
2021-03-21	09:30:00	50.4	48.3	52.0	60.8
2021-03-21	09:45:00	51.0	48.6	52.6	66.3
2021-03-21	10:00:00	51.0	48.3	52.0	71.3
2021-03-21	10:15:00	51.4	47.9	51.7	70.4
2021-03-21	10:30:00	50.9	48.2	53.3	63.1
2021-03-21	10:45:00	50.0	48.3	51.3	60.5
2021-03-21	11:00:00	49.8	47.8	51.1	61.6
2021-03-21	11:15:00	50.2	48.2	51.6	62.1
2021-03-21	11:30:00	49.9	47.6	51.7	58.9
2021-03-21	11:45:00	50.5	48.5	51.9	62.6
2021-03-21	12:00:00	49.1	46.4	50.6	63.1
2021-03-21	12:15:00	50.4	48.0	52.0	62.9
2021-03-21	12:30:00	50.6	48.1	52.2	61.9
2021-03-21	12:45:00	50.1	47.6	51.7	71.2
2021-03-21	13:00:00	50.3	47.1	51.1	68.8
2021-03-21	13:15:00	50.1	48.0	51.8	57.7
2021-03-21	13:30:00	49.3	46.5	51.0	65.4
2021-03-21	13:45:00	49.0	47.1	50.5	56.8
2021-03-21	14:00:00	48.2	43.8	49.8	67.1
2021-03-21	14:15:00	46.2	42.0	46.7	60.4

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-21	14:30:00	45.1	41.1	46.6	60.0
2021-03-21	14:45:00	44.4	40.8	45.4	64.2
2021-03-21	15:00:00	46.9	40.9	49.1	66.7
2021-03-21	15:15:00	49.3	41.1	52.0	69.4
2021-03-21	15:30:00	43.7	40.7	45.2	59.8
2021-03-21	15:45:00	44.8	40.8	46.1	63.3
2021-03-21	16:00:00	44.8	41.2	46.9	62.4
2021-03-21	16:15:00	44.4	41.5	45.2	62.3
2021-03-21	16:30:00	44.4	41.4	46.7	56.1
2021-03-21	16:45:00	44.9	41.9	46.2	60.6
2021-03-21	17:00:00	43.0	41.5	44.1	54.8
2021-03-21	17:15:00	44.6	42.1	46.1	59.5
2021-03-21	17:30:00	44.9	42.8	46.5	62.5
2021-03-21	17:45:00	44.6	42.7	46.2	56.5
2021-03-21	18:00:00	45.6	42.9	45.8	72.4
2021-03-21	18:15:00	44.8	43.5	45.9	54.4
2021-03-21	18:30:00	45.1	43.8	46.2	57.3
2021-03-21	18:45:00	44.7	43.5	45.6	51.4
2021-03-21	19:00:00	46.7	42.0	45.7	66.0
2021-03-21	19:15:00	43.2	41.2	44.6	56.3
2021-03-21	19:30:00	44.5	42.2	46.4	51.6
2021-03-21	19:45:00	45.2	43.1	46.6	52.3
2021-03-21	20:00:00	44.3	42.4	46.0	51.9
2021-03-21	20:15:00	44.9	42.1	46.8	55.0
2021-03-21	20:30:00	44.7	42.7	46.2	54.6
2021-03-21	20:45:00	43.3	41.2	44.9	51.6
2021-03-21	21:00:00	42.6	39.9	44.5	51.4
2021-03-21	21:15:00	39.4	38.4	40.1	48.1
2021-03-21	21:30:00	39.8	38.5	40.8	47.2
2021-03-21	21:45:00	39.3	38.0	40.3	49.9
2021-03-21	22:00:00	38.9	37.7	40.0	43.8
2021-03-21	22:15:00	38.2	37.4	38.9	43.5
2021-03-21	22:30:00	38.7	37.5	39.9	50.2

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-21	22:45:00	38.7	37.6	39.7	47.8
2021-03-21	23:00:00	39.5	38.2	40.5	51.8
2021-03-21	23:15:00	39.7	37.8	41.5	48.9
2021-03-21	23:30:00	39.4	38.0	40.5	49.7
2021-03-21	23:45:00	39.6	38.0	41.0	49.2
2021-03-22	00:00:00	40.5	38.1	42.7	51.4
2021-03-22	00:15:00	40.7	38.0	42.7	49.4
2021-03-22	00:30:00	38.5	37.3	39.4	49.2
2021-03-22	00:45:00	37.9	36.6	38.4	47.1
2021-03-22	01:00:00	37.7	36.5	38.5	49.0
2021-03-22	01:15:00	37.6	36.6	38.4	51.0
2021-03-22	01:30:00	38.0	37.0	39.1	53.0
2021-03-22	01:45:00	38.6	37.3	39.6	51.4
2021-03-22	02:00:00	38.8	37.4	39.8	51.2
2021-03-22	02:15:00	39.1	37.8	40.4	52.4
2021-03-22	02:30:00	38.3	37.3	39.1	47.0
2021-03-22	02:45:00	38.9	38.0	39.8	50.6
2021-03-22	03:00:00	39.3	38.0	40.2	50.4
2021-03-22	03:15:00	39.8	38.6	41.0	46.2
2021-03-22	03:30:00	40.4	39.1	41.3	53.8
2021-03-22	03:45:00	39.9	38.4	41.0	48.3
2021-03-22	04:00:00	42.4	38.3	40.8	64.0
2021-03-22	04:15:00	40.2	37.7	39.9	64.5
2021-03-22	04:30:00	39.9	38.7	41.0	48.9
2021-03-22	04:45:00	39.5	38.3	40.5	44.8
2021-03-22	05:00:00	42.2	38.3	41.3	64.4
2021-03-22	05:15:00	41.7	39.7	43.4	48.9
2021-03-22	05:30:00	45.1	40.6	45.0	63.7
2021-03-22	05:45:00	46.6	40.6	47.7	63.4
2021-03-22	06:00:00	49.2	42.7	50.2	71.2
2021-03-22	06:15:00	48.7	47.0	49.8	62.5
2021-03-22	06:30:00	51.8	47.0	54.7	68.4
2021-03-22	06:45:00	48.4	45.9	49.0	62.8

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-22	07:00:00	51.1	46.1	54.3	67.9
2021-03-22	07:15:00	47.8	46.3	48.5	61.2
2021-03-22	07:30:00	47.5	45.7	47.9	59.9
2021-03-22	07:45:00	47.1	45.4	47.8	64.3
2021-03-22	08:00:00	48.3	45.9	49.0	62.6
2021-03-22	08:15:00	47.6	45.4	47.8	60.9
2021-03-22	08:30:00	47.3	45.5	48.0	61.6
2021-03-22	08:45:00	48.5	45.6	49.5	62.9
2021-03-22	09:00:00	46.6	45.2	47.6	56.0
2021-03-22	09:15:00	46.7	45.2	47.7	58.6
2021-03-22	09:30:00	47.7	45.6	49.1	60.7
2021-03-22	09:45:00	47.4	45.6	48.2	62.5
2021-03-22	10:00:00	48.4	45.4	49.7	62.9
2021-03-22	10:15:00	46.8	45.3	47.8	58.6
2021-03-22	10:30:00	47.5	45.5	48.0	62.6
2021-03-22	10:45:00	47.5	45.7	48.5	68.5
2021-03-22	11:00:00	47.5	45.2	48.0	68.9
2021-03-22	11:15:00	47.9	45.2	48.1	69.8
2021-03-22	11:30:00	48.9	45.3	48.8	64.2
2021-03-22	11:45:00	51.9	46.6	54.7	62.8
2021-03-22	12:00:00	47.9	45.5	50.2	65.0
2021-03-22	12:15:00	48.3	44.9	48.6	62.9
2021-03-22	12:30:00	47.8	44.9	49.4	63.1
2021-03-22	12:45:00	49.0	45.2	50.1	64.0
2021-03-22	13:00:00	46.6	44.8	47.4	62.3
2021-03-22	13:15:00	47.0	45.0	47.8	61.8
2021-03-22	13:30:00	46.3	44.6	47.0	59.4
2021-03-22	13:45:00	47.5	45.1	48.3	60.5
2021-03-22	14:00:00	49.0	45.2	50.1	71.1
2021-03-22	14:15:00	48.2	46.3	49.2	63.5
2021-03-22	14:30:00	47.2	45.1	47.9	65.1
2021-03-22	14:45:00	46.8	45.1	48.1	56.4
2021-03-22	15:00:00	47.9	45.0	47.5	76.9

Date	Time	LAeq, T	LA90	LA10	LAmaz
2021-03-22	15:15:00	46.6	45.3	47.5	60.8
2021-03-22	15:30:00	46.9	45.4	47.9	58.3
2021-03-22	15:45:00	47.1	44.9	48.2	64.6
2021-03-22	16:00:00	45.9	44.5	46.9	59.6
2021-03-22	16:15:00	46.4	45.2	47.2	63.1
2021-03-22	16:30:00	46.9	45.3	48.0	61.9
2021-03-22	16:45:00	46.7	45.2	47.7	58.2
2021-03-22	17:00:00	46.2	39.4	47.4	66.2
2021-03-22	17:15:00	41.6	39.8	43.0	55.4
2021-03-22	17:30:00	42.8	39.9	43.3	59.7
2021-03-22	17:45:00	42.5	38.5	42.2	66.5
2021-03-22	18:00:00	41.5	38.3	43.1	59.1
2021-03-22	18:15:00	40.5	38.7	41.2	59.6
2021-03-22	18:30:00	39.9	38.1	40.4	58.8
2021-03-22	18:45:00	41.0	37.5	39.4	66.1
2021-03-22	19:00:00	39.1	37.2	40.3	55.3
2021-03-22	19:15:00	37.9	37.3	38.4	46.4
2021-03-22	19:30:00	37.9	37.3	38.5	39.7
2021-03-22	19:45:00	37.5	37.0	38.1	41.1
2021-03-22	20:00:00	39.2	37.0	38.3	56.8
2021-03-22	20:15:00	38.6	37.1	38.5	51.6
2021-03-22	20:30:00	38.0	37.3	38.5	46.9
2021-03-22	20:45:00	37.9	37.2	38.6	40.4
2021-03-22	21:00:00	37.7	37.1	38.3	41.0
2021-03-22	21:15:00	37.8	37.1	38.6	50.0
2021-03-22	21:30:00	38.6	37.7	39.3	52.6
2021-03-22	21:45:00	41.1	38.1	40.2	60.8
2021-03-22	22:00:00	42.5	37.8	42.4	64.5
2021-03-22	22:15:00	45.0	37.9	43.5	62.9
2021-03-22	22:30:00	38.8	37.8	39.7	44.0
2021-03-22	22:45:00	38.6	37.6	39.5	49.3
2021-03-22	23:00:00	38.5	37.4	39.3	46.4
2021-03-22	23:15:00	38.2	37.1	39.0	46.1

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-22	23:30:00	37.6	37.0	38.3	49.0
2021-03-22	23:45:00	37.9	36.7	39.0	46.2
2021-03-23	00:00:00	38.2	37.2	39.1	42.1
2021-03-23	00:15:00	38.3	37.1	39.4	44.1
2021-03-23	00:30:00	38.1	37.0	39.0	42.9
2021-03-23	00:45:00	37.1	36.4	37.7	41.4
2021-03-23	01:00:00	37.4	36.8	38.0	41.5
2021-03-23	01:15:00	37.5	36.8	38.2	43.6
2021-03-23	01:30:00	36.7	36.2	37.3	44.8
2021-03-23	01:45:00	37.0	36.4	37.6	40.8
2021-03-23	02:00:00	38.0	36.4	38.1	52.5
2021-03-23	02:15:00	39.3	37.2	40.5	43.5
2021-03-23	02:30:00	42.1	40.2	42.0	61.5
2021-03-23	02:45:00	42.3	39.7	44.1	50.4
2021-03-23	03:00:00	41.5	39.3	44.1	48.1
2021-03-23	03:15:00	40.1	39.2	41.0	49.0
2021-03-23	03:30:00	40.4	39.4	41.4	45.6
2021-03-23	03:45:00	40.6	39.6	41.6	47.3
2021-03-23	04:00:00	40.4	39.6	41.2	49.8
2021-03-23	04:15:00	41.0	39.5	41.5	57.4
2021-03-23	04:30:00	40.0	39.3	40.7	49.0
2021-03-23	04:45:00	39.5	38.4	40.5	46.9
2021-03-23	05:00:00	44.3	38.4	44.6	63.2
2021-03-23	05:15:00	45.3	39.6	46.7	68.1
2021-03-23	05:30:00	41.0	38.9	43.1	52.2
2021-03-23	05:45:00	44.8	39.4	44.8	63.3
2021-03-23	06:00:00	52.7	41.0	53.1	76.4
2021-03-23	06:15:00	46.9	45.5	47.8	59.6
2021-03-23	06:30:00	49.2	45.8	50.4	67.4
2021-03-23	06:45:00	50.8	47.0	52.9	65.1
2021-03-23	07:00:00	51.1	47.5	53.3	66.3
2021-03-23	07:15:00	48.8	46.8	49.4	65.5
2021-03-23	07:30:00	48.9	46.6	49.7	63.0

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-23	07:45:00	48.7	46.4	49.2	63.7
2021-03-23	08:00:00	48.6	46.4	50.3	61.4
2021-03-23	08:15:00	48.0	46.0	49.2	60.7
2021-03-23	08:30:00	48.9	46.4	50.1	63.2
2021-03-23	08:45:00	48.2	46.3	49.4	62.3
2021-03-23	09:00:00	48.9	46.1	50.6	64.6
2021-03-23	09:15:00	49.6	47.1	51.6	60.9
2021-03-23	09:30:00	52.4	48.0	55.3	69.3
2021-03-23	09:45:00	48.6	46.6	50.0	57.9
2021-03-23	10:00:00	48.3	46.2	49.7	61.3
2021-03-23	10:15:00	48.8	46.6	49.8	60.6
2021-03-23	10:30:00	48.0	45.6	49.3	65.1
2021-03-23	10:45:00	50.6	46.6	52.9	70.6
2021-03-23	11:00:00	50.3	46.1	52.3	72.1
2021-03-23	11:15:00	48.5	45.6	50.6	60.9
2021-03-23	11:30:00	48.9	45.4	50.5	64.4
2021-03-23	11:45:00	48.0	45.4	50.0	61.8
2021-03-23	12:00:00	54.2	47.3	57.1	70.1
2021-03-23	12:15:00	54.7	47.9	57.4	66.3
2021-03-23	12:30:00	48.2	45.7	50.0	59.6
2021-03-23	12:45:00	50.2	45.9	52.6	65.3
2021-03-23	13:00:00	50.2	46.2	52.5	68.9
2021-03-23	13:15:00	55.4	46.5	55.0	80.4
2021-03-23	13:30:00	54.3	46.2	55.6	79.1
2021-03-23	13:45:00	51.4	46.2	54.1	67.3
2021-03-23	14:00:00	54.4	47.0	56.0	76.2
2021-03-23	14:15:00	54.9	48.4	58.0	72.8
2021-03-23	14:30:00	54.9	47.6	57.0	79.4
2021-03-23	14:45:00	57.8	48.1	59.8	79.8
2021-03-23	15:00:00	57.1	48.8	60.3	72.5
2021-03-23	15:15:00	55.2	47.5	57.6	75.9
2021-03-23	15:30:00	56.0	49.4	59.3	70.0
2021-03-23	15:45:00	60.0	50.9	63.8	77.6

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-23	16:00:00	55.0	49.4	57.5	73.2
2021-03-23	16:15:00	55.8	48.3	57.5	80.5
2021-03-23	16:30:00	53.6	48.2	56.6	70.3
2021-03-23	16:45:00	53.7	47.7	56.9	68.5
2021-03-23	17:00:00	54.2	46.0	54.5	76.8
2021-03-23	17:15:00	53.5	45.3	56.2	71.8
2021-03-23	17:30:00	51.8	45.3	55.0	66.6
2021-03-23	17:45:00	53.8	44.8	56.7	75.6
2021-03-23	18:00:00	53.0	45.1	55.3	71.0
2021-03-23	18:15:00	50.6	43.8	53.4	70.3
2021-03-23	18:30:00	48.3	42.6	51.0	67.7
2021-03-23	18:45:00	46.6	41.2	49.2	60.8
2021-03-23	19:00:00	44.0	39.6	46.7	58.3
2021-03-23	19:15:00	47.4	40.2	50.5	64.9
2021-03-23	19:30:00	49.7	43.7	52.6	65.9
2021-03-23	19:45:00	50.1	42.6	52.6	67.8
2021-03-23	20:00:00	46.9	42.0	49.6	64.2
2021-03-23	20:15:00	44.4	40.7	46.8	57.9
2021-03-23	20:30:00	41.4	38.9	43.2	53.1
2021-03-23	20:45:00	40.4	38.2	42.2	49.9
2021-03-23	21:00:00	41.8	39.0	43.9	54.7
2021-03-23	21:15:00	42.2	38.3	44.7	54.9
2021-03-23	21:30:00	42.1	37.5	44.9	55.3
2021-03-23	21:45:00	41.1	36.9	43.5	56.1
2021-03-23	22:00:00	39.8	36.5	42.0	54.4
2021-03-23	22:15:00	39.8	35.7	42.0	55.1
2021-03-23	22:30:00	43.0	36.2	46.2	63.4
2021-03-23	22:45:00	43.7	36.0	47.2	58.9
2021-03-23	23:00:00	44.8	36.6	48.2	62.6
2021-03-23	23:15:00	40.2	34.4	43.6	58.8
2021-03-23	23:30:00	40.5	35.3	43.9	58.6
2021-03-23	23:45:00	42.2	34.6	44.5	65.0
2021-03-24	00:00:00	39.5	34.9	42.3	58.6

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-24	00:15:00	39.6	34.1	42.8	54.3
2021-03-24	00:30:00	38.4	34.1	40.9	55.4
2021-03-24	00:45:00	42.0	33.9	44.9	60.8
2021-03-24	01:00:00	41.5	34.5	44.1	59.0
2021-03-24	01:15:00	40.3	34.2	42.9	56.8
2021-03-24	01:30:00	41.6	34.6	44.8	59.0
2021-03-24	01:45:00	36.4	31.8	39.7	51.0
2021-03-24	02:00:00	35.8	32.3	38.7	48.0
2021-03-24	02:15:00	34.7	32.0	36.3	52.1
2021-03-24	02:30:00	35.3	31.7	38.3	47.2
2021-03-24	02:45:00	37.0	32.3	40.3	53.8
2021-03-24	03:00:00	37.0	32.4	39.8	54.4
2021-03-24	03:15:00	37.9	33.5	41.0	50.6
2021-03-24	03:30:00	37.6	34.1	40.2	50.0
2021-03-24	03:45:00	38.5	34.4	39.7	59.5
2021-03-24	04:00:00	34.9	32.0	37.1	48.7
2021-03-24	04:15:00	42.2	32.6	44.1	62.5
2021-03-24	04:30:00	37.9	33.7	40.9	52.6
2021-03-24	04:45:00	39.7	34.3	42.9	53.7
2021-03-24	05:00:00	39.9	34.5	42.8	56.4
2021-03-24	05:15:00	40.6	34.4	44.1	53.1
2021-03-24	05:30:00	43.4	37.5	45.5	58.8
2021-03-24	05:45:00	42.0	37.0	43.9	61.5
2021-03-24	06:00:00	46.5	38.8	47.7	61.6
2021-03-24	06:15:00	51.4	45.3	55.0	67.1
2021-03-24	06:30:00	48.3	45.9	49.5	62.9
2021-03-24	06:45:00	47.3	45.5	48.4	59.7
2021-03-24	07:00:00	47.3	45.5	48.2	61.9
2021-03-24	07:15:00	48.5	46.2	49.0	63.0
2021-03-24	07:30:00	48.4	46.4	49.0	61.9
2021-03-24	07:45:00	48.0	46.0	48.9	62.6
2021-03-24	08:00:00	48.0	45.9	49.2	60.6
2021-03-24	08:15:00	49.7	46.4	51.3	64.2

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-24	08:30:00	48.7	46.7	50.1	62.3
2021-03-24	08:45:00	50.8	46.7	53.1	66.5
2021-03-24	09:00:00	50.2	46.0	52.5	67.9
2021-03-24	09:15:00	51.6	46.7	54.5	64.7
2021-03-24	09:30:00	51.0	46.3	53.6	66.2
2021-03-24	09:45:00	54.2	46.8	55.8	75.2
2021-03-24	10:00:00	52.7	45.7	55.4	71.9
2021-03-24	10:15:00	51.6	45.7	54.7	69.6
2021-03-24	10:30:00	51.5	46.1	54.2	68.0
2021-03-24	10:45:00	51.2	45.4	53.6	69.5
2021-03-24	11:00:00	49.5	45.0	52.0	66.7
2021-03-24	11:15:00	50.5	45.4	53.1	67.0
2021-03-24	11:30:00	53.4	45.6	55.0	74.2
2021-03-24	11:45:00	52.0	45.7	54.9	70.3
2021-03-24	12:00:00	51.8	45.3	54.5	68.8
2021-03-24	12:15:00	55.8	46.6	57.4	82.8
2021-03-24	12:30:00	50.9	46.3	53.5	64.8
2021-03-24	12:45:00	50.6	45.7	53.4	66.7
2021-03-24	13:00:00	53.1	46.6	54.9	73.1
2021-03-24	13:15:00	49.4	45.7	51.5	67.7
2021-03-24	13:30:00	50.0	46.1	52.2	63.6
2021-03-24	13:45:00	56.4	46.5	57.2	86.6
2021-03-24	14:00:00	55.8	47.4	55.7	77.7
2021-03-24	14:15:00	55.6	47.3	57.3	75.6
2021-03-24	14:30:00	59.8	47.7	65.0	78.5
2021-03-24	14:45:00	54.7	46.4	54.6	76.8
2021-03-24	15:00:00	49.9	45.8	52.4	63.2
2021-03-24	15:15:00	50.9	46.1	52.7	71.2
2021-03-24	15:30:00	50.4	46.1	52.2	74.7
2021-03-24	15:45:00	50.3	46.5	52.7	63.5
2021-03-24	16:00:00	51.1	46.4	53.3	69.7
2021-03-24	16:15:00	52.9	46.3	54.1	77.4
2021-03-24	16:30:00	51.8	47.2	53.9	71.2

Date	Time	LAeq, T	LA90	LA10	LAmx
2021-03-24	16:45:00	51.7	47.3	53.8	71.5
2021-03-24	17:00:00	48.8	44.4	50.6	68.4
2021-03-24	17:15:00	47.0	42.7	48.0	75.7
2021-03-24	17:30:00	46.9	43.2	49.2	61.6
2021-03-24	17:45:00	50.1	43.3	52.3	67.4
2021-03-24	18:00:00	48.3	43.8	51.1	64.5
2021-03-24	18:15:00	50.5	43.4	51.4	73.7
2021-03-24	18:30:00	47.3	43.2	49.5	67.8
2021-03-24	18:45:00	48.1	43.2	50.3	68.5
2021-03-24	19:00:00	49.0	42.7	51.0	68.9
2021-03-24	19:15:00	46.8	42.4	49.1	66.9
2021-03-24	19:30:00	47.0	42.4	49.7	62.8
2021-03-24	19:45:00	48.2	41.9	51.2	67.2
2021-03-24	20:00:00	47.8	42.1	49.3	71.8
2021-03-24	20:15:00	49.2	42.8	52.3	66.3
2021-03-24	20:30:00	47.8	42.6	50.6	62.9
2021-03-24	20:45:00	45.3	41.5	48.0	60.0
2021-03-24	21:00:00	44.8	41.4	47.0	63.3
2021-03-24	21:15:00	43.7	41.2	45.3	62.2
2021-03-24	21:30:00	46.2	41.3	49.3	63.6
2021-03-24	21:45:00	45.1	40.8	47.9	60.4
2021-03-24	22:00:00	49.0	41.1	51.7	69.4
2021-03-24	22:15:00	50.5	42.0	53.5	68.3
2021-03-24	22:30:00	46.9	40.4	49.1	67.7
2021-03-24	22:45:00	41.1	38.2	40.8	64.8
2021-03-24	23:00:00	39.1	38.0	39.9	51.2
2021-03-24	23:15:00	38.7	37.9	39.5	51.6
2021-03-24	23:30:00	38.7	37.5	39.7	53.7
2021-03-24	23:45:00	37.9	37.1	38.7	45.4
2021-03-25	00:00:00	39.3	37.8	40.3	55.9
2021-03-25	00:15:00	39.7	37.6	41.5	51.6
2021-03-25	00:30:00	40.4	37.8	42.2	55.1
2021-03-25	00:45:00	39.2	37.6	40.4	49.6

Date	Time	LAeq, T	LA90	LA10	LAmix
2021-03-25	01:00:00	44.7	38.4	47.8	61.8
2021-03-25	01:15:00	43.7	38.8	46.1	62.0
2021-03-25	01:30:00	44.0	38.6	47.0	61.5
2021-03-25	01:45:00	42.0	38.3	44.6	58.1
2021-03-25	02:00:00	42.0	37.7	43.6	59.8
2021-03-25	02:15:00	44.5	38.3	47.3	63.1
2021-03-25	02:30:00	45.3	39.1	47.5	66.0
2021-03-25	02:45:00	44.6	38.9	46.8	62.4
2021-03-25	03:00:00	50.6	39.9	53.3	74.0
2021-03-25	03:15:00	46.9	40.1	50.0	66.0
2021-03-25	03:30:00	50.9	43.1	53.7	70.4
2021-03-25	03:45:00	50.2	41.4	52.7	72.2
2021-03-25	04:00:00	48.5	41.4	51.2	67.0
2021-03-25	04:15:00	50.2	41.2	53.0	70.0
2021-03-25	04:30:00	49.5	40.7	52.3	68.5
2021-03-25	04:45:00	51.4	41.7	53.0	73.6
2021-03-25	05:00:00	51.7	42.7	54.2	71.3
2021-03-25	05:15:00	47.5	41.9	50.5	63.5
2021-03-25	05:30:00	48.7	42.7	51.2	72.2
2021-03-25	05:45:00	50.3	42.8	53.4	65.3
2021-03-25	06:00:00	49.7	45.2	51.7	67.9
2021-03-25	06:15:00	53.1	46.5	55.3	72.9
2021-03-25	06:30:00	55.1	47.8	58.4	70.4
2021-03-25	06:45:00	53.1	47.5	55.8	69.6
2021-03-25	07:00:00	53.4	47.5	55.5	74.6
2021-03-25	07:15:00	54.4	48.6	57.1	70.7
2021-03-25	07:30:00	52.1	47.5	54.3	68.8
2021-03-25	07:45:00	53.4	48.1	54.8	73.3
2021-03-25	08:00:00	54.1	48.0	56.7	73.8
2021-03-25	08:15:00	54.5	48.5	57.1	73.2
2021-03-25	08:30:00	55.4	49.9	58.1	71.6
2021-03-25	08:45:00	54.1	48.5	56.5	72.5
2021-03-25	09:00:00	59.0	49.2	60.8	78.2

Date	Time	LAeq, T	LA90	LA10	LAmaz
2021-03-25	09:15:00	57.0	48.3	59.7	78.4
2021-03-25	09:30:00	56.4	49.5	58.7	78.4
2021-03-25	09:45:00	56.2	48.7	58.2	77.9
2021-03-25	10:00:00	55.8	48.6	58.9	74.1
2021-03-25	10:15:00	54.0	48.3	56.2	71.4
2021-03-25	10:30:00	56.0	48.3	58.5	75.3
2021-03-25	10:45:00	55.3	48.9	58.2	73.6

Table 27 CM4: measured noise levels, free-field, dB

Date	Time	LAeq, T	LA90	LA10	LAmaz
15/12/2023	11:21	49.9	78.3	49.8	46.3
15/12/2023	11:30	48.8	63.9	50.2	46.5
15/12/2023	11:45	47.4	59.3	48.6	45.8
15/12/2023	12:00	46.4	63.4	47.9	44.5
15/12/2023	12:15	47.8	74.5	48.9	44.7
15/12/2023	12:30	45.9	65.0	47.1	44.3
15/12/2023	12:45	48.3	64.0	49.0	45.5
15/12/2023	13:00	48.1	59.2	49.3	46.5
15/12/2023	13:15	49.6	67.4	50.8	47.0
15/12/2023	13:30	51.6	66.6	54.1	48.1
15/12/2023	13:45	53.6	72.2	56.5	48.3
15/12/2023	14:00	54.5	71.4	57.4	48.8
15/12/2023	14:15	50.2	65.7	51.2	47.8
15/12/2023	14:30	50.6	67.0	52.0	47.7
15/12/2023	14:45	50.5	66.9	51.3	47.2
15/12/2023	15:00	48.6	54.9	50.1	46.6
15/12/2023	15:15	47.6	59.8	48.8	45.7
15/12/2023	15:30	45.3	52.8	46.8	43.3
15/12/2023	15:45	44.3	58.8	45.5	42.7
15/12/2023	16:00	45.0	60.3	46.7	42.7
15/12/2023	16:15	46.9	64.8	47.9	44.8
15/12/2023	16:30	46.2	63.9	47.3	44.8
15/12/2023	16:45	45.6	54.3	46.8	43.9

Date	Time	LAeq, T	LA90	LA10	LAmix
15/12/2023	17:00	45.1	51.5	46.2	43.3
15/12/2023	17:15	44.8	51.6	46.0	43.3
15/12/2023	17:30	45.1	50.7	46.5	43.2
15/12/2023	17:45	45.3	58.3	46.6	43.4
15/12/2023	18:00	45.3	58.8	46.3	43.5
15/12/2023	18:15	45.2	52.9	46.4	43.8
15/12/2023	18:30	45.7	55.8	47.0	44.2
15/12/2023	18:45	46.6	58.9	47.9	44.8
15/12/2023	19:00	46.2	65.0	47.2	44.5
15/12/2023	19:15	47.0	63.7	48.4	44.1
15/12/2023	19:30	45.8	58.7	47.0	43.9
15/12/2023	19:45	45.1	65.4	46.0	42.0
15/12/2023	20:00	43.5	50.7	44.9	41.5
15/12/2023	20:15	43.1	50.2	44.8	41.1
15/12/2023	20:30	42.8	51.3	44.5	40.8
15/12/2023	20:45	42.1	46.6	43.9	40.0
15/12/2023	21:00	41.9	46.0	43.5	40.2
15/12/2023	21:15	42.4	49.2	44.0	40.4
15/12/2023	21:30	42.0	48.4	43.4	40.1
15/12/2023	21:45	45.2	63.7	48.0	39.7
15/12/2023	22:00	41.8	48.6	43.1	40.4
15/12/2023	22:15	43.6	57.5	44.8	40.9
15/12/2023	22:30	42.6	52.5	43.9	40.4
15/12/2023	22:45	42.2	47.9	43.9	40.3
15/12/2023	23:00	42.8	53.1	44.1	41.0
15/12/2023	23:15	43.8	73.9	44.4	39.7
15/12/2023	23:30	41.6	54.1	43.1	39.4
15/12/2023	23:45	42.1	56.0	44.3	38.3
16/12/2023	00:00	41.6	53.5	43.9	38.5
16/12/2023	00:15	41.2	47.1	43.1	38.5
16/12/2023	00:30	41.6	53.3	43.2	39.3
16/12/2023	00:45	41.8	49.4	44.5	38.5
16/12/2023	01:00	40.3	47.7	42.5	37.8

Date	Time	LAeq, T	LA90	LA10	LAmx
16/12/2023	01:15	40.6	53.7	42.8	37.7
16/12/2023	01:30	41.4	54.7	43.3	38.1
16/12/2023	01:45	42.1	62.9	43.3	37.5
16/12/2023	02:00	41.2	60.9	42.9	36.9
16/12/2023	02:15	39.7	55.5	41.3	36.1
16/12/2023	02:30	39.1	53.8	41.2	36.3
16/12/2023	02:45	38.2	54.5	40.3	34.8
16/12/2023	03:00	39.0	57.1	41.5	33.5
16/12/2023	03:15	36.7	51.8	38.8	33.1
16/12/2023	03:30	38.9	56.3	40.6	35.0
16/12/2023	03:45	38.0	51.0	40.1	35.5
16/12/2023	04:00	36.7	47.2	38.3	34.8
16/12/2023	04:15	39.3	60.9	39.9	34.7
16/12/2023	04:30	42.9	62.9	45.4	35.9
16/12/2023	04:45	49.0	64.9	53.0	37.3
16/12/2023	05:00	49.0	68.9	52.1	39.4
16/12/2023	05:15	46.4	63.2	49.5	39.6
16/12/2023	05:30	54.7	69.8	58.5	44.1
16/12/2023	05:45	57.1	73.6	61.1	45.3
16/12/2023	06:00	59.9	76.3	63.7	48.6
16/12/2023	06:15	59.1	75.8	62.8	47.9
16/12/2023	06:30	61.1	79.0	64.7	49.3
16/12/2023	06:45	60.5	76.6	64.4	49.2
16/12/2023	07:00	63.6	79.4	67.4	50.7
16/12/2023	07:15	61.6	78.6	65.3	50.7
16/12/2023	07:30	58.8	76.3	62.2	48.5
16/12/2023	07:45	59.7	76.0	63.4	48.5
16/12/2023	08:00	58.4	76.8	61.8	47.5
16/12/2023	08:15	58.0	76.7	61.3	47.8
16/12/2023	08:30	54.0	70.2	57.3	45.3
16/12/2023	08:45	55.2	74.5	58.5	46.9
16/12/2023	09:00	52.5	72.3	55.0	45.3
16/12/2023	09:15	48.7	74.6	49.6	44.0

Date	Time	LAeq, T	LA90	LA10	LAmix
16/12/2023	09:30	50.0	72.7	49.1	44.9
16/12/2023	09:45	48.4	62.9	49.3	46.0
16/12/2023	10:00	48.6	60.1	49.9	47.1
16/12/2023	10:15	47.2	58.7	48.4	45.5
16/12/2023	10:30	46.6	56.9	48.0	44.7
16/12/2023	10:45	46.8	53.0	48.5	44.5
16/12/2023	11:00	48.2	59.9	49.2	46.4
16/12/2023	11:15	52.7	65.7	57.0	45.5
16/12/2023	11:30	59.6	68.5	62.9	48.5
16/12/2023	11:45	59.1	70.9	61.4	55.5
16/12/2023	12:00	58.6	74.7	61.2	50.4
16/12/2023	12:15	57.2	71.8	60.8	47.7
16/12/2023	12:30	56.8	75.2	60.5	47.4
16/12/2023	12:45	52.9	69.0	56.4	46.8
16/12/2023	13:00	53.0	66.6	54.4	47.6
16/12/2023	13:15	48.8	60.0	50.5	46.4
16/12/2023	13:30	47.4	60.6	48.8	45.7
16/12/2023	13:45	53.9	66.0	59.1	45.0
16/12/2023	14:00	53.0	67.3	58.3	45.2
16/12/2023	14:15	46.9	59.7	47.8	44.8
16/12/2023	14:30	45.3	60.6	46.6	43.5
16/12/2023	14:45	45.3	56.5	46.9	43.3
16/12/2023	15:00	45.6	58.5	47.0	43.6
16/12/2023	15:15	47.5	67.6	48.6	43.4
16/12/2023	15:30	45.6	64.0	46.5	42.8
16/12/2023	15:45	46.8	65.2	47.7	43.1
16/12/2023	16:00	45.5	64.7	46.4	42.7
16/12/2023	16:15	44.2	51.5	45.9	42.3
16/12/2023	16:30	44.0	56.4	45.2	42.5
16/12/2023	16:45	45.3	51.2	46.6	43.4
16/12/2023	17:00	45.3	63.0	46.8	43.2
16/12/2023	17:15	44.6	51.7	46.3	42.6
16/12/2023	17:30	45.5	59.2	47.0	43.4

Date	Time	LAeq, T	LA90	LA10	LAmix
16/12/2023	17:45	48.6	72.7	47.2	42.5
16/12/2023	18:00	44.8	50.3	46.5	42.7
16/12/2023	18:15	45.1	57.2	46.8	42.5
16/12/2023	18:30	44.6	53.2	46.4	42.3
16/12/2023	18:45	44.9	53.9	46.7	42.7
16/12/2023	19:00	44.8	60.0	46.3	42.3
16/12/2023	19:15	44.5	58.1	45.9	41.9
16/12/2023	19:30	46.1	62.0	47.7	42.9
16/12/2023	19:45	49.0	66.1	51.4	44.3
16/12/2023	20:00	48.2	67.4	50.0	42.3
16/12/2023	20:15	43.8	54.7	46.0	41.3
16/12/2023	20:30	46.0	63.4	48.8	39.9
16/12/2023	20:45	44.8	60.5	47.1	40.6
16/12/2023	21:00	48.8	68.9	52.0	41.2
16/12/2023	21:15	43.9	61.4	45.6	39.7
16/12/2023	21:30	48.2	66.0	51.1	40.4
16/12/2023	21:45	44.4	65.2	46.0	38.6
16/12/2023	22:00	41.2	51.0	43.2	38.3
16/12/2023	22:15	40.3	53.6	42.3	37.4
16/12/2023	22:30	42.0	58.9	43.8	39.2
16/12/2023	22:45	51.2	69.0	54.3	42.4
16/12/2023	23:00	57.8	75.0	60.6	45.6
16/12/2023	23:15	55.8	74.8	59.4	44.7
16/12/2023	23:30	49.3	65.8	52.2	41.5
16/12/2023	23:45	48.3	67.6	50.8	41.9
17/12/2023	00:00	48.7	68.5	51.0	41.7
17/12/2023	00:15	48.0	71.4	49.0	40.8
17/12/2023	00:30	46.0	64.7	48.4	37.5
17/12/2023	00:45	46.8	69.5	46.9	38.9
17/12/2023	01:00	43.4	61.5	45.6	37.6
17/12/2023	01:15	41.8	56.8	44.5	37.6
17/12/2023	01:30	39.5	51.9	41.4	37.2
17/12/2023	01:45	41.4	61.6	43.4	36.5

Date	Time	LAeq, T	LA90	LA10	LAmx
17/12/2023	02:00	48.9	71.8	49.1	37.3
17/12/2023	02:15	48.6	66.6	51.1	37.3
17/12/2023	02:30	44.4	64.8	46.2	37.5
17/12/2023	02:45	51.1	70.4	54.5	40.4
17/12/2023	03:00	48.0	64.8	51.4	38.8
17/12/2023	03:15	51.4	75.4	52.0	40.4
17/12/2023	03:30	55.3	73.3	58.8	41.3
17/12/2023	03:45	59.8	77.2	63.6	46.7
17/12/2023	04:00	56.1	74.7	59.9	42.1
17/12/2023	04:15	54.1	73.3	57.2	42.8
17/12/2023	04:30	55.4	72.9	59.0	43.9
17/12/2023	04:45	60.9	79.3	64.2	48.6
17/12/2023	05:00	58.9	74.6	62.6	46.9
17/12/2023	05:15	60.4	78.7	64.2	47.6
17/12/2023	05:30	58.8	75.8	62.5	46.8
17/12/2023	05:45	57.5	76.9	60.4	43.8
17/12/2023	06:00	58.4	77.7	62.0	44.9
17/12/2023	06:15	58.1	74.7	61.8	47.6
17/12/2023	06:30	57.5	74.6	61.0	46.1
17/12/2023	06:45	64.1	80.2	68.3	51.1
17/12/2023	07:00	63.1	79.5	66.9	51.2
17/12/2023	07:15	61.1	77.5	65.5	48.3
17/12/2023	07:30	60.1	77.0	64.0	48.2
17/12/2023	07:45	62.1	80.1	65.7	48.8
17/12/2023	08:00	61.1	80.2	64.3	48.5
17/12/2023	08:15	57.9	79.3	60.9	47.3
17/12/2023	08:30	57.4	76.8	60.1	46.6
17/12/2023	08:45	53.8	71.7	57.1	46.2
17/12/2023	09:00	56.2	73.9	59.8	47.8
17/12/2023	09:15	55.6	74.1	58.9	47.2
17/12/2023	09:30	58.0	75.3	61.0	48.4
17/12/2023	09:45	62.4	82.5	65.1	50.5
17/12/2023	10:00	61.1	76.2	64.7	51.8

Date	Time	LAeq, T	LA90	LA10	LAmix
17/12/2023	10:15	63.3	79.6	66.9	52.5
17/12/2023	10:30	65.2	83.3	69.1	54.5
17/12/2023	10:45	66.7	82.6	70.8	53.9
17/12/2023	11:00	66.3	85.6	69.5	55.2
17/12/2023	11:15	66.2	86.8	69.9	54.3
17/12/2023	11:30	65.2	80.8	69.1	54.3
17/12/2023	11:45	61.7	78.1	65.2	53.7
17/12/2023	12:00	58.1	74.3	61.6	49.6
17/12/2023	12:15	62.5	81.1	66.5	51.1
17/12/2023	12:30	62.3	80.6	65.5	51.7
17/12/2023	12:45	59.6	76.0	62.5	51.1
17/12/2023	13:00	58.5	77.3	61.5	49.2
17/12/2023	13:15	55.3	69.7	59.0	47.6
17/12/2023	13:30	53.8	71.9	56.6	47.9
17/12/2023	13:45	60.6	77.6	64.2	49.3
17/12/2023	14:00	59.9	78.0	63.1	49.0
17/12/2023	14:15	62.2	81.4	65.8	50.0
17/12/2023	14:30	59.8	76.0	63.5	49.6
17/12/2023	14:45	61.6	78.7	65.6	51.1
17/12/2023	15:00	63.1	79.1	67.1	51.0
17/12/2023	15:15	60.5	78.6	64.1	49.3
17/12/2023	15:30	59.8	76.8	63.3	49.0
17/12/2023	15:45	53.8	74.3	56.1	47.1
17/12/2023	16:00	53.1	67.1	56.7	46.9
17/12/2023	16:15	54.9	71.1	58.3	47.0
17/12/2023	16:30	54.7	73.9	57.9	46.7
17/12/2023	16:45	57.5	75.5	60.7	48.0
17/12/2023	17:00	56.4	76.7	59.1	46.7
17/12/2023	17:15	56.2	74.7	59.6	47.7
17/12/2023	17:30	55.5	74.2	59.1	46.4
17/12/2023	17:45	52.5	69.8	55.1	44.4
17/12/2023	18:00	53.5	71.3	56.4	45.2
17/12/2023	18:15	51.4	69.9	53.6	43.5

Date	Time	LAeq, T	LA90	LA10	LAmx
17/12/2023	18:30	52.6	70.2	55.9	45.3
17/12/2023	18:45	52.5	68.9	55.9	44.2
17/12/2023	19:00	55.0	75.2	58.9	45.0
17/12/2023	19:15	55.5	73.4	59.1	45.7
17/12/2023	19:30	53.2	72.4	56.6	44.4
17/12/2023	19:45	53.8	70.5	57.2	44.6
17/12/2023	20:00	53.8	75.0	56.9	44.5
17/12/2023	20:15	54.8	73.6	58.5	45.2
17/12/2023	20:30	49.9	66.9	53.2	42.3
17/12/2023	20:45	53.4	74.1	56.7	43.8
17/12/2023	21:00	57.3	72.8	61.2	46.0
17/12/2023	21:15	54.8	74.5	58.4	44.5
17/12/2023	21:30	53.9	69.2	57.9	43.7
17/12/2023	21:45	50.1	66.5	53.5	41.7
17/12/2023	22:00	57.4	73.3	61.4	43.6
17/12/2023	22:15	59.3	76.1	62.7	47.6
17/12/2023	22:30	60.4	76.6	63.9	48.4
17/12/2023	22:45	60.2	76.6	64.2	48.0
17/12/2023	23:00	56.4	72.7	60.2	44.8
17/12/2023	23:15	59.8	75.6	63.6	45.9
17/12/2023	23:30	59.7	76.1	63.5	47.9
17/12/2023	23:45	58.6	75.2	62.2	47.5
18/12/2023	00:00	58.3	73.6	62.0	45.6
18/12/2023	00:15	58.1	75.7	61.5	47.5
18/12/2023	00:30	60.6	75.4	64.3	48.5
18/12/2023	00:45	58.8	79.0	62.4	47.4
18/12/2023	01:00	56.5	71.9	60.5	45.8
18/12/2023	01:15	59.7	77.3	63.3	46.5
18/12/2023	01:30	56.6	76.9	59.3	42.6
18/12/2023	01:45	54.0	73.8	57.7	40.2
18/12/2023	02:00	56.4	75.0	60.1	42.9
18/12/2023	02:15	53.4	70.2	57.3	41.9
18/12/2023	02:30	56.6	73.4	61.0	42.5

Date	Time	LAeq, T	LA90	LA10	LAmix
18/12/2023	02:45	58.9	79.3	61.8	45.6
18/12/2023	03:00	57.3	75.7	61.1	45.4
18/12/2023	03:15	58.8	76.7	62.6	46.3
18/12/2023	03:30	58.9	73.0	62.6	47.0
18/12/2023	03:45	59.9	76.6	63.1	46.9
18/12/2023	04:00	60.8	77.1	64.6	48.1
18/12/2023	04:15	60.5	77.9	64.2	48.2
18/12/2023	04:30	60.2	79.4	62.8	46.1
18/12/2023	04:45	61.0	81.1	64.8	48.7
18/12/2023	05:00	59.6	76.3	63.2	48.4
18/12/2023	05:15	58.4	77.6	61.8	48.9
18/12/2023	05:30	57.5	75.0	61.2	45.4
18/12/2023	05:45	55.9	71.3	59.9	44.1
18/12/2023	06:00	52.9	69.6	56.3	42.7
18/12/2023	06:15	51.5	70.3	55.0	42.3
18/12/2023	06:30	51.6	70.8	55.3	42.5
18/12/2023	06:45	47.2	63.6	49.6	42.6
18/12/2023	07:00	50.6	66.1	53.8	44.5
18/12/2023	07:15	52.5	72.0	55.4	45.9
18/12/2023	07:30	51.2	68.1	53.9	46.1
18/12/2023	07:45	50.7	66.3	53.0	46.4
18/12/2023	08:00	51.6	66.9	54.5	47.2
18/12/2023	08:15	49.4	64.5	51.5	46.3
18/12/2023	08:30	50.9	65.6	53.0	47.0
18/12/2023	08:45	49.8	64.6	52.0	46.6
18/12/2023	09:00	47.2	59.1	48.5	45.5
18/12/2023	09:15	46.6	59.8	47.8	44.5
18/12/2023	09:30	45.9	56.7	47.5	44.0
18/12/2023	09:45	46.1	57.3	47.8	43.7
18/12/2023	10:00	46.0	67.4	47.0	43.2
18/12/2023	10:15	45.5	64.0	46.9	43.0
18/12/2023	10:30	45.9	54.8	47.4	43.9
18/12/2023	10:45	46.5	60.3	48.0	43.9

Date	Time	LAeq, T	LA90	LA10	LAmx
18/12/2023	11:00	46.6	60.6	48.3	44.0
18/12/2023	11:15	47.7	65.4	49.4	44.7
18/12/2023	11:30	47.9	64.4	49.5	45.2
18/12/2023	11:45	49.2	65.2	50.7	45.7
18/12/2023	12:00	49.9	81.9	48.6	45.0
18/12/2023	12:15	46.7	61.2	48.0	44.8
18/12/2023	12:30	49.1	66.1	51.7	45.1
18/12/2023	12:45	47.2	65.0	49.0	44.5
18/12/2023	13:00	46.9	62.2	48.2	44.1
18/12/2023	13:15	45.8	55.9	47.2	44.0
18/12/2023	13:30	45.8	60.1	47.2	43.6
18/12/2023	13:45	47.9	67.3	48.0	45.1
18/12/2023	14:00	47.5	62.7	49.6	44.4
18/12/2023	14:15	45.7	56.2	46.9	44.0
18/12/2023	14:30	46.0	53.8	47.4	44.5
18/12/2023	14:45	46.7	53.4	47.8	45.3
18/12/2023	15:00	46.6	65.3	47.8	44.7
18/12/2023	15:15	46.7	62.3	47.7	44.6
18/12/2023	15:30	45.9	58.7	47.0	44.1
18/12/2023	15:45	46.6	60.7	48.2	44.4
18/12/2023	16:00	46.2	60.2	47.5	44.3
18/12/2023	16:15	45.8	55.9	47.2	44.1
18/12/2023	16:30	45.1	57.4	46.2	43.3
18/12/2023	16:45	44.9	51.2	46.0	43.6
18/12/2023	17:00	45.1	52.7	46.1	44.0
18/12/2023	17:15	45.8	54.7	47.0	44.5
18/12/2023	17:30	46.1	56.8	47.2	44.9
18/12/2023	17:45	45.7	60.8	46.7	44.2
18/12/2023	18:00	45.2	54.5	46.2	44.1
18/12/2023	18:15	44.6	64.3	45.7	43.0
18/12/2023	18:30	43.9	57.1	44.9	42.4
18/12/2023	18:45	44.0	56.2	45.2	42.4
18/12/2023	19:00	43.7	54.4	44.8	42.1

Date	Time	LAeq, T	LA90	LA10	LAmix
18/12/2023	19:15	44.2	61.8	45.2	41.8
18/12/2023	19:30	44.6	57.7	45.7	42.9
18/12/2023	19:45	43.6	60.2	44.6	42.0
18/12/2023	20:00	44.1	54.8	45.1	42.4
18/12/2023	20:15	43.6	54.2	44.8	42.0
18/12/2023	20:30	43.5	55.2	44.7	41.9
18/12/2023	20:45	43.5	56.8	44.8	41.4
18/12/2023	21:00	43.8	55.4	45.1	41.8
18/12/2023	21:15	43.1	52.7	44.4	41.5
18/12/2023	21:30	42.8	54.9	44.1	40.9
18/12/2023	21:45	41.5	49.5	43.2	39.7
18/12/2023	22:00	41.0	47.8	42.8	38.7
18/12/2023	22:15	41.6	48.1	43.1	39.5
18/12/2023	22:30	40.5	45.6	41.8	38.9
18/12/2023	22:45	40.4	46.9	42.2	38.6
18/12/2023	23:00	38.8	46.9	40.5	36.2
18/12/2023	23:15	39.5	47.6	41.0	37.3
18/12/2023	23:30	38.2	44.6	40.0	36.0
18/12/2023	23:45	36.9	45.6	38.8	34.6
19/12/2023	00:00	37.2	45.6	39.1	34.6
19/12/2023	00:15	37.5	47.6	39.2	35.4
19/12/2023	00:30	39.0	57.9	40.2	35.8
19/12/2023	00:45	38.4	54.0	40.1	35.2
19/12/2023	01:00	38.2	54.4	39.7	34.5
19/12/2023	01:15	36.9	54.7	38.7	33.8
19/12/2023	01:30	36.1	55.7	38.0	33.0
19/12/2023	01:45	35.0	48.3	36.8	32.4
19/12/2023	02:00	36.0	45.1	37.9	33.4
19/12/2023	02:15	35.8	53.3	36.7	32.8
19/12/2023	02:30	35.5	45.5	37.1	33.1
19/12/2023	02:45	37.0	54.0	38.9	33.6
19/12/2023	03:00	35.4	47.1	37.3	32.5
19/12/2023	03:15	36.0	48.3	38.2	33.0

Date	Time	LAeq, T	LA90	LA10	LAmx
19/12/2023	03:30	34.3	45.7	35.7	32.4
19/12/2023	03:45	35.7	45.5	37.0	34.1
19/12/2023	04:00	37.4	50.2	39.1	35.0
19/12/2023	04:15	38.0	47.1	39.8	35.9
19/12/2023	04:30	40.5	55.2	42.9	36.8
19/12/2023	04:45	39.8	51.1	41.4	37.3
19/12/2023	05:00	39.8	54.9	41.6	37.6
19/12/2023	05:15	43.6	59.5	45.5	39.6
19/12/2023	05:30	43.8	58.8	45.6	41.0
19/12/2023	05:45	43.5	56.1	45.1	41.2
19/12/2023	06:00	42.6	54.1	44.1	40.9
19/12/2023	06:15	44.6	53.4	46.1	42.7
19/12/2023	06:30	46.3	53.8	47.4	45.1
19/12/2023	06:45	47.5	57.6	48.5	46.2
19/12/2023	07:00	48.1	60.8	48.9	45.9
19/12/2023	07:15	47.9	62.7	48.9	46.6
19/12/2023	07:30	48.2	59.1	49.0	47.1
19/12/2023	07:45	48.7	58.5	49.7	47.6
19/12/2023	08:00	49.3	60.0	50.2	48.1
19/12/2023	08:15	50.2	62.5	51.2	48.7
19/12/2023	08:30	50.8	66.8	51.7	49.5
19/12/2023	08:45	51.4	65.7	52.7	49.5
19/12/2023	09:00	50.8	70.5	51.8	49.2
19/12/2023	09:15	51.5	67.1	53.0	49.3
19/12/2023	09:30	53.9	72.0	53.1	49.2
19/12/2023	09:45	52.6	72.5	53.9	48.8
19/12/2023	10:00	51.0	69.6	52.7	48.3
19/12/2023	10:15	52.0	75.1	52.8	48.1
19/12/2023	10:30	58.5	75.9	61.1	49.3
19/12/2023	10:45	77.1	108.9	61.2	49.4
19/12/2023	11:00	55.2	72.3	57.9	49.4
19/12/2023	11:15	55.0	74.1	58.1	49.1
19/12/2023	11:30	60.4	80.8	62.5	51.7

Date	Time	LAeq, T	LA90	LA10	LAmx
19/12/2023	11:45	58.6	77.5	61.2	50.5
19/12/2023	12:00	53.4	68.9	55.4	49.9
19/12/2023	12:15	55.2	72.7	57.8	50.4
19/12/2023	12:30	55.6	73.6	57.4	50.7
19/12/2023	12:45	55.4	70.6	57.9	50.9
19/12/2023	13:00	55.7	73.4	58.3	50.1
19/12/2023	13:15	55.3	72.2	57.8	50.7
19/12/2023	13:30	63.1	89.8	60.6	50.4
19/12/2023	13:45	53.4	67.5	56.1	49.2
19/12/2023	14:00	52.7	69.8	54.6	48.5
19/12/2023	14:15	53.3	70.7	55.5	49.3
19/12/2023	14:30	54.6	73.7	57.1	50.0
19/12/2023	14:45	53.4	65.7	56.2	49.5
19/12/2023	15:00	55.3	71.0	58.3	50.0
19/12/2023	15:15	56.7	73.4	59.4	49.4
19/12/2023	15:30	57.0	80.0	59.3	49.0
19/12/2023	15:45	54.7	69.1	57.5	50.2
19/12/2023	16:00	55.2	75.1	57.6	49.2
19/12/2023	16:15	53.6	72.5	55.4	48.7
19/12/2023	16:30	55.3	72.0	58.3	50.3
19/12/2023	16:45	54.6	73.6	57.3	49.6
19/12/2023	17:00	57.2	76.4	59.1	50.4
19/12/2023	17:15	58.3	81.0	60.1	51.7
19/12/2023	17:30	59.3	78.3	62.3	52.4
19/12/2023	17:45	58.6	78.7	61.3	52.3
19/12/2023	18:00	60.3	77.1	63.3	53.2
19/12/2023	18:15	58.5	77.7	61.1	52.0
19/12/2023	18:30	57.4	75.7	60.6	51.6
19/12/2023	18:45	59.9	79.5	62.6	52.2
19/12/2023	19:00	58.2	77.1	60.6	50.9
19/12/2023	19:15	61.2	83.7	62.7	51.4
19/12/2023	19:30	59.8	78.2	62.8	51.9
19/12/2023	19:45	57.2	73.3	60.3	49.9

Date	Time	LAeq, T	LA90	LA10	LAmx
19/12/2023	20:00	59.3	78.6	62.2	50.7
19/12/2023	20:15	59.6	77.7	62.8	51.3
19/12/2023	20:30	61.1	81.4	63.3	51.0
19/12/2023	20:45	61.9	80.9	65.1	52.8
19/12/2023	21:00	60.7	79.6	64.2	51.6
19/12/2023	21:15	60.8	79.5	64.5	52.0
19/12/2023	21:30	59.2	78.3	61.6	50.9
19/12/2023	21:45	56.6	75.5	59.4	48.9
19/12/2023	22:00	61.7	78.9	65.5	49.5
19/12/2023	22:15	60.0	76.6	63.3	50.6
19/12/2023	22:30	62.1	78.9	64.7	52.3
19/12/2023	22:45	60.8	79.9	63.9	51.7
19/12/2023	23:00	61.3	82.2	64.1	52.8
19/12/2023	23:15	60.6	79.7	63.5	51.5
19/12/2023	23:30	62.1	76.8	65.7	52.5
19/12/2023	23:45	59.6	75.8	63.4	50.0
20/12/2023	00:00	60.5	80.6	62.9	50.2
20/12/2023	00:15	63.4	82.6	66.7	49.9
20/12/2023	00:30	59.7	79.3	63.0	50.1
20/12/2023	00:45	60.9	81.6	64.1	50.9
20/12/2023	01:00	65.3	84.3	68.6	55.4
20/12/2023	01:15	62.8	80.1	65.9	52.4
20/12/2023	01:30	65.1	82.7	68.5	54.4
20/12/2023	01:45	62.7	80.9	65.8	53.7
20/12/2023	02:00	62.9	79.3	66.5	54.5
20/12/2023	02:15	60.8	77.8	64.1	52.5
20/12/2023	02:30	60.3	80.5	62.7	51.7
20/12/2023	02:45	62.0	81.1	64.7	53.3
20/12/2023	03:00	61.6	80.7	64.7	52.6
20/12/2023	03:15	57.3	73.5	60.5	49.4
20/12/2023	03:30	56.3	77.4	59.2	48.1
20/12/2023	03:45	61.3	85.1	64.2	51.6
20/12/2023	04:00	56.3	76.5	59.4	48.1

Date	Time	LAeq, T	LA90	LA10	LAmx
20/12/2023	04:15	58.6	74.5	62.3	48.9
20/12/2023	04:30	56.5	73.0	59.8	49.5
20/12/2023	04:45	54.3	71.4	56.9	47.5
20/12/2023	05:00	59.8	77.2	63.4	51.0
20/12/2023	05:15	59.2	78.9	61.8	50.0
20/12/2023	05:30	56.2	73.2	58.6	49.6
20/12/2023	05:45	56.9	78.0	58.5	49.2
20/12/2023	06:00	58.8	79.5	60.7	50.5
20/12/2023	06:15	56.0	70.5	59.2	49.7
20/12/2023	06:30	55.8	71.1	58.8	50.5
20/12/2023	06:45	61.8	81.4	64.3	52.9
20/12/2023	07:00	61.3	80.5	64.4	52.5
20/12/2023	07:15	55.9	73.5	58.1	49.9
20/12/2023	07:30	59.1	78.0	62.1	51.5
20/12/2023	07:45	60.1	81.0	62.5	51.8
20/12/2023	08:00	62.2	82.9	65.1	53.7
20/12/2023	08:15	63.1	79.2	66.0	55.1
20/12/2023	08:30	65.4	81.8	68.8	55.4
20/12/2023	08:45	65.0	81.7	68.7	55.7
20/12/2023	09:00	64.7	81.2	68.8	55.0
20/12/2023	09:15	64.8	81.9	68.1	55.6
20/12/2023	09:30	59.2	74.0	62.3	52.7
20/12/2023	09:45	61.2	78.6	64.1	52.3
20/12/2023	10:00	60.8	78.7	63.9	52.8
20/12/2023	10:15	59.4	76.8	62.6	52.1
20/12/2023	10:30	62.0	79.7	64.7	53.1
20/12/2023	10:45	61.6	81.2	64.2	53.0
20/12/2023	11:00	62.6	77.7	66.0	54.4
20/12/2023	11:15	65.0	82.1	68.4	55.2
20/12/2023	11:30	63.8	78.5	67.7	54.4
20/12/2023	11:45	60.5	81.7	63.4	53.2
20/12/2023	12:00	59.7	79.8	62.3	51.3
20/12/2023	12:15	61.2	82.8	63.4	52.9

Date	Time	LAeq, T	LA90	LA10	LAmix
20/12/2023	12:30	59.6	75.9	62.7	53.0
20/12/2023	12:45	61.8	78.7	64.9	53.9
20/12/2023	13:00	64.4	82.0	67.9	54.6
20/12/2023	13:15	63.2	82.6	66.3	55.5
20/12/2023	13:30	65.4	81.1	68.9	56.4
20/12/2023	13:45	68.3	90.1	71.6	58.1
20/12/2023	14:00	66.9	85.1	70.4	57.4
20/12/2023	14:15	65.3	81.5	68.5	57.3
20/12/2023	14:30	67.9	85.4	71.1	57.2
20/12/2023	14:45	64.7	82.3	67.9	55.3
20/12/2023	15:00	60.5	75.8	63.3	54.8
20/12/2023	15:15	62.7	82.9	65.9	54.4
20/12/2023	15:30	62.9	79.8	66.0	55.4
20/12/2023	15:45	62.1	81.0	64.8	54.7
20/12/2023	16:00	60.1	79.1	62.4	53.7
20/12/2023	16:15	60.6	76.2	63.6	52.6
20/12/2023	16:30	62.1	82.8	64.9	53.0
20/12/2023	16:45	61.0	77.7	64.1	52.6
20/12/2023	17:00	59.1	77.9	62.2	52.3
20/12/2023	17:15	62.3	82.7	65.2	53.7
20/12/2023	17:30	62.1	79.2	64.7	54.3
20/12/2023	17:45	60.6	78.1	63.3	53.8
20/12/2023	18:00	61.2	77.3	64.5	53.7
20/12/2023	18:15	63.3	83.9	65.2	56.0
20/12/2023	18:30	64.6	81.5	68.1	56.8
20/12/2023	18:45	65.2	82.0	68.1	56.9
20/12/2023	19:00	64.3	79.9	67.7	56.6
20/12/2023	19:15	63.8	80.9	66.4	56.9
20/12/2023	19:30	65.0	83.7	68.1	56.4
20/12/2023	19:45	62.8	82.2	64.9	55.7
20/12/2023	20:00	65.6	84.9	68.7	57.1
20/12/2023	20:15	64.0	79.1	67.0	56.2
20/12/2023	20:30	62.6	81.0	65.1	54.9

Date	Time	LAeq, T	LA90	LA10	LAmx
20/12/2023	20:45	62.0	79.1	64.8	54.7
20/12/2023	21:00	60.1	77.7	62.8	52.4
20/12/2023	21:15	63.2	78.8	66.5	55.3
20/12/2023	21:30	62.6	79.4	65.4	55.7
20/12/2023	21:45	66.0	81.4	69.6	57.4
20/12/2023	22:00	62.3	77.3	65.4	55.9
20/12/2023	22:15	63.0	80.4	65.6	54.8
20/12/2023	22:30	61.4	78.9	63.8	52.7
20/12/2023	22:45	60.2	76.0	63.0	52.7
20/12/2023	23:00	61.5	81.7	64.6	53.6
20/12/2023	23:15	64.4	81.4	67.7	56.5
20/12/2023	23:30	63.9	81.1	66.3	54.8
20/12/2023	23:45	63.2	79.5	66.3	54.7
21/12/2023	00:00	62.8	78.0	66.0	54.8
21/12/2023	00:15	65.2	86.3	68.1	56.4
21/12/2023	00:30	63.4	82.1	66.0	56.2
21/12/2023	00:45	65.6	81.8	69.1	56.5
21/12/2023	01:00	66.5	87.0	69.2	55.8
21/12/2023	01:15	64.9	80.0	68.4	56.7
21/12/2023	01:30	66.7	83.7	70.1	56.8
21/12/2023	01:45	64.0	81.4	67.3	55.8
21/12/2023	02:00	66.3	85.8	69.6	55.6
21/12/2023	02:15	67.0	82.6	70.7	58.4
21/12/2023	02:30	69.9	87.4	73.4	59.1
21/12/2023	02:45	66.5	83.5	70.1	58.7
21/12/2023	03:00	67.8	85.8	71.1	58.9
21/12/2023	03:15	64.0	79.5	67.4	55.7
21/12/2023	03:30	65.6	83.3	68.8	56.5
21/12/2023	03:45	70.2	86.3	73.4	60.3
21/12/2023	04:00	67.1	86.5	70.3	59.0
21/12/2023	04:15	68.3	87.6	71.7	59.8
21/12/2023	04:30	67.0	83.5	70.1	59.3
21/12/2023	04:45	67.1	83.6	70.3	59.1

Date	Time	LAeq, T	LA90	LA10	LAmx
21/12/2023	05:00	66.0	79.4	69.7	56.6

Annex 2 Survey data – O&M Base

Table 28 DL1 & DL2: Measured noise levels, free-field, dB

Monitoring location	Date	Period	LAeq, T	LA90	LA10	LAmx
DL1	06/09/2023	11:48 - 12:48	53	49	55	79
	06/09/2023	14:02 - 15:02	55	51	57	80
	07/09/2023	00:36 - 01:06	49	42	54	77
	07/09/2023	01:47 - 02:17	39	37	40	70
DL2	06/09/2023	12:56 - 13:56	60	46	64	79
	06/09/2023	15:09 - 16:09	61	48	65	83
	07/09/2023	00:00 - 00:30	56	32	59	76
	07/09/2023	01:11 - 01:41	48	31	44	74



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