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Introduction

- 11.1 Noise and Vibration Consultants were commissioned by Harrington Concrete & Quarries to assess the potential noise and vibrations impacts of a proposed development at their quarry at Ardgaheen, Claregalway, Co. Galway. The proposed development includes laterally extending the extraction area without increasing the intensity of operation.
- 11.2 The existing quarry consists of a manufacturing area where all blasted material has historically been processed at a fixed primary, secondary, tertiary crushing and screening plants close to or on surface together with a concrete batching plant, a block-making plant and an asphalt plant all located on surface. The aforementioned facilities have been authorised by various planning consents.
- 11.3 The assessment is predominately made using measured levels during two survey periods and predictions made using data from plant measured on site.

Statement of Authority

- 11.4 This chapter of the EIAR has been prepared by Mr. Brendan O'Reilly of Noise and Vibration Consultants Ltd. Brendan has a Master's degree in noise and vibration from Liverpool University and has over 40 years' experience in noise and vibration control (and many years' experience in preparation of noise impact statements having dealt with all noise and vibration aspects of Europe's largest Zn/Pb for over 35 years). Brendan has been a member of a number of professional organisations over many years including the SFA, ISEE and IMQS. Brendan was a co-author and project partner (as a senior noise consultant) in 'Environmental Quality Objectives Noise in Quiet Areas' administered by the Environmental Protection Agency on behalf of the Department of the Environment, Heritage and Local Government. Brendan has considerable experience in the assessment of noise impact and has compiled EIA studies ranging from quarries, mines, tailings ponds, retail development, wastewater treatment plants, housing developments and wind farms.

Description of Proposed Activity

- 11.5 The application consists of a total area of c.12 Ha which includes 4.35 Ha of the existing quarry and 6.1 Ha of a greenfield area which is an extension of the existing footprint. The proposal involves extraction area down to 4mOD which is above the lowest level of the existing quarry floor.
- 11.6 The production levels of quarry activities will remain consistent. However, the fixed near-surface processing, including primary and secondary crushing and screening, will be relocated to the quarry floor. The tertiary crushing and screening processes will continue at their current near-surface location. This proposal is designed to maintain production intensity while extending the quarry's operational lifespan.

Noise Monitoring Surveys of Quarry Operation

- 11.7 Three noise monitoring surveys were previously undertaken at the quarry as part of a planning application previously submitted to Galway Co. Co. (GCC Ref P18/1149). The first noise monitoring survey was undertaken on 24th April 2018 and is the basis for assessing the impact of the proposed development while a second noise monitoring survey was carried out continuously during a period between 30th October and 8th November 2018. This second noise survey was carried out at similar locations to the first monitoring event in response to a further information request by Galway Co. Co. to Planning Application P18/1149. Recently a third noise monitoring survey was undertaken from 2nd to 3rd April 2025. The three monitoring surveys are discussed in this chapter, however as the 2025 survey was carried out at normal operational activity (approx. 50%

activity) the survey was not considered useful for the purposes of assessing noise levels associated with the proposed development. This aspect is discussed further in sections 11.37 to 11.45 incl.

11.8 The results of all the 2018 surveys remain relevant and were used for predicting the noise levels at receptors as those survey were carried out when operation activity was at a high level and audible at all locations. Additionally, the consistency in monitoring locations and methodology ensures that the data is robust and reflective of the quarry's typical noise emissions, thereby aiding in assessing the potential maximum impact of the current proposal.

Noise Monitoring Methodology

11.9 The following instruments were used;

Four Larson Davis LxT Sound Expert Precision Integrating Sound Level Analyser/Data logger and 1/3 octave band analysing facility.

- One Larson Davis 812 Precision Integrating Sound Level Analyser/Data logger. The Larson Davis 812 was replaced by a Larson Davis LxT for the 2025 survey.
- Wind Shields Type: Double Skinned Wind Screens.
- Calibration Type: Larson Davis Precision Acoustic Calibrator Model CAL250 and CAL 200.

11.10 All instruments conform to BS EN 61672-1 and BS EN 60942, Class 1 and ISO Type 1. (**Appendix 11.1**: Calibration certificates).

11.11 Five noise monitors were used during the noise surveys with four monitors set up to run continuously at receptors N1 to N4 incl. with the fifth monitor used to monitor and assess the active noise sources in the quarry during the surveys. The fifth monitor was also used to provide for a short period noise assessment at Location N5.

Weather for 24th April 2018 Noise Survey

11.12 Care was taken during the first survey to ensure that weather conditions were good for such a survey. Noise monitoring during the first noise survey was in dry condition with a wind speed of 1 to 3m/s in a light northerly wind direction.

Measurement Parameters

11.13 L_{Aeq} is the A-weighted equivalent continuous sound level measured during the sample period. It is an average of the fluctuating noise level over the sample period. It can also be described as a notional steady level that has the same sound energy as the real fluctuating noise over a specified time interval- it is a type of average represented by a single number over a specified time interval.

11.14 L_{AFMax} is the maximum A-weighted sound level during a stated time period (Fast Time weighting).

- L_{A10} is the A-weighted sound level, which is exceeded for 10% of the sample period.
- L_{A50} is the A-weighted sound level, which is exceeded for 50% of the sample period
- L_{A90} is the A-weighted sound level, which is exceeded for 90% of the sample period and is defined as the background noise level within BS 4142.
- L_{A5} is the A-weighted sound level, which is exceeded for 5% of the sample period.

Measurement Procedure

11.15 Noise monitors were set up to run continuously and concurrently at four of the nearest receptor locations around the quarry (N1 to N4) with instruments set on 30- minute intervals and with microphones at 1.5m above ground level. All the environmental noise analysers had data logging

facilities set on real-time, the logged data was later downloaded via a personal computer using software. All noise monitors were calibrated before and after the survey and the maximum drift of calibration was 0.04dB. All monitors were within calibration certification times (Appendix 11.1).

Existing Quarry Operation during Noise Survey on 24th April 2018

11.16 **Plate 1** shows the monitoring /prediction locations denoted N1 to N5 and zones of activity numbered 1 to 6 (referred to as zones 1 to 6 in **Table 11.3**). Zones 1 to 5 denote the centre of activity of the quarry operation during the noise survey. Zone 5 represented the centre of activity for the crushing and screening fixed plant located close to surface. Zone 6 denotes the location of the extraction process close to the quarry face during the survey.

Quarry Operations during Noise Survey on 24th April 2018

11.17 The plant shown in **Table 11.1** hrs was run continuously on 24th April between 13.20 and 16.15 hrs and is shown with noise levels of individual activity when operating. The activities denoted in Zones 2 to 5 were operating continuously between 13.20 and 16.15 hrs. The three crushers /screeners are in series and represented within Zone 5 in Plate 11.1. During the monitoring period road trucks entered and left the site at low speed giving a negligible contribution to the overall noise environment. The site is a large area noise source with the noise emissions off site influenced by the nearest zones of activity. The noise levels at the boundary receptors will not be significantly affected by wind direction within 300m of the nearest activity. **Table 11.1** gives a list of activity / plant which normally operate in the quarry during maximum production.

Plate 0.1: Noise Monitoring Locations & Main Noise Sources Denoted by Centre of Activity for Zones 1-7 denoted as numbers 1 to 7.



Note: Zones numbered 7 relates to the proposed development

Table 11-1: Noise Sources & Noise Levels of Individual Plant in Operation on 24th April 2018

| Noise Source | Noise level @ 10m Leq dBA | Comments |
|---|------------------------------|---|
| Batching Plant | 79 | Ready-mix truck being loaded |
| Asphalt Plant with 16.6Kw motors max. cap. @ 250tonnes/hr | 74.5 | New plant with main noise sources enclosed and motors within 1.5m of ground |
| Primary Crusher/Screeners #1 | 86 | Below surface level but conveyors and screeners visible on surface |
| Secondary crusher/Screeners #2 | 85.5 | Below surface level but conveyors and screeners visible on surface |
| Tertiary crusher/Screeners #3 | 85 | Below surface level but conveyors and screeners visible on surface |
| McCloskey tracked screener | 79.5 | Above ground level beside bins-portable plant |
| Volvo front-end loader-8 tonne | 82.5 | Pulling load up ramp |
| Cat 980 front end loader-10 tonne | 83 | Up ramp filling bins |
| Komatsu HD605-60 tonne | 88 | Travelling up ramp |

11.18 Noise sources from plant on-site which was not operational on 24th April'18 is given in Table 11.3.

Table 11-2: Noise sources from plant on-site which was not operational on 24th April'18

| Noise Source | Noise level @ 10m Leq dBA | Comments |
|---|------------------------------|---|
| Tracked drill rig for shot hole drilling + | 85 | A 3m high barrier provides 10dB attenuation when operating on surface-top bench |
| Portable Crusher / screener | 85 | 20dB + barrier attenuation |
| Aveling Barford Rd 55 + -55 tonne dump truck | 89 | Operates when quarry is at full operating capacity feeding the #1 crusher at quarry floor with 20dB + barrier attenuation |

| | | |
|---------------------|----|--|
| Block making plant* | 86 | Operates on surface when demand requires |
| Forklift grab* | 84 | Operates on surface and used to move bales of block to nearby storage area for loading /delivery |

+ Taken from BS 5228-1:2009. * Taken from own database

Results of Noise Survey on 24th April 2018

11.19 A summary of the noise levels recorded are given in **Table 11.3**. At each monitoring location there was noise contribution from non-quarry sources. These sources ranged from road traffic near and far, local farming activity and periods of very heavy rainfall on the morning of 8th September. Attendance at each noise monitoring location for periods allowed for interpretation to appropriate the noise levels generated by the quarry activity. The L90 value closely correlates the noise levels from the quarry operation. **Table 11.3** also shows the comparison between the periods of quarry activity and when there was no quarry activity (see complete data-set in **Appendix 11.2: Noise data April 2018**).

Table 11-3: Recorded mean noise levels taken at 30 minute intervals on 24th April'18

| Location id | Period | LAeq dBA | LA50 dBA | LA90 dBA | Comments |
|-------------|-----------------|----------|----------|----------|---------------------|
| N1 | 13.30-16.00 hrs | 49.3 | 48.7 | 46.0 | Quarry in operation |
| | 16.30-18.00 hrs | 47.0 | 45.8 | 42.1 | Quarry closed down |
| N2 | 13.30-16.00 hrs | 49.7 | 47.8 | 44.4 | Quarry in operation |
| | 16.30-18.00 hrs | 46.8 | 42.9 | 38.9 | Quarry closed down |
| N3 | 13.30-16.00 hrs | 49.8 | 48.5 | 45.5 | Quarry in operation |
| | 16.30-18.00 hrs | 45.9 | 41.2 | 36.5 | Quarry closed down |
| N4 | 13.30-16.00 hrs | 51.3 | 50.2 | 47.3 | Quarry in operation |
| | 16.30-18.00 hrs | 52.0 | 48.8 | 42.8 | Quarry closed down |

11.20 Analysis of noise data

- At location N1 the quarry gave Leq noise levels of **46dBA**
- At location N2 the quarry gave Leq noise levels of **44.4dBA**
- At location N3 the quarry gave noise levels of **45.5dBA**
- At location N4 the quarry gave noise levels of **47.3dBA**

11.21 At location N4 the Leq noise levels did not change when the quarry operation shut down. There is a berm and a large stockpile of material both which acts as a very significant acoustic berm between the quarry and receptors north to north-west of the site. Location 4 being close to the local road would have higher noise levels generated from local road traffic. The relationship between the L90 (and Leq) values with the quarry operating and closed down demonstrates the

impact of the quarry activity is no more than marginal. From observation, measurements made at location N4 the quarry operation gave Leq noise levels in the region of 47.3dBA. The noise level at location 5 was calculated from the measured levels at location 3 (according to the model in section 11.52) and equates to a Leq noise level of 45.2dBA.

Noise Monitoring Survey from 30th October to 7th November 2018

- 11.22 A second noise monitoring event was undertaken at the quarry between Tuesday 30th October and Wednesday 7th November 2018. This monitoring event was undertaken in response to an EIR request by Galway Co. Co. in relation to Planning Application P18/1149.
- 11.23 The Planning Authority was of the opinion that the noise monitoring survey conducted on the 24th April 2018 was insufficient in terms of its duration and therefore requested monitoring to be carried out over a minimum period of a week.
- 11.24 The noise monitors were set up at the same four monitoring locations N1 – N4 and measured continuously for a one-week period.
- 11.25 During the noise survey the weather was varied with the wind speed ranging from 0.5 to 6.5m/s (see noise data October/ November 2018 **Appendix 11.3**). The wind direction ranged between south, south-west and west. Temperature ranged between 4 and 13°C. Rainfall and wind measurements were taken at location N2. The weather data was verified by checking the site data with the local Athenry Met Station.
- 11.26 A log of the quarry operation was kept on site and is included in **Appendix 11.3** along with hourly noise levels. When Plant is classified as ‘Plant on’ it means that all the crushers were in operation with associated trucking to and from crushers and to stockpiles, trucks were being loaded from the concrete batching plant and the tarmacadam plant was in operation. During the 7-day period the blocking machine did not operate. Furthermore, the blocking plant did not operate during the one-day survey carried out on 24th April 2018, however it was included in the predicted levels when the cumulative level of all plant is operation was being determined using each of the two noise surveys. The quarry operation commenced at 08.00hrs and stopped at 16.30hrs. On Friday the operations stopped at 13.00hrs. On 1st November the plant stopped at 11.00hrs and a blast went at 13.00hrs. A third noise survey was carried out during April 2025, however during this survey the dominant noise levels were from the N83 road traffic, so the data was not used for modelling prediction.
- 11.27 Photos of noise monitors in-situ is given in **Appendix 11.3** with one third octave band analysis for each monitoring location given in **Appendix 11.5**. Table 11.4 gives the recorded mean noise levels taken at 1-hour intervals rounded to nearest whole number.

Table 11-4: Recorded mean levels taken at 1-hour intervals rounded to the nearest whole number

| Location id | Period | LAeq dBA | LA50 dBA | LA90 dBA | Comments |
|-------------|-----------------|----------|----------|----------|------------------------------|
| N1 | 08.00-17.00 hrs | 51 | 49 | 45 | Quarry in operation-Plant on |
| N2 | 08.00-17.00 hrs | 49 | 47 | 43 | Quarry in operation-Plant on |
| N3 | 08.00-17.00 hrs | 48 | 45 | 40 | Quarry in operation-Plant on |
| N4 | 08.00-17.00 hrs | 50 | 48 | 45 | Quarry in operation-Plant on |

Commentary and Weather Effects

- 11.28 Noise levels in the environs of the quarry are influenced mainly by quarry operations and road traffic flow from the nearby N83. Other lesser contributions come from local farming, wind generated effects on vegetation and domestic activity. Noise levels are not significantly influenced by temperature or pressure during daytime. Rainfall can influence noise level especially during very heavy down pours, however light rainfall / drizzle will have negligible influence on noise levels above 40dBA.
- 11.29 Elevated wind speeds will influence noise levels especially when measurement locations are close to vegetation (tall trees etc.) which is normal with measurements being made at receptors. The influence can be greatest when using standard wind shields. Typically, when recording mean hourly wind speed gusts within that period will give maximum speeds ranging between a factor of 1.5 and 2 times above the mean wind speed. Relatively low wind speed can influence noise level when directly from source to receiver. Wind generated noise will vary at an individual sites due to local vegetation and exposure to the wind on a microphone.
- 11.30 Road traffic generated contribution is usually at its highest in the morning between 06.30 and 09.00 hrs.
- 11.31 A period from 13.00 hrs on Friday 2nd November to Saturday 3rd November at 20.00hrs is highlighted during this period there was no quarry activity, yet the period coincided with some of the highest noise levels recorded and that was mainly due to elevated wind speed effects on vegetation see Appendix 11.3.
- 11.32 **Location N1:** The noise levels sources are attributable to the quarry, road traffic from the N83 and local roads, wind generated noise from vegetation, birds and local domestic activity. Attended noise levels downwind was recorded at 44-45dBA which correspond to the L90 level of 45dBA. The Lmax levels are from noise levels sources generated close to the microphone and un-associated to the quarry activity. The main source of quarry noise at this location was from crushing and screening above surface.
- 11.33 **Location N2:** The noise levels sources are attributable to the quarry, road traffic from the N83 and local roads, wind generated noise from vegetation and birds. The monitoring location is exposed with some tall conifers nearby. Attended noise levels in the region of 42-43dBA was recorded and correspond to the mean L90 level of 43dBA. The Lmax levels are from noise levels sources generated close to the microphone and un-associated to the quarry activity. The main source of quarry noise at this location was from crushing and screening above surface.
- 11.34 **Location N3:** The noise levels sources are attributable to the quarry, road traffic from the N83 and local roads, wind generated noise from vegetation and local activity. Attended noise levels upwind was recorded at 38-40dBA closely corresponds to the mean L90 level of 40dBA. There was a low level of quarry audibility at this location. The block machine which would be the nearest activity to this location was not operating during any periods during the week long monitoring. The Lmax levels are from noise levels sources generated close to the microphone and un-associated to the quarry activity.
- 11.35 **Location N4:** The noise levels sources are attributable to the quarry, road traffic from the N83, local roads and quarry road, wind generated noise from vegetation, trucks entering and exiting the quarry site and local farming activity. Attended noise levels was recorded at 43-45dBA which corresponds to the L90 level of 45dBA. There was a low level of quarry audibility from the site at this location, but contributions were audible from trucks. The Lmax levels are from noise levels sources generated close to the microphone and un-associated to the quarry activity.

11.36 There was no clear impulsive or tonal component at any of the monitoring locations. A one-third octave frequency band analysis is given in **Appendix 11.5** for each monitoring location.

Noise monitoring survey undertaken from 2nd April to 3rd April 2025.

11.37 The noise monitors were set up at the same monitoring locations N1 to N4 incl. as in the previous surveys to run continuously and concurrently at the nearest receptors surrounding the quarry. Instruments set on 15-minute intervals with microphones at 1.5m above ground level. All the environmental noise analysers had data logging facilities set on real-time, the logged data was later downloaded via a personal computer using software. All noise monitors were calibrated before and after the survey by a Larson Davis CAL 200 with the maximum drift of calibration being less than 0.03dB well within standard guidelines. All monitors were within calibration certification times see **Appendix 11.1**. **Table 11.5** gives the recorded mean noise levels taken at 15minute intervals rounded to nearest whole number. During the survey the Asphalt plant operated from 07.00 to 09.00hrs and the ready-mix plant operated as given in Table 11.5.

Table 11-5: Recorded mean noise levels taken at 15-minute intervals on 2nd to 3rd April'25

| Location id | Period | LAeq dBA | LA10 dBA | LA50 dBA | LA90 dBA | Comments |
|-------------|--|----------|----------|----------|----------|-----------------------------|
| N1 | 2 nd April 14:45-16:45 hrs | 49 | 52 | 48 | 45 | Quarry in operation |
| | 2 nd April 16:45-18:00 hrs | 48 | 51 | 47 | 45 | Quarry not operating |
| | 3 rd April 07.30-16.30 hrs | 49 | 51 | 48 | 45 | Quarry in operation |
| | 3 rd April 16:30-18:00 hrs | 51 | 53 | 50 | 47 | Quarry not operating |
| N2 | 2 nd April 14:15-16:45 hrs | 44 | 46 | 43 | 41 | Quarry in operation |
| | 2 nd April 16.45-18.00 hrs | 42 | 44 | 41 | 39 | Quarry not operating |
| | 3 rd April 07.30-16.30 hrs | 44 | 45 | 42 | 39 | Quarry in operation |
| | 3 rd April 16:30- 18:00 hrs | 45 | 47 | 45 | 43 | Quarry not operating |
| N3 | 2 nd April 13.45-16.45 hrs | 46 | 48 | 38 | 33 | Quarry in operation |
| | 2 nd April 16.45-18.00 hrs | 49 | 51 | 34 | 30 | Quarry not operating |
| | 3 rd April 07.30-16.30 hrs | 45 | 47 | 41 | 37 | Quarry in operation |
| | 3 rd April 16:30- 18:00 hrs | 49 | 53 | 44 | 39 | Quarry not operating |
| N4 | 2 nd April 13.00-16.45 hrs | 47 | 50 | 45 | 41 | Quarry in operation |
| | 2 nd April 16.45-18.00 hrs | 47 | 50 | 46 | 42 | Quarry not operating |
| | 3 rd April 07.30-16.30 hrs | 49 | 52 | 47 | 43 | Quarry in operation |
| | 3 rd April 16:30- 18:00 hrs | 49 | 52 | 47 | 44 | Quarry not operating |

Commentary and Weather Effects

- 11.38 During the noise survey the weather was varied with the wind speed ranging from 3 to 8m/s (see 15-minute noise data in **Appendix 11.4**). The wind direction was in a steady easterly direction with temperature ranged between 6 and 16°C. There was no rainfall during the period and wind data was verified from the local Athenry Met Station.
- 11.39 The quarry was at an operational level which pertains for approximately 60% in any one year (Reference Quarry Manager). Wind direction during the survey was easterly directly from the very high traffic flow on the N83. The dominant noise during the noise survey was from road traffic with onsite operations in-audible at all locations during my many visits to each location. Furthermore, the N83 being a line source (not a point source) means the geometric spreading reduces noise levels by 3 dBA instead of 6 dBA for a point source. During the survey the
- 11.40 Location N1: The main noise source was from N83 road traffic and birds (crows) which contributed to Lmax levels with quarry activity inaudible on my visits to this location.
- 11.41 Location N2: The main noise source was N83 road traffic with quarry activity inaudible on my visits to this location.
- 11.42 Location N3: The main noise sources was N83 road traffic with quarry activity inaudible on my visits to this location.
- 11.43 Location N4: The main noise sources was N83 road traffic, traffic to the site, with on-site quarry activity inaudible on my visits to this location.
- 11.44 The dominant noise at all locations were from the noise emissions from the high flow N83 road traffic with site activity inaudible.

Noise Levels during the three Survey Periods

- 11.45 A summary of the mean noise levels obtained from the 24thApril 2018 and the 30thOct to 8thNov'18 monitoring periods are given in **Table 11.6**. **The summary of mean levels includes periods during which the plant operated at near full capacity.** All data relating to periods when plant was not operating was excluded. The nose levels obtained during the 2025 survey were excluded from the prediction assessment as the dominant noise during the survey was from N83 road traffic.
- 11.46 **Table 11.6** gives the measurements obtained during the 2018 one day's supervised monitoring and the measurements obtained during the seven-day period when the plant was operating

Table 11-6: Noise levels recorded over the 1 -week period and the 1-day period

| Dwelling Id | Measured mean noise level | |
|-------------|--|----------------------------------|
| | Leq 1hr dBA | Leq 1hr dBA |
| | 30 th Oct to 8 th Nov'18 | 1 day- 24 th April'18 |
| N1 | 45 | 46 |
| N2 | 43 | 44.4 |
| N3 | 40 | 45.5 |
| N4 | 45 | 47.3 |
| N5 | 45* | 45.2 |

*Predicted based on measurements taken at N4

11.47 The quarry noise levels from 1-week of monitoring period were marginally lower at all locations than that obtained during the 1-day monitoring period. The higher levels of 24th April '18 was used along with predicted levels of plant which was not operating during the noise survey (refer to **Table 11.2**).

Proposed Development

11.48 In the proposed development Zones 6 represents the new location for components of fixed primary, secondary crushing and screening which moves to the quarry floor at 15 to 20m below surface.

11.49 Zone 7 denotes an area (referred to in Plate 1 and **Table 11.7**) where excavation and processing of rock is at a location close to the quarry face and boundary and is being carried out together with simultaneous drilling of shot holes on surface at locations which are closest to prediction locations N1 to N7.

Predicted Noise Levels from Proposed Development

11.50 The marginally higher levels obtained on 24th April'18 are used in the prediction for the proposal off:

- Increased quarry excavation footprint
- Moving some of the primary and secondary crushing and screening to the quarry floor

11.51 The footprint of the quarry noise sources in Zones 1 to 4 inclusive will not alter due to the proposed development, however some of the noise sources in the surface fixed crushing and screening plant (Zone 5) will be located to the quarry floor. The proposed development including rock extraction can occur in tandem with the operation of the existing surface infrastructure, so both are assessed together as cumulative impacts.

Predicted Noise Levels from Plant not in Operation during Surveys

11.52 The difference between noise levels at two far-field locations can be calculated as:

$$L_{p2} - L_{p1} = 10 \log (R_2 / R_1)^2 - (A_{atm} + A_{gr} + A_{br} + A_{mis})$$

$$= 20 \log (R_2 / R_1) - (A_{atm} + A_{gr} + A_{br} + A_{mis})$$

Where

- L_{p1} = sound pressure level at location 1
- L_{p2} = sound pressure level at location 2
- R_1 = distance from source to location 1
- R_2 = distance from source to location 2

and where

- A_{atm} = Attenuation due to air absorption
 - A_{gr} = Attenuation due to ground absorption
 - A_{br} = Attenuation provided by a berm/barrier
 - A_{mis} = Attenuation provided by miscellaneous other effects
- Attenuation by air absorption, ground absorption and miscellaneous effects is conservatively assumed as 2dBA.

11.53 **Table 11.7** gives a list of activity in each zone and the distance of centre of activity in that zone to the nearest receptor. The list of activity includes locations around the perimeter of the proposed quarry footprint in Zone 7 with the near surface primary and secondary crushing and screening moved to the quarry floor denoted by activity in Zone 6 (see **Plate 11.1**).

Table 11-7: Noise monitoring locations and distance of activity to nearest receptors

| Receptor id | Distance (m) | Activity |
|-------------|--------------|---|
| N1 | 401 | Zone 5-Tertiary crushing and screening |
| | 648 | Zone 1-Blockyard including forklift |
| | 565 | Zone 3-Batching plant / ready-mix truck filling |
| | 577 | Zone 2-Asphalt Plant |
| | 544 | Zone 4-Storage bins and screener |
| | 335 | Zone 6-Primary, secondary crushing, screening on quarry floor |
| | 108 | Zone 7- Shot drilling on surface |
| | 128 | Zone 7- Excavator loading to dumper for trucking |
| N2 | 664 | Zone 5-Tertiary crushing screening |
| | 810 | Zone 1-Blockyard including forklift including forklift |
| | 772 | Zone 3-Batching plant / ready-mix truck filling |
| | 735 | Zone 2-Asphalt Plant |
| | 711 | Zone 4-Storage bins and screener |
| | 554 | Zone 6-Primary, secondary crushing, screening on quarry floor |
| | 362 | Zone 7- Shot drilling on surface |
| | 382 | Zone 7- Excavator loading to dumper for trucking |
| N3 | 479 | Zone 5-Tertiary crushing screening |
| | 302 | Zone 1-Blockyard including forklift |
| | 378 | Zone 3-Batching plant / ready-mix truck filling |
| | 291 | Zone 2-Asphalt Plant |
| | 311 | Zone 4-Storage bins and screener |
| | 425 | Zone 6-Primary, secondary crushing, screening on quarry floor |
| | 218 | Zone 7- Shot drilling on surface |
| | 238 | Zone 7- Excavator loading to dumper for trucking |
| N4 | 330 | Zone 5-Tertiary crushing screening |
| | 564 | Zone 1-Blockyard including forklift |
| | 459 | Zone 3-Batching plant / ready-mix truck filling |
| | 532 | Zone 2-Asphalt Plant |
| | 504 | Zone 4-Storage bins and screener |
| | 394 | Zone 6-Primary, secondary crushing, screening on quarry floor |
| | 301 | Zone 7- Shot drilling on surface |

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| | | |
|----|-----|---|
| | 321 | Zone 7- Excavator loading to dumper for trucking |
| N5 | 512 | Zone 5-Tertiary crushing screening |
| | 243 | Zone 1-Blockyard including forklift |
| | 347 | Zone 3-Batching plant / ready-mix truck filling |
| | 301 | Zone 2-Asphalt Plant |
| | 335 | Zone 4-Storage bins and screener |
| | 528 | Zone 6-Primary, secondary crushing, screening on quarry floor |
| | 290 | Zone 7- Shot drilling on surface |
| | 310 | Zone 7- Excavator loading to dumper for trucking |

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NB: Zones 1 to 7 is denoted in Plate 11.1 as numbers 1 to 7

11.54 The predicted maximum noise levels assumes that excavation is at the location nearest to each receptors N1 to N5 denoted by Zone 7 (**Plate 11.1**). Zone 7 also includes surface shot hole drilling occurring at the nearest point to the prediction made for receptors 1 to 5 inclusive.

11.55 The activity in Zone 5 is reduced considerable by removing the primary and secondary crushing / screening to a new location on the quarry floor. All other zone surface activity is fixed and remains at the same distance to receptors as during the two noise survey periods.

11.56 An allowance of 12dBA has been made for shot drill where shot drilling is located beside the 3.5 /4m berm. A reduction of 20dBA has been allowed where the plant is on the quarry floor where the path difference is well in excess of 2m (Ref BS 5228-1:2009). A reduction of 20dBA is assumed for quarry extraction activity such as loading blasted rock to dumpers, as this activity will be within approx. 40m of the active face (the author has recorded barrier effects in similar locations well in excess of 30dBA when such activity is within 40m of the active quarry face).

11.57 **Table 11.8** gives the predicted noise levels at receptors taking into account the proposal to increase the quarry footprint and moving items of fixed plant (primary and secondary crushing and screening) to the quarry floor. The predicted noise levels assume that shot hole drilling and excavation of rock is being carried out at the same time while operating at the nearest point to receptors.

Table 11-8: Predicted noise levels at locations nearest to receptors

| Location ID | Distance to receptor (m) from activity | Attenuation allowed for barrier/berm effects | Predicted noise level dBA | Cumulative noise level dBA |
|-------------|---|--|---------------------------|----------------------------|
| N1 | Shot hole drilling on surface= 108m | 12 | 52.3 | 52.9 |
| | Extraction at quarry face = 128m | 20 | 41.0 | |
| | Primary/secondary crushing and screening on quarry floor = 409m | 20 | 34.7 | |
| | Dump truck = 401m | 20 | 36.9 | |
| | Block yard = 648m | 10 | 39.8 | |
| | Forklift = 648m | 10 | 37.8 | |
| N2 | Shot hole drilling = 362m | 12 | 43.8 | 45.8 |
| | Extraction at quarry face = 382m | 20 | 32.0 | |
| | Primary/secondary crushing and screening on quarry floor = 585m | 20 | 31.5 | |

| | | | | | |
|----|--|------|----|------|------|
| | Dump truck = | 664m | 20 | 32.6 | |
| | Block yard = | 810m | 10 | 37.8 | |
| | Forklift = | 810m | 10 | 35.8 | |
| N3 | Shot hole drilling = | 218m | 12 | 49.2 | 52.1 |
| | Loading rock at quarry face= | 238m | 20 | 35.5 | |
| | Primary/secondary crushing and screening on quarry floor = | 371m | 20 | 35.4 | |
| | Dump truck = | 479m | 20 | 35.4 | |
| | Blockyard = | 302m | 10 | 46.4 | |
| | Forklift = | 302m | 10 | 44.6 | |
| N4 | Shot hole drilling = | 301m | 12 | 45.4 | 48.3 |
| | Loading rock at quarry face= | 321m | 20 | 32.8 | |
| | Primary/secondary crushing and screening on quarry floor = | 445m | 20 | 33.8 | |
| | Dump truck = | 330m | 20 | 38.6 | |
| | Blockyard = | 564m | 10 | 41.0 | |
| | Forklift = | 564m | 10 | 39.0 | |
| N5 | Shot hole drilling = | 290m | 12 | 43.8 | 51.5 |
| | Loading rock at quarry face= | 310m | 20 | 33.2 | |
| | Primary/secondary crushing and screening on quarry floor = | 464m | 20 | 32.6 | |
| | Dump truck = | 512m | 20 | 34.8 | |
| | Blockyard = | 243m | 10 | 48.3 | |
| | Forklift = | 243m | 10 | 46.3 | |

Note: Crushing and screening has been included in the noise survey measurements

11.58 The total quarry noise levels (measured and predicted) are given in **Table 11.9** include the predicted noise levels in **Table 11.8**.

11.59 Adjustments are made to the total noise levels measured to allow for primary, secondary crushing and screening being moved to the quarry floor. This is to account for these items of plant already included in the recorded noise levels in **Table 11.6**.

11.60 Combining the active noise sources with noise levels (**Table 11.1**) in the quarry during the noise survey results in:

11.61 (79+74.4+86+85.5+85+79.5+82.5+83+88) which added equates to an equivalent level at 10m of 93.6dBA. When the two crushing/ systems are removed the total level equates to a level at 10m of 91.8dBA a difference of 1.2dBA. This difference is subtracted from the values in **Table 11.1**. to avoid over estimation of the crushing screening systems whereby part of this system is being moved to the quarry floor with prediction made for same.

11.62 **Table 11.9** gives the predicted cumulative noise levels from the proposed development with all plant operating with shot hole drilling on top bench and rock excavation at location denoted by Zone 7 on **Plate 11.1** (all operations at nearest point to receptors N1 to N5). Shot hole drilling typically occurs for approximately 2 to 3 days for each blast with the number of blasts per year could range from 10 to 20 depending on demand.

11.63 The predicted maximum noise levels due to surface drilling at receptors N1 and N4 (and receptors between these locations) south of the development will occur for no more than a total of 2 to 3 days.

Table 11-9: Predicted noise levels from proposed development when operating at full capacity at locations nearest receptors

| Dwelling Id | All plant in operation Leq 1hr dBA | Cumulative Leq 1hr dBA |
|-------------|---------------------------------------|---------------------------|
| N1 | (46.0-1.2) + 52.9 | 53.5 |
| N2 | (44.4-1.2) + 45.8 | 47.7 |
| N3 | (45.5-1.2) + 52.1 | 52.8 |
| N4 | (47.3-1.2) + 48.3 | 50.3 |
| N5 | (45.2-1.2) + 51.5 | 52.2 |

NB: Predictions are made for locations 6 and 7 based on Tables 11.8 and 11.9. Maximum noise levels at N6 are predicted at 48.8 dBA while the maximum predicted noise levels at N7 is 50.9 dBA.

Ameliorative Measures in Place

- 11.64 The asphalt plant has been constructed with motors at low level and housed.
- 11.65 Reversing beepers on site mobile plant have been replaced with ‘white noise beepers’ which is not audible to any receptors.
- 11.66 Rubber lining has been installed on all transfer points on the crusher / screener systems.
- 11.67 All motors and pulleys are maintained to a high standard with regular maintenance to avoid any tonal or impulsive components in the emission.
- 11.68 All mobile plant on site has well maintained silencers.

Ameliorative Measures Being Put in Place

- 11.69 The primary and secondary crusher and screening systems are being relocated to the quarry floor well below the surrounding surface level, with the quarry faces acting as a significant acoustic barrier.
- 11.70 A screening berm is proposed around part of the proposed quarry extension area.
- 11.71 Machinery will be throttled down or turned off when not in use and this to include crushing screening systems.
- 11.72 A noise buying standard will be put in place where any replacement of mobile or fixed plant will have noise characteristics considered.

Relevant Guidance and Current Noise Limits of Existing Operations

- 11.73 The EPA has produced Environmental Management Guidelines- ‘Environmental Management in the Extractive Industry (Non-Scheduled Minerals) ², 2006. This document references ‘A Guidance Note for Noise in Relation to Scheduled Activities (EPA, 1996¹)’. It deals with the

² Quarries and Ancillary Activities, Guidelines for Planning Authorities Dept of the Environment, Heritage and Local Government April 2004

¹ Ref. EPA’s Guidance Note For Noise In Relation to Scheduled Activities, 1996

approach to be taken in the measurement and control of noise, and provided advice in relation to the setting of emission limits values and compliance monitoring.

11.74 In relation to quarry developments and ancillary activities, it is recommended that noise from the activities, it recommended that noise from the activities on site shall not exceed the following noise limits at the nearest noise-sensitive receptor:

- Daytime 08.00-20.00 hrs LAeq (1h) = 55dBA
- Night-time 20.00-08.00 hrs LAeq (1h) = 45dBA
- 95% of all noise levels shall comply with the specified limits values(s). No noise level shall exceed the limit value by more than 2dBA.

Current Noise Limits of Existing Operation

11.75 The quarry operates under ABP-310037-21 (dated 18th Jan 2023) and Planning Authority Ref. No. 211/69 under Condition 3 and Condition 4.

11.76 Condition 3

- (1) States: 'The Concrete Batching Plant and the Macadam Plant, and all activities occurring therein, shall only operate between 0700 hours and 2000 hours, Monday to Friday and between 0800 hours and 1600 hours on Saturdays. No activity shall take place outside these hours within any part of the site before 0800 hours on any day'.
- (2) No works shall take place at night-time or outside of the foregoing amended hours of operation.

11.77 Condition 4

11.78 During the operational phase of the development the noise level from within the boundaries of the site measured at noise sensitive locations in the vicinity, shall not exceed-

- (a) an LArT value of 55dBA during the period 0700 hours and 2000 hours from Monday to Friday (inclusive) and 0800 hours to 1600 hours on Saturdays.
- (b) an LArT value of 45dB(A) at any other time. The T value shall be 15 minutes.

Noise Assessment of Operation

11.79 The noise levels from the existing facility have been measured at the nearest receptors surrounding the site. Where plant was idle, the noise level of the idle plant was predicted at the nearest receptors and the cumulative levels (noise levels of all plant which operates in the quarry) were assessed. The predicted maximum cumulative noise levels (all plant in the quarry operating together) are within the noise limits of Condition 3 and Condition 4 at all locations. It should be noted that all plant operating together would be an exceptionally rare scenario. It should also be noted that there is a significant noise contribution from road traffic on the N83 which was evident during the April 2025 noise survey. The noise emissions will be greatest with an east wind while NE and SE winds will contribute lower levels around the perimeter of development. At distance greater than 500m from the N83 the emissions will be in the lower frequency spectrum.

Construction Noise

11.80 The main construction activity involved in the proposed development is the construction of berms close to the boundary perimeter. For these works it is assumed that a dump truck and excavator will be operating close to the boundary.

11.81 The NRA guidelines for construction noise which are considered acceptable are given in **Table 11.10**.

Table 11-10: Noise levels that are acceptable based on the NRA Guidelines

| Day / Times | Guideline Limits |
|--|--|
| Monday to Friday 07:00 – 19:00hrs 19:00 – 22:00hrs | 70dB LAeq, (1h) and LAmax 80dB *60dB LAeq, (1h) and LAmax 65dB* |
| Saturday 08:00 – 16:30hrs | 65dB LAeq,1h and Lamax 75dB |
| Sunday and Bank Holidays 08:00 – 16:00hrs | *60dB LAeq,1h and LAmax 65dB* |

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11.82 Construction times for the development is:

Construction times for the development is: Monday to Friday: 07.00 to 20.00hrs, Saturday 08.00 to 16.00hrs with no work on Sundays, or Bank Holidays.

Predicted Construction Noise levels

11.83 The predicted noise levels are carried out using the model in section 11.52. An assumed source noise levels equivalent is given as Leq 1hr of 88dBA at 10m. The berm construction will use overburden material from the site. **Table 11.11** give the predicted maximum noise levels during construction at locations close to receptors.

Table 11-11: Predicted maximum noise levels at locations close to receptors

| Location ID | Distance to receptor (m) from activity | Attenuation allowed for barrier/berm effects | Predicted noise level dBA |
|-------------|--|--|---------------------------|
| N1 | Dump truck+ Excavator= 127m | 2 | 63.9 |
| N2 | Dump truck+ Excavator= 332m | 2 | 55.6 |
| N3 | Dump truck+ Excavator= 188m | 2 | 60.5 |
| N4 | Dump truck+ Excavator= 271m | 2 | 57.3 |
| N5 | Dump truck+ Excavator= 260m | 2 | 57.7 |
| N6 | Dump truck+ Excavator= 183m | 2 | 57.5 |
| N7 | Dump truck+ Excavator= 275m | 2 | 57.2 |

Assessment of Construction Noise

11.84 The maximum predicted construction noise levels are well within the NRA Guidelines.

11.85 The proposal should not increase the traffic flow on the local road network. There is a logarithmic relationship between road traffic flow and noise levels. Typically doubling the traffic flow will result in a 3dBA noise level increase. There will no increase in road traffic noise levels by the continued operation of the quarry.

Ground Vibration from Road Traffic

11.86 The ground vibration levels from road traffic will be below the level of sensitivity at all receptors along the exit route at less than 0.2mm/sec.

Blast Vibration

Ground Vibration

11.87 Ground vibration is caused by the imperfect utilisation of the explosive energy released from the fragmentation of rock during blasting operations. The energy that is unused in the fragmentation of rock propagates as an elastic disturbance away from the shot area as seismic waves. These waves, which radiate in a complex manner, diminish in strength with distance from the source. The theory relative to this motion is based on an idealised (sinusoidal) vibratory motion. When these waves come into contact with a free face, physical motion results as the energy induces oscillation in the ground surface. Blasting vibration is a surface wave type, which incorporates components of both body and surface motion.

11.88 Ground vibration itself is in-audible, however air vibrations (air overpressure) both audible and sub-audible usually accompany it. The resulting impacts of blasting vibration are often characterised as being impulsive and of short duration, usually less than 2 seconds. It is difficult for the average lay person to differentiate between the various types of vibrations (ground vibration and air overpressure), humans commonly associate the level of vibration with the 'loudness' of a blast.

Ground Vibration Control

11.89 Ground vibration from blasting at any receptor point is influenced in the main by:

- the maximum instantaneous charge of explosives usually referred to as MIC.
- the medium between blast source and receptor point and.
- the distance between the receptor point and the blast source.

11.90 Ground vibration control is based on reducing and controlling the weight of explosives detonated per delay. In any given situation large amounts of explosives can be detonated using time delay intervals (greater than 8millie-second) between specific charges within the overall blast. The level of ground vibration is directly related to the maximum charge weight per delay and numerous studies have shown that peak particle velocity (PPV) is directly related to the maximum charge weight per delay. In terms of predicting ground vibration each quarry location is 'site specific'. Typically, a 'scaled distance' regression line can be established using monitored vibration data, MIC and distance. Vibration monitoring of each blast will determine if blast vibration compliance is met and it also allows the development and adjustments to the 'scale distance' regression line for the proposed site. As this is an established blasting site a significant amount of data is available to demonstrate compliance with ground vibration levels. In practice the distance and MIC to a blast receptor will determine the MIC used for blasting. As blasting operations move in a north north-east and east direction blast vibration levels can be reduced by lowering the MIC if necessary. The MIC can be lowered using a combination of methods:

- reducing the shot hole diameter

- reducing the bench height, thereby reducing the shot hole
- decking charges-dividing the charge with the shot hole by using a minimum of 1.5m of stemming

11.91 The most up to date technology in blasting operation is used and will continue to be used in the quarry. To this end face profiling will be carried for each blast so that the accurate geometry of the free face can be established, thereby enabling the optimum burden and spacing to be applied for each blast. Ground vibration and air overpressure will be recorded for each blast at monitoring stations with state-of-the-art seismographs. Monitoring can assess compliance with blast vibration limits being met.

Historical Blast Measurements

11.92 Several blasts have been conducted in the excavation area where monitoring has shown compliance. Blasting will move closer to receptors to the north, east and south-east areas. Blasting will move closest to receptor V4, however ground vibration levels can be kept well within the ground vibration limit. Lowering the MIC in any specific blast will reduce ground vibration levels. Historical ground vibration levels are kept well below statutory limits. Blast vibration will decrease with distance in all directions although the level of attenuation may vary slightly due to geological conditions.

11.93 **Table 11.12** demonstrates a good level of compliance with the ground vibration limits over a number of years. The PPV is denoted by the maximum vector, or the maximum of each of the three orthogonal directions: the horizontal longitudinal, vertical, horizontal transverse (L,V,T). The locations of blast measurements are given in **Plate 11.2**, except for one distant location at 1.5km from the blast source (see Table 11.12 for levels).

Plate 11.2: Ground Vibration and Air Overpressure Monitoring Locations



Table 11-12: Blast vibration Levels including Air-Overpressure for 2019 to 2025

| 2019 BLASTING DETAILS | | | | | | | |
|-----------------------|------------|-----|-----------|------|------|------|------------------|
| Location | Date | MIC | Total | L | T | V | Air Overpressure |
| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
| V4 | 25/02/2019 | 60 | 2266 | 2.4 | 1.9 | 2.4 | 117 |
| V5 | 25/02/2019 | 60 | 2266 | 1.3 | 1.6 | 0.9 | 106 |
| 2020 BLASTING DETAILS | | | | | | | |
| Location | Date | MIC | Total | L | T | V | Air Overpressure |

| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
|----|------------|----|-----------|------|------|------|-----|
| V1 | 06/10/2020 | 60 | 3,161 | 1.0 | 2.0 | 1.3 | 117 |
| V1 | 22/10/2020 | 64 | 2,166 | 1.5 | 1.6 | 2.4 | 108 |
| V1 | 10/11/2020 | 61 | 22,88 | 2.2 | 1.5 | 1.7 | 116 |
| V4 | 10/11/2020 | 61 | 22,88 | 2.4 | 2.2 | 2.9 | 118 |

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| 2021 BLASTING DETAILS | | | | | | | |
|-----------------------|------------|-----|-----------|------|------|------|--------------|
| | | | | | | | Air |
| Location | Date | MIC | Total | L | T | V | Overpressure |
| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
| V1 | 10/08/2021 | 86 | 5595 | 2.3 | 2.7 | 2.1 | 124 |
| V1 | 23/09/2021 | 90 | 3965 | 1.8 | 2.2 | 2.4 | 119 |
| | | | | | | | |
| 2022 BLASTING DETAILS | | | | | | | |
| | | | | | | | Air |
| Location | Date | MIC | Total | L | T | V | Overpressure |
| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
| V1 | 10/03/2022 | 104 | 3265 | 1.0 | 2.0 | 1.3 | 118 |
| V1 | 06/09/2022 | 100 | 3395 | 1.5 | 1.6 | 2.4 | 121 |
| V1 | 04/10/2022 | 100 | 5200 | 2.2 | 1.5 | 1.7 | 126 |

| 2023 BLASTING DETAILS | | | | | | | |
|-----------------------|------------|-----|-----------|------|------|------|--------------|
| | | | | | | | Air |
| Location | Date | MIC | Total | L | T | V | Overpressure |
| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
| V1 | 27/07/2023 | 104 | 4543 | 1.1 | 2.2 | 1.9 | 130 |
| V1 | 28/08/2023 | 100 | 3875 | 1.1 | 1.4 | 1.2 | 126 |

| | | | | | | | |
|---|-------------|------------|------------------|-------------|-------------|-------------|---------------------|
| V1 | 21/09/2023 | 113 | 4185 | 1.5 | 1.4 | 1.1 | 125 |
| 2024 BLASTING DETAILS | | | | | | | |
| | | | | | | | Air |
| Location | Date | MIC | Total | L | T | V | Overpressure |
| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
| V1 | 10/03/2024 | 104 | 4,527 | 2.0 | 1.4 | 2.6 | 123 |
| V1 | 12/03/2024 | 110 | 5,077 | 1.5 | 1.5 | 1.3 | 124 |
| V1 | 02/09/2024 | 122 | 5,831 | 3.1 | 2.0 | 1.3 | 123 |
| M & A Hindle Over 1.5km from blast | 02/09/2024 | 122 | 5,831 | <0.5 | <0.5 | <0.5 | <120 |
| V1 | 16/03/2024 | 100 | 5,552 | 3.4 | 3.6 | 2.9 | 124 |
| V1 | 12/11/2024 | | | 3.2 | 2.0 | 2.3 | 123 |

| | | | | | | | |
|------------------------------|-------------|------------|------------------|-------------|-------------|-------------|---------------------|
| 2025 BLASTING DETAILS | | | | | | | |
| | | | | | | | Air |
| Location | Date | MIC | Total | L | T | V | Overpressure |
| | | Kg | Charge/Kg | mm/s | mm/s | mm/s | dB |
| V1 | 10/03/2025 | 104 | 4,527 | 2.0 | 1.4 | 2.6 | 123 |

11.94 Variations in the maximum instantaneous charge weights (MIC) and distance to a receptor at any specific site are closely related to variations in vibration magnitude. The distance from a blast to receiver and MIC determines the basis of vibration prediction.

Ground Vibration Criteria, Guidelines/Recommendations/Standards

11.95 The measurement of peak particle velocity (PPV) is internationally recognised as the best single descriptor to use when assessing potential ground vibration damage to structures/buildings. More recently velocity-frequency control bounds are used as damage control criteria. There are no Irish standards for ground vibration control, however there are limits recommended in the EPA’s Guidance Note on Noise in Relation to Scheduled Activities. These limits are also recommended in the Guidelines for Planning Authorities for *Quarries and Ancillary Activities* issues in April 2004 by the Department of the Environment, Heritage and Local Government. The EPA has also published a document “Environmental Management Guidelines” Environmental

Management in the Extractive Industry (Non-Schedule Minerals)-2006. There are many different standards and recommendations being used internationally, some like the German DIN 4150¹ that lacks data for its foundation. However, most of these standards and recommendations are derived from the considerable work carried by the U. S Bureau of Mines (USBM). The USBM Report of Investigation 8507² gives practical safe criteria for blasts that generate low frequency ground vibrations (<40Hz). These are 19 mm/sec for modern houses and 12.7 mm/sec for older houses. Since 1993 British Standards Institute have adopted BS 7385 Part 2: 1993³, this is based predominately on a literature review of the previous studies already alluded to in this report

11.96 For the quarry development the vibration limits will be similar to those already in place by Galway Co. Co. and within the EPA's Guidance Note).

Blast Vibration Limits for Current Operation

11.97 Condition 4 of Galway Co. Co. Section 261 Order states:

- Blasting shall be designed and operated so that:
- 'Ground vibration arising from any blasts carried out on site shall not exceed a peak particle velocity of 12mm/s in any of the three mutually octagonal planes at the threshold of any house in the vicinity of the site'.
- The air overpressure arising from the blasts shall not exceed 125dB (lin) max peak with a 95% confidence limit when measured outside the nearest house to the blast.
- Monitoring for ground vibration and air over pressure shall be carried out by the operator during each blast.

Air Blast (Air-Overpressure) Noise

11.98 A blast causes a diverging shock-wave front that quickly reduces to the speed of sound, and an air blast is then propagated through the atmosphere as sound waves. Air blast or air overpressure is the term used to describe the low frequency, high energy air vibrations generated by blasting detonation. Air blasts are characterised by containing a larger proportion of its energy in the sub-audible spectrum, below 20 Hz. Because the waves associated with air blasts are essentially outside the audible spectrum (below 20 Hz), a separate unit of measure, pressure is reported.

11.99 The pressure is recorded using an air-blast transducer and the linear device must measure accurately in the structurally critical range, 2 to 20 Hz. Air blast (sound waves) can be reported in two distinct units of measurements, pressure (psi) or decibels (dB)

11.100 Sound waves in the form of the sub-audible sound waves (air overpressure/air blast waves), and noise (the audible waves) are sometimes linked inextricable. It is difficult sometimes for humans to differentiate between the characteristics of air blasts and noise.

11.101 Sub-audible waves are generally the biggest concern. The sub-audible sound waves, if high enough can excite structures to produce audible rattle inside structures and may, in the extreme, break glass and crack wall coverings. However, there are no known cases of foundation cracks from air blasts at values anywhere near the glass breakage threshold of 140 dB⁴. The cracking of

¹ German Standard, DIN 4150; Part 3: 1986, Vibration in buildings; effects on structures

² Siskind, D. E., Stagg, M. S., Kopp, and Dowding, C. H. (1980) 'Structure Response and Damage Produced by Ground Vibration From Surface Mine Blasting' U. S Bureau of Mines RI 8507

⁴ Siskind, D. E., Crum, S. V., and Plis, N. M. (1993). 'Blast Vibrations and Other Potential Causes of Damage in Homes Near a Large Surface Coal Mine in Indiana', USBM, RI 9455

glass (the weakest component of a structure) is likely to be probabilistic in nature. In other words, not all windows will crack at 140 dB.

11.102 A wind speed of 9 m/s produces a pressure equal to 133.7 dB (0.014 psi). Although such wind is comparable in amplitude to a strong air-blast, its effects are not as noticeable because of the relatively slow rate of wind change and the corresponding minor or non-existent rattling, compared with the rapid rise time (impulsive) of an air blast transient.

11.103 Air blast waves are attenuated over distance in much the same way as sound waves; however, there are some differences due to the lower frequency of the sub-audible air blast waves. Lower frequency waves are attenuated at a lower rate by air absorption over distance than the higher frequency audible waves. Air blasts, being very high pulses of energy in the form of low frequency waves can travel great distances. **Temperature inversions have minimal impact near a blast but can increase by over 10 dB at distances of 800m or more.** However, lack of focusing at short distance is important, since only at short distances are pressures large enough to produce cracking. The effects of ambient temperature and relative humidity are considered negligible, at less than 1 dB at 1Km⁵. Prediction and control of air blasts can be more difficult than that of ground vibration due to the influences of weather conditions on the air blast propagation.

Control of Air Blasts

11.104 The principal factors governing air blasts are:

- (a) the type and quantity of explosives
- (b) the degree and type of confinement (stemming)
- (c) the method of initiation (not-use of exposed detonating Cord etc.)
- (d) local geology, topography and distance
- (e) atmospheric conditions

11.105 Factors (a), (b) and (c) are variables within the control of the quarry operator whereas (d) and (e) are essentially uncontrollable at any particular site. However, by varying the timing of a blast (avoid early morning or late evening), by controlling the degree of confinement and by using non-electric or electronic detonators as the method of initiation (non –use of detonating Cord on surface) the quarry operator, in effect, achieves partial control over the influence of atmospheric conditions and hence over the blast emissions. It is important to note that atmospheric conditions (including temperature inversions) will have little effects at distances within 300m.

11.106 It is proposed to limit the air blast to an air overpressure level of 125 dB (Lin peak) with a 95% confidence limit when measured with instrumentation that has a linear response down to 2 Hz. as is given in condition 4 of the existing permission. This proposed limit is well below the safe level of 133 dB for air blasts given by Siskind *et al.*, 1980⁶ and is also within the limit recommended by the EPA.

Flyrock

11.107 Flyrock can occur due to incorrect design and poor management of blasting rounds where there is inadequate stemming or inadequate burden (overcharging the holes with explosives).

⁵ Aimone-Martin, C., and Martin, R. S. (2000). *Effects of Temperature and Humidity on Airblast Sound Pressure Levels*. Journal of the International Society of Explosive Engineers

⁶ Siskind, D. E., Stachura, V.J., Stagg, M. S., and Kopp, J. W. (1980). *Structural Response and Damage Produced by Air Blast from Surface Mining*, USBM, RI 8485

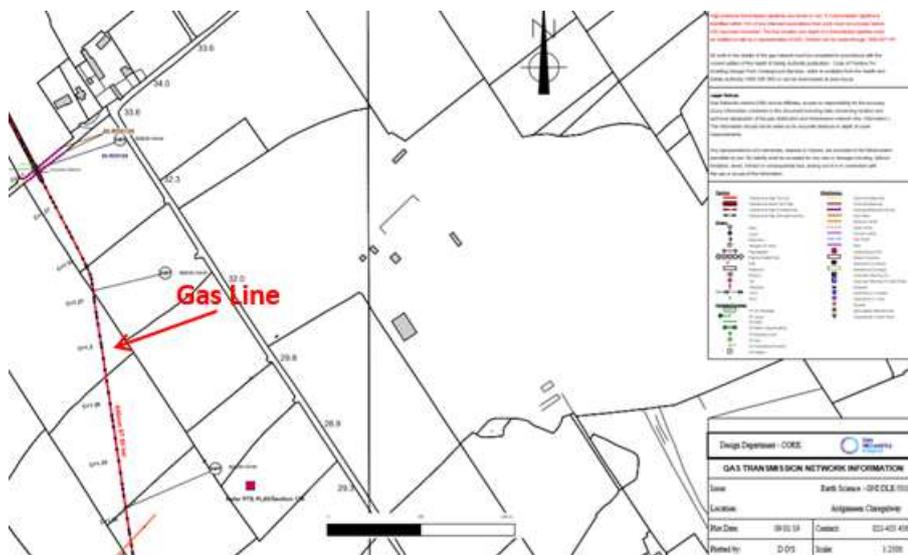
Overcharging can be avoided by following proper management procedures). Considerations for the bench height, bench face profile, face condition, local geology, rock properties, burden and spacing of the drilling pattern and in particular to the first row of boreholes when calculating charge weight per hole will ultimately define the optimum powder and energy factors for a safe and productive blast. The measures taken to control ground vibration and air-overpressure will also control and counteract the possibility of flyrock.

Blasting in Proximity of Gas Networks Ireland Gas Line

11.108 In response to a FI, P18/1149, Galway Co. Co. requested that we assess the potential impact of blasting at the quarry on the high pressure gas line which is located to the west of the application site and working quarry. The layout of the gas pipeline obtained from GNI with respect to the quarry is illustrated on **Plate 11.3** (refer to location V5 in **Plate 11.2**). The boundary of the quarry blasting footprint is shown in red on **Plate 11.1**.

11.109 Considerable work has been carried out on the Response of Blasting Vibration on Pipelines and Buried Structures (Construction Vibrations, Charles H. Dowding, Professor of Civil Engineering, Northwestern University, Prentice Hall, 1996). Quote: ‘Buried structures can withstand particle velocity excitation far in excess (at least 165 to 210mm/sec) far in excess of the 50mm/sec cautionary control. Such a possibility is not surprising if the basic modes of construction impulse or blast deformation of buried structures are considered’. The text gives the presentation of cases preceded by theoretical explanation of the restrained response, axial and circumferential (hoop) pipe strains, relative stiffness of the ground and structure, plane-wave excitation, and calculation of structure and ground strains. The text deals with three case studies, one involved blasting adjacent to a discharge tunnel for nuclear power plant in Virginia, the second dealt with three steel pipelines used for natural gas transmission, while the third dealt with a steel pipeline for water transmission. Blast effects tests conducted on the pipeline demonstrates the response of an existing pipeline trenched in rock that is excited by motions from blasts in rock.

Plate 11.3: Location of Gas Line Relative to Quarry



11.110 Swiss Standard- Union of Professionals of the Road, adapted 1992

11.111 This is one of the few standards that give guidance based on;

- Classes of sensitivity
- Frequency of occurrences and;

- Range of frequencies in Hz

11.112 Water and gas pipelines are classified as low sensitivity while frequency of blast occurrences could be classified as less than 1000. Indicative values in guidance are given at up to two times the indicative value of 15mm/sec as peak particle velocity (ppv) at frequencies of less than 30Hz, which equates to a guideline value of 30mm/s. At higher wave frequencies the guideline values are above 40mm/sec.

Gas Pipeline

11.113 Gas Network Ireland (GNI) have taken cognisance of the quarry and blasting. They have also issued 'A Code of Practice' entitled 'Working in the vicinity of the Transmission Networks'. For blasting GNI should be consulted if undertaking blasting within 400m.

11.114 The 600mm diameter high pressure pipeline is buried and transverses west of the site with the nearest point of blasting at 490m metres from the nearest point of the gas pipeline. The ground vibration limit for blasting at all receptors is 12mm/sec peak particle velocity with some receptors closer to blasting than the pipeline.

Vibration Monitoring Close to Gas Pipeline (Location V5)

11.115 Blast vibration monitoring measurement were taken for a blast carried out on 25th February 2019. The results of blast vibration measurements are given in **Table 11.13**. **Plate 11.2** and **Plate 11.3** shows the locations of monitoring.

Table 11-13: Blast vibration Levels including Air-Overpressure on 25th February 2019

| 2019 BLASTING DETAILS | | | | | | | | |
|------------------------------|------------|-----|-----------------|----------------|--------|--------|--------|-----------------|
| Location | Date | MIC | Total Charge/Kg | Tonnes Blasted | L mm/s | T mm/s | V mm/s | Air |
| | | | | | | | | Overpressure dB |
| V4 | 25/02/2019 | 60 | 2266 | 10,920 | 2.4 | 1.9 | 2.4 | 117 |
| V5 | 25/02/2019 | 60 | 2266 | 10,920 | 1.3 | 1.6 | 0.9 | 106 |

Assessment

11.116 The PPV at location V5 close to gas pipeline was 1.6mm/s at a level of orders of magnitude below which damage is likely. Furthermore, a single storey or two storey house is significantly more sensitive to ground vibration than a high pressure buried pipeline. Location V4 is the nearest receptor to blasting. **Plate 11. 2** shows the boundary of the proposed quarry footprint for extraction.

11.117 The ground vibration limit of 12mm/sec for receptors is a level at which superficial damage to properties approach zero and orders of magnitude below the level at which the buried pipeline would be adversely impacted upon.

11.118 The ground vibration levels from operation of the quarry are well with guidelines and within limits given by ABP and the Local Authority.

Mitigating Impacts for Ground Vibration, Air-Overpressure Noise and Flyrock Control

11.119 The following controls are in place so that ground vibration, air overpressure and noise is minimised and kept within the regulatory limits. Specific mitigations measures followed are listed as follows:

Table 11-14: Mitigating Impacts for Ground Vibration, Air-Overpressure Noise and Flyrock Control

- Pre-blasting management procedures, loading procedures and blasting management procedures are in place at all times- shot rules.
- Considerable care will be taken to conduct the blast only between 10:00 hrs and 16:00 hrs, Monday to Friday. No blast will be conducted on weekends or bank holidays.
- Prior drilling of any blast a face profiling or a trigonometric bench height measurement will be carried out for all blasts.
- Prior to drilling the blasting pattern, the quarry foreman will mark the position of the boreholes and the blast number on the ground as per the agreed blasting plan approved and signed by the Drilling and Blasting Manager.
- A blasting plan will be issue by the blaster in charge for agreement to the Drilling and Blasting Manager prior the drilling of any blast.
- Only personnel with appropriated Certification in drilling and blasting will be allowed to operate the blasting programs.
- A driller's log will be in place at all times.
- A site specific scale distance regression for the proposed development site is developed (or equivalent) as blasting continues over the life of the quarry.
- Monitoring locations for ground vibration and air overpressure will be agreed prior to blasting. Monitoring data will be used to allow for future adjustments to the maximum instantaneous charge of the blast if required.
- All seismographs will have a certificate of calibration from the manufacturer and all certificates and serial numbers of each seismograph to be use for the monitoring of the blast will be kept on file.
- Advance warning notice of all blasts is given to residents (and will continue to be given) in the environs of the quarry at least 24hrs prior to blasting.
- Ensure that the optimum blast ratio is maintained and ensure that the maximum amount of explosive on any one delay, the maximum instantaneous charge (MIC) is optimised so that the ground vibration levels are kept below the regulatory limits.
- Explosive charges will be properly and adequately confined by a sufficient amount of quality of stemming by using angular chippings and/or a combination of angular chippings and plug.
- The adequate confinement of all charges by means of accurate face survey and the subsequent judicious placement of explosives by certified personnel.
- Overcharging will be avoided by considering depth, burden and spacing when calculating charge weight per hole

- There will be no exposed detonating cord used in surface.
- The initiation sequence in the blast will be set in a way that it progresses away from the nearest sensitive locations or structure to be protected, were practical.
- An adequate powder factor and energy factor will be chosen for each blast by considering safety, confinement and productivity.
- Borehole deviation studies will be conducted in order to have a better control on potential deviation.
- Only the necessary sub drilling to achieve good breakage will be use (Normally 1 to 1.5 m), excessive sub-drilling will be avoided at all times.
- Increase confinement on the boreholes of the explosives by using angle chippings or a combination of angled chippings and a plug.
- Use of decked charges if required in order to reduce the Maximum Instantaneous Charge (MIC) if required.

Do-nothing Scenario

11.120 If the proposed development were not to proceed, the operator would continue to operate within the authorised area of the quarry until a further planning permission was granted.

Unplanned Events

11.121 In the event of an emergency such as a fire to plant or equipment, the emergency response plan will be implemented, and the relative emergency services will be contacted should they be required. In the event of an increase in noise levels associated with plant or vehicle breakdown, an assessment in relation to the cause of the emissions will be undertaken and the activity will not recommence until the problem has been rectified.

Decommissioning

11.122 Noise effects during decommissioning are likely to be of a similar nature to that during the operation of the quarry. Any legislation, guidance or best practice relevant at the time of decommissioning would be complied with.

Monitoring

11.123 Ground vibration monitoring is carried out at for each blast and will continued to be carried out.

11.124 Noise monitoring will continue to be undertaken around the application site. Noise monitoring locations shall be reviewed and revised where and as/when necessary. The results of the noise monitoring shall be submitted to the Galway County Council on a regular basis for review and record purposes.

Residual Impacts

11.125 It is not anticipated that there will be an adverse impact on noise or vibration quality in the vicinity of the application site provided that mitigation measures recommended above and best practice is applied.

Technical Difficulties

11.126 There were no technical difficulties encountered during the study / assessment.

Summary of Effects

11.127 The significance of effects of the proposed development is described in accordance with the EPA guidance document '*Guidelines on the information to be contained in the Environmental Impact Assessment Reports (EIAR), EPA May 2022*'. The details of the methodology for describing the significance of effects are provided in Table 3.4: Section 3.7.3 of the 2022 EPA document. **Table 11.15** gives a summary of effects, using the guidelines given by the EPA.

Table 11-15: Summary of Effects

| | Quality | Significance | Duration |
|--|----------|-----------------|-----------|
| Construction Noise Decommissioning | Negative | Not significant | Temporary |
| Ground Vibration and Air Overpressure | Negative | Not significant | Momentary |
| Operational Noise incl. Cumulative | Negative | Not Significant | Long Term |

Conclusion – Noise and Blast Vibration

11.128 The predicted (and measured) noise levels from the quarry operation are within the existing noise limits and guideline limits as published by the EPA. The predicted noise levels assume that all plant will be operating together at locations closest to receptors which is a scenario that will be extremely rare. **The proposed development will not increase the intensity of the existing operation.**

11.129 Historical vibration and air overpressure monitoring over a number of years demonstrate compliance with statutory limits. To ensure compliance with regulatory limits, monitoring of all blast vibration will be carried out at agreed location / locations. Keeping within the statutory ground vibration limits ensures that the likelihood of damage (or superficial damage) to property approaches zero.

Glossary of Technical Terms

- *Peak Particle Velocity (PPV)* – the maximum rate of change of particle displacement, measured in millimetres per second (mm/sec).
- *Frequency (Hz)* – the number of cycles per second of vibration usually expressed in Hertz (Hz)
- *dB* – Decibel, a unit of measure on a logarithmic scale used to quantify pressure fluctuations such as those associated with air overpressure (concussion wave)
- *dB(A)* – Decibel measured within an A weighted frequency curve that differentiates between sounds of different frequency in a similar way to the human ear
- *Maximum Instantaneous Charge Weight* – The maximum amount of explosives detonated at any one precise instance in time
- *Scaled Distance* – The blast/receiver separation distance divided by the square root of the maximum instantaneous charge weight
- *Blast Ratio* – The amount of work per unit of explosive measured in tonnes of rock per kilogram of explosives detonated
- *Delay Interval* – The time between successive detonations of detonators
- *Sequential Detonation* – The method of control of time intervals between explosions of individual charges
- *Stemming* – The term given to the inert material, typically stone chippings that is placed into the top of a borehole which has already been filled with explosives. The length of stemming should equal the distance between the hole and its associated free face.
- *Burden* – The distance measured at right angles between a row of holes and the free face, or between rows of holes.
- *Shot* – is a borehole complete with primed charge and stemming
- *Bench blasting* - method of blasting in quarries and opencast sites by means of steps or benches with holes positioned parallel to the bench face.
- *Flyrock* - The projection of material from the blast site to any area beyond the designated danger zone.
- *Free face* - A rock surface bounded by air.

Vibration Terminology

- *Particle Velocity (V)* - the particle velocity is defined as the rate of change of amplitude or, for sinusoidal motion this may be mathematically expressed as;
- $V=2\pi fa$
- Where, 'V' represents PPV (mm/sec.), 'f' is the frequency (Hz) and 'a' is the peak particle displacement or amplitude (mm). Particle velocity as the term suggests is the movement of particles within a body or medium.
- Vibration is usually measured in three orthogonal directions: the vertical, horizontal transverse and the horizontal longitudinal (often termed the x, y, z vector components). Vibration waves can be divided into P (primary) waves which are compression wave, S (secondary) waves which are shear waves, Rayleigh waves, Love waves, Stonely waves etc. However, in practice it is very difficult (and not very important) to distinguish between these

waves. In most cases the vertical component is the *body wave* while the *surface waves* are the longitudinal and transverse waves.

- *Peak Vector Sum (PVS)* - the peak vector sum is often referred to as the RPPV (resultant peak particle velocity) and can be mathematically expressed as;
- $$PVS = \sqrt{X^2 + Y^2 + Z^2}$$
- and this is equal to the real time resultant (not the pseudo resultant). You will usually find that in practice the average difference in the peak vector-particle and the PVS is less than 10% at distances in excess of 200 metres^[5].
- *Zero cross frequency (zc)* - zero crossing frequency is the frequency at the peak particle velocity of the recorded wave.

References

- [1] Siskind, D.E., Stagg, M.S., Kopp, J.W. and Dowding C.H., *Structural response and damage produced by ground vibration from surface mine blasting*, United States Bureau of Mines (USBM), Report of Investigations No. RI 8507, 1980. OSMRE –The U.S. Office of Surface Mining (OSM) regulation given by the solid line is a modification of USBM
- [2] DIN 4150: Part 3: 1986, Vibrations in Buildings; Effects on Structures.
- [3] BS 7385: Part 2: 1993 Evaluation and Measurement for Vibration in Buildings,
Part 2. Guide to damage levels from ground borne vibration.
- [4] Dowding, Charles, H. (1996). *Construction Vibrations*, 610 pages, Prentice Hall.
- [5] O'Reilly, B., (2000), Noise and Vibration Monitoring Around an Active Base Metal Mine, M. Phil Thesis, Liverpool University, U.K.
- [6] BS 5228:2009-1A;2014: Code of Practice for Noise and Vibration Control on Open Sites- Part 1: Noise.

Appendix 11.1 – Noise Calibration Certs

Appendix 11.2 – Noise Data April 2018 and Barrier Screening Effects

Appendix 11.3 – Noise Data Oct-Nov 2018 and Photos of Monitors In-Situ

Appendix 11.4 – Noise Data April 2025 and One-Third Octaves for

Appendix 11.5 – One-Third Octave Frequency Oct/Nov 2018 for N1 to N4 incl.

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Appendix 1: Copy of Calibration Certificates 2018 and 2025

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Calibration Certificate

Certificate Number 2017007721

Customer:
Environmental Measurement
Unit 12
Dublin, 24, Ireland

Model Number LxT SE
Serial Number 0005130
Test Results **Pass**
Initial Condition As Manufactured
Description Sound Expert LxT
Class 1 Sound Level Meter
Firmware Revision: 2.301

Procedure Number D0001.8384
Technician Ron Harris
Calibration Date 20 Jul 2017
Calibration Due
Temperature 23.49 °C ± 0.25 °C
Humidity 49.4 %RH ± 2.0 %RH
Static Pressure 86.55 kPa ± 0.13 kPa

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L, S/N 042861
PCB 377B02, S/N 174104
Larson Davis CAL200, S/N 9079
Larson Davis CAL291, S/N 0203

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

| | |
|------------------------|----------------------------|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

Larson Davis, a division of PCB Piezotronics, Inc
1681 West 820 North
Provo, UT 84601, United States



Calibration Certificate

Certificate Number 2017007695

Customer:

Environmental Measurement

Unit 12

Dublin, 24, Ireland

RECEIVED: 27/08/2025

| | | | |
|--------------------------|---|-------------------------|----------------------|
| Model Number | LxT SE | Procedure Number | D0001.8378 |
| Serial Number | 0005131 | Technician | Ron Harris |
| Test Results | Pass | Calibration Date | 20 Jul 2017 |
| Initial Condition | As Manufactured | Calibration Due | |
| Description | Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.301 | Temperature | 23.54 °C ± 0.25 °C |
| | | Humidity | 51.2 %RH ± 2.0 %RH |
| | | Static Pressure | 86.47 kPa ± 0.13 kPa |

Evaluation Method Tested electrically using Larson Davis PRMLxT1L S/N 042862 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 23.6 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

| | |
|------------------------|----------------------------|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert LxT, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Larson Davis, a division of PCB Piezotronics, Inc

11 West 820 North
Bozeman, UT 84601, United States



LARSON DAVIS
A PCB PIEZOTRONICS DIVISION

Calibration Certificate

Certificate Number 2017007701

Customer:
Environmental Measurement
Unit 12
Dublin, 24, Ireland

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| | | | |
|--------------------------|---|-------------------------|----------------------|
| Model Number | LxT SE | Procedure Number | D0001.8378 |
| Serial Number | 0005132 | Technician | Ron Harris |
| Test Results | Pass | Calibration Date | 20 Jul 2017 |
| Initial Condition | As Manufactured | Calibration Due | |
| Description | Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.301 | Temperature | 23.63 °C ± 0.25 °C |
| | | Humidity | 51.3 %RH ± 2.0 %RH |
| | | Static Pressure | 86.51 kPa ± 0.13 kPa |

Evaluation Method Tested electrically using Larson Davis PRMLxT1L S/N 042863 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 23.6 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

| | |
|------------------------|----------------------------|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert LxT, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Larson Davis, a division of PCB Piezotronics, Inc
1100 West 820 North
Bluffton, UT 84601, United States
684.0001



Calibration Certificate

Certificate Number 2017007719

Customer:

Environmental Measurement
Unit 12
Dublin, 24, Ireland

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| | | | |
|--------------------------|---|-------------------------|----------------------|
| Model Number | LxT SE | Procedure Number | D0001.8384 |
| Serial Number | 0005133 | Technician | Ron Harris |
| Test Results | Pass | Calibration Date | 20 Jul 2017 |
| Initial Condition | As Manufactured | Calibration Due | |
| Description | Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.301 | Temperature | 23.51 °C ± 0.25 °C |
| | | Humidity | 50 %RH ± 2.0 %RH |
| | | Static Pressure | 86.54 kPa ± 0.13 kPa |

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L, S/N 042864
PCB 377B02, S/N 174133
Larson Davis CAL200, S/N 9079
Larson Davis CAL291, S/N 0203

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

| | |
|------------------------|----------------------------|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert LxT, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

Larson Davis, a division of PCB Piezotronics, Inc
1681 West 820 North
Provo, UT 84601, United States
716-684-0001



LARSON DAVIS
A PCB PIEZOTRONICS DIV.

Certificate of Calibration



Certificate Number: 30216

Sound Level Meter Larson Davis Model 812

Client: Environmental Measurements
Unit 12, Tallaght Business Centre
Whitestown Business Park
Co.Dublin 24, Ireland

Instrument Make: Larson Davis
Instrument Model: 812
Serial Number: 0722

Microphone Make: PCB
Microphone Model: 377B02
Serial Number: 107548

Preamplifier Make: Larson Davis
Preamplifier Model: PRM828
Serial Number: 2337

Calibrator Make:
Calibrator Model:
Calibrator Serial Number:
Calibrator Adaptor:
Calibrator Certification Ref:

Extension Cable: not supplied

This is to certify that the above instrument was calibrated according to MTS Calibration Ltd. Measurement Procedures and was found to comply as summarised below. The measurements were carried out using the Test Equipment listed below, all of whose calibrations are traceable to UK National Standards. The management controls of MTS Calibration Ltd. are registered in its current Quality Manual, and are designed to be in compliance with BS EN ISO/IEC 17025: 2005. Copies of the relevant certificates, test procedures and test results, together with the traceability of test equipment are filed with MTS Calibration Ltd. and extracts are available on request.

This instrument was tested in accordance with the recommendations of BS 7580: Part 1 1997 (not all tests were performed) with the following results:

| | <i>Manufacturer's Specification</i> | <i>BS EN 60651 Type 1</i> |
|--|-------------------------------------|---|
| Self-Generated Noise: | Complies | no specification – measured 14.9 dB(A) |
| Dynamic Linearity – electrical response: | Complies | Complies between 20.8 and 126.5 dB(A) |
| Frequency Weighting A - electrical response: | Complies | Complies |
| Frequency Weighting A - acoustic response: | Complies | Complies |
| Frequency Weighting C - electrical response: | Complies | Complies |
| Crest Factor: | Complies | Complies |
| Burst (RMS accuracy): | Fails | Complies |
| Time Weightings F, S, I (Detector): | Complies | Complies |
| Microphone Response: | Complies | Complies (assessed as overall acoustic specification) |

Calibrated at 114.12 dB re 20 μ Pa, 250 Hz – calibration offset = 6.9 dB
Polarisation Voltage 0 V

Test Equipment:

| Equipment | Manufacturer | Model | Serial No. | Traceability Ref. | Cal. Due |
|------------------------------|-----------------|--------|------------|-------------------|----------------|
| Condenser Microphone | Larson Davis | 2541 | 7300 | TE 157 | October 2017 |
| Acoustic Calibrator 250Hz | Larson Davis | CAL250 | 4483 | TE 116 | September 2018 |
| Real-Time Frequency Analyser | Larson Davis | 2900 | 0492 | TE 108 | November 2017 |
| Signal Generator | Hewlett Packard | 33120A | US36016577 | TE 111 | June 2017 |
| Digital Multimeter | Hewlett Packard | 34401A | 3146A63804 | TE 105 | June 2017 |

Date of Receipt: 21st April 2017
Date of Calibration: 24th & 25th April 2017
Date of Certificate: 25th April 2017

Authorised Signatory

Stuart Cowling

RECEIVED: 27/08/2025



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Billingham TS23 1LG,
England
Telephone: 01642 876 410

CERTIFICATE OF CALIBRATION

Page 1 of 11 pages

Issued by: **MTS Calibration Ltd**

Approved Signatory:

Tony Sherris

Date of Issue: 25 October 2023 Certificate Number: 38900

Sound Level Meter

Sound Level Meter Periodic Tests to EN 61672-3: 2013 Class 1

Client: Brendan O'Reilly

Instrument Make: Larson Davis

Instrument Model: LxT1L

Serial Number: 0004647

9

Associated Equipment

| | Make | Model | Serial number |
|------------------------|--------------------------|----------|---------------|
| Preamplifier | Larson Davis | PRMLxT1L | 055806 |
| Microphone | PCB | 377B02 | 316352 |
| Calibrator | Larson Davis | CAL200 | 9175 |
| Calibrator supplied by | MTS for this calibration | | |

The measurements were performed at The Grange Business Centre, Belasis Avenue, TS23 1LD. The results only apply to the items tested.

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 Class 1

Test results summary, detailed results are shown on subsequent pages.

| Tests performed | Section | Results of test | Page | Comments |
|---------------------------------------|---------|-----------------|------|------------------------|
| Calibration Certificate | 22 | | 1 | |
| Additional information | | | 2 | |
| Indication with Calibrator Supplied | 10 | No Limit | 3 | |
| Self-Generated Noise | 11 | No Limit | 3 | |
| Frequency and Time-weightings at 1kHz | 14 | Complies | 3 | |
| Long term stability | 15 | Complies | 3 | |
| High stability | 21 | Complies | 3 | |
| Acoustic Tests | 12 | Complies | 4 | |
| Frequency Weighting A | 13 | Complies | 5 | |
| Frequency Weighting C | 13 | Complies | 6 | |
| Frequency Weighting Z | 13 | Complies | 7 | |
| Level Linearity | 16 | Complies | 8 | |
| Level Linearity Range Control | 17 | | n/a | SLM only has one range |
| Tone-burst Response | 18 | Complies | 9 | |
| Peak C sound level | 19 | Complies | 10 | |
| Overload indication | 20 | Complies | 11 | |

The instrument was within the above specification as received - no modifications were made

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3: 2013 for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2: 2013, to demonstrate that the model of sound level meter fully conformed to the Class 1 specifications in IEC 61672-1: 2013, the sound level meter submitted for testing conforms to the Class 1 specifications of IEC 61672-1: 2013

Additional tests performed

Microphone full frequency response
Filter calibration, first octave or octave

Reference

38902
38903F

See additional certificate
See additional certificate



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CERTIFICATE OF CALIBRATION

Page 1 of 11 pages

Issued by: **MTS Calibration Ltd**

Approved Signatory:

Date of Issue: 03 August 2023 Certificate Number: 38651

Tony Sherris

Sound Level Meter

Sound Level Meter Periodic Tests to EN 61672-3: 2013 Class 1

Client: Brendan O'Reilly

Instrument Make: Larson Davis

Instrument Model: LxT1L

Serial Number: 0004570

MIC 8

| Associated Equipment | Make | Model | Serial number |
|------------------------|--------------------------|----------|---------------|
| Preamplifier | Larson Davis | PRMLxT1L | 042742 |
| Microphone | PCB | 377B02 | 113026 |
| Calibrator | Larson Davis | CAL200 | 9175 |
| Calibrator supplied by | MTS for this calibration | | |

The measurements were performed at The Grange Business Centre, Belasis Avenue, TS23 1LD. The results only apply to the items tested.

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 Class 1

Test results summary, detailed results are shown on subsequent pages.

| Tests performed | Section | Results of test | Page | Comments |
|---------------------------------------|---------|-----------------|------|------------------------|
| Calibration Certificate | 22 | | 1 | |
| Additional information | | | 2 | |
| Indication with Calibrator Supplied | 10 | No Limit | 3 | |
| Self-Generated Noise | 11 | No Limit | 3 | |
| Frequency and Time-weightings at 1kHz | 14 | Complies | 3 | |
| Long term stability | 15 | Complies | 3 | |
| High stability | 21 | Complies | 3 | |
| Acoustic Tests | 12 | Complies | 4 | |
| Frequency Weighting A | 13 | Complies | 5 | |
| Frequency Weighting C | 13 | Complies | 6 | |
| Frequency Weighting Z | 13 | Complies | 7 | |
| Level Linearity | 16 | Complies | 8 | |
| Level Linearity Range Control | 17 | n/a | | SLM only has one range |
| Tone-burst Response | 18 | Complies | 9 | |
| Peak C sound level | 19 | Complies | 10 | |
| Overload indication | 20 | Complies | 11 | |

The instrument was within the above specification as received - no modifications were made

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3: 2013 for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2: 2013, to demonstrate that the model of sound level meter fully conformed to the Class 1 specifications in IEC 61672-1: 2013, the sound level meter submitted for testing conforms to the Class 1 specifications of IEC 61672-1: 2013

Additional tests performed

| | Reference | |
|--|-----------|----------------------------|
| Microphone full frequency response | 38651 | See additional certificate |
| Filter calibration, third octave or octave | 38651F | See additional certificate |

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CERTIFICATE OF CALIBRATION

Page 1 of 11 pages

Issued by: **MTS Calibration Ltd**

Approved Signatory:

Date of Issue: 07 March 2023 Certificate Number: 38162

Tony Sherris

Sound Level Meter

Sound Level Meter Periodic Tests to EN 61672-3: 2013 Class 1

Client: Brendan O'Reilly

Instrument Make: Larson Davis

Instrument Model: LxT1

Serial Number: 0004643

10

| Associated Equipment | Make | Model | Serial number |
|------------------------|--------------------------|----------|---------------|
| Preamplifier | PCB | PRMLxT1L | 065027 |
| Microphone | PCB | 377B02 | 105882 |
| Calibrator | Larson Davis | CAL200 | 9175 |
| Calibrator supplied by | the Client, with the SLM | | |

The measurements were performed at The Grange Business Centre, Belasis Avenue, TS23 1LD. The results only apply to the items tested.

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 Class 1

Test results summary, detailed results are shown on subsequent pages.

| Tests performed | Section | Results of test | Page | Comments |
|---------------------------------------|---------|-----------------|------|------------------------|
| Calibration Certificate | 22 | | 1 | |
| Additional Information | | | 2 | |
| Indication with Calibrator Supplied | 10 | No Limit | 3 | |
| Self-Generated Noise | 11 | No Limit | 3 | |
| Frequency and Time-weightings at 1kHz | 14 | Complies | 3 | |
| Long term stability | 15 | Complies | 3 | |
| High stability | 21 | Complies | 3 | |
| Acoustic Tests | 12 | Complies | 4 | |
| Frequency Weighting A | 13 | Complies | 5 | |
| Frequency Weighting C | 13 | Complies | 6 | |
| Frequency Weighting Z | 13 | Complies | 7 | |
| Level Linearity | 16 | Complies | 8 | |
| Level Linearity Range Control | 17 | n/a | n/a | SLM only has one range |
| Tone-burst Response | 18 | Complies | 9 | |
| Peak C sound level | 19 | Complies | 10 | |
| Overload Indication | 20 | Complies | 11 | |

The instrument was within the above specification as received - no modifications were made

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3: 2013 for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2: 2013, to demonstrate that the model of sound level meter fully conformed to the Class 1 specifications in IEC 61672-1: 2013, the sound level meter submitted for testing conforms to the Class 1 specifications of IEC 61672-1: 2013

Additional tests performed

| Additional tests performed | Reference | |
|--|-----------|----------------------------|
| Microphone full frequency response | 38164 | See additional certificate |
| Filter calibration, third octave or octave | 38162F | See additional certificate |

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CERTIFICATE OF CALIBRATION

Page 1 of 11 pages

Issued by: **MTS Calibration Ltd**

Approved Signatory:

Date of Issue: 02 August 2023 Certificate Number: 38648

Tony Sherris

Sound Level Meter

Sound Level Meter Periodic Tests to EN 61672-3: 2013 Class 1

Client: Brendan O'Reilly

Instrument Make: Larson Davis

Instrument Model: LxT1L

Serial Number: 0005660

1

| Associated Equipment | Make | Model | Serial number |
|------------------------|--------------------------|----------|---------------|
| Preamplifier | Larson Davis | PRMLxT1L | 055684 |
| Microphone | PCB | 377B02 | 305875 |
| Calibrator | Larson Davis | CAL200 | 9175 |
| Calibrator supplied by | MTS for this calibration | | |

The measurements were performed at The Grange Business Centre, Belasis Avenue, TS23 1LD. The results only apply to the items tested.

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 Class 1

Test results summary, detailed results are shown on subsequent pages.

| Tests performed | Section | Results of test | Page | Comments |
|---------------------------------------|---------|-----------------|------|------------------------|
| Calibration Certificate | 22 | | 1 | |
| Additional information | | | 2 | |
| Indication with Calibrator Supplied | 10 | No Limit | 3 | |
| Self-Generated Noise | 11 | No Limit | 3 | |
| Frequency and Time-weightings at 1kHz | 14 | Complies | 3 | |
| Long term stability | 15 | Complies | 3 | |
| High stability | 21 | Complies | 3 | |
| Acoustic Tests | 12 | Complies | 4 | |
| Frequency Weighting A | 13 | Complies | 5 | |
| Frequency Weighting C | 13 | Complies | 6 | |
| Frequency Weighting Z | 13 | Complies | 7 | |
| Level Linearity | 16 | Complies | 8 | |
| Level Linearity Range Control | 17 | | n/a | SLM only has one range |
| Tone-burst Response | 18 | Complies | 9 | |
| Peak C sound level | 19 | Complies | 10 | |
| Overload Indication | 20 | Complies | 11 | |

The instrument was within the above specification as received - no modifications were made

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3: 2013 for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2: 2013, to demonstrate that the model of sound level meter fully conformed to the Class 1 specifications in IEC 61672-1: 2013, the sound level meter submitted for testing conforms to the Class 1 specifications of IEC 61672-1: 2013

Additional tests performed

| | Reference | |
|--|-----------|----------------------------|
| Microphone full frequency response | 38650 | See additional certificate |
| Filter calibration, third octave or octave | 38548F | See additional certificate |

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Page 1 of 11 pages

Issued by: MTS Calibration Ltd

Approved Signatory:

Date of issue: 08 March 2023 Certificate Number: 38149

RA Sherris

Tony Sherris

Sound Level Meter

Sound Level Meter Periodic Tests to EN 61672-3: 2013 Class 1

Client: Brendan Oreilly

Instrument Make: Larson Davis
Instrument Model: LxT1L
Serial Number: 0005992

6

| Associated Equipment | Make | Model | Serial number |
|------------------------|--------------------------|----------|---------------|
| Preamplifier | PCB | PRMLxT1L | 028029 |
| Microphone | PCB | 377B02 | 147913 |
| Calibrator | Larson Davis | CAL200 | 18140 |
| Calibrator supplied by | the Client, with the SLM | | |

The measurements were performed at The Grange Business Centre, Belasis Avenue, TS23 1LD. The results only apply to the items tested.

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 Class 1

Test results summary, detailed results are shown on subsequent pages.

| Tests performed | Section | Results of test | Page | Comments |
|---------------------------------------|---------|-----------------|------|------------------------|
| Calibration Certificate | 22 | | 1 | |
| Additional information | | | 2 | |
| Indication with Calibrator Supplied | 10 | No Limit | 3 | |
| Self-Generated Noise | 11 | No Limit | 3 | |
| Frequency and Time-weightings at 1kHz | 14 | Complies | 3 | |
| Long term stability | 15 | Complies | 3 | |
| High stability | 21 | Complies | 3 | |
| Acoustic Tests | 12 | Complies | 4 | |
| Frequency Weighting A | 13 | Complies | 5 | |
| Frequency Weighting C | 13 | Complies | 6 | |
| Frequency Weighting Z | 13 | Complies | 7 | |
| Level Linearity | 16 | Complies | 8 | |
| Level Linearity Range Control | 17 | | n/a | SLM only has one range |
| Tone-burst Response | 18 | Complies | 9 | |
| Peak C sound level | 19 | Complies | 10 | |
| Overload indication | 20 | Complies | 11 | |

The instrument was within the above specification as received - no modifications were made

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3: 2013 for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2: 2013, to demonstrate that the model of sound level meter fully conformed to the Class 1 specifications in IEC 61672-1: 2013, the sound level meter submitted for testing conforms to the Class 1 specifications of IEC 61672-1: 2013

Additional tests performed

| | Reference | |
|--|-----------|---------------------------------|
| Microphone full frequency response | 38151 | See additional certificate |
| Filter calibration, third octave or octave | 38149F | See additional certificate |
| Calibrator calibration | 38152U | See additional UKAS certificate |

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0607

CERTIFICATE OF CALIBRATION

Page 1 of 1

Issued by: **MTS Calibration Ltd**

Performed by: **Nick Box**

Date of Issue: **13 February 2025** Certificate Number: **40483U**

Approved Signatory:

RA Sherris

Tony Sherris

Sound Calibrator

Client: **Environmental Measurements** **Brendan O'Reilly**
Unit 12, Tallaght Business Centre
Whitestown Business Park
Co.Dublin 24, Ireland

The Device calibrated was:

Larson Davis **Model CAL200** **Serial Number 18140**

The measurements were performed at Elvington Close, Billingham, TS23 1JYS and the measured values were as follows:

| | | |
|------------------------------|--------------------|---------------------|
| Output Level 1: | 94.04 dB re 20µPa | ± 0.12 dB (k= 2) |
| Fundamental Frequency 1: | 1000.02 Hz | ± 0.11 Hz (k= 2.05) |
| Total Harmonic Distortion 1: | 0.38 % | ± 0.011 % (k= 2) |
| Output Level 2: | 114.09 dB re 20µPa | ± 0.12 dB (k= 2) |
| Fundamental Frequency 2: | 1000.02 Hz | ± 0.11 Hz (k= 2) |
| Total Harmonic Distortion 2: | 0.50 % | ± 0.011 % (k= 2) |

This measurement is valid only for the above device configured for calibration of a WS-2 microphone under the stated environmental conditions. For deviation of prevailing conditions, the manufacturer's literature for the calibrator should be referred to.

Date of Measurements: **12 February 2025**

Date of Receipt: **11 February 2025**

Method of calibration

MTS Calibration Ltd work procedure WP01 issue U3-1

A Reference Calibrator was used to establish the sensitivity of the measurement chain. The same measurement chain is then used to determine the output level of the Object Calibrator by the difference between its output and that of the nominated Reference Calibrator. Four independent measurements of the third-octave band sound pressure levels produced by the Reference Calibrators and the Object Calibrator are averaged to minimise uncertainties of the calibration. The measurement chain consists of a calibrated, Reference Microphone, Reference Preamplifier and Reference Analyser.

As well as providing a traceable measurement of the sound pressure level in the cavity of the Object Calibrator, the Calibrator's frequency and total harmonic distortion are also measured. Frequency is determined from the average of four independent measurements using a multimeter. The total harmonic distortion is measured from the average of three independent measurements by third octave analysis, subtracting the level of the fundamental frequency from the sum of the combined harmonics in the frequency band to 20kHz. The complete procedure is detailed in the MTS Calibration Ltd work procedure WP01.

The sound pressure level generated by the calibrator in its WS2 configuration was measured by reference to the reference Sound Calibrator as shown in the Test Equipment section below.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k (individually calculated as above), providing a coverage probability of approximately 95%. The uncertainty evaluation has been calculated in accordance with the current version of UKAS publication M3003. The uncertainty quoted for the Distortion Measurement is the Distortion Percentage as measured, multiplied by our Uncertainty as calculated for the individual measurement or our CMC, whichever is the larger.

Measurement Conditions:

| | | |
|----------------------|-------------|----------|
| Temperature | 22.7 °C | ± 1 °C |
| Atmospheric Pressure | 1023.6 mBar | ± 2 mBar |
| Relative Humidity | 33.7 % | ± 5 % |

Test Equipment used during this calibration:

| Equipment | Manufacturer | Model | Serial No. | Traceability Ref. | Calibration Due |
|----------------------------|--------------|--------|-------------|-------------------|-----------------|
| Reference Calibrator | Brüel & Kjær | 4231 | 2343058 | TE 132 | Jun-26 |
| Multimeter | HP | 34401A | 36146A63804 | TE 105 | Jan-26 |
| Microphone | B&K | 4133 | 810486 | TE 155 | Oct-25 |
| Real-Time Analyser (set 1) | Larson Davis | 2900 | 0492 | TE 108 | Sep-25 |

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End of Certificate

Appendix 11.2 – Noise Data April 2018 and Screening Effects

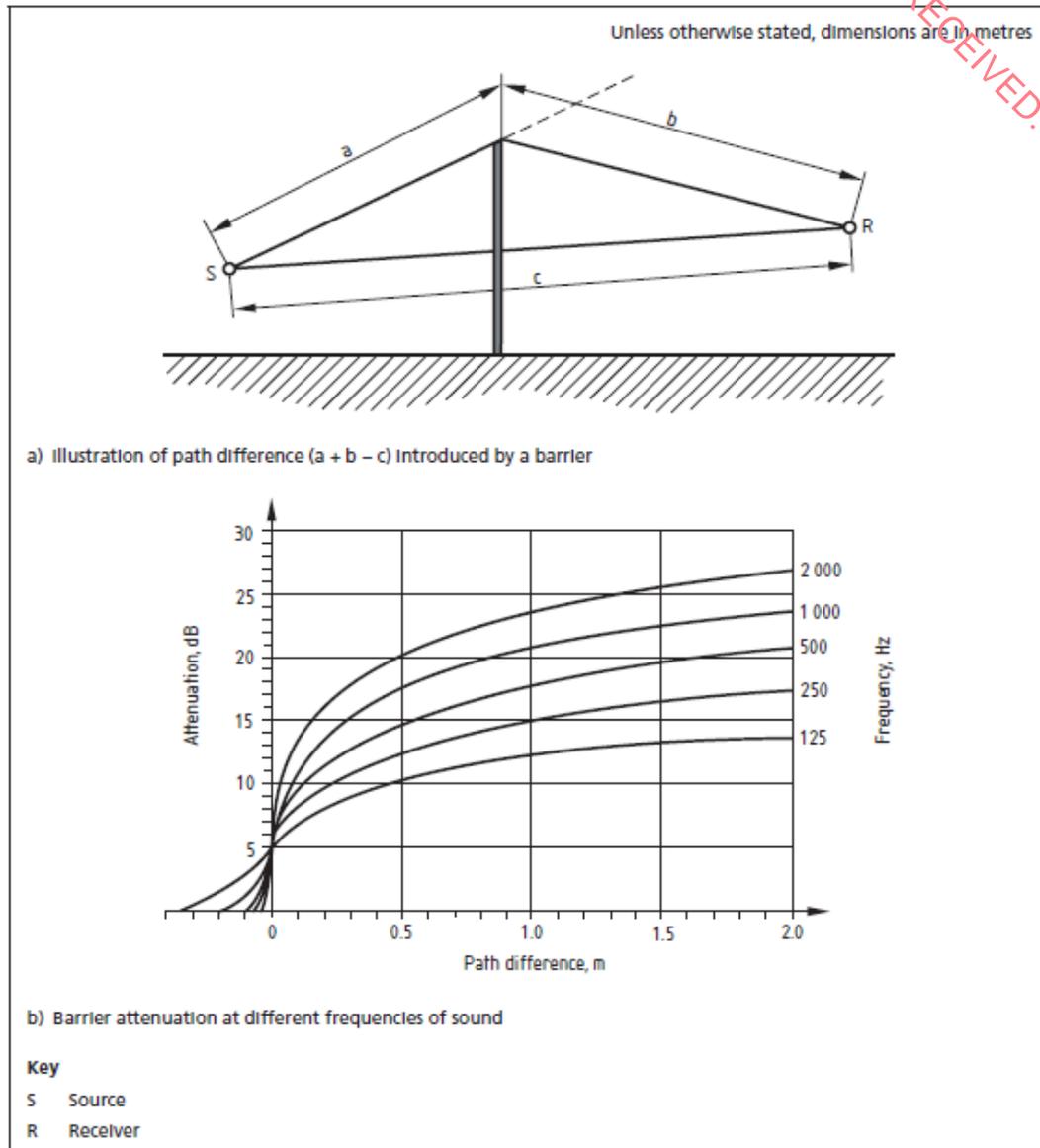
| Location N1 | | | | | | | | | | |
|-------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 |
| 2018-04-24 | 13:30:00 | 00:30:00.0 | 49.2 | 41.8 | 59.5 | 52.0 | 51.1 | 49.5 | 48.6 | 46.0 |
| 2018-04-24 | 14:00:00 | 00:30:00.0 | 50.0 | 42.1 | 61.9 | 53.5 | 51.6 | 49.6 | 48.8 | 46.1 |
| 2018-04-24 | 14:30:00 | 00:30:00.0 | 49.6 | 41.2 | 58.5 | 52.8 | 52.0 | 50.1 | 49.1 | 46.0 |
| 2018-04-24 | 15:00:00 | 00:30:00.0 | 49.2 | 42.1 | 60.0 | 51.9 | 51.1 | 49.4 | 48.7 | 46.2 |
| 2018-04-24 | 15:30:00 | 00:30:00.0 | 48.8 | 41.7 | 56.5 | 51.9 | 51.1 | 49.3 | 48.3 | 45.5 |
| | | | 49.3 | 41.8 | 59.3 | 52.4 | 51.4 | 49.6 | 48.7 | 46.0 |
| | | | | | | | | | | |
| 2018-04-24 | 16:30:00 | 00:30:00.0 | 45.8 | 35.5 | 60.5 | 49.9 | 48.7 | 45.8 | 44.5 | 40.8 |
| 2018-04-24 | 17:00:00 | 00:30:00.0 | 48.9 | 38.2 | 61.6 | 52.9 | 51.7 | 49.0 | 47.7 | 43.8 |
| 2018-04-24 | 17:30:00 | 00:30:00.0 | 46.2 | 34.7 | 57.7 | 50.4 | 49.2 | 46.3 | 45.0 | 41.6 |
| | | | 47.0 | 36.1 | 59.9 | 51.1 | 49.9 | 47.0 | 45.8 | 42.1 |

| Location 2 | | | | | | | | | | |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 |
| 2018-04-24 | 13:30:00 | 00:30:00.0 | 48.1 | 39.9 | 54.7 | 50.1 | 49.3 | 47.5 | 46.5 | 44.0 |
| 2018-04-24 | 14:00:00 | 00:30:00.0 | 49.0 | 40.6 | 56.7 | 50.8 | 50.0 | 48.2 | 47.3 | 45.0 |
| 2018-04-24 | 14:30:00 | 00:30:00.0 | 50.9 | 39.1 | 61.2 | 54.1 | 52.8 | 49.9 | 48.5 | 44.4 |
| 2018-04-24 | 15:00:00 | 00:30:00.0 | 50.8 | 36.8 | 61.2 | 54.0 | 53.1 | 50.0 | 48.6 | 43.8 |
| 2018-04-24 | 15:30:00 | 00:30:00.0 | 49.8 | 39.0 | 57.8 | 52.1 | 51.2 | 49.2 | 48.1 | 44.9 |
| | | | 49.7 | 39.1 | 58.3 | 52.2 | 51.3 | 49.0 | 47.8 | 44.4 |
| | | | | | | | | | | |
| 2018-04-24 | 16:30:00 | 00:30:00.0 | 47.2 | 35.1 | 63.0 | 48.9 | 47.4 | 44.2 | 43.0 | 39.3 |
| 2018-04-24 | 17:00:00 | 00:30:00.0 | 46.3 | 35.2 | 57.5 | 47.8 | 46.8 | 43.9 | 42.4 | 38.2 |
| 2018-04-24 | 17:30:00 | 00:30:00.0 | 47.0 | 33.9 | 54.5 | 48.2 | 47.4 | 44.9 | 43.4 | 39.1 |
| | | | 46.8 | 34.7 | 58.3 | 48.3 | 47.2 | 44.3 | 42.9 | 38.9 |

| Location N3 | | | | | | | | | | | |
|-------------|----------|------------|------|--------|--------|------|------|-------|-------|-------|-------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF1 | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 |
| 2018-04-24 | 13:30:00 | 00:30:00.0 | 49.9 | 38.6 | 71.1 | 55.6 | 52.2 | 51.3 | 49.3 | 48.0 | 42.2 |
| 2018-04-24 | 14:00:00 | 00:30:00.0 | 49.2 | 43.2 | 68.9 | 53.3 | 51.7 | 50.9 | 49.2 | 48.3 | 46.2 |
| 2018-04-24 | 14:30:00 | 00:30:00.0 | 50.7 | 43.4 | 76.2 | 55.2 | 52.5 | 51.6 | 49.9 | 49.1 | 46.7 |
| 2018-04-24 | 15:00:00 | 00:30:00.0 | 49.8 | 43.1 | 63.5 | 57.7 | 52.4 | 51.5 | 49.7 | 48.8 | 46.3 |
| 2018-04-24 | 15:30:00 | 00:30:00.0 | 49.3 | 43.4 | 68.3 | 55.3 | 51.4 | 50.6 | 49.0 | 48.2 | 46.2 |
| | | | 49.8 | 42.4 | 69.6 | 55.4 | 52.0 | 51.2 | 49.4 | 48.5 | 45.5 |
| | | | | | | | | | | | |
| 2018-04-24 | 16:30:00 | 00:30:00.0 | 45.5 | 35.8 | 67.5 | 53.1 | 49.6 | 47.7 | 44.3 | 42.7 | 38.9 |
| 2018-04-24 | 17:00:00 | 00:30:00.0 | 47.2 | 30.9 | 70.2 | 56.3 | 50.5 | 49.0 | 44.7 | 43.0 | 36.9 |
| 2018-04-24 | 17:30:00 | 00:30:00.0 | 44.9 | 29.7 | 72.7 | 57.6 | 48.5 | 44.4 | 39.6 | 38.0 | 33.6 |
| | | | 45.9 | 32.1 | 70.1 | 55.7 | 49.5 | 47.0 | 42.9 | 41.2 | 36.5 |

| Location N4 | | | | | | | | | | |
|-------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 |
| 2018-04-24 | 14:00:00 | 00:30:00.0 | 51.0 | 42.3 | 64.9 | 55.0 | 53.4 | 50.8 | 49.7 | 46.8 |
| 2018-04-24 | 14:30:00 | 00:30:00.0 | 50.8 | 43.3 | 63.1 | 54.2 | 53.2 | 51.0 | 50.0 | 47.4 |
| 2018-04-24 | 15:00:00 | 00:30:00.0 | 51.9 | 44.4 | 65.9 | 55.3 | 54.2 | 51.9 | 50.9 | 48.0 |
| 2018-04-24 | 15:30:00 | 00:30:00.0 | 51.3 | 43.0 | 67.2 | 55.3 | 53.9 | 51.3 | 50.1 | 46.9 |
| | | | 51.3 | 43.2 | 65.3 | 54.9 | 53.7 | 51.3 | 50.2 | 47.3 |
| 2018-04-24 | 16:30:00 | 00:30:00.0 | 49.8 | 39.0 | 67.1 | 54.7 | 53.2 | 49.1 | 47.1 | 43.2 |
| 2018-04-24 | 17:00:00 | 00:30:00.0 | 53.7 | 38.9 | 69.1 | 59.3 | 57.5 | 52.9 | 50.6 | 44.9 |
| 2018-04-24 | 17:30:00 | 00:30:00.0 | 52.5 | 35.9 | 67.5 | 58.0 | 56.2 | 51.8 | 49.7 | 43.6 |
| 2018-04-24 | 18:00:00 | 00:30:00.0 | 52.6 | 32.9 | 67.0 | 58.4 | 56.2 | 51.4 | 48.9 | 41.5 |
| 2018-04-24 | 18:30:00 | 00:30:00.0 | 51.4 | 31.6 | 69.5 | 57.1 | 55.4 | 50.4 | 47.9 | 40.6 |
| | | | 52.0 | 35.7 | 68.0 | 57.5 | 55.7 | 51.1 | 48.8 | 42.8 |

Figure F.3 Screening effect of barriers



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F.2.2.2.2 Distance adjustment

For propagation over hard ground, $K = K_h$. For propagation over 100% soft ground, $K = K_s$, providing that the source is operating at ground level and the receiver is no more than 2.5 m above the ground. If either the source or receiver is more than 2.5 m above the ground, the additional attenuation offered by soft ground needs to be reduced until at 15 m its value is the same as that at hard ground.

Appendix 11.3:Noise data Nov/Dec 2018 and Photos of Monitors In-situ

| Table 1 | | | Locn N1 | | | | | | | | | | | |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|----------|-----------------|--|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Plant Status | |
| 2018-10-30 | 11:51:52 | 00:08:07.7 | 56.1 | 48.5 | 83.8 | 56.2 | 55.2 | 52.6 | 50.5 | | | | | |
| 2018-10-30 | 12:00:00 | 01:00:00.0 | 51.8 | 39.5 | 72.7 | 54.9 | 53.7 | 50.8 | 46.8 | 0.2 | 3.0 | Tuesday | Plant on | |
| 2018-10-30 | 13:00:00 | 01:00:00.0 | 48.0 | 38.5 | 64.5 | 51.7 | 50.4 | 46.4 | 43.0 | 0.0 | 2.5 | Tuesday | Plant on | |
| 2018-10-30 | 14:00:00 | 01:00:00.0 | 51.5 | 42.6 | 84.4 | 53.3 | 52.2 | 49.6 | 47.3 | 0.2 | 2.0 | Tuesday | Plant on | |
| 2018-10-30 | 15:00:00 | 01:00:00.0 | 50.3 | 43.1 | 64.1 | 53.1 | 52.3 | 50.0 | 46.2 | 0.0 | 1.5 | Tuesday | Plant on | |
| 2018-10-30 | 16:00:00 | 01:00:00.0 | 46.2 | 37.2 | 64.7 | 49.5 | 48.2 | 45.2 | 42.5 | 0.4 | 1.5 | Tuesday | Plant on | |
| 2018-10-30 | 17:00:00 | 01:00:00.0 | 46.9 | 38.4 | 77.5 | 49.0 | 47.9 | 44.9 | 42.2 | 0.2 | 1.5 | Tuesday | Plant off | |
| 2018-10-30 | 18:00:00 | 01:00:00.0 | 45.7 | 38.1 | 52.7 | 48.8 | 48.0 | 45.1 | 42.4 | 0.0 | 1.5 | Tuesday | Plant off | |
| 2018-10-30 | 19:00:00 | 01:00:00.0 | 45.0 | 34.6 | 54.0 | 48.3 | 47.5 | 44.4 | 41.1 | 0.0 | 1.0 | Tuesday | Plant off | |
| 2018-10-30 | 20:00:00 | 01:00:00.0 | 44.5 | 28.2 | 54.2 | 48.5 | 47.4 | 43.6 | 38.8 | 0.0 | 2.0 | Tuesday | Plant off | |
| 2018-10-30 | 21:00:00 | 01:00:00.0 | 43.0 | 28.8 | 56.7 | 46.9 | 45.8 | 41.9 | 37.3 | 0.0 | 1.5 | Tuesday | Plant off | |
| 2018-10-30 | 22:00:00 | 01:00:00.0 | 41.9 | 24.9 | 56.6 | 46.4 | 45.0 | 40.2 | 35.1 | 0.0 | 2.0 | Tuesday | Plant off | |
| 2018-10-30 | 23:00:00 | 01:00:00.0 | 41.6 | 22.5 | 57.2 | 46.1 | 44.9 | 40.1 | 32.7 | 0.0 | 2.0 | Tuesday | Plant off | |
| 2018-10-31 | 00:00:00 | 01:00:00.0 | 38.5 | 20.5 | 59.1 | 43.6 | 42.1 | 36.4 | 27.3 | 0.0 | 1.5 | Wednes | Plant off | |
| 2018-10-31 | 01:00:00 | 01:00:00.0 | 40.5 | 20.1 | 57.8 | 46.1 | 44.3 | 37.0 | 28.7 | 0.0 | 1.5 | Wednesd | Plant off | |
| 2018-10-31 | 02:00:00 | 01:00:00.0 | 41.4 | 20.7 | 60.8 | 46.8 | 44.5 | 36.5 | 28.9 | 0.0 | 1.0 | Wednesd | Plant off | |
| 2018-10-31 | 03:00:00 | 01:00:00.0 | 40.5 | 20.9 | 60.4 | 45.9 | 43.3 | 35.5 | 27.9 | 0.0 | 2.0 | Wednesd | Plant off | |
| 2018-10-31 | 04:00:00 | 01:00:00.0 | 39.3 | 22.7 | 57.9 | 44.6 | 42.8 | 36.2 | 29.8 | 0.0 | 1.5 | Wednesd | Plant off | |
| 2018-10-31 | 05:00:00 | 01:00:00.0 | 42.9 | 24.0 | 62.9 | 47.5 | 45.6 | 40.9 | 35.2 | 0.6 | 3.0 | Wednesd | Plant off | |
| 2018-10-31 | 06:00:00 | 01:00:00.0 | 46.3 | 35.9 | 60.8 | 49.6 | 48.6 | 45.7 | 42.1 | 0.4 | 2.5 | Wednesd | Plant off | |
| 2018-10-31 | 07:00:00 | 01:00:00.0 | 50.6 | 41.5 | 63.9 | 53.6 | 52.8 | 50.0 | 47.3 | 0.4 | 3.0 | Wednesd | Plant off | |
| 2018-10-31 | 08:00:00 | 01:00:00.0 | 50.8 | 44.3 | 61.7 | 53.6 | 52.9 | 50.3 | 47.8 | 0.7 | 3.5 | Wednesd | Plant on | |
| 2018-10-31 | 09:00:00 | 01:00:00.0 | 50.0 | 39.9 | 76.4 | 52.6 | 51.8 | 49.2 | 46.2 | 1.2 | 3.0 | Wednesd | Plant on | |
| 2018-10-31 | 10:00:00 | 01:00:00.0 | 48.0 | 36.2 | 62.4 | 52.3 | 51.1 | 46.3 | 40.6 | 0.6 | 2.5 | Wednesd | Plant on | |
| 2018-10-31 | 11:00:00 | 01:00:00.0 | 50.1 | 35.6 | 79.1 | 53.9 | 52.7 | 48.5 | 42.3 | 0.7 | 3.5 | Wednesd | Plant on | |
| 2018-10-31 | 12:00:00 | 01:00:00.0 | 49.6 | 32.3 | 65.5 | 53.5 | 52.5 | 48.5 | 42.5 | 0.6 | 1.5 | Wednesd | Plant on | |
| 2018-10-31 | 13:00:00 | 01:00:00.0 | 50.7 | 30.7 | 72.0 | 56.8 | 55.2 | 40.5 | 33.6 | 0.4 | 2.0 | Wednesd | Plant on | |
| 2018-10-31 | 14:00:00 | 01:00:00.0 | 49.6 | 41.5 | 70.0 | 53.1 | 51.6 | 47.6 | 44.8 | 0.0 | 2.0 | Wednesd | Plant on | |
| 2018-10-31 | 15:00:00 | 01:00:00.0 | 53.0 | 42.5 | 65.2 | 57.2 | 56.1 | 51.7 | 47.0 | 0.0 | 1.5 | Wednesd | Plant on | |
| 2018-10-31 | 16:00:00 | 01:00:00.0 | 53.2 | 33.9 | 72.7 | 58.1 | 57.0 | 49.4 | 40.8 | 0.0 | 1.5 | Wednesd | Plant on | |
| 2018-10-31 | 17:00:00 | 01:00:00.0 | 45.2 | 28.5 | 64.3 | 49.2 | 47.9 | 43.3 | 37.4 | 0.0 | 1.0 | Wednesd | Plant off | |
| 2018-10-31 | 18:00:00 | 01:00:00.0 | 42.9 | 26.1 | 55.3 | 47.9 | 46.6 | 41.2 | 33.1 | 0.0 | 0.5 | Wednesd | Plant off | |
| 2018-10-31 | 19:00:00 | 01:00:00.0 | 39.6 | 27.3 | 56.9 | 44.7 | 42.9 | 37.3 | 32.3 | 0.0 | 0.5 | Wednesd | Plant off | |
| 2018-10-31 | 20:00:00 | 01:00:00.0 | 43.0 | 28.1 | 70.5 | 46.9 | 45.8 | 41.3 | 35.9 | 0.0 | 0.5 | Wednesd | Plant off | |
| 2018-10-31 | 21:00:00 | 01:00:00.0 | 41.5 | 22.6 | 71.1 | 46.6 | 44.8 | 37.6 | 30.7 | 0.0 | 0.0 | Wednesd | Plant off | |
| 2018-10-31 | 22:00:00 | 01:00:00.0 | 38.7 | 23.1 | 57.3 | 44.6 | 41.4 | 35.1 | 29.5 | 0.0 | 0.5 | Wednesd | Plant off | |
| 2018-10-31 | 23:00:00 | 01:00:00.0 | 39.1 | 20.2 | 57.3 | 44.8 | 41.6 | 35.1 | 27.3 | 0.0 | 1.0 | Wednesd | Plant off | |
| 2018-11-01 | 00:00:00 | 01:00:00.0 | 37.5 | 19.4 | 57.5 | 42.4 | 40.5 | 33.7 | 24.4 | 0.0 | 1.0 | Thursday | Plant off | |
| 2018-11-01 | 01:00:00 | 01:00:00.0 | 38.0 | 19.2 | 53.4 | 43.6 | 41.7 | 34.4 | 25.5 | 0.0 | 1.0 | Thursday | Plant off | |
| 2018-11-01 | 02:00:00 | 01:00:00.0 | 35.8 | 17.0 | 52.2 | 41.7 | 39.3 | 31.2 | 21.7 | 0.9 | 0.5 | Thursday | Plant off | |
| 2018-11-01 | 03:00:00 | 01:00:00.0 | 37.0 | 17.6 | 53.0 | 43.3 | 41.0 | 31.3 | 20.9 | 0.0 | 1.0 | Thursday | Plant off | |
| 2018-11-01 | 04:00:00 | 01:00:00.0 | 36.9 | 18.1 | 54.8 | 42.5 | 40.2 | 32.3 | 21.4 | 0.0 | 1.5 | Thursday | Plant off | |
| 2018-11-01 | 05:00:00 | 01:00:00.0 | 42.7 | 19.2 | 55.9 | 48.0 | 46.1 | 40.5 | 32.5 | 0.0 | 2.0 | Thursday | Plant off | |
| 2018-11-01 | 06:00:00 | 01:00:00.0 | 45.6 | 29.5 | 59.4 | 49.2 | 48.1 | 44.9 | 40.7 | 0.0 | 1.5 | Thursday | Plant off | |
| 2018-11-01 | 07:00:00 | 01:00:00.0 | 50.0 | 40.6 | 64.7 | 53.4 | 52.4 | 48.9 | 46.0 | 0.0 | 1.0 | Thursday | Plant off | |
| 2018-11-01 | 08:00:00 | 01:00:00.0 | 51.3 | 43.2 | 71.4 | 54.1 | 53.3 | 50.4 | 47.8 | 0.0 | 1.5 | Thursday | Plant on | |
| 2018-11-01 | 09:00:00 | 01:00:00.0 | 48.3 | 37.8 | 68.9 | 51.5 | 50.4 | 47.2 | 43.5 | 0.0 | 2.5 | Thursday | Plant on | |
| 2018-11-01 | 10:00:00 | 01:00:00.0 | 47.0 | 34.3 | 64.4 | 51.7 | 50.0 | 44.7 | 38.2 | 0.0 | 2.0 | Thursday | Plant on | |

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| Table 1 | | | Locn N1 | | | | | | | | | | | |
|------------|----------|------------|---------|------|------|------|------|------|------|------|------|----------|-----------|--|
| Date | Time | Duration | Leq | Lmin | Lmax | L5 | L10 | L50 | L90 | Rain | wind | | Plant | |
| | | | dBA | dBA | dBA | dBA | dBA | dBA | dBA | mm | m/s | | Status | |
| 2018-11-01 | 11:00:00 | 01:00:00.0 | 44.7 | 30.5 | 66.2 | 49.5 | 47.3 | 40.2 | 35.4 | 0.0 | 2.5 | Thursday | Plant off | |
| 2018-11-01 | 12:00:00 | 01:00:00.0 | 53.4 | 29.7 | 86.5 | 52.1 | 47.9 | 39.4 | 35.0 | 0.0 | 2.0 | Thursday | Plant off | |
| 2018-11-01 | 13:00:00 | 01:00:00.0 | 47.4 | 29.9 | 83.2 | 49.4 | 47.0 | 38.7 | 34.1 | 0.5 | 2.5 | Thursday | Plant off | |
| 2018-11-01 | 14:00:00 | 01:00:00.0 | 41.9 | 30.4 | 66.3 | 46.3 | 44.4 | 39.2 | 35.1 | 0.0 | 3.5 | Thursday | Plant off | |
| 2018-11-01 | 15:00:00 | 01:00:00.0 | 41.7 | 29.7 | 63.7 | 45.6 | 44.0 | 39.8 | 36.1 | 0.0 | 1.5 | Thursday | Plant off | |
| 2018-11-01 | 16:00:00 | 01:00:00.0 | 46.2 | 30.6 | 69.1 | 52.2 | 47.6 | 40.8 | 36.5 | 0.0 | 2.0 | Thursday | Plant off | |
| 2018-11-01 | 17:00:00 | 01:00:00.0 | 44.6 | 28.1 | 57.1 | 48.7 | 47.4 | 43.5 | 37.7 | 0.0 | 1.5 | Thursday | Plant off | |
| 2018-11-01 | 18:00:00 | 01:00:00.0 | 40.8 | 26.2 | 56.7 | 45.7 | 44.1 | 39.0 | 30.9 | 0.0 | 1.5 | Thursday | Plant off | |
| 2018-11-01 | 19:00:00 | 01:00:00.0 | 41.6 | 26.6 | 58.2 | 47.4 | 45.2 | 38.4 | 32.9 | 0.0 | 1.0 | Thursday | Plant off | |
| 2018-11-01 | 20:00:00 | 01:00:00.0 | 38.8 | 23.4 | 58.0 | 44.6 | 42.2 | 34.9 | 27.9 | 0.0 | 0.0 | Thursday | Plant off | |
| 2018-11-01 | 21:00:00 | 01:00:00.0 | 39.3 | 23.9 | 55.5 | 45.5 | 42.9 | 35.1 | 28.9 | 0.0 | 1.0 | Thursday | Plant off | |
| 2018-11-01 | 22:00:00 | 01:00:00.0 | 36.7 | 21.8 | 53.7 | 42.4 | 40.5 | 33.1 | 27.6 | 0.0 | 1.5 | Thursday | Plant off | |
| 2018-11-01 | 23:00:00 | 01:00:00.0 | 37.8 | 22.5 | 57.1 | 43.4 | 40.8 | 33.8 | 27.6 | 0.0 | 0.5 | Thursday | Plant off | |
| 2018-11-02 | 00:00:00 | 01:00:00.0 | 34.1 | 17.7 | 53.8 | 39.9 | 37.9 | 29.5 | 22.4 | 0.0 | 0.5 | Friday | Plant off | |
| 2018-11-02 | 01:00:00 | 01:00:00.0 | 33.9 | 18.7 | 52.4 | 39.7 | 37.5 | 28.7 | 21.8 | 0.0 | 0.5 | Friday | Plant off | |
| 2018-11-02 | 02:00:00 | 01:00:00.0 | 35.9 | 18.1 | 54.5 | 42.1 | 39.2 | 29.6 | 21.2 | 0.0 | 1.0 | Friday | Plant off | |
| 2018-11-02 | 03:00:00 | 01:00:00.0 | 35.8 | 17.4 | 53.1 | 41.3 | 39.3 | 31.5 | 20.7 | 0.0 | 1.5 | Friday | Plant off | |
| 2018-11-02 | 04:00:00 | 01:00:00.0 | 38.0 | 18.5 | 53.0 | 44.0 | 41.9 | 33.5 | 21.5 | 0.0 | 2.8 | Friday | Plant off | |
| 2018-11-02 | 05:00:00 | 01:00:00.0 | 43.7 | 21.5 | 54.6 | 48.7 | 47.5 | 41.7 | 34.1 | 0.0 | 3.6 | Friday | Plant off | |
| 2018-11-02 | 06:00:00 | 01:00:00.0 | 47.3 | 33.3 | 63.8 | 50.6 | 49.7 | 46.5 | 42.2 | 0.0 | 2.6 | Friday | Plant off | |
| 2018-11-02 | 07:00:00 | 01:00:00.0 | 50.1 | 41.9 | 65.8 | 53.1 | 52.3 | 49.5 | 46.7 | 0.0 | 2.2 | Friday | Plant off | |
| 2018-11-02 | 08:00:00 | 01:00:00.0 | 52.6 | 44.4 | 65.2 | 55.1 | 54.2 | 52.0 | 50.0 | 0.0 | 2.0 | Friday | Plant on | |
| 2018-11-02 | 09:00:00 | 01:00:00.0 | 51.4 | 42.8 | 72.2 | 54.0 | 53.0 | 50.6 | 48.3 | 0.0 | 1.6 | Friday | Plant on | |
| 2018-11-02 | 10:00:00 | 01:00:00.0 | 50.1 | 40.5 | 65.2 | 53.5 | 52.2 | 49.1 | 45.5 | 0.0 | 1.8 | Friday | Plant on | |
| 2018-11-02 | 11:00:00 | 01:00:00.0 | 52.7 | 46.4 | 69.7 | 56.3 | 54.6 | 51.3 | 49.3 | 0.0 | 2.0 | Friday | Plant on | |
| 2018-11-02 | 12:00:00 | 01:00:00.0 | 53.7 | 41.9 | 67.1 | 57.5 | 56.0 | 52.6 | 49.4 | 0.0 | 2.6 | Friday | Plant on | |
| 2018-11-02 | 13:00:00 | 01:00:00.0 | 53.2 | 41.5 | 69.0 | 58.9 | 56.4 | 49.8 | 46.1 | 0.2 | 4.8 | Friday | Plant off | |
| 2018-11-02 | 14:00:00 | 01:00:00.0 | 52.7 | 42.7 | 69.1 | 57.6 | 55.4 | 49.8 | 46.6 | 0.6 | 6.0 | Friday | Plant off | |
| 2018-11-02 | 15:00:00 | 01:00:00.0 | 54.2 | 43.8 | 71.1 | 59.2 | 56.7 | 51.1 | 47.9 | 0.6 | 5.5 | Friday | Plant off | |
| 2018-11-02 | 16:00:00 | 01:00:00.0 | 55.8 | 42.6 | 72.1 | 61.5 | 59.1 | 52.5 | 48.5 | 0.5 | 5.5 | Friday | Plant off | |
| 2018-11-02 | 17:00:00 | 01:00:00.0 | 58.7 | 45.2 | 73.7 | 64.4 | 62.3 | 55.3 | 50.5 | 0.8 | 6.5 | Friday | Plant off | |
| 2018-11-02 | 18:00:00 | 01:00:00.0 | 59.8 | 45.9 | 77.7 | 65.5 | 63.6 | 56.6 | 51.0 | 0.6 | 7.5 | Friday | Plant off | |
| 2018-11-02 | 19:00:00 | 01:00:00.0 | 61.7 | 46.3 | 77.4 | 67.7 | 65.6 | 58.1 | 51.8 | 0.0 | 8.0 | Friday | Plant off | |
| 2018-11-02 | 20:00:00 | 01:00:00.0 | 58.5 | 42.3 | 73.0 | 64.7 | 62.5 | 54.5 | 48.4 | 0.0 | 7.5 | Friday | Plant off | |
| 2018-11-02 | 21:00:00 | 01:00:00.0 | 57.9 | 41.5 | 75.2 | 64.0 | 61.8 | 53.7 | 47.5 | 0.0 | 7.0 | Friday | Plant off | |
| 2018-11-02 | 22:00:00 | 01:00:00.0 | 60.2 | 42.2 | 77.8 | 66.3 | 64.2 | 56.4 | 49.9 | 0.0 | 7.5 | Friday | Plant off | |
| 2018-11-02 | 23:00:00 | 01:00:00.0 | 59.0 | 41.4 | 73.1 | 65.2 | 62.9 | 54.7 | 48.0 | 0.0 | 7.4 | Friday | Plant off | |
| 2018-11-03 | 00:00:00 | 01:00:00.0 | 58.2 | 41.5 | 72.7 | 64.3 | 62.2 | 54.2 | 47.9 | 0.0 | 5.0 | Saturday | Plant off | |
| 2018-11-03 | 01:00:00 | 01:00:00.0 | 57.5 | 39.0 | 72.5 | 63.8 | 61.6 | 53.3 | 46.8 | 0.0 | 6.0 | Saturday | Plant off | |
| 2018-11-03 | 02:00:00 | 01:00:00.0 | 58.9 | 35.1 | 73.6 | 65.3 | 63.2 | 54.3 | 46.5 | 0.0 | 6.5 | Saturday | Plant off | |
| 2018-11-03 | 03:00:00 | 01:00:00.0 | 55.8 | 33.2 | 72.3 | 62.3 | 59.7 | 49.8 | 41.1 | 0.0 | 5.5 | Saturday | Plant off | |
| 2018-11-03 | 04:00:00 | 01:00:00.0 | 56.8 | 38.4 | 72.9 | 63.2 | 60.6 | 51.5 | 44.9 | 0.5 | 6.5 | Saturday | Plant off | |
| 2018-11-03 | 05:00:00 | 01:00:00.0 | 57.7 | 38.5 | 75.9 | 63.7 | 61.4 | 52.9 | 45.4 | 0.4 | 6.0 | Saturday | Plant off | |
| 2018-11-03 | 06:00:00 | 01:00:00.0 | 54.1 | 36.8 | 70.9 | 60.3 | 57.8 | 49.5 | 43.0 | 0.4 | 5.5 | Saturday | Plant off | |
| 2018-11-03 | 07:00:00 | 01:00:00.0 | 55.9 | 39.6 | 75.0 | 61.9 | 59.6 | 51.5 | 44.8 | 0.6 | 5.0 | Saturday | Plant off | |
| 2018-11-03 | 08:00:00 | 01:00:00.0 | 53.5 | 37.1 | 72.2 | 59.6 | 57.1 | 48.3 | 42.0 | 1.6 | 7.0 | Saturday | Plant off | |
| 2018-11-03 | 09:00:00 | 01:00:00.0 | 56.8 | 39.1 | 75.4 | 63.3 | 60.5 | 50.7 | 44.1 | 0.3 | 6.0 | Saturday | Plant off | |
| 2018-11-03 | 10:00:00 | 01:00:00.0 | 51.8 | 35.7 | 70.2 | 58.1 | 55.4 | 46.8 | 42.1 | 0.0 | 5.5 | Saturday | Plant off | |

| Table 1 | | | Locn N1 | | | | | | | | | | Plant |
|------------|----------|------------|---------|------|------|------|------|------|------|------|------|----------|-----------|
| Date | Time | Duration | Leq | Lmin | Lmax | L5 | L10 | L50 | L90 | Rain | wind | | Status |
| | | | dBA | dBA | dBA | dBA | dBA | dBA | dBA | mm | m/s | | |
| 2018-11-03 | 11:00:00 | 01:00:00.0 | 55.1 | 39.4 | 70.9 | 61.5 | 59.2 | 50.2 | 44.3 | 0.9 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 12:00:00 | 01:00:00.0 | 55.1 | 39.6 | 71.7 | 61.3 | 58.9 | 50.0 | 44.3 | 0.0 | 6.5 | Saturday | Plant off |
| 2018-11-03 | 13:00:00 | 01:00:00.0 | 56.0 | 39.7 | 70.4 | 62.2 | 60.2 | 51.7 | 45.4 | 0.0 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 14:00:00 | 01:00:00.0 | 55.2 | 39.0 | 70.4 | 61.5 | 59.3 | 50.4 | 43.8 | 0.0 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 15:00:00 | 01:00:00.0 | 56.0 | 37.7 | 71.9 | 62.5 | 60.1 | 51.0 | 44.7 | 0.0 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 16:00:00 | 01:00:00.0 | 54.8 | 39.2 | 70.7 | 61.2 | 58.9 | 49.8 | 44.4 | 0.0 | 7.0 | Saturday | Plant off |
| 2018-11-03 | 17:00:00 | 01:00:00.0 | 53.4 | 39.2 | 68.7 | 59.7 | 57.3 | 49.1 | 43.9 | 0.0 | 6.5 | Saturday | Plant off |
| 2018-11-03 | 18:00:00 | 01:00:00.0 | 53.9 | 37.4 | 68.7 | 60.1 | 57.6 | 49.4 | 43.9 | 0.0 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 19:00:00 | 01:00:00.0 | 55.8 | 39.5 | 74.6 | 62.0 | 59.8 | 51.2 | 44.9 | 0.0 | 4.0 | Saturday | Plant off |
| 2018-11-03 | 20:00:00 | 01:00:00.0 | 56.0 | 34.6 | 73.3 | 62.6 | 60.1 | 50.0 | 41.0 | 0.8 | 5.0 | Saturday | Plant off |
| 2018-11-03 | 21:00:00 | 01:00:00.0 | 51.5 | 32.1 | 69.9 | 58.0 | 55.2 | 45.7 | 39.8 | 0.0 | 5.0 | Saturday | Plant off |
| 2018-11-03 | 22:00:00 | 01:00:00.0 | 52.4 | 33.8 | 71.7 | 58.6 | 56.2 | 46.8 | 40.2 | 0.0 | 4.0 | Saturday | Plant off |
| 2018-11-03 | 23:00:00 | 01:00:00.0 | 53.6 | 33.5 | 70.0 | 60.1 | 57.6 | 48.3 | 41.7 | 0.0 | 5.0 | Saturday | Plant off |
| 2018-11-04 | 00:00:00 | 01:00:00.0 | 51.9 | 32.0 | 70.2 | 58.4 | 55.7 | 46.4 | 40.0 | 0.0 | 4.8 | Sunday | Plant off |
| 2018-11-04 | 01:00:00 | 01:00:00.0 | 48.9 | 29.0 | 69.3 | 55.2 | 52.3 | 43.1 | 37.4 | 0.0 | 4.0 | Sunday | Plant off |
| 2018-11-04 | 02:00:00 | 01:00:00.0 | 48.8 | 29.8 | 70.5 | 54.6 | 51.4 | 42.1 | 36.4 | 0.0 | 4.8 | Sunday | Plant off |
| 2018-11-04 | 03:00:00 | 01:00:00.0 | 50.3 | 31.1 | 69.2 | 56.5 | 53.6 | 44.4 | 38.0 | 0.0 | 4.6 | Sunday | Plant off |
| 2018-11-04 | 04:00:00 | 01:00:00.0 | 45.9 | 28.8 | 65.7 | 51.6 | 48.8 | 40.6 | 35.0 | 0.0 | 3.8 | Sunday | Plant off |
| 2018-11-04 | 05:00:00 | 01:00:00.0 | 47.0 | 24.0 | 67.7 | 53.0 | 49.5 | 39.4 | 31.7 | 0.0 | 4.2 | Sunday | Plant off |
| 2018-11-04 | 06:00:00 | 01:00:00.0 | 45.9 | 27.9 | 66.2 | 51.7 | 48.5 | 40.3 | 35.3 | 0.0 | 4.2 | Sunday | Plant off |
| 2018-11-04 | 07:00:00 | 01:00:00.0 | 47.7 | 31.6 | 64.6 | 53.8 | 51.1 | 43.5 | 38.1 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 08:00:00 | 01:00:00.0 | 46.9 | 32.1 | 64.1 | 52.0 | 49.9 | 43.7 | 39.6 | 0.0 | 3.5 | Sunday | Plant off |
| 2018-11-04 | 09:00:00 | 01:00:00.0 | 50.4 | 36.5 | 68.0 | 56.0 | 53.7 | 46.5 | 42.3 | 0.0 | 4.0 | Sunday | Plant off |
| 2018-11-04 | 10:00:00 | 01:00:00.0 | 48.9 | 36.4 | 67.8 | 54.2 | 52.1 | 45.6 | 41.4 | 0.0 | 5.0 | Sunday | Plant off |
| 2018-11-04 | 11:00:00 | 01:00:00.0 | 50.0 | 36.7 | 65.6 | 55.7 | 53.3 | 46.5 | 42.1 | 0.0 | 4.5 | Sunday | Plant off |
| 2018-11-04 | 12:00:00 | 01:00:00.0 | 49.6 | 35.1 | 66.6 | 55.2 | 52.9 | 46.2 | 41.6 | 0.0 | 3.5 | Sunday | Plant off |
| 2018-11-04 | 13:00:00 | 01:00:00.0 | 46.7 | 33.5 | 65.3 | 52.0 | 49.9 | 43.3 | 39.3 | 0.0 | 3.0 | Sunday | Plant off |
| 2018-11-04 | 14:00:00 | 01:00:00.0 | 45.9 | 32.6 | 70.4 | 50.9 | 48.5 | 42.5 | 38.5 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 15:00:00 | 01:00:00.0 | 43.1 | 31.3 | 63.4 | 47.1 | 45.7 | 41.3 | 37.8 | 0.0 | 1.0 | Sunday | Plant off |
| 2018-11-04 | 16:00:00 | 01:00:00.0 | 46.5 | 37.4 | 61.4 | 49.8 | 48.8 | 45.6 | 42.3 | 0.0 | 1.0 | Sunday | Plant off |
| 2018-11-04 | 17:00:00 | 01:00:00.0 | 47.4 | 40.4 | 64.1 | 50.0 | 49.1 | 46.7 | 44.3 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 18:00:00 | 01:00:00.0 | 45.7 | 35.9 | 56.7 | 48.5 | 47.8 | 45.3 | 42.2 | 0.0 | 1.5 | Sunday | Plant off |
| 2018-11-04 | 19:00:00 | 01:00:00.0 | 45.3 | 33.2 | 56.0 | 48.7 | 47.9 | 44.6 | 41.0 | 0.0 | 1.5 | Sunday | Plant off |
| 2018-11-04 | 20:00:00 | 01:00:00.0 | 45.5 | 35.3 | 54.9 | 48.6 | 47.9 | 45.0 | 41.6 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 21:00:00 | 01:00:00.0 | 44.1 | 32.6 | 54.4 | 47.7 | 46.7 | 43.4 | 39.4 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 22:00:00 | 01:00:00.0 | 43.5 | 27.1 | 55.9 | 47.7 | 46.5 | 42.3 | 37.4 | 0.0 | 1.5 | Sunday | Plant off |
| 2018-11-04 | 23:00:00 | 01:00:00.0 | 41.6 | 20.4 | 54.1 | 46.8 | 45.3 | 39.4 | 31.9 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-05 | 00:00:00 | 01:00:00.0 | 38.3 | 20.5 | 55.8 | 44.0 | 42.2 | 34.9 | 28.1 | 0.4 | 1.5 | Monday | Plant off |
| 2018-11-05 | 01:00:00 | 01:00:00.0 | 39.1 | 26.2 | 53.5 | 44.2 | 42.5 | 36.8 | 31.2 | 1.4 | 1.5 | Monday | Plant off |
| 2018-11-05 | 02:00:00 | 01:00:00.0 | 38.2 | 29.7 | 56.2 | 42.5 | 40.8 | 36.3 | 33.2 | 1.0 | 1.5 | Monday | Plant off |
| 2018-11-05 | 03:00:00 | 01:00:00.0 | 32.3 | 20.7 | 52.9 | 37.0 | 34.8 | 29.8 | 24.3 | 0.9 | 1.5 | Monday | Plant off |
| 2018-11-05 | 04:00:00 | 01:00:00.0 | 33.0 | 18.7 | 52.6 | 38.8 | 36.6 | 28.0 | 21.5 | 0.4 | 2.5 | Monday | Plant off |
| 2018-11-05 | 05:00:00 | 01:00:00.0 | 36.0 | 20.3 | 52.0 | 41.0 | 39.4 | 33.5 | 25.7 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 06:00:00 | 01:00:00.0 | 38.2 | 27.6 | 56.8 | 42.0 | 40.8 | 36.7 | 32.5 | 0.0 | 3.0 | Monday | Plant off |
| 2018-11-05 | 07:00:00 | 01:00:00.0 | 45.0 | 33.6 | 62.3 | 49.8 | 47.0 | 42.3 | 38.9 | 0.0 | 3.0 | Monday | Plant off |
| 2018-11-05 | 08:00:00 | 01:00:00.0 | 47.7 | 36.0 | 62.8 | 50.7 | 49.6 | 46.9 | 42.6 | 0.0 | 3.5 | Monday | Plant on |
| 2018-11-05 | 09:00:00 | 01:00:00.0 | 48.9 | 32.2 | 65.3 | 52.3 | 51.2 | 47.8 | 39.3 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 10:00:00 | 01:00:00.0 | 43.9 | 32.0 | 62.9 | 48.0 | 46.1 | 41.4 | 35.5 | 0.0 | 3.0 | Monday | Plant on |

| Table 1 | | | Locn N1 | | | | | | | | | | Plant |
|------------|----------|------------|---------|----------|----------|--------|---------|---------|---------|---------|----------|---------|-----------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Status |
| 2018-11-05 | 11:00:00 | 01:00:00.0 | 46.0 | 39.0 | 66.4 | 49.2 | 47.8 | 44.7 | 42.6 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 12:00:00 | 01:00:00.0 | 49.1 | 31.3 | 62.7 | 53.6 | 52.4 | 47.6 | 39.5 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 13:00:00 | 01:00:00.0 | 44.9 | 31.9 | 63.1 | 50.7 | 49.6 | 38.4 | 34.3 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 14:00:00 | 01:00:00.0 | 50.2 | 41.2 | 65.1 | 53.7 | 52.8 | 49.3 | 45.1 | 0.0 | 0.5 | Monday | Plant on |
| 2018-11-05 | 15:00:00 | 01:00:00.0 | 43.4 | 37.4 | 60.2 | 46.3 | 45.1 | 42.5 | 40.5 | 0.0 | 1.0 | Monday | Plant on |
| 2018-11-05 | 16:00:00 | 01:00:00.0 | 45.9 | 37.3 | 62.1 | 48.9 | 48.0 | 45.4 | 42.4 | 0.0 | 1.0 | Monday | Plant on |
| 2018-11-05 | 17:00:00 | 01:00:00.0 | 45.2 | 37.8 | 64.0 | 48.7 | 47.6 | 44.1 | 41.4 | 0.0 | 1.0 | Monday | Plant off |
| 2018-11-05 | 18:00:00 | 01:00:00.0 | 45.5 | 36.0 | 55.3 | 48.7 | 47.8 | 44.8 | 42.5 | 0.0 | 2.0 | Monday | Plant off |
| 2018-11-05 | 19:00:00 | 01:00:00.0 | 43.4 | 35.3 | 54.1 | 46.7 | 45.7 | 42.8 | 40.0 | 0.0 | 1.0 | Monday | Plant off |
| 2018-11-05 | 20:00:00 | 01:00:00.0 | 42.7 | 32.2 | 53.3 | 46.5 | 45.3 | 41.8 | 38.8 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 21:00:00 | 01:00:00.0 | 41.7 | 30.7 | 54.3 | 45.8 | 44.5 | 40.6 | 36.5 | 0.0 | 1.5 | Monday | Plant off |
| 2018-11-05 | 22:00:00 | 01:00:00.0 | 41.6 | 27.8 | 57.8 | 46.0 | 44.6 | 39.9 | 35.3 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 23:00:00 | 01:00:00.0 | 41.8 | 26.4 | 54.7 | 46.4 | 44.9 | 40.3 | 34.1 | 0.0 | 2.0 | Monday | Plant off |
| 2018-11-06 | 00:00:00 | 01:00:00.0 | 38.5 | 21.5 | 53.5 | 43.7 | 42.1 | 36.0 | 27.9 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 01:00:00 | 01:00:00.0 | 38.1 | 20.1 | 55.2 | 43.8 | 42.1 | 34.6 | 25.2 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 02:00:00 | 01:00:00.0 | 42.5 | 23.0 | 65.3 | 47.6 | 45.3 | 38.3 | 32.0 | 0.0 | 3.0 | Tuesday | Plant off |
| 2018-11-06 | 03:00:00 | 01:00:00.0 | 48.1 | 28.2 | 67.6 | 53.8 | 51.2 | 43.6 | 37.8 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 04:00:00 | 01:00:00.0 | 46.1 | 25.1 | 64.2 | 52.1 | 49.7 | 41.5 | 35.0 | 0.0 | 3.0 | Tuesday | Plant off |
| 2018-11-06 | 05:00:00 | 01:00:00.0 | 51.2 | 30.4 | 70.6 | 56.9 | 54.6 | 47.1 | 40.3 | 0.0 | 4.5 | Tuesday | Plant off |
| 2018-11-06 | 06:00:00 | 01:00:00.0 | 52.8 | 40.7 | 72.7 | 58.0 | 56.1 | 49.3 | 45.2 | 0.0 | 5.8 | Tuesday | Plant off |
| 2018-11-06 | 07:00:00 | 01:00:00.0 | 54.9 | 45.1 | 71.9 | 59.6 | 57.7 | 52.9 | 49.2 | 0.0 | 6.0 | Tuesday | Plant off |
| 2018-11-06 | 08:00:00 | 01:00:00.0 | 54.4 | 43.5 | 71.4 | 58.9 | 57.1 | 52.5 | 49.2 | 0.0 | 6.5 | Tuesday | Plant on |
| 2018-11-06 | 09:00:00 | 01:00:00.0 | 53.5 | 43.8 | 68.0 | 58.1 | 56.4 | 51.7 | 48.1 | 0.0 | 5.2 | Tuesday | Plant on |
| 2018-11-06 | 10:00:00 | 01:00:00.0 | 54.9 | 41.8 | 72.3 | 60.0 | 58.0 | 52.0 | 48.0 | 0.0 | 5.4 | Tuesday | Plant on |
| 2018-11-06 | 11:00:00 | 01:00:00.0 | 57.7 | 45.6 | 75.2 | 62.9 | 60.9 | 54.7 | 50.1 | 0.0 | 5.6 | Tuesday | Plant on |
| 2018-11-06 | 12:00:00 | 01:00:00.0 | 56.9 | 44.0 | 72.0 | 62.4 | 60.5 | 53.9 | 49.1 | 0.2 | 5.0 | Tuesday | Plant on |
| 2018-11-06 | 13:00:00 | 01:00:00.0 | 51.2 | 39.9 | 65.7 | 55.9 | 54.4 | 49.0 | 44.2 | 0.2 | 6.2 | Tuesday | Plant on |
| 2018-11-06 | 14:00:00 | 01:00:00.0 | 52.9 | 46.1 | 66.9 | 56.7 | 55.3 | 51.6 | 49.2 | 0.6 | 5.2 | Tuesday | Plant on |
| 2018-11-06 | 15:00:00 | 01:00:00.0 | 51.7 | 46.4 | 65.2 | 54.6 | 53.5 | 50.9 | 48.9 | 2.1 | 3.8 | Tuesday | Plant on |
| 2018-11-06 | 16:00:00 | 01:00:00.0 | 50.3 | 41.7 | 60.6 | 53.5 | 52.6 | 49.8 | 46.4 | 0.0 | 3.2 | Tuesday | Plant on |
| 2018-11-06 | 17:00:00 | 01:00:00.0 | 48.7 | 41.5 | 59.9 | 51.7 | 50.8 | 48.1 | 45.4 | 0.0 | 5.0 | Tuesday | Plant off |
| 2018-11-06 | 18:00:00 | 01:00:00.0 | 47.2 | 37.0 | 60.1 | 50.7 | 49.7 | 46.3 | 42.7 | 0.0 | 4.0 | Tuesday | Plant off |
| 2018-11-06 | 19:00:00 | 01:00:00.0 | 44.7 | 33.3 | 57.1 | 49.0 | 47.6 | 43.4 | 39.8 | 0.0 | 4.5 | Tuesday | Plant off |
| 2018-11-06 | 20:00:00 | 01:00:00.0 | 44.4 | 32.3 | 56.0 | 48.3 | 47.1 | 43.3 | 40.1 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-11-06 | 21:00:00 | 01:00:00.0 | 44.3 | 30.4 | 56.6 | 48.7 | 47.3 | 42.9 | 38.6 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-11-06 | 22:00:00 | 01:00:00.0 | 42.0 | 26.1 | 55.7 | 46.5 | 45.2 | 40.6 | 35.0 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-11-06 | 23:00:00 | 01:00:00.0 | 41.2 | 22.4 | 57.4 | 46.4 | 44.6 | 38.8 | 31.7 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-11-07 | 00:00:00 | 01:00:00.0 | 38.0 | 18.1 | 53.9 | 43.5 | 41.8 | 35.4 | 23.8 | 0.0 | 3.0 | Wednesd | Plant off |
| 2018-11-07 | 01:00:00 | 01:00:00.0 | 35.9 | 18.6 | 55.0 | 41.6 | 39.8 | 32.0 | 23.5 | 0.0 | 3.5 | Wednesd | Plant off |
| 2018-11-07 | 02:00:00 | 01:00:00.0 | 36.8 | 17.3 | 53.7 | 42.6 | 40.6 | 32.5 | 21.1 | 0.0 | 3.0 | Wednesd | Plant off |
| 2018-11-07 | 03:00:00 | 01:00:00.0 | 35.1 | 16.6 | 55.1 | 41.4 | 38.8 | 27.2 | 17.7 | 0.0 | 2.5 | Wednesd | Plant off |
| 2018-11-07 | 04:00:00 | 01:00:00.0 | 36.3 | 17.1 | 54.1 | 42.5 | 40.4 | 31.4 | 22.5 | 0.0 | 3.5 | Wednesd | Plant off |
| 2018-11-07 | 05:00:00 | 01:00:00.0 | 30.2 | 17.1 | 46.7 | 36.1 | 33.6 | 26.6 | 20.6 | 0.0 | 2.2 | Wednesd | Plant off |
| 2018-11-07 | 06:00:00 | 01:00:00.0 | 34.7 | 21.3 | 53.2 | 38.8 | 37.3 | 33.2 | 28.3 | 0.0 | 2.4 | Wednesd | Plant off |
| 2018-11-07 | 07:00:00 | 01:00:00.0 | 44.1 | 30.7 | 70.1 | 48.1 | 44.9 | 39.6 | 35.0 | 0.0 | 2.6 | Wednesd | Plant off |
| 2018-11-07 | 08:00:00 | 01:00:00.0 | 53.0 | 37.6 | 67.6 | 57.1 | 56.1 | 52.1 | 42.0 | 0.0 | 2.8 | Wednesd | Plant on |
| 2018-11-07 | 09:00:00 | 01:00:00.0 | 53.4 | 40.4 | 67.0 | 57.0 | 56.1 | 52.4 | 47.3 | 0.0 | 2.2 | Wednesd | Plant on |
| 2018-11-07 | 10:00:00 | 01:00:00.0 | 53.5 | 35.0 | 70.4 | 58.3 | 57.2 | 52.5 | 40.3 | 0.0 | 3.2 | Wednesd | Plant on |

| Table 1 | | | Locn N1 | | | | | | | | | |
|------------|----------|------------|---------|------|------|------|------|------|------|------|------|--------------------|
| Date | Time | Duration | Leq | Lmin | Lmax | L5 | L10 | L50 | L90 | Rain | wind | Plant |
| | | | dBa | dBa | dBa | dBa | dBa | dBa | dBa | mm | m/s | Status |
| 2018-11-07 | 11:00:00 | 01:00:00.0 | 50.6 | 40.7 | 70.9 | 54.3 | 53.0 | 49.3 | 46.4 | 0.0 | 5.6 | Wednesd Plant on |
| 2018-11-07 | 12:00:00 | 01:00:00.0 | 56.0 | 36.4 | 70.6 | 60.3 | 59.0 | 54.9 | 44.8 | 0.0 | 4.8 | Wednesd Plant on |
| 2018-11-07 | 13:00:00 | 01:00:00.0 | 51.3 | 34.2 | 72.2 | 57.6 | 55.7 | 44.0 | 38.7 | 0.0 | 4.6 | Wednesd Plant on |
| 2018-11-07 | 14:00:00 | 01:00:00.0 | 51.1 | 42.2 | 64.7 | 54.8 | 53.7 | 50.2 | 47.0 | 0.0 | 5.4 | Wednesd Plant on |
| 2018-11-07 | 15:00:00 | 01:00:00.0 | 51.1 | 42.6 | 63.8 | 54.8 | 53.6 | 50.1 | 47.1 | 0.0 | 4.8 | Wednesd Plant on |
| 2018-11-07 | 16:00:00 | 01:00:00.0 | 51.2 | 43.0 | 66.4 | 55.1 | 53.8 | 49.8 | 46.9 | 0.0 | 4.4 | Wednesd Plant on |
| 2018-11-07 | 17:00:00 | 01:00:00.0 | 47.6 | 35.6 | 69.2 | 52.2 | 49.7 | 44.3 | 40.1 | 0.0 | 4.0 | Wednesd Plant off |
| 2018-11-07 | 18:00:00 | 01:00:00.0 | 45.4 | 34.0 | 56.3 | 49.8 | 48.7 | 44.0 | 38.5 | 0.0 | 4.0 | Wednesd Plant off |
| 2018-11-07 | 19:00:00 | 01:00:00.0 | 46.0 | 37.5 | 58.6 | 49.7 | 48.7 | 45.0 | 41.9 | 0.0 | 3.5 | Wednesd Plant off |
| 2018-11-07 | 20:00:00 | 01:00:00.0 | 46.0 | 36.5 | 59.3 | 49.5 | 48.5 | 45.3 | 42.0 | 0.0 | 3.0 | Wednesd Plant off |
| 2018-11-07 | 21:00:00 | 01:00:00.0 | 46.8 | 35.7 | 59.9 | 50.7 | 49.4 | 45.7 | 42.3 | 0.0 | 2.0 | Wednesd Plant off |
| 2018-11-07 | 22:00:00 | 01:00:00.0 | 47.5 | 32.6 | 65.2 | 52.1 | 50.3 | 45.4 | 41.4 | 0.0 | 3.0 | Wednesd Plant off |
| 2018-11-07 | 23:00:00 | 01:00:00.0 | 48.9 | 31.7 | 64.9 | 54.5 | 52.3 | 45.6 | 40.7 | 0.0 | 3.5 | Wednesd Plant off |
| 2018-11-08 | 00:00:00 | 01:00:00.0 | 46.7 | 30.0 | 65.6 | 52.5 | 50.3 | 43.0 | 37.4 | 0.0 | 4.5 | Thursday Plant off |
| 2018-11-08 | 01:00:00 | 01:00:00.0 | 40.1 | 24.3 | 54.4 | 45.4 | 43.7 | 37.4 | 31.2 | 0.0 | 4.0 | Thursday Plant off |
| 2018-11-08 | 02:00:00 | 01:00:00.0 | 39.0 | 22.6 | 55.2 | 44.4 | 42.5 | 36.2 | 28.8 | 0.0 | 4.5 | Thursday Plant off |
| 2018-11-08 | 03:00:00 | 01:00:00.0 | 38.6 | 22.8 | 59.9 | 44.0 | 42.0 | 35.0 | 28.0 | 0.0 | 3.0 | Thursday Plant off |
| 2018-11-08 | 04:00:00 | 01:00:00.0 | 45.9 | 28.8 | 64.3 | 51.3 | 48.6 | 41.8 | 36.1 | 0.0 | 3.5 | Thursday Plant off |
| 2018-11-08 | 05:00:00 | 01:00:00.0 | 44.0 | 28.7 | 63.3 | 48.2 | 46.7 | 42.1 | 36.2 | 0.0 | 6.5 | Thursday Plant off |
| 2018-11-08 | 06:00:00 | 01:00:00.0 | 47.5 | 37.2 | 59.7 | 51.1 | 49.9 | 46.5 | 43.7 | 0.0 | 5.0 | Thursday Plant off |
| 2018-11-08 | 07:00:00 | 01:00:00.0 | 51.4 | 42.0 | 67.9 | 54.9 | 53.7 | 50.4 | 47.8 | 0.0 | 4.3 | Thursday Plant off |

| Table 2 | | | Locn N2 | | | | | | | | | | Plant |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|----------|-----------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Status |
| 2018-10-30 | 12:24:39 | 00:35:20.8 | 51.3 | 37.4 | 79.1 | 55.0 | 53.8 | 50.2 | 43.2 | 0.2 | 3.0 | Tuesday | Plant on |
| 2018-10-30 | 13:00:00 | 01:00:00.0 | 46.0 | 37.0 | 63.7 | 51.1 | 49.7 | 43.5 | 41.0 | 0.0 | 2.5 | Tuesday | Plant on |
| 2018-10-30 | 14:00:00 | 01:00:00.0 | 50.8 | 38.6 | 68.9 | 54.4 | 53.3 | 50.0 | 44.9 | 0.2 | 2.0 | Tuesday | Plant on |
| 2018-10-30 | 15:00:00 | 01:00:00.0 | 49.9 | 40.1 | 66.4 | 53.5 | 52.5 | 49.1 | 44.6 | 0.0 | 1.5 | Tuesday | Plant on |
| 2018-10-30 | 16:00:00 | 01:00:00.0 | 45.3 | 35.5 | 60.5 | 49.0 | 48.0 | 44.5 | 40.0 | 0.4 | 1.5 | Tuesday | Plant on |
| 2018-10-30 | 17:00:00 | 01:00:00.0 | 43.4 | 37.2 | 68.1 | 45.6 | 44.9 | 42.9 | 40.7 | 0.2 | 1.5 | Tuesday | Plant off |
| 2018-10-30 | 18:00:00 | 01:00:00.0 | 43.8 | 37.1 | 51.3 | 46.1 | 45.6 | 43.6 | 41.3 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-10-30 | 19:00:00 | 01:00:00.0 | 45.0 | 36.2 | 56.1 | 48.2 | 47.4 | 44.2 | 41.1 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-10-30 | 20:00:00 | 01:00:00.0 | 44.6 | 29.9 | 57.5 | 48.1 | 47.2 | 44.0 | 39.2 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-10-30 | 21:00:00 | 01:00:00.0 | 43.4 | 29.5 | 54.8 | 47.3 | 46.3 | 42.4 | 37.7 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-10-30 | 22:00:00 | 01:00:00.0 | 42.3 | 28.3 | 54.7 | 46.7 | 45.5 | 40.9 | 35.5 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-10-30 | 23:00:00 | 01:00:00.0 | 43.0 | 21.5 | 57.4 | 47.6 | 46.3 | 41.2 | 33.8 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-10-31 | 00:00:00 | 01:00:00.0 | 40.2 | 21.2 | 56.7 | 45.5 | 43.9 | 37.5 | 27.5 | 0.0 | 1.5 | Wednesd | Plant off |
| 2018-10-31 | 01:00:00 | 01:00:00.0 | 41.0 | 21.1 | 57.8 | 47.4 | 45.0 | 35.8 | 27.5 | 0.0 | 1.5 | Wednesd | Plant off |
| 2018-10-31 | 02:00:00 | 01:00:00.0 | 38.4 | 22.2 | 55.5 | 44.5 | 42.3 | 33.9 | 27.7 | 0.0 | 1.0 | Wednesd | Plant off |
| 2018-10-31 | 03:00:00 | 01:00:00.0 | 36.4 | 22.6 | 52.3 | 42.1 | 40.4 | 32.4 | 26.5 | 0.0 | 2.0 | Wednesd | Plant off |
| 2018-10-31 | 04:00:00 | 01:00:00.0 | 38.1 | 23.4 | 56.4 | 43.4 | 42.0 | 34.9 | 28.2 | 0.0 | 1.5 | Wednesd | Plant off |
| 2018-10-31 | 05:00:00 | 01:00:00.0 | 41.3 | 24.8 | 55.8 | 45.4 | 44.3 | 40.2 | 33.9 | 0.6 | 3.0 | Wednesd | Plant off |
| 2018-10-31 | 06:00:00 | 01:00:00.0 | 45.3 | 33.7 | 53.5 | 48.3 | 47.5 | 44.9 | 41.6 | 0.4 | 2.5 | Wednesd | Plant off |
| 2018-10-31 | 07:00:00 | 01:00:00.0 | 48.6 | 40.5 | 68.6 | 50.9 | 50.1 | 48.0 | 45.9 | 0.4 | 3.0 | Wednesd | Plant off |
| 2018-10-31 | 08:00:00 | 01:00:00.0 | 50.4 | 42.5 | 68.6 | 53.2 | 52.2 | 49.5 | 47.0 | 0.7 | 3.5 | Wednesd | Plant on |
| 2018-10-31 | 09:00:00 | 01:00:00.0 | 51.0 | 37.7 | 67.1 | 54.6 | 53.5 | 50.2 | 43.8 | 1.2 | 3.0 | Wednesd | Plant on |
| 2018-10-31 | 10:00:00 | 01:00:00.0 | 51.0 | 37.8 | 70.7 | 55.8 | 54.8 | 47.5 | 42.1 | 0.6 | 2.5 | Wednesd | Plant on |
| 2018-10-31 | 11:00:00 | 01:00:00.0 | 52.4 | 36.2 | 69.4 | 56.9 | 55.9 | 51.0 | 41.5 | 0.7 | 3.5 | Wednesd | Plant on |
| 2018-10-31 | 12:00:00 | 01:00:00.0 | 52.7 | 32.9 | 66.0 | 57.3 | 56.2 | 51.1 | 42.1 | 0.6 | 1.5 | Wednesd | Plant on |
| 2018-10-31 | 13:00:00 | 01:00:00.0 | 51.5 | 31.4 | 67.3 | 57.8 | 56.4 | 39.0 | 35.2 | 0.4 | 2.0 | Wednesd | Plant on |
| 2018-10-31 | 14:00:00 | 01:00:00.0 | 48.4 | 38.8 | 64.4 | 52.8 | 51.6 | 47.0 | 43.5 | 0.0 | 2.0 | Wednesd | Plant on |
| 2018-10-31 | 15:00:00 | 01:00:00.0 | 51.7 | 42.0 | 65.9 | 55.8 | 54.8 | 50.2 | 45.5 | 0.0 | 1.5 | Wednesd | Plant on |
| 2018-10-31 | 16:00:00 | 01:00:00.0 | 50.7 | 31.1 | 63.4 | 56.0 | 54.9 | 43.8 | 36.9 | 0.0 | 1.5 | Wednesd | Plant on |
| 2018-10-31 | 17:00:00 | 01:00:00.0 | 43.3 | 26.6 | 68.3 | 47.3 | 46.1 | 41.7 | 35.7 | 0.0 | 1.0 | Wednesd | Plant off |
| 2018-10-31 | 18:00:00 | 01:00:00.0 | 37.5 | 25.1 | 52.4 | 42.2 | 41.1 | 35.7 | 29.1 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 19:00:00 | 01:00:00.0 | 33.7 | 26.2 | 55.8 | 36.7 | 36.0 | 33.0 | 30.2 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 20:00:00 | 01:00:00.0 | 37.3 | 22.5 | 64.4 | 42.1 | 40.5 | 34.8 | 28.1 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 21:00:00 | 01:00:00.0 | 38.9 | 23.9 | 69.8 | 43.5 | 42.4 | 36.2 | 29.6 | 0.0 | 0.0 | Wednesd | Plant off |
| 2018-10-31 | 22:00:00 | 01:00:00.0 | 34.5 | 21.3 | 46.6 | 38.9 | 37.7 | 33.0 | 28.7 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 23:00:00 | 01:00:00.0 | 34.6 | 20.4 | 55.8 | 39.5 | 37.9 | 32.6 | 26.8 | 0.0 | 1.0 | Wednesd | Plant off |
| 2018-11-01 | 00:00:00 | 01:00:00.0 | 35.1 | 19.0 | 49.9 | 40.3 | 39.0 | 32.6 | 22.8 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 01:00:00 | 01:00:00.0 | 39.1 | 19.6 | 58.7 | 45.0 | 42.9 | 35.0 | 25.0 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 02:00:00 | 01:00:00.0 | 33.4 | 17.8 | 51.7 | 39.2 | 37.4 | 28.6 | 21.6 | 0.9 | 0.5 | Thursday | Plant off |
| 2018-11-01 | 03:00:00 | 01:00:00.0 | 35.2 | 17.2 | 52.2 | 41.7 | 38.7 | 28.9 | 20.6 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 04:00:00 | 01:00:00.0 | 34.5 | 17.4 | 50.9 | 40.1 | 37.9 | 30.7 | 20.5 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 05:00:00 | 01:00:00.0 | 42.2 | 21.0 | 56.7 | 47.6 | 45.8 | 39.7 | 32.7 | 0.0 | 2.0 | Thursday | Plant off |
| 2018-11-01 | 06:00:00 | 01:00:00.0 | 45.6 | 30.0 | 64.3 | 49.1 | 48.1 | 44.8 | 40.3 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 07:00:00 | 01:00:00.0 | 47.4 | 39.1 | 64.8 | 50.8 | 49.7 | 46.1 | 43.0 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 08:00:00 | 01:00:00.0 | 56.3 | 40.7 | 70.6 | 62.0 | 60.5 | 52.0 | 43.9 | 0.0 | 1.5 | Thursday | Plant on |
| 2018-11-01 | 09:00:00 | 01:00:00.0 | 50.7 | 35.4 | 66.6 | 56.3 | 54.9 | 46.4 | 41.2 | 0.0 | 2.5 | Thursday | Plant on |
| 2018-11-01 | 10:00:00 | 01:00:00.0 | 48.0 | 33.5 | 64.5 | 53.5 | 52.0 | 44.2 | 37.3 | 0.0 | 2.0 | Thursday | Plant on |
| 2018-11-01 | 11:00:00 | 01:00:00.0 | 44.8 | 28.2 | 64.4 | 49.8 | 48.2 | 38.3 | 33.7 | 0.0 | 2.5 | Thursday | Plant off |

| Table 2 | | | Locn N2 | | | | | | | | | | Plant |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|--------------------|-------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | Status | |
| 2018-11-01 | 12:00:00 | 01:00:00.0 | 45.3 | 29.8 | 66.6 | 52.1 | 46.2 | 38.8 | 35.8 | 0.0 | 2.0 | Thursday Plant off | |
| 2018-11-01 | 13:00:00 | 01:00:00.0 | 47.5 | 30.7 | 85.7 | 49.8 | 47.1 | 38.8 | 33.5 | 0.5 | 2.5 | Thursday Plant off | |
| 2018-11-01 | 14:00:00 | 01:00:00.0 | 40.1 | 31.9 | 60.9 | 45.0 | 42.6 | 37.1 | 34.5 | 0.0 | 3.5 | Thursday Plant off | |
| 2018-11-01 | 15:00:00 | 01:00:00.0 | 40.3 | 29.4 | 64.0 | 44.6 | 43.0 | 37.5 | 33.8 | 0.0 | 1.5 | Thursday Plant off | |
| 2018-11-01 | 16:00:00 | 01:00:00.0 | 45.1 | 27.3 | 63.8 | 53.4 | 44.1 | 37.3 | 32.8 | 0.0 | 2.0 | Thursday Plant off | |
| 2018-11-01 | 17:00:00 | 01:00:00.0 | 38.4 | 26.1 | 63.5 | 42.0 | 40.5 | 36.6 | 32.5 | 0.0 | 1.5 | Thursday Plant off | |
| 2018-11-01 | 18:00:00 | 01:00:00.0 | 34.9 | 25.6 | 48.9 | 39.1 | 37.6 | 33.4 | 29.3 | 0.0 | 1.5 | Thursday Plant off | |
| 2018-11-01 | 19:00:00 | 01:00:00.0 | 35.7 | 25.4 | 54.1 | 40.9 | 39.3 | 33.0 | 28.8 | 0.0 | 1.0 | Thursday Plant off | |
| 2018-11-01 | 20:00:00 | 01:00:00.0 | 33.8 | 22.8 | 48.1 | 38.5 | 37.2 | 31.4 | 27.8 | 0.0 | 0.0 | Thursday Plant off | |
| 2018-11-01 | 21:00:00 | 01:00:00.0 | 34.6 | 22.5 | 49.5 | 39.2 | 37.6 | 32.8 | 27.8 | 0.0 | 1.0 | Thursday Plant off | |
| 2018-11-01 | 22:00:00 | 01:00:00.0 | 33.2 | 20.4 | 45.9 | 38.1 | 36.6 | 31.4 | 26.8 | 0.0 | 1.5 | Thursday Plant off | |
| 2018-11-01 | 23:00:00 | 01:00:00.0 | 34.1 | 21.5 | 47.9 | 39.2 | 37.8 | 31.8 | 27.0 | 0.0 | 0.5 | Thursday Plant off | |
| 2018-11-02 | 00:00:00 | 01:00:00.0 | 31.8 | 17.7 | 45.8 | 37.5 | 35.3 | 28.7 | 21.4 | 0.0 | 0.5 | Friday Plant off | |
| 2018-11-02 | 01:00:00 | 01:00:00.0 | 31.8 | 16.8 | 48.7 | 37.7 | 35.9 | 27.5 | 20.2 | 0.0 | 0.5 | Friday Plant off | |
| 2018-11-02 | 02:00:00 | 01:00:00.0 | 33.8 | 17.4 | 51.8 | 39.6 | 37.3 | 29.5 | 21.4 | 0.0 | 1.0 | Friday Plant off | |
| 2018-11-02 | 03:00:00 | 01:00:00.0 | 34.2 | 17.2 | 51.2 | 40.2 | 38.2 | 29.8 | 19.5 | 0.0 | 1.5 | Friday Plant off | |
| 2018-11-02 | 04:00:00 | 01:00:00.0 | 37.3 | 18.8 | 54.0 | 43.4 | 41.3 | 33.5 | 21.5 | 0.0 | 2.8 | Friday Plant off | |
| 2018-11-02 | 05:00:00 | 01:00:00.0 | 44.6 | 22.7 | 56.6 | 49.4 | 48.1 | 42.6 | 35.3 | 0.0 | 3.6 | Friday Plant off | |
| 2018-11-02 | 06:00:00 | 01:00:00.0 | 48.9 | 35.5 | 67.3 | 52.1 | 51.1 | 47.8 | 43.5 | 0.0 | 2.6 | Friday Plant off | |
| 2018-11-02 | 07:00:00 | 01:00:00.0 | 50.6 | 43.0 | 68.3 | 53.3 | 52.6 | 50.0 | 47.3 | 0.0 | 2.2 | Friday Plant off | |
| 2018-11-02 | 08:00:00 | 01:00:00.0 | 49.1 | 43.9 | 60.4 | 51.4 | 50.8 | 48.7 | 47.0 | 0.0 | 2.0 | Friday Plant on | |
| 2018-11-02 | 09:00:00 | 01:00:00.0 | 47.8 | 42.9 | 60.2 | 50.0 | 49.4 | 47.5 | 45.8 | 0.0 | 1.6 | Friday Plant on | |
| 2018-11-02 | 10:00:00 | 01:00:00.0 | 47.7 | 40.8 | 67.4 | 50.2 | 49.4 | 47.2 | 45.3 | 0.0 | 1.8 | Friday Plant on | |
| 2018-11-02 | 11:00:00 | 01:00:00.0 | 49.4 | 40.8 | 61.4 | 52.3 | 51.4 | 48.9 | 46.7 | 0.0 | 2.0 | Friday Plant on | |
| 2018-11-02 | 12:00:00 | 01:00:00.0 | 50.1 | 39.6 | 64.4 | 53.2 | 52.3 | 49.7 | 45.7 | 0.0 | 2.6 | Friday Plant on | |
| 2018-11-02 | 13:00:00 | 01:00:00.0 | 50.3 | 39.2 | 65.0 | 54.1 | 53.1 | 49.3 | 44.2 | 0.2 | 4.8 | Friday Plant off | |
| 2018-11-02 | 14:00:00 | 01:00:00.0 | 50.5 | 44.2 | 63.9 | 53.4 | 52.4 | 49.8 | 47.9 | 0.6 | 6.0 | Friday Plant off | |
| 2018-11-02 | 15:00:00 | 01:00:00.0 | 50.6 | 38.7 | 64.4 | 54.1 | 53.0 | 50.0 | 44.9 | 0.6 | 5.5 | Friday Plant off | |
| 2018-11-02 | 16:00:00 | 01:00:00.0 | 48.6 | 42.4 | 61.9 | 51.1 | 50.3 | 48.2 | 46.1 | 0.5 | 5.5 | Friday Plant off | |
| 2018-11-02 | 17:00:00 | 01:00:00.0 | 52.6 | 45.8 | 63.8 | 55.5 | 54.5 | 51.9 | 49.6 | 0.8 | 6.5 | Friday Plant off | |
| 2018-11-02 | 18:00:00 | 01:00:00.0 | 54.2 | 47.5 | 64.0 | 57.6 | 56.6 | 53.4 | 50.8 | 0.6 | 7.5 | Friday Plant off | |
| 2018-11-02 | 19:00:00 | 01:00:00.0 | 55.2 | 46.8 | 66.2 | 59.0 | 57.9 | 54.2 | 51.2 | 0.0 | 8.0 | Friday Plant off | |
| 2018-11-02 | 20:00:00 | 01:00:00.0 | 51.5 | 43.1 | 62.6 | 55.0 | 54.0 | 50.7 | 47.6 | 0.0 | 7.5 | Friday Plant off | |
| 2018-11-02 | 21:00:00 | 01:00:00.0 | 51.1 | 43.5 | 61.1 | 54.8 | 53.8 | 50.1 | 47.0 | 0.0 | 7.0 | Friday Plant off | |
| 2018-11-02 | 22:00:00 | 01:00:00.0 | 52.0 | 45.0 | 63.7 | 55.7 | 54.4 | 51.1 | 48.5 | 0.0 | 7.5 | Friday Plant off | |
| 2018-11-02 | 23:00:00 | 01:00:00.0 | 50.2 | 43.1 | 62.8 | 53.5 | 52.5 | 49.4 | 46.6 | 0.0 | 7.4 | Friday Plant off | |
| 2018-11-03 | 00:00:00 | 01:00:00.0 | 49.4 | 42.7 | 61.9 | 52.7 | 51.7 | 48.6 | 46.4 | 0.0 | 5.0 | Saturday Plant off | |
| 2018-11-03 | 01:00:00 | 01:00:00.0 | 49.4 | 42.5 | 60.6 | 52.8 | 51.6 | 48.5 | 46.2 | 0.0 | 6.0 | Saturday Plant off | |
| 2018-11-03 | 02:00:00 | 01:00:00.0 | 50.7 | 39.2 | 62.3 | 54.3 | 53.4 | 50.0 | 45.0 | 0.0 | 6.5 | Saturday Plant off | |
| 2018-11-03 | 03:00:00 | 01:00:00.0 | 47.4 | 32.5 | 59.1 | 52.4 | 50.7 | 45.6 | 38.3 | 0.0 | 5.5 | Saturday Plant off | |
| 2018-11-03 | 04:00:00 | 01:00:00.0 | 49.1 | 41.0 | 61.4 | 52.9 | 51.5 | 47.8 | 44.8 | 0.5 | 6.5 | Saturday Plant off | |
| 2018-11-03 | 05:00:00 | 01:00:00.0 | 49.3 | 40.9 | 61.6 | 53.4 | 52.1 | 48.1 | 44.9 | 0.4 | 6.0 | Saturday Plant off | |
| 2018-11-03 | 06:00:00 | 01:00:00.0 | 46.0 | 38.3 | 58.4 | 48.9 | 48.1 | 45.4 | 42.8 | 0.4 | 5.5 | Saturday Plant off | |
| 2018-11-03 | 07:00:00 | 01:00:00.0 | 47.9 | 40.3 | 64.4 | 51.3 | 50.3 | 46.9 | 44.2 | 0.6 | 5.0 | Saturday Plant off | |
| 2018-11-03 | 08:00:00 | 01:00:00.0 | 46.2 | 37.6 | 66.5 | 50.0 | 48.7 | 45.0 | 41.3 | 1.6 | 7.0 | Saturday Plant off | |
| 2018-11-03 | 09:00:00 | 01:00:00.0 | 50.1 | 40.1 | 68.4 | 54.9 | 53.1 | 47.6 | 43.7 | 0.3 | 6.0 | Saturday Plant off | |
| 2018-11-03 | 10:00:00 | 01:00:00.0 | 45.7 | 37.1 | 82.2 | 48.0 | 46.6 | 43.2 | 40.6 | 0.0 | 5.5 | Saturday Plant off | |
| 2018-11-03 | 11:00:00 | 01:00:00.0 | 47.5 | 38.6 | 69.5 | 50.9 | 49.8 | 46.2 | 43.4 | 0.9 | 5.5 | Saturday Plant off | |

| Table 2 | | | Locn N2 | | | | | | | | | | Plant |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|----------|-----------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | Day | Status |
| 2018-11-03 | 12:00:00 | 01:00:00.0 | 50.1 | 40.9 | 70.0 | 55.3 | 53.4 | 47.4 | 43.8 | 0.0 | 6.5 | Saturday | Plant off |
| 2018-11-03 | 13:00:00 | 01:00:00.0 | 48.4 | 41.8 | 63.5 | 51.9 | 50.8 | 47.5 | 44.8 | 0.0 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 14:00:00 | 01:00:00.0 | 47.5 | 38.7 | 60.9 | 51.6 | 50.2 | 46.3 | 43.5 | 0.0 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 15:00:00 | 01:00:00.0 | 48.5 | 38.0 | 63.4 | 52.7 | 51.1 | 46.9 | 43.7 | 0.0 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 16:00:00 | 01:00:00.0 | 47.9 | 41.0 | 62.4 | 51.6 | 50.2 | 46.5 | 44.1 | 0.0 | 7.0 | Saturday | Plant off |
| 2018-11-03 | 17:00:00 | 01:00:00.0 | 46.3 | 40.2 | 72.4 | 49.1 | 48.3 | 45.5 | 43.2 | 0.0 | 6.5 | Saturday | Plant off |
| 2018-11-03 | 18:00:00 | 01:00:00.0 | 47.3 | 39.7 | 64.2 | 50.6 | 49.6 | 46.4 | 43.7 | 0.0 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 19:00:00 | 01:00:00.0 | 50.6 | 40.6 | 71.6 | 55.8 | 52.2 | 47.5 | 44.8 | 0.0 | 4.0 | Saturday | Plant off |
| 2018-11-03 | 20:00:00 | 01:00:00.0 | 48.6 | 35.4 | 61.5 | 53.9 | 52.4 | 46.0 | 40.2 | 0.8 | 5.0 | Saturday | Plant off |
| 2018-11-03 | 21:00:00 | 01:00:00.0 | 43.1 | 32.3 | 55.4 | 46.5 | 45.5 | 42.4 | 38.6 | 0.0 | 5.0 | Saturday | Plant off |
| 2018-11-03 | 22:00:00 | 01:00:00.0 | 43.4 | 35.0 | 54.3 | 46.6 | 45.8 | 42.7 | 39.3 | 0.0 | 4.0 | Saturday | Plant off |
| 2018-11-03 | 23:00:00 | 01:00:00.0 | 44.5 | 36.5 | 55.2 | 48.3 | 47.0 | 43.5 | 40.8 | 0.0 | 5.0 | Saturday | Plant off |
| 2018-11-04 | 00:00:00 | 01:00:00.0 | 42.2 | 33.9 | 54.1 | 45.8 | 44.8 | 41.3 | 37.9 | 0.0 | 4.8 | Sunday | Plant off |
| 2018-11-04 | 01:00:00 | 01:00:00.0 | 39.7 | 29.2 | 51.6 | 43.5 | 42.5 | 38.5 | 34.9 | 0.0 | 4.0 | Sunday | Plant off |
| 2018-11-04 | 02:00:00 | 01:00:00.0 | 39.6 | 30.5 | 52.0 | 43.5 | 42.3 | 38.4 | 34.7 | 0.0 | 4.8 | Sunday | Plant off |
| 2018-11-04 | 03:00:00 | 01:00:00.0 | 41.3 | 28.9 | 56.1 | 45.8 | 44.3 | 39.5 | 35.2 | 0.0 | 4.6 | Sunday | Plant off |
| 2018-11-04 | 04:00:00 | 01:00:00.0 | 39.3 | 30.0 | 52.4 | 43.3 | 42.2 | 38.0 | 34.2 | 0.0 | 3.8 | Sunday | Plant off |
| 2018-11-04 | 05:00:00 | 01:00:00.0 | 38.3 | 26.9 | 52.5 | 43.2 | 41.6 | 36.0 | 30.9 | 0.0 | 4.2 | Sunday | Plant off |
| 2018-11-04 | 06:00:00 | 01:00:00.0 | 39.0 | 28.3 | 60.6 | 42.9 | 41.6 | 37.6 | 33.3 | 0.0 | 4.2 | Sunday | Plant off |
| 2018-11-04 | 07:00:00 | 01:00:00.0 | 42.5 | 32.2 | 58.5 | 46.4 | 45.2 | 41.1 | 36.7 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 08:00:00 | 01:00:00.0 | 43.3 | 32.7 | 64.1 | 47.3 | 45.9 | 41.7 | 38.2 | 0.0 | 3.5 | Sunday | Plant off |
| 2018-11-04 | 09:00:00 | 01:00:00.0 | 44.2 | 36.5 | 62.9 | 47.2 | 46.2 | 43.2 | 40.7 | 0.0 | 4.0 | Sunday | Plant off |
| 2018-11-04 | 10:00:00 | 01:00:00.0 | 43.4 | 36.6 | 65.2 | 46.1 | 45.1 | 42.5 | 40.3 | 0.0 | 5.0 | Sunday | Plant off |
| 2018-11-04 | 11:00:00 | 01:00:00.0 | 43.8 | 36.2 | 66.1 | 46.3 | 45.3 | 42.4 | 40.0 | 0.0 | 4.5 | Sunday | Plant off |
| 2018-11-04 | 12:00:00 | 01:00:00.0 | 43.5 | 34.7 | 67.3 | 46.1 | 45.2 | 42.2 | 39.6 | 0.0 | 3.5 | Sunday | Plant off |
| 2018-11-04 | 13:00:00 | 01:00:00.0 | 41.9 | 32.9 | 67.4 | 44.4 | 43.4 | 40.7 | 37.8 | 0.0 | 3.0 | Sunday | Plant off |
| 2018-11-04 | 14:00:00 | 01:00:00.0 | 41.1 | 30.6 | 63.9 | 44.3 | 42.9 | 39.3 | 36.1 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 15:00:00 | 01:00:00.0 | 39.4 | 30.8 | 63.6 | 42.9 | 41.9 | 38.4 | 35.1 | 0.0 | 1.0 | Sunday | Plant off |
| 2018-11-04 | 16:00:00 | 01:00:00.0 | 45.3 | 37.0 | 65.3 | 48.5 | 47.7 | 44.2 | 41.1 | 0.0 | 1.0 | Sunday | Plant off |
| 2018-11-04 | 17:00:00 | 01:00:00.0 | 47.3 | 40.2 | 71.7 | 49.3 | 48.7 | 46.6 | 44.4 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 18:00:00 | 01:00:00.0 | 45.0 | 34.7 | 52.6 | 48.0 | 47.2 | 44.6 | 41.5 | 0.0 | 1.5 | Sunday | Plant off |
| 2018-11-04 | 19:00:00 | 01:00:00.0 | 45.8 | 33.5 | 58.3 | 49.7 | 48.5 | 44.8 | 41.1 | 0.0 | 1.5 | Sunday | Plant off |
| 2018-11-04 | 20:00:00 | 01:00:00.0 | 45.6 | 34.0 | 54.0 | 49.1 | 48.2 | 45.0 | 41.0 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 21:00:00 | 01:00:00.0 | 44.0 | 31.3 | 54.7 | 47.9 | 46.8 | 43.1 | 38.6 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-04 | 22:00:00 | 01:00:00.0 | 43.8 | 26.9 | 56.5 | 48.1 | 46.8 | 42.4 | 37.2 | 0.0 | 1.5 | Sunday | Plant off |
| 2018-11-04 | 23:00:00 | 01:00:00.0 | 41.0 | 20.0 | 55.8 | 46.2 | 44.6 | 38.2 | 30.6 | 0.0 | 2.0 | Sunday | Plant off |
| 2018-11-05 | 00:00:00 | 01:00:00.0 | 37.7 | 18.9 | 53.8 | 43.5 | 41.1 | 34.2 | 25.5 | 0.4 | 1.5 | Monday | Plant off |
| 2018-11-05 | 01:00:00 | 01:00:00.0 | 38.9 | 21.9 | 58.9 | 44.4 | 42.6 | 36.3 | 28.2 | 1.4 | 1.5 | Monday | Plant off |
| 2018-11-05 | 02:00:00 | 01:00:00.0 | 34.6 | 26.6 | 51.9 | 39.4 | 37.3 | 32.7 | 29.8 | 1.0 | 1.5 | Monday | Plant off |
| 2018-11-05 | 03:00:00 | 01:00:00.0 | 30.1 | 19.2 | 47.8 | 35.5 | 32.8 | 27.7 | 21.9 | 0.9 | 1.5 | Monday | Plant off |
| 2018-11-05 | 04:00:00 | 01:00:00.0 | 32.2 | 17.8 | 54.6 | 37.6 | 35.1 | 26.3 | 20.8 | 0.4 | 2.5 | Monday | Plant off |
| 2018-11-05 | 05:00:00 | 01:00:00.0 | 35.7 | 18.4 | 49.9 | 41.3 | 39.3 | 32.8 | 23.8 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 06:00:00 | 01:00:00.0 | 38.8 | 26.1 | 64.1 | 42.4 | 41.1 | 36.8 | 33.0 | 0.0 | 3.0 | Monday | Plant off |
| 2018-11-05 | 07:00:00 | 01:00:00.0 | 43.7 | 29.3 | 71.7 | 44.2 | 42.5 | 39.2 | 35.9 | 0.0 | 3.0 | Monday | Plant off |
| 2018-11-05 | 08:00:00 | 01:00:00.0 | 50.9 | 36.2 | 79.8 | 48.7 | 47.5 | 44.3 | 41.5 | 0.0 | 3.5 | Monday | Plant on |
| 2018-11-05 | 09:00:00 | 01:00:00.0 | 47.6 | 35.5 | 79.7 | 47.0 | 45.6 | 42.6 | 39.6 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 10:00:00 | 01:00:00.0 | 43.8 | 33.5 | 72.8 | 44.9 | 42.2 | 38.9 | 36.9 | 0.0 | 3.0 | Monday | Plant on |
| 2018-11-05 | 11:00:00 | 01:00:00.0 | 44.0 | 34.3 | 68.8 | 48.7 | 45.4 | 39.5 | 37.2 | 0.0 | 2.5 | Monday | Plant on |

| Table 2 | | | Locn N2 | | | | | | | | | | Plant |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|---------|-----------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Status |
| 2018-11-05 | 12:00:00 | 01:00:00.0 | 45.5 | 34.1 | 70.0 | 50.8 | 47.7 | 40.8 | 37.1 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 13:00:00 | 01:00:00.0 | 39.8 | 30.6 | 65.8 | 43.2 | 41.9 | 37.3 | 33.9 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 14:00:00 | 01:00:00.0 | 45.1 | 34.7 | 65.7 | 49.2 | 47.8 | 43.2 | 39.5 | 0.0 | 0.5 | Monday | Plant on |
| 2018-11-05 | 15:00:00 | 01:00:00.0 | 40.9 | 33.7 | 60.4 | 44.9 | 42.4 | 39.0 | 37.1 | 0.0 | 1.0 | Monday | Plant on |
| 2018-11-05 | 16:00:00 | 01:00:00.0 | 44.6 | 35.2 | 64.6 | 47.5 | 46.6 | 43.9 | 41.0 | 0.0 | 1.0 | Monday | Plant on |
| 2018-11-05 | 17:00:00 | 01:00:00.0 | 42.0 | 34.2 | 70.0 | 43.9 | 43.1 | 40.7 | 38.6 | 0.0 | 1.0 | Monday | Plant off |
| 2018-11-05 | 18:00:00 | 01:00:00.0 | 43.4 | 36.0 | 55.9 | 46.7 | 45.8 | 42.6 | 40.1 | 0.0 | 2.0 | Monday | Plant off |
| 2018-11-05 | 19:00:00 | 01:00:00.0 | 41.3 | 34.3 | 51.7 | 44.7 | 43.7 | 40.5 | 38.0 | 0.0 | 1.0 | Monday | Plant off |
| 2018-11-05 | 20:00:00 | 01:00:00.0 | 41.3 | 30.6 | 58.1 | 45.1 | 43.9 | 40.2 | 36.9 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 21:00:00 | 01:00:00.0 | 40.2 | 30.0 | 52.3 | 43.8 | 42.7 | 39.3 | 35.6 | 0.0 | 1.5 | Monday | Plant off |
| 2018-11-05 | 22:00:00 | 01:00:00.0 | 41.7 | 27.6 | 55.9 | 46.2 | 44.9 | 40.2 | 35.1 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 23:00:00 | 01:00:00.0 | 42.9 | 26.4 | 56.2 | 47.7 | 46.3 | 41.1 | 35.2 | 0.0 | 2.0 | Monday | Plant off |
| 2018-11-06 | 00:00:00 | 01:00:00.0 | 39.9 | 21.4 | 58.2 | 44.9 | 43.4 | 37.2 | 28.2 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 01:00:00 | 01:00:00.0 | 38.7 | 20.4 | 57.1 | 44.7 | 42.9 | 34.1 | 24.5 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 02:00:00 | 01:00:00.0 | 39.8 | 24.0 | 52.3 | 44.5 | 43.0 | 38.1 | 32.4 | 0.0 | 3.0 | Tuesday | Plant off |
| 2018-11-06 | 03:00:00 | 01:00:00.0 | 42.6 | 32.1 | 54.5 | 46.0 | 45.0 | 42.0 | 38.1 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 04:00:00 | 01:00:00.0 | 38.6 | 25.2 | 51.4 | 43.3 | 42.0 | 36.8 | 31.7 | 0.0 | 3.0 | Tuesday | Plant off |
| 2018-11-06 | 05:00:00 | 01:00:00.0 | 44.2 | 30.7 | 54.7 | 48.1 | 47.1 | 43.3 | 38.4 | 0.0 | 4.5 | Tuesday | Plant off |
| 2018-11-06 | 06:00:00 | 01:00:00.0 | 47.7 | 40.2 | 60.0 | 50.8 | 49.8 | 47.0 | 44.3 | 0.0 | 5.8 | Tuesday | Plant off |
| 2018-11-06 | 07:00:00 | 01:00:00.0 | 49.7 | 45.2 | 69.4 | 51.7 | 51.1 | 49.3 | 47.6 | 0.0 | 6.0 | Tuesday | Plant off |
| 2018-11-06 | 08:00:00 | 01:00:00.0 | 50.2 | 43.0 | 67.1 | 52.4 | 51.7 | 49.9 | 48.0 | 0.0 | 6.5 | Tuesday | Plant on |
| 2018-11-06 | 09:00:00 | 01:00:00.0 | 49.7 | 42.0 | 64.9 | 52.3 | 51.7 | 49.2 | 46.6 | 0.0 | 5.2 | Tuesday | Plant on |
| 2018-11-06 | 10:00:00 | 01:00:00.0 | 48.9 | 39.7 | 69.8 | 51.6 | 50.7 | 48.2 | 45.6 | 0.0 | 5.4 | Tuesday | Plant on |
| 2018-11-06 | 11:00:00 | 01:00:00.0 | 49.7 | 43.8 | 62.7 | 52.6 | 51.6 | 49.0 | 47.0 | 0.0 | 5.6 | Tuesday | Plant on |
| 2018-11-06 | 12:00:00 | 01:00:00.0 | 49.5 | 41.6 | 59.8 | 52.3 | 51.5 | 49.0 | 46.6 | 0.2 | 5.0 | Tuesday | Plant on |
| 2018-11-06 | 13:00:00 | 01:00:00.0 | 49.0 | 40.4 | 62.4 | 53.7 | 52.5 | 46.7 | 43.8 | 0.2 | 6.2 | Tuesday | Plant on |
| 2018-11-06 | 14:00:00 | 01:00:00.0 | 49.8 | 43.6 | 63.4 | 53.0 | 52.0 | 49.1 | 46.9 | 0.6 | 5.2 | Tuesday | Plant on |
| 2018-11-06 | 15:00:00 | 01:00:00.0 | 49.0 | 42.5 | 67.5 | 51.9 | 50.9 | 48.1 | 45.7 | 2.1 | 3.8 | Tuesday | Plant on |
| 2018-11-06 | 16:00:00 | 01:00:00.0 | 49.3 | 39.0 | 65.2 | 52.9 | 51.9 | 48.5 | 44.3 | 0.0 | 3.2 | Tuesday | Plant on |
| 2018-11-06 | 17:00:00 | 01:00:00.0 | 46.9 | 39.0 | 61.8 | 49.4 | 48.7 | 46.5 | 44.2 | 0.0 | 5.0 | Tuesday | Plant off |
| 2018-11-06 | 18:00:00 | 01:00:00.0 | 46.3 | 37.2 | 60.3 | 49.3 | 48.5 | 45.8 | 43.0 | 0.0 | 4.0 | Tuesday | Plant off |
| 2018-11-06 | 19:00:00 | 01:00:00.0 | 44.3 | 32.0 | 55.1 | 47.5 | 46.7 | 43.8 | 40.0 | 0.0 | 4.5 | Tuesday | Plant off |
| 2018-11-06 | 20:00:00 | 01:00:00.0 | 44.6 | 32.4 | 54.8 | 47.9 | 47.0 | 43.9 | 40.6 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-11-06 | 21:00:00 | 01:00:00.0 | 44.7 | 31.7 | 56.7 | 48.3 | 47.3 | 43.8 | 39.5 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-11-06 | 22:00:00 | 01:00:00.0 | 43.0 | 25.9 | 59.4 | 47.5 | 46.3 | 41.4 | 35.8 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-11-06 | 23:00:00 | 01:00:00.0 | 42.7 | 23.2 | 57.6 | 48.2 | 46.6 | 39.8 | 30.8 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-11-07 | 00:00:00 | 01:00:00.0 | 39.4 | 17.7 | 54.6 | 45.3 | 43.5 | 35.8 | 23.9 | 0.0 | 3.0 | Wednesd | Plant off |
| 2018-11-07 | 01:00:00 | 01:00:00.0 | 35.8 | 18.1 | 53.2 | 41.6 | 39.6 | 31.8 | 22.5 | 0.0 | 3.5 | Wednesd | Plant off |
| 2018-11-07 | 02:00:00 | 01:00:00.0 | 37.0 | 16.9 | 52.9 | 42.9 | 41.0 | 32.3 | 19.7 | 0.0 | 3.0 | Wednesd | Plant off |
| 2018-11-07 | 03:00:00 | 01:00:00.0 | 34.6 | 16.0 | 53.3 | 41.0 | 38.2 | 27.0 | 17.4 | 0.0 | 2.5 | Wednesd | Plant off |
| 2018-11-07 | 04:00:00 | 01:00:00.0 | 34.1 | 16.4 | 51.8 | 39.8 | 37.7 | 29.5 | 21.8 | 0.0 | 3.5 | Wednesd | Plant off |
| 2018-11-07 | 05:00:00 | 01:00:00.0 | 27.6 | 16.5 | 43.2 | 32.2 | 30.5 | 25.9 | 20.4 | 0.0 | 2.2 | Wednesd | Plant off |
| 2018-11-07 | 06:00:00 | 01:00:00.0 | 34.9 | 20.9 | 50.0 | 39.0 | 37.5 | 33.5 | 28.7 | 0.0 | 2.4 | Wednesd | Plant off |
| 2018-11-07 | 07:00:00 | 01:00:00.0 | 39.7 | 32.5 | 65.8 | 41.0 | 39.6 | 37.1 | 35.2 | 0.0 | 2.6 | Wednesd | Plant off |
| 2018-11-07 | 08:00:00 | 01:00:00.0 | 52.6 | 35.0 | 72.1 | 57.9 | 56.5 | 49.9 | 41.5 | 0.0 | 2.8 | Wednesd | Plant on |
| 2018-11-07 | 09:00:00 | 01:00:00.0 | 51.6 | 34.7 | 70.0 | 55.3 | 54.2 | 50.8 | 45.4 | 0.0 | 2.2 | Wednesd | Plant on |
| 2018-11-07 | 10:00:00 | 01:00:00.0 | 50.0 | 31.5 | 66.5 | 54.9 | 53.8 | 48.8 | 37.9 | 0.0 | 3.2 | Wednesd | Plant on |
| 2018-11-07 | 11:00:00 | 01:00:00.0 | 51.8 | 43.2 | 65.7 | 55.5 | 54.3 | 50.8 | 48.7 | 0.0 | 5.6 | Wednesd | Plant on |

| Table 2 | | | Locn N2 | | | | | | | | | | Plant |
|------------|----------|------------|---------|------|------|------|------|------|------|------|------|---------------------|-------|
| Date | Time | Duration | Leq | Lmin | Lmax | L5 | L10 | L50 | L90 | Rain | wind | Status | |
| | | | dBa | dBa | dBa | dBa | dBa | dBa | dBa | mm | m/s | | |
| 2018-11-07 | 12:00:00 | 01:00:00.0 | 53.3 | 35.4 | 66.2 | 57.9 | 56.5 | 52.0 | 43.9 | 0.0 | 4.8 | Wednesday Plant on | |
| 2018-11-07 | 13:00:00 | 01:00:00.0 | 48.1 | 33.6 | 65.0 | 54.3 | 52.8 | 41.3 | 39.0 | 0.0 | 4.6 | Wednesday Plant on | |
| 2018-11-07 | 14:00:00 | 01:00:00.0 | 48.1 | 39.4 | 63.2 | 51.7 | 50.6 | 47.0 | 45.9 | 0.0 | 5.4 | Wednesday Plant on | |
| 2018-11-07 | 15:00:00 | 01:00:00.0 | 48.1 | 39.5 | 64.7 | 51.8 | 50.6 | 47.0 | 45.9 | 0.0 | 4.8 | Wednesday Plant on | |
| 2018-11-07 | 16:00:00 | 01:00:00.0 | 50.3 | 38.6 | 66.9 | 54.3 | 53.1 | 49.0 | 45.0 | 0.0 | 4.4 | Wednesday Plant on | |
| 2018-11-07 | 17:00:00 | 01:00:00.0 | 44.4 | 34.5 | 67.6 | 48.0 | 44.8 | 40.8 | 38.0 | 0.0 | 4.0 | Wednesday Plant off | |
| 2018-11-07 | 18:00:00 | 01:00:00.0 | 43.3 | 34.7 | 53.9 | 47.3 | 46.4 | 42.0 | 37.9 | 0.0 | 4.0 | Wednesday Plant off | |
| 2018-11-07 | 19:00:00 | 01:00:00.0 | 46.6 | 38.0 | 59.9 | 50.0 | 49.0 | 45.9 | 42.8 | 0.0 | 3.5 | Wednesday Plant off | |
| 2018-11-07 | 20:00:00 | 01:00:00.0 | 46.8 | 36.8 | 57.0 | 50.0 | 49.2 | 46.2 | 42.9 | 0.0 | 3.0 | Wednesday Plant off | |
| 2018-11-07 | 21:00:00 | 01:00:00.0 | 46.7 | 36.1 | 59.0 | 50.1 | 49.1 | 45.9 | 42.2 | 0.0 | 2.0 | Wednesday Plant off | |
| 2018-11-07 | 22:00:00 | 01:00:00.0 | 45.5 | 31.4 | 58.6 | 49.4 | 48.3 | 44.4 | 39.7 | 0.0 | 3.0 | Wednesday Plant off | |
| 2018-11-07 | 23:00:00 | 01:00:00.0 | 43.6 | 33.0 | 57.1 | 47.5 | 46.4 | 42.5 | 39.0 | 0.0 | 3.5 | Wednesday Plant off | |
| 2018-11-08 | 00:00:00 | 01:00:00.0 | 41.1 | 29.9 | 53.2 | 45.4 | 44.1 | 39.8 | 35.2 | 0.0 | 4.5 | Thursday Plant off | |
| 2018-11-08 | 01:00:00 | 01:00:00.0 | 39.9 | 21.9 | 65.3 | 45.2 | 43.4 | 36.3 | 28.6 | 0.0 | 4.0 | Thursday Plant off | |
| 2018-11-08 | 02:00:00 | 01:00:00.0 | 40.0 | 23.4 | 57.0 | 45.4 | 43.6 | 37.0 | 29.5 | 0.0 | 4.5 | Thursday Plant off | |
| 2018-11-08 | 03:00:00 | 01:00:00.0 | 38.7 | 23.5 | 56.0 | 44.2 | 42.4 | 35.3 | 27.1 | 0.0 | 3.0 | Thursday Plant off | |
| 2018-11-08 | 04:00:00 | 01:00:00.0 | 40.2 | 28.0 | 54.4 | 45.0 | 43.6 | 38.2 | 33.5 | 0.0 | 3.5 | Thursday Plant off | |
| 2018-11-08 | 05:00:00 | 01:00:00.0 | 43.8 | 30.2 | 57.7 | 48.0 | 46.9 | 42.5 | 36.4 | 0.0 | 6.5 | Thursday Plant off | |
| 2018-11-08 | 06:00:00 | 01:00:00.0 | 48.2 | 39.6 | 56.3 | 51.2 | 50.4 | 47.7 | 44.8 | 0.0 | 5.0 | Thursday Plant off | |
| 2018-11-08 | 07:00:00 | 01:00:00.0 | 50.1 | 44.7 | 66.5 | 52.2 | 51.6 | 49.8 | 48.1 | 0.0 | 4.3 | Thursday Plant off | |
| 2018-11-08 | 08:00:00 | 01:00:00.0 | 53.3 | 45.6 | 70.3 | 55.9 | 55.2 | 53.0 | 50.6 | 0.0 | 6.0 | Thursday | |

| Table 3 | | | Locn N3 | | | | | | | | | | |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|----------|-----------------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Plant Status |
| 2018-10-30 | 13:10:28 | 00:49:31.9 | 49.0 | 36.8 | 78.7 | 52.5 | 51.0 | 44.8 | 40.5 | 0.0 | 2.5 | Tuesday | Plant on |
| 2018-10-30 | 14:00:00 | 01:00:00.0 | 50.7 | 34.0 | 69.3 | 54.3 | 53.2 | 49.7 | 41.6 | 0.2 | 2.0 | Tuesday | Plant on |
| 2018-10-30 | 15:00:00 | 01:00:00.0 | 49.6 | 34.3 | 65.0 | 53.9 | 52.8 | 48.3 | 39.8 | 0.0 | 1.5 | Tuesday | Plant on |
| 2018-10-30 | 16:00:00 | 01:00:00.0 | 42.2 | 33.0 | 66.6 | 47.0 | 45.1 | 39.4 | 36.5 | 0.4 | 1.5 | Tuesday | Plant on |
| 2018-10-30 | 17:00:00 | 01:00:00.0 | 43.7 | 30.5 | 63.1 | 50.1 | 48.3 | 38.9 | 33.8 | 0.2 | 1.5 | Tuesday | Plant off |
| 2018-10-30 | 18:00:00 | 01:00:00.0 | 33.4 | 26.7 | 45.4 | 36.3 | 35.2 | 32.6 | 30.4 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-10-30 | 19:00:00 | 01:00:00.0 | 33.4 | 25.6 | 63.6 | 35.4 | 34.1 | 31.3 | 29.2 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-10-30 | 20:00:00 | 01:00:00.0 | 32.2 | 22.8 | 55.9 | 35.8 | 34.5 | 30.8 | 27.5 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-10-30 | 21:00:00 | 01:00:00.0 | 32.2 | 21.4 | 65.7 | 33.9 | 32.6 | 29.4 | 26.6 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-10-30 | 22:00:00 | 01:00:00.0 | 28.6 | 21.4 | 42.7 | 32.2 | 31.0 | 27.5 | 24.6 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-10-30 | 23:00:00 | 01:00:00.0 | 29.6 | 18.6 | 49.9 | 33.5 | 32.3 | 28.4 | 24.1 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-10-31 | 00:00:00 | 01:00:00.0 | 27.8 | 18.6 | 48.6 | 31.6 | 30.3 | 26.1 | 22.2 | 0.0 | 1.5 | Wednesd | Plant off |
| 2018-10-31 | 01:00:00 | 01:00:00.0 | 28.9 | 18.9 | 50.3 | 32.9 | 31.5 | 26.8 | 22.6 | 0.0 | 1.5 | Wednesd | Plant off |
| 2018-10-31 | 02:00:00 | 01:00:00.0 | 27.7 | 17.9 | 43.4 | 32.2 | 30.8 | 26.2 | 21.7 | 0.0 | 1.0 | Wednesd | Plant off |
| 2018-10-31 | 03:00:00 | 01:00:00.0 | 28.3 | 18.6 | 48.5 | 32.5 | 30.6 | 25.8 | 21.5 | 0.0 | 2.0 | Wednesd | Plant off |
| 2018-10-31 | 04:00:00 | 01:00:00.0 | 32.3 | 20.5 | 50.7 | 38.0 | 34.2 | 28.9 | 25.3 | 0.0 | 1.5 | Wednesd | Plant off |
| 2018-10-31 | 05:00:00 | 01:00:00.0 | 34.5 | 21.1 | 52.8 | 38.7 | 37.3 | 32.5 | 28.2 | 0.6 | 3.0 | Wednesd | Plant off |
| 2018-10-31 | 06:00:00 | 01:00:00.0 | 43.9 | 27.5 | 55.3 | 47.8 | 47.0 | 43.1 | 33.3 | 0.4 | 2.5 | Wednesd | Plant off |
| 2018-10-31 | 07:00:00 | 01:00:00.0 | 49.9 | 40.7 | 78.3 | 53.5 | 52.8 | 47.4 | 44.1 | 0.4 | 3.0 | Wednesd | Plant off |
| 2018-10-31 | 08:00:00 | 01:00:00.0 | 51.7 | 39.3 | 70.7 | 54.5 | 53.5 | 50.8 | 47.9 | 0.7 | 3.5 | Wednesd | Plant on |
| 2018-10-31 | 09:00:00 | 01:00:00.0 | 51.2 | 35.2 | 66.7 | 54.7 | 53.5 | 50.3 | 41.7 | 1.2 | 3.0 | Wednesd | Plant on |
| 2018-10-31 | 10:00:00 | 01:00:00.0 | 44.9 | 31.6 | 67.7 | 48.8 | 47.1 | 42.1 | 35.3 | 0.6 | 2.5 | Wednesd | Plant on |
| 2018-10-31 | 11:00:00 | 01:00:00.0 | 43.9 | 29.8 | 67.6 | 48.3 | 46.3 | 41.4 | 36.9 | 0.7 | 3.5 | Wednesd | Plant on |
| 2018-10-31 | 12:00:00 | 01:00:00.0 | 47.7 | 27.6 | 73.8 | 50.3 | 49.3 | 45.1 | 37.9 | 0.6 | 1.5 | Wednesd | Plant on |
| 2018-10-31 | 13:00:00 | 01:00:00.0 | 42.1 | 24.6 | 71.5 | 47.4 | 45.7 | 34.0 | 28.0 | 0.4 | 2.0 | Wednesd | Plant on |
| 2018-10-31 | 14:00:00 | 01:00:00.0 | 47.2 | 34.9 | 69.3 | 50.5 | 48.3 | 44.2 | 40.0 | 0.0 | 2.0 | Wednesd | Plant on |
| 2018-10-31 | 15:00:00 | 01:00:00.0 | 47.3 | 38.5 | 69.8 | 50.6 | 48.9 | 44.9 | 42.2 | 0.0 | 1.5 | Wednesd | Plant on |
| 2018-10-31 | 16:00:00 | 01:00:00.0 | 42.7 | 27.4 | 70.1 | 46.5 | 44.7 | 39.6 | 31.4 | 0.0 | 1.5 | Wednesd | Plant on |
| 2018-10-31 | 17:00:00 | 01:00:00.0 | 44.3 | 25.1 | 67.7 | 50.2 | 48.2 | 33.0 | 29.4 | 0.0 | 1.0 | Wednesd | Plant off |
| 2018-10-31 | 18:00:00 | 01:00:00.0 | 40.1 | 22.2 | 63.8 | 49.0 | 43.5 | 30.1 | 25.9 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 19:00:00 | 01:00:00.0 | 31.4 | 23.0 | 62.2 | 32.6 | 31.7 | 29.3 | 26.7 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 20:00:00 | 01:00:00.0 | 30.0 | 21.9 | 55.2 | 32.9 | 31.7 | 28.3 | 25.8 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 21:00:00 | 01:00:00.0 | 31.5 | 20.3 | 64.0 | 31.5 | 29.5 | 25.2 | 23.2 | 0.0 | 0.0 | Wednesd | Plant off |
| 2018-10-31 | 22:00:00 | 01:00:00.0 | 31.2 | 20.1 | 66.2 | 30.1 | 28.1 | 24.4 | 22.4 | 0.0 | 0.5 | Wednesd | Plant off |
| 2018-10-31 | 23:00:00 | 01:00:00.0 | 25.9 | 18.1 | 58.0 | 27.1 | 25.9 | 22.8 | 20.2 | 0.0 | 1.0 | Wednesd | Plant off |
| 2018-11-01 | 00:00:00 | 01:00:00.0 | 23.1 | 17.5 | 42.1 | 26.2 | 25.1 | 21.9 | 19.5 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 01:00:00 | 01:00:00.0 | 25.2 | 17.5 | 51.3 | 29.2 | 27.7 | 23.0 | 20.1 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 02:00:00 | 01:00:00.0 | 35.2 | 16.8 | 61.8 | 42.8 | 35.7 | 22.9 | 19.4 | 0.9 | 0.5 | Thursday | Plant off |
| 2018-11-01 | 03:00:00 | 01:00:00.0 | 32.2 | 17.0 | 58.3 | 37.0 | 27.1 | 21.4 | 18.7 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 04:00:00 | 01:00:00.0 | 23.5 | 17.2 | 47.9 | 27.4 | 25.9 | 21.2 | 18.8 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 05:00:00 | 01:00:00.0 | 35.0 | 18.2 | 54.5 | 42.0 | 38.3 | 26.3 | 22.6 | 0.0 | 2.0 | Thursday | Plant off |
| 2018-11-01 | 06:00:00 | 01:00:00.0 | 41.0 | 22.3 | 69.5 | 41.3 | 35.5 | 31.3 | 28.3 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 07:00:00 | 01:00:00.0 | 50.2 | 40.4 | 73.4 | 53.6 | 51.0 | 48.1 | 45.9 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 08:00:00 | 01:00:00.0 | 51.5 | 43.7 | 73.3 | 54.6 | 53.6 | 50.3 | 47.1 | 0.0 | 1.5 | Thursday | Plant on |
| 2018-11-01 | 09:00:00 | 01:00:00.0 | 48.1 | 34.6 | 81.2 | 49.8 | 48.1 | 44.3 | 40.8 | 0.0 | 2.5 | Thursday | Plant on |
| 2018-11-01 | 10:00:00 | 01:00:00.0 | 45.4 | 28.1 | 73.7 | 47.1 | 44.8 | 39.3 | 32.0 | 0.0 | 2.0 | Thursday | Plant on |
| 2018-11-01 | 11:00:00 | 01:00:00.0 | 44.2 | 24.8 | 68.8 | 48.9 | 45.4 | 37.9 | 30.5 | 0.0 | 2.5 | Thursday | Plant off |
| 2018-11-01 | 12:00:00 | 01:00:00.0 | 44.1 | 35.6 | 68.7 | 49.2 | 44.7 | 39.9 | 38.2 | 0.0 | 2.0 | Thursday | Plant off |

| Table 3 | | | Locn N3 | | | | | | | | | | |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|----------|-----------------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Plant Status |
| 2018-11-01 | 13:00:00 | 01:00:00.0 | 43.6 | 33.8 | 68.1 | 50.0 | 47.6 | 39.7 | 37.2 | 0.5 | 2.5 | Thursday | Plant off |
| 2018-11-01 | 14:00:00 | 01:00:00.0 | 43.5 | 27.0 | 66.3 | 46.3 | 45.0 | 41.2 | 36.3 | 0.0 | 3.5 | Thursday | Plant off |
| 2018-11-01 | 15:00:00 | 01:00:00.0 | 41.8 | 22.2 | 67.7 | 45.0 | 41.7 | 33.4 | 27.5 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 16:00:00 | 01:00:00.0 | 40.2 | 24.3 | 65.2 | 45.1 | 40.9 | 30.8 | 27.3 | 0.0 | 2.0 | Thursday | Plant off |
| 2018-11-01 | 17:00:00 | 01:00:00.0 | 43.0 | 24.2 | 64.2 | 51.0 | 48.6 | 32.5 | 28.1 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 18:00:00 | 01:00:00.0 | 28.9 | 24.1 | 45.2 | 31.4 | 30.6 | 28.3 | 26.5 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 19:00:00 | 01:00:00.0 | 29.8 | 22.8 | 59.6 | 31.3 | 30.1 | 27.2 | 25.3 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 20:00:00 | 01:00:00.0 | 29.6 | 20.7 | 61.7 | 30.9 | 29.7 | 26.8 | 24.3 | 0.0 | 0.0 | Thursday | Plant off |
| 2018-11-01 | 21:00:00 | 01:00:00.0 | 28.9 | 21.6 | 44.1 | 32.4 | 31.0 | 27.6 | 25.0 | 0.0 | 1.0 | Thursday | Plant off |
| 2018-11-01 | 22:00:00 | 01:00:00.0 | 31.4 | 19.3 | 64.1 | 32.1 | 30.1 | 25.5 | 23.0 | 0.0 | 1.5 | Thursday | Plant off |
| 2018-11-01 | 23:00:00 | 01:00:00.0 | 25.6 | 19.1 | 51.7 | 28.6 | 27.6 | 24.5 | 22.1 | 0.0 | 0.5 | Thursday | Plant off |
| 2018-11-02 | 00:00:00 | 01:00:00.0 | 26.5 | 17.0 | 52.4 | 27.6 | 25.7 | 21.9 | 19.2 | 0.0 | 0.5 | Friday | Plant off |
| 2018-11-02 | 01:00:00 | 01:00:00.0 | 23.0 | 17.1 | 46.9 | 26.1 | 24.8 | 21.5 | 19.1 | 0.0 | 0.5 | Friday | Plant off |
| 2018-11-02 | 02:00:00 | 01:00:00.0 | 27.1 | 17.4 | 54.2 | 28.6 | 26.7 | 22.0 | 19.5 | 0.0 | 1.0 | Friday | Plant off |
| 2018-11-02 | 03:00:00 | 01:00:00.0 | 24.1 | 17.1 | 50.1 | 27.4 | 25.9 | 21.8 | 19.2 | 0.0 | 1.5 | Friday | Plant off |
| 2018-11-02 | 04:00:00 | 01:00:00.0 | 24.8 | 17.2 | 42.4 | 28.9 | 27.5 | 23.3 | 19.3 | 0.0 | 2.8 | Friday | Plant off |
| 2018-11-02 | 05:00:00 | 01:00:00.0 | 31.4 | 20.9 | 42.2 | 35.3 | 34.5 | 30.0 | 25.5 | 0.0 | 3.6 | Friday | Plant off |
| 2018-11-02 | 06:00:00 | 01:00:00.0 | 37.7 | 25.8 | 66.6 | 39.8 | 38.8 | 36.7 | 33.1 | 0.0 | 2.6 | Friday | Plant off |
| 2018-11-02 | 07:00:00 | 01:00:00.0 | 50.0 | 34.3 | 80.1 | 52.6 | 51.5 | 45.5 | 38.1 | 0.0 | 2.2 | Friday | Plant off |
| 2018-11-02 | 08:00:00 | 01:00:00.0 | 55.3 | 47.7 | 75.7 | 58.1 | 57.1 | 54.2 | 51.7 | 0.0 | 2.0 | Friday | Plant on |
| 2018-11-02 | 09:00:00 | 01:00:00.0 | 53.7 | 42.2 | 67.5 | 56.9 | 55.9 | 53.1 | 47.5 | 0.0 | 1.6 | Friday | Plant on |
| 2018-11-02 | 10:00:00 | 01:00:00.0 | 52.1 | 36.9 | 67.4 | 57.1 | 55.8 | 50.2 | 40.0 | 0.0 | 1.8 | Friday | Plant on |
| 2018-11-02 | 11:00:00 | 01:00:00.0 | 54.8 | 46.8 | 70.2 | 58.2 | 57.1 | 53.8 | 51.1 | 0.0 | 2.0 | Friday | Plant on |
| 2018-11-02 | 12:00:00 | 01:00:00.0 | 55.0 | 41.8 | 70.3 | 58.4 | 57.5 | 54.3 | 49.3 | 0.0 | 2.6 | Friday | Plant on |
| 2018-11-02 | 13:00:00 | 01:00:00.0 | 49.6 | 41.6 | 68.7 | 52.5 | 51.4 | 48.6 | 46.0 | 0.2 | 4.8 | Friday | Plant on |
| 2018-11-02 | 14:00:00 | 01:00:00.0 | 47.3 | 40.4 | 65.9 | 50.7 | 49.5 | 46.2 | 43.3 | 0.6 | 6.0 | Friday | Plant on |
| 2018-11-02 | 15:00:00 | 01:00:00.0 | 48.9 | 40.7 | 69.8 | 52.7 | 51.8 | 46.9 | 43.8 | 0.6 | 5.5 | Friday | Plant on |
| 2018-11-02 | 16:00:00 | 01:00:00.0 | 46.4 | 39.7 | 66.4 | 50.8 | 49.1 | 44.7 | 41.8 | 0.5 | 5.5 | Friday | Plant off |
| 2018-11-02 | 17:00:00 | 01:00:00.0 | 50.4 | 39.0 | 69.3 | 55.5 | 53.9 | 47.6 | 42.7 | 0.8 | 6.5 | Friday | Plant off |
| 2018-11-02 | 18:00:00 | 01:00:00.0 | 51.7 | 38.6 | 66.8 | 56.5 | 55.0 | 49.3 | 44.7 | 0.6 | 7.5 | Friday | Plant off |
| 2018-11-02 | 19:00:00 | 01:00:00.0 | 53.3 | 41.2 | 68.1 | 58.6 | 56.8 | 50.5 | 45.5 | 0.0 | 8.0 | Friday | Plant off |
| 2018-11-02 | 20:00:00 | 01:00:00.0 | 50.7 | 38.3 | 65.2 | 56.1 | 54.0 | 48.0 | 43.3 | 0.0 | 7.5 | Friday | Plant off |
| 2018-11-02 | 21:00:00 | 01:00:00.0 | 50.2 | 36.6 | 65.6 | 55.3 | 53.6 | 47.5 | 42.3 | 0.0 | 7.0 | Friday | Plant off |
| 2018-11-02 | 22:00:00 | 01:00:00.0 | 51.5 | 38.1 | 66.6 | 56.6 | 54.8 | 49.0 | 43.9 | 0.0 | 7.5 | Friday | Plant off |
| 2018-11-02 | 23:00:00 | 01:00:00.0 | 50.3 | 38.9 | 64.4 | 55.5 | 53.5 | 47.8 | 42.9 | 0.0 | 7.4 | Friday | Plant off |
| 2018-11-03 | 00:00:00 | 01:00:00.0 | 50.3 | 36.6 | 63.5 | 55.4 | 53.8 | 47.9 | 43.0 | 0.0 | 5.0 | Saturday | Plant off |
| 2018-11-03 | 01:00:00 | 01:00:00.0 | 49.9 | 38.0 | 63.0 | 55.2 | 53.3 | 47.4 | 42.6 | 0.0 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 02:00:00 | 01:00:00.0 | 50.7 | 31.2 | 66.7 | 56.1 | 54.3 | 47.7 | 38.9 | 0.0 | 6.5 | Saturday | Plant off |
| 2018-11-03 | 03:00:00 | 01:00:00.0 | 47.0 | 29.3 | 61.5 | 52.3 | 50.6 | 44.1 | 36.9 | 0.0 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 04:00:00 | 01:00:00.0 | 49.6 | 38.7 | 61.5 | 54.7 | 53.0 | 47.3 | 42.7 | 0.5 | 6.5 | Saturday | Plant off |
| 2018-11-03 | 05:00:00 | 01:00:00.0 | 48.7 | 38.5 | 63.1 | 54.0 | 52.1 | 46.3 | 42.3 | 0.4 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 06:00:00 | 01:00:00.0 | 47.0 | 34.5 | 61.2 | 51.7 | 50.1 | 44.8 | 40.6 | 0.4 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 07:00:00 | 01:00:00.0 | 48.7 | 37.3 | 68.6 | 53.4 | 51.9 | 46.1 | 42.1 | 0.6 | 5.0 | Saturday | Plant off |
| 2018-11-03 | 08:00:00 | 01:00:00.0 | 46.1 | 31.8 | 70.9 | 50.2 | 48.4 | 42.2 | 37.1 | 1.6 | 7.0 | Saturday | Plant off |
| 2018-11-03 | 09:00:00 | 01:00:00.0 | 49.7 | 35.0 | 69.6 | 55.1 | 53.1 | 45.9 | 40.4 | 0.3 | 6.0 | Saturday | Plant off |
| 2018-11-03 | 10:00:00 | 01:00:00.0 | 44.0 | 32.1 | 72.8 | 48.6 | 46.4 | 39.6 | 35.4 | 0.0 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 11:00:00 | 01:00:00.0 | 46.6 | 34.2 | 65.7 | 52.0 | 50.2 | 43.5 | 38.5 | 0.9 | 5.5 | Saturday | Plant off |
| 2018-11-03 | 12:00:00 | 01:00:00.0 | 49.8 | 34.5 | 69.6 | 55.4 | 53.3 | 45.5 | 38.6 | 0.0 | 6.5 | Saturday | Plant off |

| Table 3 | | | Locn N3 | | | | | | | | | |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|--------------------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | Plant Status |
| 2018-11-03 | 13:00:00 | 01:00:00.0 | 46.9 | 35.4 | 67.1 | 52.2 | 50.2 | 43.4 | 38.8 | 0.0 | 6.0 | Saturday Plant off |
| 2018-11-03 | 14:00:00 | 01:00:00.0 | 46.9 | 33.8 | 66.7 | 51.8 | 49.5 | 42.7 | 38.2 | 0.0 | 5.5 | Saturday Plant off |
| 2018-11-03 | 15:00:00 | 01:00:00.0 | 49.0 | 34.2 | 66.8 | 55.0 | 52.4 | 45.0 | 39.4 | 0.0 | 6.0 | Saturday Plant off |
| 2018-11-03 | 16:00:00 | 01:00:00.0 | 49.4 | 36.6 | 68.7 | 54.9 | 53.2 | 46.1 | 40.7 | 0.0 | 7.0 | Saturday Plant off |
| 2018-11-03 | 17:00:00 | 01:00:00.0 | 44.1 | 33.0 | 63.3 | 49.0 | 47.5 | 41.5 | 37.7 | 0.0 | 6.5 | Saturday Plant off |
| 2018-11-03 | 18:00:00 | 01:00:00.0 | 45.6 | 34.9 | 62.5 | 50.9 | 48.7 | 42.7 | 38.7 | 0.0 | 5.5 | Saturday Plant off |
| 2018-11-03 | 19:00:00 | 01:00:00.0 | 51.2 | 35.6 | 74.0 | 55.9 | 52.6 | 44.8 | 39.7 | 0.0 | 4.0 | Saturday Plant off |
| 2018-11-03 | 20:00:00 | 01:00:00.0 | 49.5 | 28.8 | 65.0 | 56.0 | 53.9 | 43.8 | 33.9 | 0.8 | 5.0 | Saturday Plant off |
| 2018-11-03 | 21:00:00 | 01:00:00.0 | 38.8 | 27.1 | 54.3 | 43.6 | 41.5 | 35.7 | 30.1 | 0.0 | 5.0 | Saturday Plant off |
| 2018-11-03 | 22:00:00 | 01:00:00.0 | 42.8 | 28.8 | 57.7 | 48.8 | 46.3 | 38.9 | 33.9 | 0.0 | 4.0 | Saturday Plant off |
| 2018-11-03 | 23:00:00 | 01:00:00.0 | 43.4 | 30.8 | 55.4 | 49.0 | 47.2 | 40.7 | 35.7 | 0.0 | 5.0 | Saturday Plant off |
| 2018-11-04 | 00:00:00 | 01:00:00.0 | 40.0 | 28.5 | 56.6 | 45.5 | 43.4 | 37.2 | 32.4 | 0.0 | 4.8 | Sunday Plant off |
| 2018-11-04 | 01:00:00 | 01:00:00.0 | 37.8 | 26.4 | 53.4 | 43.1 | 41.2 | 34.9 | 30.3 | 0.0 | 4.0 | Sunday Plant off |
| 2018-11-04 | 02:00:00 | 01:00:00.0 | 38.4 | 25.0 | 52.1 | 44.0 | 41.8 | 35.1 | 30.0 | 0.0 | 4.8 | Sunday Plant off |
| 2018-11-04 | 03:00:00 | 01:00:00.0 | 41.0 | 26.3 | 56.1 | 46.9 | 44.5 | 37.2 | 31.8 | 0.0 | 4.6 | Sunday Plant off |
| 2018-11-04 | 04:00:00 | 01:00:00.0 | 36.0 | 21.6 | 53.4 | 42.1 | 39.6 | 31.1 | 25.4 | 0.0 | 3.8 | Sunday Plant off |
| 2018-11-04 | 05:00:00 | 01:00:00.0 | 40.0 | 23.5 | 54.9 | 46.3 | 44.7 | 35.5 | 28.5 | 0.0 | 4.2 | Sunday Plant off |
| 2018-11-04 | 06:00:00 | 01:00:00.0 | 33.9 | 23.2 | 54.2 | 38.6 | 36.2 | 31.1 | 27.6 | 0.0 | 4.2 | Sunday Plant off |
| 2018-11-04 | 07:00:00 | 01:00:00.0 | 44.6 | 26.1 | 71.8 | 47.5 | 42.2 | 34.3 | 31.2 | 0.0 | 2.0 | Sunday Plant off |
| 2018-11-04 | 08:00:00 | 01:00:00.0 | 44.2 | 29.0 | 70.1 | 48.7 | 44.5 | 36.5 | 32.5 | 0.0 | 3.5 | Sunday Plant off |
| 2018-11-04 | 09:00:00 | 01:00:00.0 | 43.5 | 30.2 | 70.9 | 46.7 | 43.6 | 37.5 | 34.1 | 0.0 | 4.0 | Sunday Plant off |
| 2018-11-04 | 10:00:00 | 01:00:00.0 | 41.0 | 30.7 | 69.8 | 43.7 | 41.2 | 36.7 | 34.0 | 0.0 | 5.0 | Sunday Plant off |
| 2018-11-04 | 11:00:00 | 01:00:00.0 | 41.4 | 29.6 | 67.2 | 44.9 | 42.5 | 36.4 | 32.7 | 0.0 | 4.5 | Sunday Plant off |
| 2018-11-04 | 12:00:00 | 01:00:00.0 | 40.8 | 28.7 | 67.3 | 45.6 | 43.5 | 37.1 | 32.7 | 0.0 | 3.5 | Sunday Plant off |
| 2018-11-04 | 13:00:00 | 01:00:00.0 | 40.8 | 27.3 | 69.0 | 45.8 | 43.4 | 35.2 | 30.8 | 0.0 | 3.0 | Sunday Plant off |
| 2018-11-04 | 14:00:00 | 01:00:00.0 | 36.7 | 25.0 | 63.9 | 40.9 | 37.7 | 31.1 | 28.1 | 0.0 | 2.0 | Sunday Plant off |
| 2018-11-04 | 15:00:00 | 01:00:00.0 | 38.5 | 24.7 | 61.4 | 42.4 | 37.7 | 30.4 | 28.0 | 0.0 | 1.0 | Sunday Plant off |
| 2018-11-04 | 16:00:00 | 01:00:00.0 | 44.3 | 27.6 | 65.5 | 50.8 | 50.5 | 35.2 | 31.6 | 0.0 | 1.0 | Sunday Plant off |
| 2018-11-04 | 17:00:00 | 01:00:00.0 | 45.8 | 29.7 | 64.6 | 51.3 | 51.1 | 36.0 | 33.0 | 0.0 | 2.0 | Sunday Plant off |
| 2018-11-04 | 18:00:00 | 01:00:00.0 | 33.5 | 26.7 | 65.9 | 34.7 | 33.8 | 31.6 | 29.9 | 0.0 | 1.5 | Sunday Plant off |
| 2018-11-04 | 19:00:00 | 01:00:00.0 | 33.4 | 25.1 | 58.4 | 34.5 | 33.3 | 30.7 | 28.4 | 0.0 | 1.5 | Sunday Plant off |
| 2018-11-04 | 20:00:00 | 01:00:00.0 | 32.8 | 26.4 | 55.7 | 35.4 | 34.5 | 32.2 | 30.0 | 0.0 | 2.0 | Sunday Plant off |
| 2018-11-04 | 21:00:00 | 01:00:00.0 | 32.5 | 25.2 | 47.1 | 35.5 | 34.6 | 31.8 | 29.3 | 0.0 | 2.0 | Sunday Plant off |
| 2018-11-04 | 22:00:00 | 01:00:00.0 | 32.4 | 23.6 | 41.2 | 35.3 | 34.6 | 32.0 | 28.9 | 0.0 | 1.5 | Sunday Plant off |
| 2018-11-04 | 23:00:00 | 01:00:00.0 | 31.3 | 20.3 | 55.0 | 34.5 | 33.4 | 29.6 | 26.2 | 0.0 | 2.0 | Sunday Plant off |
| 2018-11-05 | 00:00:00 | 01:00:00.0 | 33.1 | 20.2 | 44.9 | 37.3 | 36.6 | 30.2 | 25.6 | 0.4 | 1.5 | Monday Plant off |
| 2018-11-05 | 01:00:00 | 01:00:00.0 | 36.4 | 26.0 | 59.9 | 39.9 | 39.0 | 35.4 | 31.9 | 1.4 | 1.5 | Monday Plant off |
| 2018-11-05 | 02:00:00 | 01:00:00.0 | 40.4 | 34.2 | 50.9 | 42.8 | 42.2 | 40.2 | 37.2 | 1.0 | 1.5 | Monday Plant off |
| 2018-11-05 | 03:00:00 | 01:00:00.0 | 35.1 | 23.8 | 48.6 | 39.2 | 38.4 | 33.7 | 29.3 | 0.9 | 1.5 | Monday Plant off |
| 2018-11-05 | 04:00:00 | 01:00:00.0 | 32.5 | 18.8 | 53.2 | 36.2 | 35.1 | 30.6 | 24.2 | 0.4 | 2.5 | Monday Plant off |
| 2018-11-05 | 05:00:00 | 01:00:00.0 | 35.5 | 20.6 | 52.3 | 40.9 | 38.8 | 32.6 | 26.2 | 0.0 | 2.5 | Monday Plant off |
| 2018-11-05 | 06:00:00 | 01:00:00.0 | 39.4 | 25.7 | 54.2 | 43.0 | 41.8 | 38.4 | 34.7 | 0.0 | 3.0 | Monday Plant off |
| 2018-11-05 | 07:00:00 | 01:00:00.0 | 47.3 | 33.3 | 72.5 | 49.2 | 44.3 | 39.7 | 37.4 | 0.0 | 3.0 | Monday Plant off |
| 2018-11-05 | 08:00:00 | 01:00:00.0 | 47.2 | 33.2 | 70.7 | 51.2 | 46.5 | 39.3 | 36.7 | 0.0 | 3.5 | Monday Plant on |
| 2018-11-05 | 09:00:00 | 01:00:00.0 | 43.8 | 30.7 | 68.1 | 47.4 | 45.4 | 40.3 | 36.1 | 0.0 | 2.5 | Monday Plant on |
| 2018-11-05 | 10:00:00 | 01:00:00.0 | 40.7 | 29.4 | 67.0 | 44.0 | 40.8 | 36.2 | 33.6 | 0.0 | 3.0 | Monday Plant on |
| 2018-11-05 | 11:00:00 | 01:00:00.0 | 41.5 | 30.0 | 67.1 | 44.9 | 42.5 | 38.1 | 33.6 | 0.0 | 2.5 | Monday Plant on |
| 2018-11-05 | 12:00:00 | 01:00:00.0 | 41.7 | 27.3 | 68.0 | 46.4 | 42.5 | 36.3 | 30.6 | 0.0 | 2.5 | Monday Plant on |

| Table 3 | | | Locn N3 | | | | | | | | | | Plant |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|---------|-----------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Status |
| 2018-11-05 | 13:00:00 | 01:00:00.0 | 41.2 | 24.7 | 71.5 | 44.2 | 40.5 | 36.2 | 31.7 | 0.0 | 2.5 | Monday | Plant on |
| 2018-11-05 | 14:00:00 | 01:00:00.0 | 39.1 | 27.1 | 64.3 | 41.6 | 38.9 | 33.3 | 30.3 | 0.0 | 0.5 | Monday | Plant on |
| 2018-11-05 | 15:00:00 | 01:00:00.0 | 40.4 | 30.3 | 63.8 | 43.5 | 42.0 | 38.4 | 33.4 | 0.0 | 1.0 | Monday | Plant on |
| 2018-11-05 | 16:00:00 | 01:00:00.0 | 48.3 | 29.8 | 70.7 | 52.3 | 51.0 | 46.2 | 36.4 | 0.0 | 1.0 | Monday | Plant on |
| 2018-11-05 | 17:00:00 | 01:00:00.0 | 39.9 | 27.0 | 68.2 | 41.7 | 38.9 | 33.0 | 30.6 | 0.0 | 1.0 | Monday | Plant off |
| 2018-11-05 | 18:00:00 | 01:00:00.0 | 38.8 | 28.4 | 75.6 | 37.3 | 36.2 | 33.6 | 31.6 | 0.0 | 2.0 | Monday | Plant off |
| 2018-11-05 | 19:00:00 | 01:00:00.0 | 35.5 | 27.4 | 66.0 | 36.5 | 34.8 | 32.2 | 30.5 | 0.0 | 1.0 | Monday | Plant off |
| 2018-11-05 | 20:00:00 | 01:00:00.0 | 34.1 | 25.5 | 62.9 | 36.3 | 34.8 | 31.9 | 29.9 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 21:00:00 | 01:00:00.0 | 32.5 | 24.9 | 58.1 | 35.1 | 33.7 | 30.7 | 28.5 | 0.0 | 1.5 | Monday | Plant off |
| 2018-11-05 | 22:00:00 | 01:00:00.0 | 31.8 | 23.8 | 52.0 | 35.0 | 33.9 | 30.8 | 28.0 | 0.0 | 2.5 | Monday | Plant off |
| 2018-11-05 | 23:00:00 | 01:00:00.0 | 32.8 | 22.9 | 55.6 | 35.8 | 34.3 | 30.8 | 27.6 | 0.0 | 2.0 | Monday | Plant off |
| 2018-11-06 | 00:00:00 | 01:00:00.0 | 29.8 | 21.1 | 44.9 | 33.6 | 32.4 | 28.5 | 24.6 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 01:00:00 | 01:00:00.0 | 28.8 | 18.7 | 46.4 | 32.9 | 31.5 | 27.1 | 22.3 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 02:00:00 | 01:00:00.0 | 32.6 | 20.2 | 53.0 | 36.8 | 35.1 | 30.6 | 26.1 | 0.0 | 3.0 | Tuesday | Plant off |
| 2018-11-06 | 03:00:00 | 01:00:00.0 | 36.8 | 23.0 | 52.9 | 42.0 | 40.0 | 34.1 | 29.4 | 0.0 | 2.5 | Tuesday | Plant off |
| 2018-11-06 | 04:00:00 | 01:00:00.0 | 37.0 | 25.0 | 50.9 | 42.2 | 40.6 | 34.1 | 29.4 | 0.0 | 3.0 | Tuesday | Plant off |
| 2018-11-06 | 05:00:00 | 01:00:00.0 | 43.6 | 32.3 | 61.0 | 48.3 | 47.0 | 41.6 | 37.0 | 0.0 | 4.5 | Tuesday | Plant off |
| 2018-11-06 | 06:00:00 | 01:00:00.0 | 44.9 | 36.5 | 57.2 | 49.4 | 47.6 | 43.3 | 39.8 | 0.0 | 5.8 | Tuesday | Plant off |
| 2018-11-06 | 07:00:00 | 01:00:00.0 | 48.7 | 38.4 | 74.2 | 51.1 | 49.7 | 46.3 | 41.4 | 0.0 | 6.0 | Tuesday | Plant off |
| 2018-11-06 | 08:00:00 | 01:00:00.0 | 52.6 | 40.5 | 68.1 | 56.7 | 55.4 | 51.8 | 45.3 | 0.0 | 6.5 | Tuesday | Plant on |
| 2018-11-06 | 09:00:00 | 01:00:00.0 | 53.8 | 42.7 | 75.0 | 57.2 | 56.0 | 52.7 | 48.4 | 0.0 | 5.2 | Tuesday | Plant on |
| 2018-11-06 | 10:00:00 | 01:00:00.0 | 51.8 | 40.1 | 69.9 | 56.6 | 55.4 | 48.1 | 43.5 | 0.0 | 5.4 | Tuesday | Plant on |
| 2018-11-06 | 11:00:00 | 01:00:00.0 | 54.7 | 46.1 | 67.7 | 57.8 | 56.9 | 54.0 | 51.4 | 0.0 | 5.6 | Tuesday | Plant on |
| 2018-11-06 | 12:00:00 | 01:00:00.0 | 53.3 | 44.2 | 68.3 | 56.8 | 55.8 | 52.4 | 48.7 | 0.2 | 5.0 | Tuesday | Plant on |
| 2018-11-06 | 13:00:00 | 01:00:00.0 | 50.2 | 41.7 | 62.6 | 54.4 | 53.2 | 48.6 | 45.7 | 0.2 | 6.2 | Tuesday | Plant on |
| 2018-11-06 | 14:00:00 | 01:00:00.0 | 53.2 | 45.1 | 71.5 | 56.3 | 55.4 | 52.2 | 49.4 | 0.6 | 5.2 | Tuesday | Plant on |
| 2018-11-06 | 15:00:00 | 01:00:00.0 | 52.7 | 45.0 | 65.7 | 55.9 | 54.9 | 51.9 | 49.4 | 2.1 | 3.8 | Tuesday | Plant on |
| 2018-11-06 | 16:00:00 | 01:00:00.0 | 49.3 | 35.0 | 66.2 | 53.9 | 52.8 | 48.2 | 38.8 | 0.0 | 3.2 | Tuesday | Plant on |
| 2018-11-06 | 17:00:00 | 01:00:00.0 | 48.3 | 32.5 | 72.0 | 51.3 | 50.8 | 43.0 | 36.4 | 0.0 | 5.0 | Tuesday | Plant off |
| 2018-11-06 | 18:00:00 | 01:00:00.0 | 36.6 | 28.9 | 55.7 | 40.2 | 38.4 | 35.5 | 33.1 | 0.0 | 4.0 | Tuesday | Plant off |
| 2018-11-06 | 19:00:00 | 01:00:00.0 | 34.7 | 28.0 | 60.0 | 37.0 | 35.9 | 33.0 | 31.1 | 0.0 | 4.5 | Tuesday | Plant off |
| 2018-11-06 | 20:00:00 | 01:00:00.0 | 33.2 | 27.8 | 57.1 | 35.2 | 34.5 | 32.4 | 30.7 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-11-06 | 21:00:00 | 01:00:00.0 | 33.5 | 25.3 | 60.3 | 36.3 | 35.2 | 32.2 | 29.8 | 0.0 | 1.5 | Tuesday | Plant off |
| 2018-11-06 | 22:00:00 | 01:00:00.0 | 31.4 | 21.9 | 48.5 | 34.7 | 33.5 | 30.2 | 26.3 | 0.0 | 1.0 | Tuesday | Plant off |
| 2018-11-06 | 23:00:00 | 01:00:00.0 | 30.1 | 20.1 | 53.8 | 33.8 | 32.1 | 27.9 | 24.4 | 0.0 | 2.0 | Tuesday | Plant off |
| 2018-11-07 | 00:00:00 | 01:00:00.0 | 27.5 | 17.0 | 51.4 | 31.3 | 29.7 | 24.3 | 20.2 | 0.0 | 3.0 | Wednesd | Plant off |
| 2018-11-07 | 01:00:00 | 01:00:00.0 | 25.5 | 17.5 | 46.6 | 30.1 | 27.4 | 22.4 | 19.9 | 0.0 | 3.5 | Wednesd | Plant off |
| 2018-11-07 | 02:00:00 | 01:00:00.0 | 24.2 | 16.7 | 43.3 | 28.3 | 26.2 | 21.3 | 18.6 | 0.0 | 3.0 | Wednesd | Plant off |
| 2018-11-07 | 03:00:00 | 01:00:00.0 | 30.6 | 16.6 | 53.7 | 35.6 | 31.2 | 21.7 | 18.2 | 0.0 | 2.5 | Wednesd | Plant off |
| 2018-11-07 | 04:00:00 | 01:00:00.0 | 30.5 | 17.4 | 51.3 | 36.2 | 31.6 | 25.0 | 20.7 | 0.0 | 3.5 | Wednesd | Plant off |
| 2018-11-07 | 05:00:00 | 01:00:00.0 | 24.2 | 16.9 | 41.5 | 28.2 | 27.0 | 23.0 | 19.0 | 0.0 | 2.2 | Wednesd | Plant off |
| 2018-11-07 | 06:00:00 | 01:00:00.0 | 35.3 | 21.6 | 53.7 | 40.9 | 40.1 | 30.8 | 26.8 | 0.0 | 2.4 | Wednesd | Plant off |
| 2018-11-07 | 07:00:00 | 01:00:00.0 | 44.8 | 36.5 | 68.0 | 48.1 | 44.5 | 40.2 | 38.8 | 0.0 | 2.6 | Wednesd | Plant off |
| 2018-11-07 | 08:00:00 | 01:00:00.0 | 45.2 | 35.8 | 69.3 | 48.9 | 45.6 | 40.7 | 38.9 | 0.0 | 2.8 | Wednesd | Plant on |
| 2018-11-07 | 09:00:00 | 01:00:00.0 | 44.4 | 31.9 | 68.6 | 46.9 | 44.1 | 39.5 | 35.7 | 0.0 | 2.2 | Wednesd | Plant on |
| 2018-11-07 | 10:00:00 | 01:00:00.0 | 40.3 | 28.6 | 64.4 | 44.2 | 42.0 | 37.7 | 33.1 | 0.0 | 3.2 | Wednesd | Plant on |
| 2018-11-07 | 11:00:00 | 01:00:00.0 | 42.8 | 35.5 | 66.6 | 45.5 | 44.4 | 41.1 | 39.1 | 0.0 | 5.6 | Wednesd | Plant on |
| 2018-11-07 | 12:00:00 | 01:00:00.0 | 46.2 | 32.2 | 71.4 | 47.0 | 45.4 | 41.5 | 37.2 | 0.0 | 4.8 | Wednesd | Plant on |

| Table 3 | | | Locn N3 | | | | | | | | | |
|------------|----------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|--------------------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | Plant Status |
| 2018-11-07 | 13:00:00 | 01:00:00.0 | 43.5 | 36.2 | 65.0 | 46.6 | 44.7 | 40.9 | 38.8 | 0.0 | 4.6 | Wednesd Plant on |
| 2018-11-07 | 14:00:00 | 01:00:00.0 | 43.8 | 32.5 | 64.8 | 47.9 | 46.1 | 41.5 | 37.9 | 0.0 | 5.4 | Wednesd Plant on |
| 2018-11-07 | 15:00:00 | 01:00:00.0 | 46.7 | 37.4 | 67.6 | 49.7 | 48.1 | 44.6 | 42.0 | 0.0 | 4.8 | Wednesd Plant on |
| 2018-11-07 | 16:00:00 | 01:00:00.0 | 48.9 | 33.2 | 73.9 | 50.7 | 49.4 | 45.1 | 38.3 | 0.0 | 4.4 | Wednesd Plant on |
| 2018-11-07 | 17:00:00 | 01:00:00.0 | 43.0 | 29.2 | 73.7 | 47.5 | 44.8 | 33.8 | 31.8 | 0.0 | 4.0 | Wednesd Plant off |
| 2018-11-07 | 18:00:00 | 01:00:00.0 | 34.5 | 25.0 | 68.2 | 34.9 | 33.4 | 30.5 | 28.4 | 0.0 | 4.0 | Wednesd Plant off |
| 2018-11-07 | 19:00:00 | 01:00:00.0 | 35.3 | 27.0 | 61.6 | 37.5 | 36.6 | 33.9 | 30.5 | 0.0 | 3.5 | Wednesd Plant off |
| 2018-11-07 | 20:00:00 | 01:00:00.0 | 36.1 | 30.1 | 58.1 | 38.5 | 37.8 | 35.6 | 33.6 | 0.0 | 3.0 | Wednesd Plant off |
| 2018-11-07 | 21:00:00 | 01:00:00.0 | 36.4 | 30.1 | 54.3 | 38.8 | 38.1 | 36.0 | 33.8 | 0.0 | 2.0 | Wednesd Plant off |
| 2018-11-07 | 22:00:00 | 01:00:00.0 | 36.4 | 28.4 | 50.9 | 39.7 | 38.6 | 35.6 | 33.1 | 0.0 | 3.0 | Wednesd Plant off |
| 2018-11-07 | 23:00:00 | 01:00:00.0 | 38.5 | 28.1 | 54.4 | 42.8 | 41.3 | 36.9 | 33.4 | 0.0 | 3.5 | Wednesd Plant off |
| 2018-11-08 | 00:00:00 | 01:00:00.0 | 36.5 | 25.1 | 49.1 | 41.7 | 39.9 | 34.0 | 29.6 | 0.0 | 4.5 | Thursday Plant off |
| 2018-11-08 | 01:00:00 | 01:00:00.0 | 30.3 | 21.1 | 40.6 | 34.1 | 33.0 | 29.3 | 25.3 | 0.0 | 4.0 | Thursday Plant off |
| 2018-11-08 | 02:00:00 | 01:00:00.0 | 30.4 | 20.5 | 45.3 | 34.7 | 33.4 | 28.8 | 24.4 | 0.0 | 4.5 | Thursday Plant off |
| 2018-11-08 | 03:00:00 | 01:00:00.0 | 29.3 | 19.4 | 42.1 | 33.6 | 32.3 | 27.7 | 23.3 | 0.0 | 3.0 | Thursday Plant off |
| 2018-11-08 | 04:00:00 | 01:00:00.0 | 34.2 | 24.2 | 47.1 | 38.6 | 37.1 | 32.4 | 28.5 | 0.0 | 3.5 | Thursday Plant off |
| 2018-11-08 | 05:00:00 | 01:00:00.0 | 34.7 | 25.0 | 51.5 | 38.0 | 36.7 | 33.5 | 29.3 | 0.0 | 6.5 | Thursday Plant off |
| 2018-11-08 | 06:00:00 | 01:00:00.0 | 40.5 | 32.9 | 50.6 | 43.8 | 42.9 | 39.8 | 36.3 | 0.0 | 5.0 | Thursday Plant off |
| 2018-11-08 | 07:00:00 | 01:00:00.0 | 45.5 | 38.2 | 69.3 | 48.9 | 47.5 | 43.4 | 41.1 | 0.0 | 4.3 | Thursday Plant off |
| 2018-11-08 | 08:00:00 | 01:00:00.0 | 55.3 | 43.9 | 74.5 | 58.8 | 57.5 | 54.4 | 49.0 | 0.0 | 6.0 | Thursday |

| Table 4 | | | Locn N4 | | | | | | | | | | | |
|-----------|----------|----------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|-----------|-----------------|--|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Plant Status | |
| 30Oct2018 | 14:00:00 | 1:00:00 | 47.8 | 38.2 | 76.4 | 50.6 | 49.6 | 47.1 | 44.7 | 0.2 | 2.0 | Tuesday | Plant on | |
| 30Oct2018 | 15:00:00 | 1:00:00 | 47.7 | 38.1 | 62.1 | 50.6 | 49.6 | 47.1 | 44.5 | 0.0 | 1.5 | Tuesday | Plant on | |
| 30Oct2018 | 16:00:00 | 1:00:00 | 45.2 | 34.5 | 58.5 | 49.2 | 48.1 | 43.7 | 40.6 | 0.4 | 1.5 | Tuesday | Plant on | |
| 30Oct2018 | 17:00:00 | 1:00:00 | 43.3 | 33.7 | 62.3 | 46.7 | 45.7 | 42.2 | 38.8 | 0.2 | 1.5 | Tuesday | Plant off | |
| 30Oct2018 | 18:00:00 | 1:00:00 | 42 | 34.1 | 57.7 | 45.2 | 44.2 | 41.2 | 38.6 | 0.0 | 1.5 | Tuesday | Plant off | |
| 30Oct2018 | 19:00:00 | 1:00:00 | 41.7 | 30.8 | 59.2 | 45 | 44.1 | 41.1 | 38.3 | 0.0 | 1.0 | Tuesday | Plant off | |
| 30Oct2018 | 20:00:00 | 1:00:00 | 40.8 | 28.1 | 51.2 | 45.1 | 44 | 39.7 | 35 | 0.0 | 2.0 | Tuesday | Plant off | |
| 30Oct2018 | 21:00:00 | 1:00:00 | 39.7 | 28.3 | 53.1 | 44 | 42.7 | 38.2 | 34.2 | 0.0 | 1.5 | Tuesday | Plant off | |
| 30Oct2018 | 22:00:00 | 1:00:00 | 38.2 | 25 | 52.5 | 43.1 | 41.5 | 36.5 | 31.6 | 0.0 | 2.0 | Tuesday | Plant off | |
| 30Oct2018 | 23:00:00 | 1:00:00 | 39.3 | 22.8 | 67.7 | 42.7 | 41.2 | 36.1 | 30.1 | 0.0 | 2.0 | Tuesday | Plant off | |
| 31Oct2018 | 00:00:00 | 1:00:00 | 35 | 21.8 | 51.2 | 40.2 | 38.5 | 32.8 | 26.5 | 0.0 | 1.5 | Wednesday | Plant off | |
| 31Oct2018 | 01:00:00 | 1:00:00 | 35.2 | 22 | 51.6 | 40.7 | 39 | 32.6 | 26.6 | 0.0 | 1.5 | Wednesday | Plant off | |
| 31Oct2018 | 02:00:00 | 1:00:00 | 33.8 | 23.8 | 49.2 | 38.7 | 37.2 | 31.8 | 27.6 | 0.0 | 1.0 | Wednesday | Plant off | |
| 31Oct2018 | 03:00:00 | 1:00:00 | 32.8 | 22.6 | 51.5 | 37.8 | 35.7 | 30 | 25.5 | 0.0 | 2.0 | Wednesday | Plant off | |
| 31Oct2018 | 04:00:00 | 1:00:00 | 35.6 | 24.3 | 53 | 41.2 | 38.8 | 32.1 | 28.1 | 0.0 | 1.5 | Wednesday | Plant off | |
| 31Oct2018 | 05:00:00 | 1:00:00 | 38.3 | 25.8 | 56.1 | 42.8 | 41.2 | 36.7 | 31.8 | 0.6 | 3.0 | Wednesday | Plant off | |
| 31Oct2018 | 06:00:00 | 1:00:00 | 44.2 | 33.6 | 56.8 | 47.5 | 46.7 | 43.3 | 38.7 | 0.4 | 2.5 | Wednesday | Plant off | |
| 31Oct2018 | 07:00:00 | 1:00:00 | 48.7 | 40.6 | 62 | 52.1 | 51.1 | 48.1 | 44.8 | 0.4 | 3.0 | Wednesday | Plant off | |
| 31Oct2018 | 08:00:00 | 1:00:00 | 49.7 | 42.2 | 60.2 | 52.7 | 51.7 | 49.2 | 46.3 | 0.7 | 3.5 | Wednesday | Plant on | |
| 31Oct2018 | 09:00:00 | 1:00:00 | 47.3 | 39.1 | 60.3 | 50.2 | 49.3 | 47 | 43.7 | 1.2 | 3.0 | Wednesday | Plant on | |
| 31Oct2018 | 10:00:00 | 1:00:00 | 47.2 | 38.6 | 71 | 51.2 | 50.1 | 45.6 | 40.5 | 0.6 | 2.5 | Wednesday | Plant on | |
| 31Oct2018 | 11:00:00 | 1:00:00 | 49.8 | 40.6 | 69.9 | 53.2 | 52.1 | 48.6 | 44.2 | 0.7 | 3.5 | Wednesday | Plant on | |
| 31Oct2018 | 12:00:00 | 1:00:00 | 49.3 | 37.1 | 67.7 | 52.7 | 51.8 | 48 | 44.2 | 0.6 | 1.5 | Wednesday | Plant on | |
| 31Oct2018 | 13:00:00 | 1:00:00 | 48.7 | 36.8 | 68.5 | 53.8 | 52.6 | 43 | 39 | 0.4 | 2.0 | Wednesday | Plant on | |
| 31Oct2018 | 14:00:00 | 1:00:00 | 49.3 | 43.2 | 78.2 | 51.8 | 50.7 | 48 | 45.7 | 0.0 | 2.0 | Wednesday | Plant on | |
| 31Oct2018 | 15:00:00 | 1:00:00 | 50.7 | 44 | 66.4 | 53.6 | 52.7 | 49.7 | 46.8 | 0.0 | 1.5 | Wednesday | Plant on | |
| 31Oct2018 | 16:00:00 | 1:00:00 | 51.5 | 33.3 | 69.7 | 55.7 | 54.8 | 49 | 39.7 | 0.0 | 1.5 | Wednesday | Plant on | |
| 31Oct2018 | 17:00:00 | 1:00:00 | 43.3 | 32.3 | 57.2 | 48 | 46.7 | 41.8 | 37.2 | 0.0 | 1.0 | Wednesday | Plant off | |
| 31Oct2018 | 18:00:00 | 1:00:00 | 41.3 | 27.6 | 54.6 | 46.2 | 44.8 | 39.7 | 32.6 | 0.0 | 0.5 | Wednesday | Plant off | |
| 31Oct2018 | 19:00:00 | 1:00:00 | 40.3 | 28.1 | 56.1 | 45.6 | 44.1 | 37.8 | 33.3 | 0.0 | 0.5 | Wednesday | Plant off | |
| 31Oct2018 | 20:00:00 | 1:00:00 | 40.2 | 27.3 | 63.8 | 45 | 43.5 | 37.6 | 32.6 | 0.0 | 0.5 | Wednesday | Plant off | |
| 31Oct2018 | 21:00:00 | 1:00:00 | 38.8 | 24.5 | 67.7 | 44.8 | 42.8 | 33 | 28.6 | 0.0 | 0.0 | Wednesday | Plant off | |
| 31Oct2018 | 22:00:00 | 1:00:00 | 37.2 | 24.8 | 55.8 | 43.2 | 40.7 | 32.8 | 29 | 0.0 | 0.5 | Wednesday | Plant off | |
| 31Oct2018 | 23:00:00 | 1:00:00 | 37.1 | 22.3 | 59.8 | 43.2 | 40.8 | 32.1 | 26.8 | 0.0 | 1.0 | Wednesday | Plant off | |
| 01Nov2018 | 00:00:00 | 1:00:00 | 35.7 | 21.3 | 57 | 40.8 | 38.7 | 32.1 | 25.5 | 0.0 | 1.0 | Thursday | Plant off | |
| 01Nov2018 | 01:00:00 | 1:00:00 | 35 | 21.1 | 50.2 | 40.6 | 38.8 | 32.3 | 25.3 | 0.0 | 1.0 | Thursday | Plant off | |
| 01Nov2018 | 02:00:00 | 1:00:00 | 34.7 | 19.8 | 52.7 | 41.2 | 38 | 30 | 24.3 | 0.9 | 0.5 | Thursday | Plant off | |
| 01Nov2018 | 03:00:00 | 1:00:00 | 35.5 | 20.1 | 52.5 | 41.5 | 37.5 | 30.1 | 23 | 0.0 | 1.0 | Thursday | Plant off | |
| 01Nov2018 | 04:00:00 | 1:00:00 | 34.8 | 20.3 | 52.6 | 41.1 | 38 | 30.1 | 23.1 | 0.0 | 1.5 | Thursday | Plant off | |
| 01Nov2018 | 05:00:00 | 1:00:00 | 40.2 | 20.6 | 58.7 | 46.1 | 43.8 | 36.3 | 29.3 | 0.0 | 2.0 | Thursday | Plant off | |
| 01Nov2018 | 06:00:00 | 1:00:00 | 41.6 | 29.3 | 53.8 | 45.2 | 44.2 | 40.7 | 36.8 | 0.0 | 1.5 | Thursday | Plant off | |
| 01Nov2018 | 07:00:00 | 1:00:00 | 46.3 | 38 | 61.6 | 49.8 | 48.7 | 45.3 | 42.2 | 0.0 | 1.0 | Thursday | Plant off | |
| 01Nov2018 | 08:00:00 | 1:00:00 | 49.8 | 41.2 | 67 | 53.5 | 52.2 | 48.7 | 45.7 | 0.0 | 1.5 | Thursday | Plant on | |
| 01Nov2018 | 09:00:00 | 1:00:00 | 47.8 | 39 | 64.5 | 51 | 49.8 | 47.2 | 44.2 | 0.0 | 2.5 | Thursday | Plant on | |
| 01Nov2018 | 10:00:00 | 1:00:00 | 46.6 | 38.8 | 72 | 50.5 | 49.2 | 45.2 | 41.1 | 0.0 | 2.0 | Thursday | Plant on | |
| 01Nov2018 | 11:00:00 | 1:00:00 | 48.1 | 36 | 65.7 | 53.7 | 48.7 | 43.3 | 40.2 | 0.0 | 2.5 | Thursday | Plant off | |
| 01Nov2018 | 12:00:00 | 1:00:00 | 46.2 | 34.2 | 66 | 51.2 | 48.5 | 43.2 | 39.6 | 0.0 | 2.0 | Thursday | Plant off | |

| Table 4 | | | Locn N4 | | | | | | | | | | | |
|-----------|----------|----------|---------|------|------|------|------|------|------|------|------|----------|-----------|--|
| Date | Time | Duration | Leq | Lmin | Lmax | L5 | L10 | L50 | L90 | Rain | wind | | Plant | |
| | | | dBa | dBa | dBa | dBa | dBa | dBa | dBa | mm | m/s | | Status | |
| 01Nov2018 | 13:00:00 | 1:00:00 | 46.7 | 31.8 | 74.7 | 51.2 | 49.7 | 42.7 | 37 | 0.5 | 2.5 | Thursday | Plant off | |
| 01Nov2018 | 14:00:00 | 1:00:00 | 43.2 | 31.6 | 63.7 | 48 | 46 | 40.3 | 36.7 | 0.0 | 3.5 | Thursday | Plant off | |
| 01Nov2018 | 15:00:00 | 1:00:00 | 42.5 | 28.8 | 62.5 | 47.1 | 45.2 | 40.5 | 35.8 | 0.0 | 1.5 | Thursday | Plant off | |
| 01Nov2018 | 16:00:00 | 1:00:00 | 46.8 | 33.3 | 67 | 52.2 | 50.2 | 43.3 | 38.6 | 0.0 | 2.0 | Thursday | Plant off | |
| 01Nov2018 | 17:00:00 | 1:00:00 | 49 | 29.8 | 64.1 | 54.7 | 53.2 | 44.5 | 38.7 | 0.0 | 1.5 | Thursday | Plant off | |
| 01Nov2018 | 18:00:00 | 1:00:00 | 41 | 30.3 | 55.2 | 45.3 | 44.2 | 39.6 | 34.2 | 0.0 | 1.5 | Thursday | Plant off | |
| 01Nov2018 | 19:00:00 | 1:00:00 | 39.7 | 28 | 54.8 | 45.1 | 43.3 | 37.1 | 31.8 | 0.0 | 1.0 | Thursday | Plant off | |
| 01Nov2018 | 20:00:00 | 1:00:00 | 37.2 | 26.5 | 53.7 | 43.2 | 41 | 33 | 29.6 | 0.0 | 0.0 | Thursday | Plant off | |
| 01Nov2018 | 21:00:00 | 1:00:00 | 38.8 | 25.8 | 60.7 | 44.8 | 42.2 | 34.3 | 30.5 | 0.0 | 1.0 | Thursday | Plant off | |
| 01Nov2018 | 22:00:00 | 1:00:00 | 35.8 | 24.6 | 52.2 | 41.7 | 39.6 | 32.6 | 28.5 | 0.0 | 1.5 | Thursday | Plant off | |
| 01Nov2018 | 23:00:00 | 1:00:00 | 35.6 | 23.8 | 53.8 | 41.2 | 37.3 | 30.8 | 27.3 | 0.0 | 0.5 | Thursday | Plant off | |
| 02Nov2018 | 00:00:00 | 1:00:00 | 31.6 | 21.5 | 51 | 36.2 | 32.8 | 27.6 | 24.5 | 0.0 | 0.5 | Friday | Plant off | |
| 02Nov2018 | 01:00:00 | 1:00:00 | 31.8 | 21.5 | 48.1 | 36.8 | 34.3 | 28.6 | 24.1 | 0.0 | 0.5 | Friday | Plant off | |
| 02Nov2018 | 02:00:00 | 1:00:00 | 37 | 20.8 | 62.1 | 41 | 37.7 | 28.8 | 23.6 | 0.0 | 1.0 | Friday | Plant off | |
| 02Nov2018 | 03:00:00 | 1:00:00 | 13.5 | 20.5 | 49.8 | 39.2 | 37.1 | 30.6 | 22.8 | 0.0 | 1.5 | Friday | Plant off | |
| 02Nov2018 | 04:00:00 | 1:00:00 | 35.2 | 20.6 | 52.7 | 40.7 | 39.1 | 32 | 24 | 0.0 | 2.8 | Friday | Plant off | |
| 02Nov2018 | 05:00:00 | 1:00:00 | 42.5 | 24.5 | 52.6 | 47.5 | 46.2 | 40.3 | 33.7 | 0.0 | 3.6 | Friday | Plant off | |
| 02Nov2018 | 06:00:00 | 1:00:00 | 46 | 33.3 | 60.5 | 49.7 | 47.7 | 44 | 39.7 | 0.0 | 2.6 | Friday | Plant off | |
| 02Nov2018 | 07:00:00 | 1:00:00 | 46.8 | 39.2 | 56.8 | 50 | 49.2 | 46.3 | 44 | 0.0 | 2.2 | Friday | Plant off | |
| 02Nov2018 | 08:00:00 | 1:00:00 | 49.8 | 44.2 | 62.7 | 52.2 | 51.3 | 49.6 | 47.7 | 0.0 | 2.0 | Friday | Plant on | |
| 02Nov2018 | 09:00:00 | 1:00:00 | 49.2 | 42 | 62 | 51.7 | 51.1 | 48.8 | 46.2 | 0.0 | 1.6 | Friday | Plant on | |
| 02Nov2018 | 10:00:00 | 1:00:00 | 47.7 | 40.3 | 62.7 | 51 | 50 | 47.2 | 43.8 | 0.0 | 1.8 | Friday | Plant on | |
| 02Nov2018 | 11:00:00 | 1:00:00 | 48.8 | 45.2 | 60 | 51.2 | 50.5 | 48.2 | 46.7 | 0.0 | 2.0 | Friday | Plant on | |
| 02Nov2018 | 12:00:00 | 1:00:00 | 48.3 | 41.5 | 64.6 | 50.8 | 50.1 | 48.1 | 45.7 | 0.0 | 2.6 | Friday | Plant on | |
| 02Nov2018 | 13:00:00 | 1:00:00 | 46.8 | 40.8 | 62.5 | 50.3 | 49.1 | 45.7 | 43.6 | 0.2 | 4.8 | Friday | Plant on | |
| 02Nov2018 | 14:00:00 | 1:00:00 | 48 | 42.5 | 63.2 | 51.2 | 50.2 | 47.1 | 44.8 | 0.6 | 6.0 | Friday | Plant on | |
| 02Nov2018 | 15:00:00 | 1:00:00 | 49 | 43.7 | 64.8 | 52.1 | 51.1 | 48.2 | 46.5 | 0.6 | 5.5 | Friday | Plant on | |
| 02Nov2018 | 16:00:00 | 1:00:00 | 49.8 | 43.7 | 67.7 | 53 | 52.1 | 49.1 | 46.6 | 0.5 | 5.5 | Friday | Plant off | |
| 02Nov2018 | 17:00:00 | 1:00:00 | 53.1 | 46.5 | 65.7 | 56.7 | 55.7 | 52.2 | 49.2 | 0.8 | 6.5 | Friday | Plant off | |
| 02Nov2018 | 18:00:00 | 1:00:00 | 52.7 | 46.2 | 60.3 | 55.7 | 55 | 52.2 | 49.8 | 0.6 | 7.5 | Friday | Plant off | |
| 02Nov2018 | 19:00:00 | 1:00:00 | 54.2 | 47.2 | 61.6 | 57.7 | 56.7 | 53.6 | 50.7 | 0.0 | 8.0 | Friday | Plant off | |
| 02Nov2018 | 20:00:00 | 1:00:00 | 50.5 | 42 | 61.2 | 54.2 | 53.2 | 49.6 | 46.2 | 0.0 | 7.5 | Friday | Plant off | |
| 02Nov2018 | 21:00:00 | 1:00:00 | 50 | 42.7 | 56.8 | 53.2 | 52.2 | 49.2 | 46.5 | 0.0 | 7.0 | Friday | Plant off | |
| 02Nov2018 | 22:00:00 | 1:00:00 | 50.8 | 44.5 | 63 | 54.1 | 53.2 | 50.2 | 47.7 | 0.0 | 7.5 | Friday | Plant off | |
| 02Nov2018 | 23:00:00 | 1:00:00 | 49.5 | 43.7 | 56 | 52.6 | 51.7 | 49 | 46.5 | 0.0 | 7.4 | Friday | Plant off | |
| 03Nov2018 | 00:00:00 | 1:00:00 | 48.6 | 42.2 | 59.6 | 51.6 | 50.7 | 48.1 | 45.7 | 0.0 | 5.0 | Saturday | Plant off | |
| 03Nov2018 | 01:00:00 | 1:00:00 | 47.7 | 42.2 | 54.3 | 50.3 | 49.5 | 47.2 | 45.3 | 0.0 | 6.0 | Saturday | Plant off | |
| 03Nov2018 | 02:00:00 | 1:00:00 | 49.1 | 36.2 | 62.2 | 52.7 | 52 | 48.5 | 41.6 | 0.0 | 6.5 | Saturday | Plant off | |
| 03Nov2018 | 03:00:00 | 1:00:00 | 45.7 | 32.3 | 61.7 | 49.8 | 48.7 | 44.6 | 38.6 | 0.0 | 5.5 | Saturday | Plant off | |
| 03Nov2018 | 04:00:00 | 1:00:00 | 47.2 | 40.2 | 62.7 | 50.7 | 49.8 | 46.3 | 43.5 | 0.5 | 6.5 | Saturday | Plant off | |
| 03Nov2018 | 05:00:00 | 1:00:00 | 46.8 | 39.1 | 58.2 | 50.2 | 49.2 | 46.2 | 43.6 | 0.4 | 6.0 | Saturday | Plant off | |
| 03Nov2018 | 06:00:00 | 1:00:00 | 44.2 | 36.7 | 56.6 | 47.2 | 46.2 | 43.7 | 41 | 0.4 | 5.5 | Saturday | Plant off | |
| 03Nov2018 | 07:00:00 | 1:00:00 | 46.3 | 40.5 | 64.7 | 49.5 | 48.7 | 45.7 | 43.3 | 0.6 | 5.0 | Saturday | Plant off | |
| 03Nov2018 | 08:00:00 | 1:00:00 | 45.5 | 35.8 | 64.7 | 49.3 | 48 | 43.7 | 39.6 | 1.6 | 7.0 | Saturday | Plant off | |
| 03Nov2018 | 09:00:00 | 1:00:00 | 48.2 | 37 | 65.5 | 53.1 | 51.3 | 46.2 | 42.5 | 0.3 | 6.0 | Saturday | Plant off | |
| 03Nov2018 | 10:00:00 | 1:00:00 | 44.2 | 35.5 | 65.5 | 47.8 | 46.2 | 42.2 | 39.2 | 0.0 | 5.5 | Saturday | Plant off | |
| 03Nov2018 | 11:00:00 | 1:00:00 | 46.2 | 38.8 | 62.2 | 50 | 48.8 | 45.1 | 42.2 | 0.9 | 5.5 | Saturday | Plant off | |

| Table 4 | | | Locn N4 | | | | | | | | | | |
|-----------|----------|----------|---------|------|------|------|------|------|------|------|------|----------|-----------|
| | | | Leq | Lmin | Lmax | L5 | L10 | L50 | L90 | Rain | wind | | Plant |
| Date | Time | Duration | dBA | dBA | dBA | dBA | dBA | dBA | dBA | mm | m/s | | Status |
| 03Nov2018 | 12:00:00 | 1:00:00 | 47.2 | 38.7 | 66.7 | 51.7 | 50.2 | 45.3 | 41.2 | 0.0 | 6.5 | Saturday | Plant off |
| 03Nov2018 | 13:00:00 | 1:00:00 | 46.3 | 39.7 | 59.2 | 50 | 49.1 | 45.5 | 42.7 | 0.0 | 6.0 | Saturday | Plant off |
| 03Nov2018 | 14:00:00 | 1:00:00 | 46.2 | 38.3 | 62 | 50.2 | 48.7 | 45.1 | 42 | 0.0 | 5.5 | Saturday | Plant off |
| 03Nov2018 | 15:00:00 | 1:00:00 | 47.5 | 38.2 | 65.5 | 51.6 | 50 | 46.1 | 42.7 | 0.0 | 6.0 | Saturday | Plant off |
| 03Nov2018 | 16:00:00 | 1:00:00 | 50.3 | 38.7 | 72.5 | 54.8 | 53.2 | 47.5 | 43.3 | 0.0 | 7.0 | Saturday | Plant off |
| 03Nov2018 | 17:00:00 | 1:00:00 | 46 | 38.7 | 68.5 | 49.7 | 48.2 | 44.3 | 41.5 | 0.0 | 6.5 | Saturday | Plant off |
| 03Nov2018 | 18:00:00 | 1:00:00 | 45.3 | 38.8 | 62.5 | 48.7 | 47.7 | 44.5 | 41.8 | 0.0 | 5.5 | Saturday | Plant off |
| 03Nov2018 | 19:00:00 | 1:00:00 | 48.2 | 39 | 64.5 | 53.6 | 50.8 | 46.1 | 43.3 | 0.0 | 4.0 | Saturday | Plant off |
| 03Nov2018 | 20:00:00 | 1:00:00 | 47.2 | 33 | 65.9 | 52.7 | 51.2 | 44.7 | 37 | 0.8 | 5.0 | Saturday | Plant off |
| 03Nov2018 | 21:00:00 | 1:00:00 | 40.7 | 31.5 | 56.7 | 44.7 | 43.5 | 39.3 | 36 | 0.0 | 5.0 | Saturday | Plant off |
| 03Nov2018 | 22:00:00 | 1:00:00 | 41.6 | 32.1 | 58.2 | 45.3 | 44.3 | 40.5 | 37.2 | 0.0 | 4.0 | Saturday | Plant off |
| 03Nov2018 | 23:00:00 | 1:00:00 | 42.8 | 35 | 56.5 | 46.5 | 45.5 | 42 | 38.7 | 0.0 | 5.0 | Saturday | Plant off |
| 04Nov2018 | 00:00:00 | 1:00:00 | 41 | 33.3 | 59.2 | 44.6 | 43.6 | 39.7 | 36.7 | 0.0 | 4.8 | Sunday | Plant off |
| 04Nov2018 | 01:00:00 | 1:00:00 | 38.3 | 29.3 | 53.8 | 42.2 | 41.1 | 37.2 | 33.5 | 0.0 | 4.0 | Sunday | Plant off |
| 04Nov2018 | 02:00:00 | 1:00:00 | 38.1 | 29.8 | 55.5 | 42.2 | 41 | 36.6 | 33.6 | 0.0 | 4.8 | Sunday | Plant off |
| 04Nov2018 | 03:00:00 | 1:00:00 | 40.8 | 32.3 | 59.6 | 45.3 | 44 | 39.3 | 35.7 | 0.0 | 4.6 | Sunday | Plant off |
| 04Nov2018 | 04:00:00 | 1:00:00 | 37.2 | 28.6 | 52.2 | 41.7 | 40.2 | 35.5 | 32.6 | 0.0 | 3.8 | Sunday | Plant off |
| 04Nov2018 | 05:00:00 | 1:00:00 | 38.7 | 24.8 | 55.3 | 44.3 | 42.7 | 34.7 | 29.8 | 0.0 | 4.2 | Sunday | Plant off |
| 04Nov2018 | 06:00:00 | 1:00:00 | 36.2 | 28.3 | 54.1 | 39.8 | 38.5 | 34.8 | 32.1 | 0.0 | 4.2 | Sunday | Plant off |
| 04Nov2018 | 07:00:00 | 1:00:00 | 41.7 | 31.1 | 65.2 | 45.3 | 43.2 | 39.1 | 35.7 | 0.0 | 2.0 | Sunday | Plant off |
| 04Nov2018 | 08:00:00 | 1:00:00 | 42.7 | 33 | 61.2 | 47.2 | 45.5 | 40.5 | 37.5 | 0.0 | 3.5 | Sunday | Plant off |
| 04Nov2018 | 09:00:00 | 1:00:00 | 42.7 | 35.2 | 63.3 | 46.2 | 44.8 | 41.5 | 38.8 | 0.0 | 4.0 | Sunday | Plant off |
| 04Nov2018 | 10:00:00 | 1:00:00 | 42.8 | 34.3 | 66.2 | 46.7 | 45.2 | 40.6 | 37.8 | 0.0 | 5.0 | Sunday | Plant off |
| 04Nov2018 | 11:00:00 | 1:00:00 | 43.3 | 34.7 | 72.2 | 46.8 | 45.2 | 40.7 | 38.1 | 0.0 | 4.5 | Sunday | Plant off |
| 04Nov2018 | 12:00:00 | 1:00:00 | 43.2 | 33.5 | 66.7 | 47.3 | 45.8 | 41.3 | 37.7 | 0.0 | 3.5 | Sunday | Plant off |
| 04Nov2018 | 13:00:00 | 1:00:00 | 41.2 | 30.3 | 65.5 | 45.5 | 43.8 | 37.7 | 34 | 0.0 | 3.0 | Sunday | Plant off |
| 04Nov2018 | 14:00:00 | 1:00:00 | 40.7 | 28.3 | 68.9 | 45.3 | 43.2 | 36.1 | 32.3 | 0.0 | 2.0 | Sunday | Plant off |
| 04Nov2018 | 15:00:00 | 1:00:00 | 39.1 | 29.1 | 64.8 | 43.3 | 42 | 36.3 | 32.5 | 0.0 | 1.0 | Sunday | Plant off |
| 04Nov2018 | 16:00:00 | 1:00:00 | 44.1 | 33.5 | 68.9 | 47.3 | 46.2 | 42.6 | 39 | 0.0 | 1.0 | Sunday | Plant off |
| 04Nov2018 | 17:00:00 | 1:00:00 | 46 | 37.2 | 65.9 | 48.2 | 46.8 | 44.1 | 41.3 | 0.0 | 2.0 | Sunday | Plant off |
| 04Nov2018 | 18:00:00 | 1:00:00 | 42.8 | 33.3 | 51.6 | 46.3 | 45.6 | 42.2 | 38.7 | 0.0 | 1.5 | Sunday | Plant off |
| 04Nov2018 | 19:00:00 | 1:00:00 | 43 | 33.3 | 57.6 | 46.6 | 45.5 | 42 | 38.7 | 0.0 | 1.5 | Sunday | Plant off |
| 04Nov2018 | 20:00:00 | 1:00:00 | 42.7 | 33.1 | 50.7 | 46 | 45.2 | 42.1 | 38.8 | 0.0 | 2.0 | Sunday | Plant off |
| 04Nov2018 | 21:00:00 | 1:00:00 | 41.5 | 30.8 | 55.8 | 45.2 | 44.1 | 40.5 | 36.6 | 0.0 | 2.0 | Sunday | Plant off |
| 04Nov2018 | 22:00:00 | 1:00:00 | 41.2 | 27.3 | 55 | 45.3 | 44.2 | 40 | 35.5 | 0.0 | 1.5 | Sunday | Plant off |
| 04Nov2018 | 23:00:00 | 1:00:00 | 39 | 21.5 | 53.6 | 44.2 | 42.7 | 36.2 | 29.3 | 0.0 | 2.0 | Sunday | Plant off |
| 05Nov2018 | 00:00:00 | 1:00:00 | 35.1 | 23.3 | 47.8 | 40 | 38.2 | 33.1 | 28.8 | 0.4 | 1.5 | Monday | Plant off |
| 05Nov2018 | 01:00:00 | 1:00:00 | 37.3 | 26.8 | 51.7 | 41.5 | 40.2 | 35.8 | 32.5 | 1.4 | 1.5 | Monday | Plant off |
| 05Nov2018 | 02:00:00 | 1:00:00 | 39.2 | 32.1 | 54.8 | 43.5 | 41.7 | 38 | 35.3 | 1.0 | 1.5 | Monday | Plant off |
| 05Nov2018 | 03:00:00 | 1:00:00 | 36 | 23.6 | 56.2 | 41.7 | 39.2 | 32.8 | 26.8 | 0.9 | 1.5 | Monday | Plant off |
| 05Nov2018 | 04:00:00 | 1:00:00 | 37.2 | 21.1 | 55.1 | 43.7 | 41.3 | 30.8 | 24.8 | 0.4 | 2.5 | Monday | Plant off |
| 05Nov2018 | 05:00:00 | 1:00:00 | 43.7 | 25.1 | 58.8 | 49.1 | 47.3 | 41 | 32 | 0.0 | 2.5 | Monday | Plant off |
| 05Nov2018 | 06:00:00 | 1:00:00 | 46.6 | 32.1 | 59.1 | 50.7 | 49.3 | 45.3 | 40.7 | 0.0 | 3.0 | Monday | Plant off |
| 05Nov2018 | 07:00:00 | 1:00:00 | 48.2 | 40.8 | 60.8 | 51.2 | 50.2 | 47.6 | 44.8 | 0.0 | 3.0 | Monday | Plant off |
| 05Nov2018 | 08:00:00 | 1:00:00 | 47.6 | 42 | 61.6 | 51.5 | 49.5 | 45.8 | 43.7 | 0.0 | 3.5 | Monday | Plant on |
| 05Nov2018 | 09:00:00 | 1:00:00 | 46.1 | 42.1 | 56.7 | 49.2 | 47.8 | 45.2 | 43.7 | 0.0 | 2.5 | Monday | Plant on |
| 05Nov2018 | 10:00:00 | 1:00:00 | 48.7 | 41.2 | 60.3 | 53.3 | 51.3 | 46.7 | 44.5 | 0.0 | 3.0 | Monday | Plant on |

| Table 4 | | | Locn N4 | | | | | | | | | | | |
|-----------|----------|----------|------------|-------------|-------------|-----------|------------|------------|------------|------------|-------------|-----------|-----------------|--|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | Day | Plant Status | |
| 05Nov2018 | 11:00:00 | 1:00:00 | 47.1 | 40.3 | 62.8 | 50.6 | 49 | 45.1 | 42.8 | 0.0 | 2.5 | Monday | Plant on | |
| 05Nov2018 | 12:00:00 | 1:00:00 | 46.6 | 41.7 | 58 | 50.2 | 48.7 | 45.5 | 43.6 | 0.0 | 2.5 | Monday | Plant on | |
| 05Nov2018 | 13:00:00 | 1:00:00 | 48.2 | 41.7 | 60.2 | 53 | 51 | 46.2 | 44.1 | 0.0 | 2.5 | Monday | Plant on | |
| 05Nov2018 | 14:00:00 | 1:00:00 | 48.1 | 42.7 | 59.5 | 52.3 | 50.3 | 46.7 | 44.7 | 0.0 | 0.5 | Monday | Plant on | |
| 05Nov2018 | 15:00:00 | 1:00:00 | 48.6 | 42.6 | 59.7 | 53.2 | 51.3 | 46.7 | 44.7 | 0.0 | 1.0 | Monday | Plant on | |
| 05Nov2018 | 16:00:00 | 1:00:00 | 49.1 | 43.2 | 63.5 | 53.6 | 51.5 | 47.1 | 44.8 | 0.0 | 1.0 | Monday | Plant on | |
| 05Nov2018 | 17:00:00 | 1:00:00 | 43 | 33.7 | 60.2 | 46.7 | 45.5 | 41.7 | 38.2 | 0.0 | 1.0 | Monday | Plant off | |
| 05Nov2018 | 18:00:00 | 1:00:00 | 43.1 | 35.7 | 61 | 46.1 | 45.2 | 42.2 | 39.3 | 0.0 | 2.0 | Monday | Plant off | |
| 05Nov2018 | 19:00:00 | 1:00:00 | 41.7 | 34.2 | 57.8 | 45.2 | 44.5 | 40.6 | 37.7 | 0.0 | 1.0 | Monday | Plant off | |
| 05Nov2018 | 20:00:00 | 1:00:00 | 41.3 | 30 | 55.7 | 45.2 | 44.2 | 40.1 | 35.7 | 0.0 | 2.5 | Monday | Plant off | |
| 05Nov2018 | 21:00:00 | 1:00:00 | 37.5 | 28.6 | 51.1 | 41.5 | 40.1 | 36.2 | 33.3 | 0.0 | 1.5 | Monday | Plant off | |
| 05Nov2018 | 22:00:00 | 1:00:00 | 38.2 | 28.1 | 55.2 | 42.5 | 41.1 | 36.7 | 32.8 | 0.0 | 2.5 | Monday | Plant off | |
| 05Nov2018 | 23:00:00 | 1:00:00 | 39.2 | 27 | 54.7 | 43.7 | 42.3 | 37.8 | 32.6 | 0.0 | 2.0 | Monday | Plant off | |
| 06Nov2018 | 00:00:00 | 1:00:00 | 36.5 | 24 | 51.2 | 41.1 | 39.7 | 34.7 | 28.8 | 0.0 | 2.5 | Tuesday | Plant off | |
| 06Nov2018 | 01:00:00 | 1:00:00 | 34.5 | 22.6 | 49.1 | 39.5 | 38 | 32.1 | 25.5 | 0.0 | 2.5 | Tuesday | Plant off | |
| 06Nov2018 | 02:00:00 | 1:00:00 | 37.3 | 24.6 | 51.2 | 41.5 | 40.3 | 36 | 31.6 | 0.0 | 3.0 | Tuesday | Plant off | |
| 06Nov2018 | 03:00:00 | 1:00:00 | 40.2 | 29.3 | 51.7 | 43.3 | 42.5 | 39.7 | 36.3 | 0.0 | 2.5 | Tuesday | Plant off | |
| 06Nov2018 | 04:00:00 | 1:00:00 | 38.6 | 28.1 | 57.5 | 43.1 | 41.2 | 36.2 | 32 | 0.0 | 3.0 | Tuesday | Plant off | |
| 06Nov2018 | 05:00:00 | 1:00:00 | 46 | 32.8 | 63.3 | 50.5 | 48.7 | 43.7 | 39 | 0.0 | 4.5 | Tuesday | Plant off | |
| 06Nov2018 | 06:00:00 | 1:00:00 | 48.3 | 40.2 | 67.4 | 52.6 | 50.8 | 46.3 | 43.7 | 0.0 | 5.8 | Tuesday | Plant off | |
| 06Nov2018 | 07:00:00 | 1:00:00 | 51.7 | 43.7 | 68.2 | 55.1 | 53.8 | 50.3 | 47.7 | 0.0 | 6.0 | Tuesday | Plant off | |
| 06Nov2018 | 08:00:00 | 1:00:00 | 51.8 | 43.7 | 64.8 | 55.2 | 54.1 | 51 | 48.6 | 0.0 | 6.5 | Tuesday | Plant on | |
| 06Nov2018 | 09:00:00 | 1:00:00 | 50.7 | 43.1 | 65.3 | 54.2 | 53 | 49.7 | 47.1 | 0.0 | 5.2 | Tuesday | Plant on | |
| 06Nov2018 | 10:00:00 | 1:00:00 | 51.2 | 41.7 | 69.2 | 55.3 | 53.5 | 49.5 | 46.7 | 0.0 | 5.4 | Tuesday | Plant on | |
| 06Nov2018 | 11:00:00 | 1:00:00 | 54 | 46 | 71 | 58.5 | 56.5 | 51.6 | 48.7 | 0.0 | 5.6 | Tuesday | Plant on | |
| 06Nov2018 | 12:00:00 | 1:00:00 | 53 | 42.5 | 70 | 57.7 | 55.6 | 50.5 | 46.8 | 0.2 | 5.0 | Tuesday | Plant on | |
| 06Nov2018 | 13:00:00 | 1:00:00 | 46.8 | 38.8 | 65.3 | 51 | 49.1 | 45.2 | 42.2 | 0.2 | 6.2 | Tuesday | Plant on | |
| 06Nov2018 | 14:00:00 | 1:00:00 | 47.2 | 42.2 | 62.7 | 50.3 | 48.8 | 46 | 44.3 | 0.6 | 5.2 | Tuesday | Plant on | |
| 06Nov2018 | 15:00:00 | 1:00:00 | 46.8 | 42.2 | 62.7 | 49.3 | 48.5 | 46.2 | 44.6 | 2.1 | 3.8 | Tuesday | Plant on | |
| 06Nov2018 | 16:00:00 | 1:00:00 | 47.2 | 40.2 | 61.3 | 50.2 | 49.3 | 46.7 | 44 | 0.0 | 3.2 | Tuesday | Plant on | |
| 06Nov2018 | 17:00:00 | 1:00:00 | 47.7 | 39.7 | 68.2 | 52 | 50.2 | 46.2 | 43.7 | 0.0 | 5.0 | Tuesday | Plant off | |
| 06Nov2018 | 18:00:00 | 1:00:00 | 43.8 | 35.1 | 55.6 | 47.2 | 46.2 | 43.2 | 39.7 | 0.0 | 4.0 | Tuesday | Plant off | |
| 06Nov2018 | 19:00:00 | 1:00:00 | 41.3 | 32.8 | 56.2 | 45.7 | 44.2 | 39.7 | 36.7 | 0.0 | 4.5 | Tuesday | Plant off | |
| 06Nov2018 | 20:00:00 | 1:00:00 | 41.2 | 32.5 | 57.2 | 45.2 | 44.2 | 40.1 | 37.1 | 0.0 | 1.0 | Tuesday | Plant off | |
| 06Nov2018 | 21:00:00 | 1:00:00 | 41.1 | 30.3 | 55.6 | 45.8 | 44.1 | 39.5 | 36 | 0.0 | 1.5 | Tuesday | Plant off | |
| 06Nov2018 | 22:00:00 | 1:00:00 | 38.5 | 25.8 | 51.5 | 43 | 41.5 | 37.1 | 32 | 0.0 | 1.0 | Tuesday | Plant off | |
| 06Nov2018 | 23:00:00 | 1:00:00 | 36.7 | 24.5 | 51.6 | 41.5 | 40 | 34.7 | 29.3 | 0.0 | 2.0 | Tuesday | Plant off | |
| 07Nov2018 | 00:00:00 | 1:00:00 | 33.1 | 21.3 | 47.5 | 38.2 | 37 | 30.6 | 24.5 | 0.0 | 3.0 | Wednesday | Plant off | |
| 07Nov2018 | 01:00:00 | 1:00:00 | 32.8 | 22.1 | 48 | 38.2 | 36.2 | 30.1 | 25.3 | 0.0 | 3.5 | Wednesday | Plant off | |
| 07Nov2018 | 02:00:00 | 1:00:00 | 33.8 | 21.5 | 50.7 | 40 | 37.6 | 29.8 | 23.8 | 0.0 | 3.0 | Wednesday | Plant off | |
| 07Nov2018 | 03:00:00 | 1:00:00 | 38.7 | 22.5 | 68.5 | 39.2 | 36.2 | 28.1 | 23.8 | 0.0 | 2.5 | Wednesday | Plant off | |
| 07Nov2018 | 04:00:00 | 1:00:00 | 34.6 | 22.8 | 51.1 | 40.2 | 37.5 | 30.6 | 26 | 0.0 | 3.5 | Wednesday | Plant off | |
| 07Nov2018 | 05:00:00 | 1:00:00 | 33.5 | 22.8 | 48.2 | 38.3 | 37 | 31 | 25.8 | 0.0 | 2.2 | Wednesday | Plant off | |
| 07Nov2018 | 06:00:00 | 1:00:00 | 40.2 | 26.1 | 51.2 | 44.2 | 43.2 | 39.2 | 34.3 | 0.0 | 2.4 | Wednesday | Plant off | |
| 07Nov2018 | 07:00:00 | 1:00:00 | 44.3 | 35.8 | 63 | 48 | 46.8 | 43.5 | 40.6 | 0.0 | 2.6 | Wednesday | Plant off | |
| 07Nov2018 | 08:00:00 | 1:00:00 | 51.2 | 36.1 | 68.5 | 55.2 | 54.2 | 50.2 | 40.3 | 0.0 | 2.8 | Wednesday | Plant on | |
| 07Nov2018 | 09:00:00 | 1:00:00 | 51.6 | 40.5 | 65.2 | 54.8 | 53.8 | 50.8 | 48 | 0.0 | 2.2 | Wednesday | Plant on | |

| Table 4 | | | Locn N4 | | | | | | | | | | Plant |
|-----------|----------|----------|---------|----------|----------|--------|---------|---------|---------|---------|----------|----------|-----------|
| Date | Time | Duration | Leq dBA | Lmin dBA | Lmax dBA | L5 dBA | L10 dBA | L50 dBA | L90 dBA | Rain mm | wind m/s | | Status |
| 07Nov2018 | 10:00:00 | 1:00:00 | 53.5 | 38.3 | 67.2 | 57.8 | 56.8 | 53 | 42.5 | 0.0 | 3.2 | Wednes | Plant on |
| 07Nov2018 | 11:00:00 | 1:00:00 | 55.6 | 48 | 71.5 | 59.1 | 57.7 | 54.6 | 52.1 | 0.0 | 5.6 | Wednes | Plant on |
| 07Nov2018 | 12:00:00 | 1:00:00 | 55.8 | 37.3 | 73.5 | 60.1 | 58.8 | 55 | 44.1 | 0.0 | 4.8 | Wednes | Plant on |
| 07Nov2018 | 13:00:00 | 1:00:00 | 54.6 | 40.5 | 69 | 60.5 | 59.2 | 46.7 | 43.1 | 0.0 | 4.6 | Wednes | Plant on |
| 07Nov2018 | 14:00:00 | 1:00:00 | 53.7 | 45.7 | 70.7 | 57.5 | 56.3 | 52.7 | 49.6 | 0.0 | 5.4 | Wednes | Plant on |
| 07Nov2018 | 15:00:00 | 1:00:00 | 51 | 43.8 | 63.2 | 54.5 | 53.2 | 50 | 47.5 | 0.0 | 4.8 | Wednes | Plant on |
| 07Nov2018 | 16:00:00 | 1:00:00 | 52.5 | 44.3 | 68.4 | 57.2 | 55.5 | 50.2 | 47.7 | 0.0 | 4.4 | Wednes | Plant on |
| 07Nov2018 | 17:00:00 | 1:00:00 | 45 | 33.7 | 68.7 | 49.7 | 47.2 | 42.3 | 38.3 | 0.0 | 4.0 | Wednes | Plant off |
| 07Nov2018 | 18:00:00 | 1:00:00 | 42.6 | 31.8 | 54.1 | 47 | 45.7 | 41.2 | 35.8 | 0.0 | 4.0 | Wednes | Plant off |
| 07Nov2018 | 19:00:00 | 1:00:00 | 43 | 34.8 | 54.2 | 46.3 | 45.5 | 42.2 | 39.5 | 0.0 | 3.5 | Wednes | Plant off |
| 07Nov2018 | 20:00:00 | 1:00:00 | 43.6 | 36.1 | 54.2 | 46.8 | 45.8 | 43 | 40.2 | 0.0 | 3.0 | Wednes | Plant off |
| 07Nov2018 | 21:00:00 | 1:00:00 | 44.1 | 35.8 | 57.3 | 47.3 | 46.5 | 43.3 | 40.5 | 0.0 | 2.0 | Wednes | Plant off |
| 07Nov2018 | 22:00:00 | 1:00:00 | 44.2 | 33.5 | 64.1 | 48.3 | 46.8 | 42.6 | 39 | 0.0 | 3.0 | Wednes | Plant off |
| 07Nov2018 | 23:00:00 | 1:00:00 | 42.3 | 33.6 | 67.5 | 45.8 | 44.5 | 40.6 | 37.7 | 0.0 | 3.5 | Wednes | Plant off |
| 08Nov2018 | 00:00:00 | 1:00:00 | 40.7 | 28.5 | 62.2 | 45.1 | 43.2 | 38.2 | 34.1 | 0.0 | 4.5 | Thursday | Plant off |
| 08Nov2018 | 01:00:00 | 1:00:00 | 36.7 | 23.8 | 52.6 | 41.6 | 39.8 | 34.7 | 29.1 | 0.0 | 4.0 | Thursday | Plant off |
| 08Nov2018 | 02:00:00 | 1:00:00 | 36.2 | 25.5 | 51.1 | 41.1 | 39.6 | 34 | 29.1 | 0.0 | 4.5 | Thursday | Plant off |
| 08Nov2018 | 03:00:00 | 1:00:00 | 35.1 | 24.8 | 49.8 | 39.7 | 38.2 | 32.8 | 27.6 | 0.0 | 3.0 | Thursday | Plant off |
| 08Nov2018 | 04:00:00 | 1:00:00 | 38.5 | 32 | 54 | 41.8 | 41.1 | 37.6 | 34.7 | 0.0 | 3.5 | Thursday | Plant off |
| 08Nov2018 | 05:00:00 | 1:00:00 | 40.5 | 29.8 | 53.7 | 44.7 | 43.6 | 39.3 | 34.1 | 0.0 | 6.5 | Thursday | Plant off |
| 08Nov2018 | 06:00:00 | 1:00:00 | 45.2 | 37.5 | 55.7 | 48.6 | 47.6 | 44.3 | 41.7 | 0.0 | 5.0 | Thursday | Plant off |
| 08Nov2018 | 07:00:00 | 1:00:00 | 49.2 | 43.2 | 63.7 | 52.5 | 51.5 | 48.6 | 46.2 | 0.0 | 4.3 | Thursday | Plant off |
| 08Nov2018 | 08:00:00 | 1:00:00 | 50.8 | 44.1 | 66.9 | 53.3 | 52.5 | 50.2 | 48.2 | 0.0 | 6.0 | Thursday | |



Location N1 facing towards quarry and towards house



Location N2 facing towards quarry and towards house



N3: Facing towards quarry and house



N4: Facing towards quarry



N4: Facing towards house

Appendix 11.4 – Noise Survey Data April 2025 - Locations N1 to N4 incl.

| N1 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-02 | 14:45:00 | 00:15:00.0 | 48.6 | 42.7 | 59.0 | 52.0 | 51.1 | 48.8 | 47.8 | 45.5 | 6.0 | Operating |
| 2025-04-02 | 15:00:00 | 00:15:00.0 | 49.6 | 41.2 | 68.0 | 53.0 | 51.6 | 49.2 | 48.1 | 45.8 | 5.5 | Operating |
| 2025-04-02 | 15:15:00 | 00:15:00.0 | 49.8 | 41.3 | 61.1 | 53.7 | 52.5 | 49.9 | 48.3 | 45.7 | | Operating |
| 2025-04-02 | 15:30:00 | 00:15:00.0 | 48.3 | 42.2 | 58.5 | 51.1 | 50.3 | 48.6 | 47.8 | 45.6 | | Operating |
| 2025-04-02 | 15:45:00 | 00:15:00.0 | 48.5 | 40.2 | 57.8 | 52.1 | 51.1 | 48.8 | 47.6 | 44.8 | | Operating |
| 2025-04-02 | 16:00:00 | 00:15:00.0 | 47.7 | 40.7 | 57.4 | 50.9 | 50.1 | 48.2 | 47.0 | 44.1 | 5.0 | Operating |
| 2025-04-02 | 16:15:00 | 00:15:00.0 | 52.6 | 39.6 | 66.1 | 58.6 | 58.4 | 50.6 | 49.3 | 45.7 | | Operating |
| 2025-04-02 | 16:30:00 | 00:15:00.0 | 48.4 | 39.9 | 62.4 | 51.8 | 51.1 | 48.3 | 47.2 | 44.8 | | Operating |
| | | | 49 | 41 | 61 | 53 | 52 | 49 | 48 | 45 | | |
| 2025-04-02 | 16:45:00 | 00:15:00.0 | 49.0 | 38.3 | 76.4 | 51.9 | 51.2 | 48.7 | 47.4 | 44.4 | 4.5 | Off |
| 2025-04-02 | 17:00:00 | 00:15:00.0 | 48.0 | 41.3 | 60.5 | 51.3 | 50.4 | 48.3 | 47.3 | 44.4 | | Off |
| 2025-04-02 | 17:15:00 | 00:15:00.0 | 47.9 | 40.5 | 55.5 | 50.7 | 50.1 | 48.4 | 47.5 | 44.8 | | Off |
| 2025-04-02 | 17:30:00 | 00:15:00.0 | 48.3 | 41.8 | 61.8 | 51.0 | 50.3 | 48.8 | 47.9 | 45.3 | | Off |
| 2025-04-02 | 17:45:00 | 00:15:00.0 | 48.2 | 40.8 | 60.4 | 51.4 | 50.8 | 48.5 | 47.3 | 44.9 | | Off |
| | | | 48 | 41 | 63 | 51 | 51 | 49 | 47 | 45 | | |
| 2025-04-02 | 18:00:00 | 00:15:00.0 | 47.7 | 41.1 | 56.4 | 50.9 | 49.9 | 48.0 | 47.0 | 44.7 | 5.0 | Off |
| 2025-04-02 | 18:15:00 | 00:15:00.0 | 46.8 | 39.6 | 56.9 | 49.9 | 49.1 | 47.0 | 46.0 | 44.0 | | Off |
| 2025-04-02 | 18:30:00 | 00:15:00.0 | 47.3 | 40.1 | 57.5 | 50.7 | 49.7 | 47.7 | 46.7 | 43.7 | | Off |
| 2025-04-02 | 18:45:00 | 00:15:00.0 | 48.2 | 42.2 | 58.0 | 51.0 | 50.0 | 48.4 | 47.7 | 45.6 | | Off |
| 2025-04-02 | 19:00:00 | 00:15:00.0 | 46.9 | 37.4 | 58.3 | 50.4 | 49.1 | 47.2 | 46.4 | 42.0 | 4.5 | Off |
| 2025-04-02 | 19:15:00 | 00:15:00.0 | 47.6 | 40.4 | 62.5 | 51.0 | 49.9 | 47.7 | 46.7 | 44.5 | | Off |
| 2025-04-02 | 19:30:00 | 00:15:00.0 | 47.8 | 38.6 | 59.7 | 50.8 | 50.0 | 48.1 | 47.1 | 44.7 | | Off |
| 2025-04-02 | 19:45:00 | 00:15:00.0 | 47.1 | 40.6 | 57.6 | 50.4 | 49.2 | 47.2 | 46.4 | 43.8 | | Off |
| 2025-04-02 | 20:00:00 | 00:15:00.0 | 48.8 | 41.2 | 60.2 | 52.4 | 51.4 | 49.0 | 47.8 | 45.1 | 4.0 | Off |
| 2025-04-02 | 20:15:00 | 00:15:00.0 | 48.8 | 40.5 | 71.6 | 51.4 | 50.4 | 48.4 | 47.4 | 44.8 | | Off |
| 2025-04-02 | 20:30:00 | 00:15:00.0 | 51.6 | 39.5 | 71.5 | 54.4 | 50.4 | 47.8 | 46.6 | 43.4 | | Off |
| 2025-04-02 | 20:45:00 | 00:15:00.0 | 45.2 | 37.6 | 54.5 | 48.3 | 47.3 | 45.4 | 44.6 | 42.1 | | Off |
| 2025-04-02 | 21:00:00 | 00:15:00.0 | 45.3 | 38.6 | 54.1 | 47.7 | 47.0 | 45.6 | 45.0 | 42.9 | 3.5 | Off |
| 2025-04-02 | 21:15:00 | 00:15:00.0 | 45.7 | 37.4 | 53.9 | 48.8 | 48.0 | 46.3 | 45.3 | 42.1 | | Off |
| 2025-04-02 | 21:30:00 | 00:15:00.0 | 45.6 | 36.8 | 53.1 | 48.5 | 47.7 | 46.0 | 45.2 | 42.3 | | Off |
| 2025-04-02 | 21:45:00 | 00:15:00.0 | 45.5 | 37.4 | 53.1 | 48.4 | 47.6 | 46.0 | 45.1 | 42.5 | | Off |
| 2025-04-02 | 22:00:00 | 00:15:00.0 | 46.8 | 38.2 | 54.0 | 49.4 | 48.6 | 47.3 | 46.6 | 43.3 | | Off |
| 2025-04-02 | 22:15:00 | 00:15:00.0 | 45.1 | 36.0 | 53.3 | 48.1 | 47.5 | 45.8 | 44.8 | 40.4 | | Off |
| 2025-04-02 | 22:30:00 | 00:15:00.0 | 43.4 | 34.5 | 53.5 | 48.2 | 46.7 | 42.9 | 41.9 | 39.5 | | Off |
| 2025-04-02 | 22:45:00 | 00:15:00.0 | 44.6 | 33.1 | 55.2 | 47.6 | 47.0 | 44.8 | 43.9 | 41.4 | | Off |
| 2025-04-02 | 23:00:00 | 00:15:00.0 | 43.0 | 30.4 | 52.8 | 46.1 | 45.6 | 44.0 | 42.7 | 35.3 | | Off |
| 2025-04-02 | 23:15:00 | 00:15:00.0 | 45.0 | 29.0 | 54.0 | 48.2 | 47.7 | 45.9 | 44.6 | 39.0 | | Off |
| 2025-04-02 | 23:30:00 | 00:15:00.0 | 46.5 | 35.9 | 65.2 | 49.7 | 47.7 | 45.5 | 44.4 | 40.7 | | Off |
| 2025-04-02 | 23:45:00 | 00:15:00.0 | 43.9 | 36.0 | 52.3 | 47.2 | 46.3 | 44.4 | 43.3 | 40.1 | | Off |
| 2025-04-03 | 00:00:00 | 00:15:00.0 | 43.5 | 29.4 | 53.0 | 46.9 | 46.2 | 44.1 | 42.9 | 38.2 | | Off |
| 2025-04-03 | 00:15:00 | 00:15:00.0 | 41.9 | 31.6 | 50.2 | 45.6 | 44.8 | 42.2 | 41.0 | 37.7 | | Off |
| 2025-04-03 | 00:30:00 | 00:15:00.0 | 40.7 | 26.5 | 49.8 | 44.9 | 44.0 | 41.8 | 39.8 | 30.6 | | Off |

| N1 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-03 | 00:45:00 | 00:15:00.0 | 37.2 | 27.6 | 48.1 | 41.4 | 40.3 | 37.5 | 36.1 | 31.8 | | Off |
| 2025-04-03 | 01:00:00 | 00:15:00.0 | 40.2 | 28.4 | 55.4 | 45.7 | 43.6 | 40.0 | 38.0 | 33.0 | | Off |
| 2025-04-03 | 01:15:00 | 00:15:00.0 | 36.9 | 21.5 | 53.1 | 42.1 | 40.4 | 36.8 | 34.0 | 26.3 | | Off |
| 2025-04-03 | 01:30:00 | 00:15:00.0 | 39.5 | 24.5 | 49.1 | 44.4 | 43.0 | 40.0 | 37.9 | 31.0 | | Off |
| 2025-04-03 | 01:45:00 | 00:15:00.0 | 38.7 | 25.5 | 55.3 | 44.0 | 42.3 | 38.2 | 35.8 | 29.9 | | Off |
| 2025-04-03 | 02:00:00 | 00:15:00.0 | 38.7 | 24.7 | 51.2 | 42.9 | 41.9 | 39.2 | 37.6 | 30.0 | | Off |
| 2025-04-03 | 02:15:00 | 00:15:00.0 | 37.4 | 22.1 | 52.7 | 41.9 | 40.7 | 37.4 | 35.6 | 30.1 | | Off |
| 2025-04-03 | 02:30:00 | 00:15:00.0 | 35.3 | 21.5 | 50.3 | 40.9 | 39.0 | 35.3 | 33.1 | 25.9 | | Off |
| 2025-04-03 | 02:45:00 | 00:15:00.0 | 41.7 | 30.1 | 53.4 | 45.9 | 45.0 | 42.2 | 40.5 | 34.6 | | Off |
| 2025-04-03 | 03:00:00 | 00:15:00.0 | 39.3 | 24.3 | 52.9 | 44.8 | 43.3 | 39.2 | 36.4 | 28.8 | | Off |
| 2025-04-03 | 03:15:00 | 00:15:00.0 | 40.2 | 25.6 | 54.3 | 46.0 | 44.3 | 39.7 | 36.1 | 28.1 | | Off |
| 2025-04-03 | 03:30:00 | 00:15:00.0 | 34.8 | 23.0 | 51.0 | 40.6 | 38.4 | 33.2 | 30.8 | 26.2 | | Off |
| 2025-04-03 | 03:45:00 | 00:15:00.0 | 38.1 | 23.9 | 53.9 | 44.5 | 41.5 | 35.6 | 33.3 | 28.0 | | Off |
| 2025-04-03 | 04:00:00 | 00:15:00.0 | 37.9 | 27.3 | 52.9 | 43.0 | 41.2 | 37.1 | 35.3 | 30.7 | | Off |
| 2025-04-03 | 04:15:00 | 00:15:00.0 | 39.3 | 25.9 | 51.4 | 45.3 | 43.9 | 38.8 | 36.3 | 29.0 | | Off |
| 2025-04-03 | 04:30:00 | 00:15:00.0 | 39.9 | 26.0 | 54.6 | 45.4 | 44.0 | 39.7 | 37.4 | 29.0 | | Off |
| 2025-04-03 | 04:45:00 | 00:15:00.0 | 39.8 | 25.0 | 51.5 | 44.9 | 43.5 | 39.9 | 37.8 | 29.8 | | Off |
| 2025-04-03 | 05:00:00 | 00:15:00.0 | 43.0 | 28.6 | 56.0 | 47.3 | 46.4 | 43.8 | 41.9 | 34.0 | | Off |
| 2025-04-03 | 05:15:00 | 00:15:00.0 | 43.7 | 33.9 | 55.3 | 47.3 | 46.5 | 44.2 | 42.8 | 38.7 | | Off |
| 2025-04-03 | 05:30:00 | 00:15:00.0 | 46.6 | 35.5 | 56.9 | 49.5 | 48.8 | 47.1 | 46.1 | 43.0 | | Off |
| 2025-04-03 | 05:45:00 | 00:15:00.0 | 47.1 | 40.6 | 55.2 | 49.7 | 49.1 | 47.6 | 46.8 | 44.4 | | Off |
| 2025-04-03 | 06:00:00 | 00:15:00.0 | 52.2 | 43.9 | 67.1 | 56.8 | 55.2 | 52.0 | 50.6 | 47.4 | 3.5 | Off |
| 2025-04-03 | 06:15:00 | 00:15:00.0 | 54.9 | 45.7 | 71.7 | 58.6 | 57.3 | 54.8 | 53.6 | 50.9 | | Off |
| 2025-04-03 | 06:30:00 | 00:15:00.0 | 51.6 | 45.2 | 62.8 | 55.2 | 54.3 | 51.5 | 50.6 | 48.6 | | Off |
| 2025-04-03 | 06:45:00 | 00:15:00.0 | 52.0 | 45.1 | 68.9 | 56.0 | 54.4 | 51.4 | 50.7 | 48.3 | | Off |
| 2025-04-03 | 07:00:00 | 00:15:00.0 | 50.9 | 45.0 | 63.2 | 53.9 | 52.9 | 51.3 | 50.4 | 47.9 | 5.0 | Off |
| 2025-04-03 | 07:15:00 | 00:15:00.0 | 51.3 | 47.1 | 62.2 | 53.1 | 52.5 | 51.6 | 51.1 | 49.5 | | Off |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 2025-04-03 | 07:30:00 | 00:15:00.0 | 56.6 | 47.2 | 72.5 | 57.0 | 56.4 | 53.5 | 52.4 | 50.3 | | Operating |
| 2025-04-03 | 07:45:00 | 00:15:00.0 | 53.8 | 46.6 | 68.5 | 56.9 | 56.5 | 52.9 | 52.0 | 49.9 | | Operating |
| 2025-04-03 | 08:00:00 | 00:15:00.0 | 51.7 | 45.9 | 60.7 | 54.8 | 53.8 | 51.8 | 51.1 | 49.1 | 5.5 | Operating |
| 2025-04-03 | 08:15:00 | 00:15:00.0 | 50.9 | 42.8 | 60.8 | 54.4 | 53.7 | 51.4 | 49.7 | 47.1 | | Operating |
| 2025-04-03 | 08:30:00 | 00:15:00.0 | 49.6 | 42.6 | 60.3 | 52.2 | 51.5 | 49.8 | 49.2 | 47.5 | | Operating |
| 2025-04-03 | 08:45:00 | 00:15:00.0 | 50.9 | 43.6 | 66.5 | 53.8 | 52.9 | 51.1 | 50.3 | 47.5 | | Operating |
| 2025-04-03 | 09:00:00 | 00:15:00.0 | 53.5 | 42.7 | 73.2 | 60.2 | 59.6 | 50.9 | 49.3 | 46.9 | 5.5 | Operating |
| 2025-04-03 | 09:15:00 | 00:15:00.0 | 47.3 | 38.7 | 59.1 | 50.6 | 49.7 | 47.5 | 46.7 | 43.3 | | Operating |
| 2025-04-03 | 09:30:00 | 00:15:00.0 | 47.8 | 38.3 | 74.4 | 50.7 | 49.3 | 47.0 | 45.7 | 43.4 | | Operating |
| 2025-04-03 | 09:45:00 | 00:15:00.0 | 47.3 | 39.6 | 57.5 | 50.9 | 49.9 | 47.5 | 46.5 | 43.7 | | Operating |
| 2025-04-03 | 10:00:00 | 00:15:00.0 | 46.5 | 39.2 | 57.8 | 50.2 | 48.9 | 46.4 | 45.5 | 43.1 | 5.5 | Operating |
| 2025-04-03 | 10:15:00 | 00:15:00.0 | 47.2 | 39.3 | 58.5 | 50.4 | 49.7 | 47.3 | 46.5 | 43.3 | | Operating |
| 2025-04-03 | 10:30:00 | 00:15:00.0 | 46.7 | 37.7 | 58.4 | 49.8 | 49.0 | 47.0 | 46.1 | 43.3 | | Operating |
| 2025-04-03 | 10:45:00 | 00:15:00.0 | 48.9 | 39.7 | 61.7 | 52.6 | 51.6 | 49.8 | 47.2 | 43.8 | | Operating |
| 2025-04-03 | 11:00:00 | 00:15:00.0 | 45.7 | 37.0 | 56.4 | 48.8 | 48.1 | 46.1 | 45.1 | 42.5 | 6.5 | Operating |
| 2025-04-03 | 11:15:00 | 00:15:00.0 | 47.7 | 38.3 | 65.7 | 52.6 | 50.4 | 47.2 | 46.1 | 42.7 | | Operating |
| 2025-04-03 | 11:30:00 | 00:15:00.0 | 46.0 | 38.8 | 59.3 | 49.0 | 48.1 | 46.3 | 45.3 | 42.6 | | Operating |

RECEIVED: 27/09/2025

| N1 | | | | | | | | | | | Wind | Quarry | |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-----------|-----------|-----------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status | |
| 2025-04-03 | 11:45:00 | 00:15:00.0 | 46.6 | 38.7 | 54.5 | 49.7 | 48.9 | 47.3 | 46.2 | 42.7 | 6.5 | Operating | |
| 2025-04-03 | 12:00:00 | 00:15:00.0 | 51.1 | 38.0 | 68.1 | 58.0 | 53.5 | 48.1 | 46.7 | 43.2 | | Operating | |
| 2025-04-03 | 12:15:00 | 00:15:00.0 | 47.6 | 40.1 | 62.2 | 50.6 | 49.7 | 47.7 | 46.9 | 44.3 | | Operating | |
| 2025-04-03 | 12:30:00 | 00:15:00.0 | 48.1 | 40.6 | 61.1 | 51.6 | 50.6 | 48.3 | 47.3 | 44.4 | | Operating | |
| 2025-04-03 | 12:45:00 | 00:15:00.0 | 47.6 | 40.8 | 57.2 | 51.1 | 50.0 | 48.0 | 46.9 | 44.2 | | Operating | |
| 2025-04-03 | 13:00:00 | 00:15:00.0 | 48.1 | 41.4 | 63.9 | 51.4 | 50.5 | 48.2 | 47.2 | 45.0 | | 7.5 | Operating |
| 2025-04-03 | 13:15:00 | 00:15:00.0 | 49.1 | 41.7 | 75.6 | 51.7 | 50.8 | 48.4 | 47.3 | 45.1 | | Operating | |
| 2025-04-03 | 13:30:00 | 00:15:00.0 | 49.3 | 42.3 | 58.8 | 52.2 | 51.2 | 49.6 | 48.7 | 46.0 | | Operating | |
| 2025-04-03 | 13:45:00 | 00:15:00.0 | 48.3 | 41.3 | 59.5 | 51.4 | 50.5 | 48.5 | 47.5 | 45.4 | | Operating | |
| 2025-04-03 | 14:00:00 | 00:15:00.0 | 48.4 | 41.2 | 59.7 | 52.2 | 51.0 | 48.5 | 47.5 | 44.6 | | 8.0 | Operating |
| 2025-04-03 | 14:15:00 | 00:15:00.0 | 49.0 | 41.5 | 60.1 | 52.3 | 51.4 | 49.4 | 48.4 | 45.1 | Operating | | |
| 2025-04-03 | 14:30:00 | 00:15:00.0 | 49.0 | 42.2 | 57.0 | 52.1 | 51.2 | 49.4 | 48.5 | 45.4 | Operating | | |
| 2025-04-03 | 14:45:00 | 00:15:00.0 | 49.4 | 42.2 | 61.5 | 53.3 | 52.1 | 49.6 | 48.4 | 45.7 | Operating | | |
| 2025-04-03 | 15:00:00 | 00:15:00.0 | 49.9 | 43.1 | 59.9 | 53.5 | 52.5 | 50.1 | 49.0 | 46.5 | 8.0 | Operating | |
| 2025-04-03 | 15:15:00 | 00:15:00.0 | 49.8 | 42.1 | 60.5 | 53.1 | 52.2 | 50.2 | 49.3 | 45.9 | Operating | | |
| 2025-04-03 | 15:30:00 | 00:15:00.0 | 49.7 | 42.6 | 60.3 | 53.4 | 52.1 | 49.7 | 48.7 | 46.4 | Operating | | |
| 2025-04-03 | 15:45:00 | 00:15:00.0 | 49.5 | 41.8 | 61.0 | 52.8 | 51.8 | 49.8 | 48.9 | 46.2 | Operating | | |
| 2025-04-03 | 16:00:00 | 00:15:00.0 | 49.3 | 42.4 | 64.0 | 52.5 | 51.5 | 49.5 | 48.5 | 45.5 | 7.5 | Operating | |
| 2025-04-03 | 16:15:00 | 00:15:00.0 | 50.6 | 41.6 | 62.6 | 54.2 | 53.1 | 50.3 | 49.2 | 46.6 | Operating | | |
| | | | 49 | 41 | 62 | 53 | 51 | 49 | 48 | 45 | | | |
| | | | | | | | | | | | | | |
| 2025-04-03 | 16:30:00 | 00:15:00.0 | 49.4 | 43.0 | 64.9 | 52.4 | 51.6 | 49.5 | 48.6 | 46.1 | 6.5 | Off | |
| 2025-04-03 | 16:45:00 | 00:15:00.0 | 51.1 | 44.7 | 61.3 | 54.6 | 53.4 | 51.4 | 50.4 | 47.9 | | Off | |
| 2025-04-03 | 17:00:00 | 00:15:00.0 | 51.0 | 44.2 | 60.7 | 53.7 | 53.1 | 51.5 | 50.6 | 47.4 | | Off | |
| 2025-04-03 | 17:15:00 | 00:15:00.0 | 50.8 | 42.9 | 63.4 | 54.2 | 53.1 | 50.8 | 49.9 | 47.4 | | Off | |
| 2025-04-03 | 17:30:00 | 00:15:00.0 | 51.3 | 44.3 | 62.2 | 54.1 | 53.4 | 51.6 | 50.8 | 48.2 | | Off | |
| 2025-04-03 | 17:45:00 | 00:15:00.0 | 50.1 | 42.6 | 61.0 | 53.0 | 52.5 | 50.5 | 49.6 | 46.9 | | Off | |
| | | | 51 | 44 | 62 | 54 | 53 | 51 | 50 | 47 | | | |
| | | | | | | | | | | | | | |
| 2025-04-03 | 18:00:00 | 00:15:00.0 | 49.6 | 42.2 | 61.8 | 52.7 | 52.0 | 49.8 | 48.9 | 46.0 | 6.0 | Off | |
| 2025-04-03 | 18:15:00 | 00:15:00.0 | 49.5 | 41.8 | 59.4 | 53.1 | 52.1 | 49.8 | 48.6 | 46.0 | | Off | |
| 2025-04-03 | 18:30:00 | 00:15:00.0 | 49.5 | 43.0 | 60.0 | 52.4 | 51.4 | 49.6 | 48.8 | 46.4 | | Off | |
| 2025-04-03 | 18:45:00 | 00:05:42.9 | 49.4 | 42.2 | 63.7 | 53.7 | 52.3 | 49.2 | 48.1 | 46.0 | | Off | |
| | | | 49 | 42 | 62 | 53 | 52 | 49 | 48 | 46 | | | |

| N1 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAEq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-02 | 14:15:00 | 00:15:00.0 | 44.5 | 37.1 | 58.8 | 47.7 | 46.7 | 44.6 | 43.5 | 40.9 | 6.0 | operating |
| 2025-04-02 | 14:30:00 | 00:15:00.0 | 44.7 | 38.2 | 57.6 | 47.8 | 46.6 | 44.5 | 43.6 | 41.4 | 6.0 | operating |
| 2025-04-02 | 14:45:00 | 00:15:00.0 | 44.8 | 37.7 | 56.7 | 47.4 | 46.7 | 45.1 | 44.4 | 41.5 | 6.0 | operating |
| 2025-04-02 | 15:00:00 | 00:15:00.0 | 44.1 | 38.0 | 53.2 | 47.1 | 46.2 | 44.3 | 43.4 | 41.2 | 5.5 | operating |
| 2025-04-02 | 15:15:00 | 00:15:00.0 | 44.3 | 38.1 | 55.5 | 47.1 | 46.3 | 44.6 | 43.8 | 41.4 | 5.5 | operating |
| 2025-04-02 | 15:30:00 | 00:15:00.0 | 43.4 | 35.6 | 62.1 | 46.8 | 45.9 | 43.6 | 42.4 | 39.3 | 5.5 | operating |
| 2025-04-02 | 15:45:00 | 00:15:00.0 | 44.1 | 36.3 | 59.5 | 46.9 | 46.1 | 44.3 | 43.4 | 40.8 | 5.5 | operating |
| 2025-04-02 | 16:00:00 | 00:15:00.0 | 43.7 | 38.3 | 66.3 | 46.3 | 45.6 | 43.8 | 43.0 | 40.8 | 5.0 | operating |
| 2025-04-02 | 16:15:00 | 00:15:00.0 | 42.4 | 36.6 | 53.0 | 45.0 | 44.3 | 42.7 | 41.9 | 39.8 | 5.0 | operating |
| 2025-04-02 | 16:30:00 | 00:15:00.0 | 43.2 | 35.6 | 56.3 | 46.0 | 45.2 | 43.6 | 42.7 | 40.6 | 5.0 | Off |
| | | | 44 | 37 | 58 | 47 | 46 | 44 | 43 | 41 | | |
| 2025-04-02 | 16:45:00 | 00:15:00.0 | 40.4 | 33.4 | 60.6 | 43.2 | 42.4 | 40.7 | 39.7 | 37.2 | 4.5 | Off |
| 2025-04-02 | 17:00:00 | 00:15:00.0 | 41.1 | 34.5 | 56.5 | 44.2 | 43.4 | 41.4 | 40.4 | 38.1 | 4.5 | Off |
| 2025-04-02 | 17:15:00 | 00:15:00.0 | 43.2 | 35.9 | 59.3 | 45.9 | 44.9 | 43.0 | 42.1 | 39.2 | 4.5 | Off |
| 2025-04-02 | 17:30:00 | 00:15:00.0 | 43.2 | 38.4 | 53.4 | 45.6 | 44.8 | 43.4 | 42.7 | 40.8 | 4.5 | Off |
| 2025-04-02 | 17:45:00 | 00:15:00.0 | 42.8 | 36.8 | 52.1 | 45.5 | 44.8 | 43.2 | 42.4 | 39.6 | 4.5 | Off |
| | | | 42 | 36 | 56 | 45 | 44 | 42 | 41 | 39 | | Off |
| 2025-04-02 | 18:00:00 | 00:15:00.0 | 42.8 | 36.6 | 52.4 | 45.5 | 44.8 | 43.1 | 42.3 | 39.9 | 5.0 | Off |
| 2025-04-02 | 18:15:00 | 00:15:00.0 | 42.8 | 37.1 | 50.9 | 45.6 | 44.8 | 43.1 | 42.3 | 40.0 | 5.0 | Off |
| 2025-04-02 | 18:30:00 | 00:15:00.0 | 43.0 | 36.8 | 56.6 | 45.6 | 44.8 | 43.2 | 42.4 | 39.9 | 5.0 | Off |
| 2025-04-02 | 18:45:00 | 00:15:00.0 | 43.7 | 37.2 | 53.1 | 47.1 | 45.9 | 43.9 | 43.0 | 40.7 | 5.0 | Off |
| 2025-04-02 | 19:00:00 | 00:15:00.0 | 42.4 | 33.3 | 52.9 | 45.4 | 44.6 | 42.9 | 42.1 | 37.8 | 4.5 | Off |
| 2025-04-02 | 19:15:00 | 00:15:00.0 | 43.3 | 35.3 | 58.2 | 46.3 | 45.4 | 43.6 | 42.7 | 39.9 | 4.5 | Off |
| 2025-04-02 | 19:30:00 | 00:15:00.0 | 50.6 | 35.8 | 78.6 | 52.5 | 47.6 | 44.8 | 43.9 | 41.0 | 4.5 | Off |
| 2025-04-02 | 19:45:00 | 00:15:00.0 | 44.7 | 36.9 | 57.0 | 47.5 | 46.7 | 45.0 | 44.1 | 41.4 | 4.5 | Off |
| 2025-04-02 | 20:00:00 | 00:15:00.0 | 49.8 | 38.0 | 70.8 | 52.1 | 48.6 | 46.1 | 45.1 | 42.4 | 4.0 | Off |
| 2025-04-02 | 20:15:00 | 00:15:00.0 | 45.5 | 38.7 | 59.7 | 48.2 | 47.2 | 45.3 | 44.5 | 42.2 | 4.0 | Off |
| 2025-04-02 | 20:30:00 | 00:15:00.0 | 47.8 | 37.2 | 67.0 | 49.3 | 47.9 | 45.8 | 44.9 | 41.5 | 4.0 | Off |
| 2025-04-02 | 20:45:00 | 00:15:00.0 | 45.2 | 38.2 | 54.3 | 47.9 | 47.3 | 45.7 | 44.7 | 42.0 | 4.0 | Off |
| 2025-04-02 | 21:00:00 | 00:15:00.0 | 44.3 | 35.8 | 52.1 | 47.3 | 46.6 | 44.7 | 43.7 | 40.8 | 3.5 | Off |
| 2025-04-02 | 21:15:00 | 00:15:00.0 | 44.9 | 32.6 | 53.3 | 48.5 | 47.6 | 45.4 | 44.3 | 40.3 | 3.5 | Off |
| 2025-04-02 | 21:30:00 | 00:15:00.0 | 44.7 | 35.0 | 56.6 | 48.5 | 47.5 | 45.0 | 43.8 | 39.8 | 3.5 | Off |
| 2025-04-02 | 21:45:00 | 00:15:00.0 | 44.2 | 35.4 | 52.4 | 47.8 | 46.9 | 44.7 | 43.3 | 39.6 | 3.5 | Off |
| 2025-04-02 | 22:00:00 | 00:15:00.0 | 46.0 | 36.7 | 53.5 | 49.4 | 48.6 | 46.6 | 45.3 | 41.3 | 3.5 | Off |
| 2025-04-02 | 22:15:00 | 00:15:00.0 | 43.0 | 33.4 | 50.6 | 46.3 | 45.6 | 43.7 | 42.4 | 37.9 | 3.5 | Off |
| 2025-04-02 | 22:30:00 | 00:15:00.0 | 41.8 | 32.6 | 51.4 | 45.4 | 44.4 | 42.0 | 40.9 | 37.2 | 3.5 | Off |
| 2025-04-02 | 22:45:00 | 00:15:00.0 | 43.3 | 30.2 | 51.7 | 46.9 | 46.1 | 43.7 | 42.5 | 39.2 | 3.5 | Off |
| 2025-04-02 | 23:00:00 | 00:15:00.0 | 41.8 | 28.3 | 52.6 | 46.1 | 44.9 | 42.2 | 40.7 | 33.7 | 3.5 | Off |
| 2025-04-02 | 23:15:00 | 00:15:00.0 | 42.8 | 28.4 | 54.5 | 47.5 | 46.5 | 43.2 | 40.9 | 34.5 | 3.5 | Off |
| 2025-04-02 | 23:30:00 | 00:15:00.0 | 42.3 | 34.2 | 52.6 | 46.9 | 45.6 | 42.1 | 40.6 | 37.4 | 3.5 | Off |
| 2025-04-02 | 23:45:00 | 00:15:00.0 | 41.2 | 32.8 | 50.7 | 45.1 | 44.0 | 41.5 | 40.3 | 36.3 | 3.5 | Off |
| 2025-04-03 | 00:00:00 | 00:15:00.0 | 41.0 | 25.9 | 49.4 | 44.9 | 43.8 | 41.6 | 40.3 | 35.1 | 3.5 | Off |
| 2025-04-03 | 00:15:00 | 00:15:00.0 | 38.9 | 27.4 | 49.1 | 43.1 | 41.9 | 39.0 | 37.6 | 33.7 | 3.5 | Off |
| 2025-04-03 | 00:30:00 | 00:15:00.0 | 37.9 | 21.6 | 48.4 | 42.7 | 41.5 | 38.2 | 36.0 | 27.9 | 3.5 | Off |

| N2 | | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|--------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status | |
| 2025-04-03 | 00:45:00 | 00:15:00.0 | 36.6 | 22.7 | 49.2 | 41.7 | 40.2 | 36.5 | 34.3 | 29.3 | | Off | |
| 2025-04-03 | 01:00:00 | 00:15:00.0 | 39.9 | 26.5 | 52.6 | 45.7 | 43.6 | 38.6 | 36.4 | 31.9 | | Off | |
| 2025-04-03 | 01:15:00 | 00:15:00.0 | 36.5 | 19 | 52.0 | 42.5 | 40.7 | 35.6 | 32.7 | 23.2 | | Off | |
| 2025-04-03 | 01:30:00 | 00:15:00.0 | 40.0 | 20.5 | 53.0 | 45.9 | 44.1 | 39.3 | 36.6 | 28.6 | | Off | |
| 2025-04-03 | 01:45:00 | 00:15:00.0 | 35.1 | 21.5 | 48.3 | 40.7 | 38.7 | 34.1 | 32.0 | 26.9 | | Off | |
| 2025-04-03 | 02:00:00 | 00:15:00.0 | 35.9 | 24.3 | 51.3 | 41.3 | 39.2 | 34.6 | 32.9 | 28.3 | | Off | |
| 2025-04-03 | 02:15:00 | 00:15:00.0 | 34.8 | 19.2 | 51.5 | 40.7 | 38.4 | 32.9 | 31.3 | 26.8 | | Off | |
| 2025-04-03 | 02:30:00 | 00:15:00.0 | 33.3 | 20.1 | 49.0 | 39.7 | 36.5 | 30.4 | 27.7 | 23 | | Off | |
| 2025-04-03 | 02:45:00 | 00:15:00.0 | 38.4 | 26.1 | 54.3 | 44.5 | 41.5 | 36.1 | 34.4 | 30.3 | | Off | |
| 2025-04-03 | 03:00:00 | 00:15:00.0 | 37.3 | 21.3 | 53.2 | 44.0 | 41.4 | 33.3 | 31.6 | 27.3 | | Off | |
| 2025-04-03 | 03:15:00 | 00:15:00.0 | 37.3 | 22.7 | 53.7 | 43.3 | 40.9 | 34.2 | 32.4 | 26.5 | | Off | |
| 2025-04-03 | 03:30:00 | 00:15:00.0 | 32.4 | 22.1 | 51.3 | 37.6 | 34.6 | 29.8 | 28.2 | 24.4 | | Off | |
| 2025-04-03 | 03:45:00 | 00:15:00.0 | 33.6 | 21.2 | 53.7 | 39.8 | 37.2 | 31.3 | 29.5 | 24.9 | | Off | |
| 2025-04-03 | 04:00:00 | 00:15:00.0 | 33.6 | 25.1 | 49.4 | 38.6 | 36.0 | 31.9 | 30.8 | 28.2 | | Off | |
| 2025-04-03 | 04:15:00 | 00:15:00.0 | 34.5 | 24.8 | 48.1 | 40.5 | 38.4 | 32.7 | 30.6 | 26.7 | | Off | |
| 2025-04-03 | 04:30:00 | 00:15:00.0 | 34.1 | 24 | 48.1 | 39.0 | 37.1 | 33.4 | 31.6 | 26.7 | | Off | |
| 2025-04-03 | 04:45:00 | 00:15:00.0 | 34.7 | 24.3 | 48.1 | 40.3 | 38.3 | 33.7 | 31.5 | 27.7 | | Off | |
| 2025-04-03 | 05:00:00 | 00:15:00.0 | 37.7 | 26.5 | 50.0 | 42.9 | 41.4 | 37.1 | 35.0 | 30.6 | | Off | |
| 2025-04-03 | 05:15:00 | 00:15:00.0 | 40.1 | 30.9 | 55.5 | 45.6 | 43.7 | 38.6 | 36.7 | 33.7 | | Off | |
| 2025-04-03 | 05:30:00 | 00:15:00.0 | 42.6 | 31.5 | 55.0 | 47.1 | 45.7 | 42.7 | 41.0 | 36.4 | | Off | |
| 2025-04-03 | 05:45:00 | 00:15:00.0 | 44.2 | 35.8 | 54.5 | 48.5 | 47.3 | 44.3 | 42.9 | 39.3 | | Off | |
| 2025-04-03 | 06:00:00 | 00:15:00.0 | 45.3 | 37.7 | 58.5 | 48.6 | 47.7 | 45.4 | 44.5 | 41.8 | 3.5 | Off | |
| 2025-04-03 | 06:15:00 | 00:15:00.0 | 49.4 | 38.7 | 67.2 | 53.3 | 51.2 | 47.4 | 46.1 | 42.8 | | Off | |
| 2025-04-03 | 06:30:00 | 00:15:00.0 | 54.6 | 41.7 | 76.5 | 62.7 | 54.4 | 48.4 | 47.6 | 45.2 | | Off | |
| 2025-04-03 | 06:45:00 | 00:15:00.0 | 49.6 | 41.4 | 71.1 | 51.5 | 50.4 | 48.6 | 47.6 | 44.7 | | Off | |
| 2025-04-03 | 07:00:00 | 00:15:00.0 | 47.8 | 39.9 | 62.5 | 51.7 | 50.3 | 47.7 | 46.5 | 43.5 | 5.0 | Off | |
| 2025-04-03 | 07:15:00 | 00:15:00.0 | 46.6 | 40.6 | 55.8 | 49.3 | 48.7 | 47.0 | 46.2 | 43.7 | | Off | |
| 2025-04-03 | 07:30:00 | 00:15:00.0 | 46.8 | 40.6 | 68.1 | 49.4 | 48.4 | 46.5 | 45.6 | 43.1 | | Operating | |
| 2025-04-03 | 07:45:00 | 00:15:00.0 | 50.8 | 40.2 | 66.6 | 58.5 | 51.1 | 47.1 | 46.0 | 42.9 | | Operating | |
| 2025-04-03 | 08:00:00 | 00:15:00.0 | 51.4 | 38.8 | 77.8 | 55.9 | 49.0 | 45.9 | 44.9 | 41.9 | 5.5 | Operating | |
| 2025-04-03 | 08:15:00 | 00:15:00.0 | 44.2 | 36.3 | 62.0 | 47.2 | 46.1 | 43.7 | 42.6 | 39.4 | | Operating | |
| 2025-04-03 | 08:30:00 | 00:15:00.0 | 42.4 | 36.7 | 56.3 | 45.5 | 44.3 | 42.5 | 41.6 | 39.2 | | Operating | |
| 2025-04-03 | 08:45:00 | 00:15:00.0 | 47.3 | 37.8 | 69.8 | 49.1 | 46.2 | 43.4 | 42.4 | 40.1 | | Operating | |
| 2025-04-03 | 09:00:00 | 00:15:00.0 | 46.4 | 36.2 | 68.1 | 46.4 | 44.9 | 42.5 | 41.5 | 38.8 | 5.5 | Operating | |
| 2025-04-03 | 09:15:00 | 00:15:00.0 | 42.0 | 34.1 | 62.4 | 44.3 | 43.3 | 41.1 | 40.1 | 37.9 | | Operating | |
| 2025-04-03 | 09:30:00 | 00:15:00.0 | 49.4 | 33.0 | 77.9 | 43.4 | 42.4 | 40.5 | 39.4 | 35.8 | | Operating | |
| 2025-04-03 | 09:45:00 | 00:15:00.0 | 44.3 | 34.4 | 71.4 | 44.2 | 43.4 | 41.5 | 40.5 | 38.1 | | Operating | |
| 2025-04-03 | 10:00:00 | 00:15:00.0 | 41.6 | 34.6 | 62.3 | 44.6 | 43.5 | 41.5 | 40.5 | 37.5 | 5.5 | Operating | |
| 2025-04-03 | 10:15:00 | 00:15:00.0 | 41.3 | 33.5 | 53.2 | 44.6 | 43.6 | 41.6 | 40.6 | 37.7 | | Operating | |
| 2025-04-03 | 10:30:00 | 00:15:00.0 | 44.4 | 33.9 | 66.2 | 45.5 | 44.3 | 41.7 | 40.5 | 37.5 | | Operating | |
| 2025-04-03 | 10:45:00 | 00:15:00.0 | 40.9 | 33.0 | 50.6 | 44.0 | 43.2 | 41.4 | 40.4 | 37.5 | | Operating | |
| 2025-04-03 | 11:00:00 | 00:15:00.0 | 40.1 | 32.3 | 49.4 | 43.3 | 42.4 | 40.5 | 39.5 | 36.0 | 6.5 | Operating | |
| 2025-04-03 | 11:15:00 | 00:15:00.0 | 41.3 | 32.5 | 59.9 | 45.6 | 43.3 | 40.2 | 39.1 | 36.1 | | Operating | |
| 2025-04-03 | 11:30:00 | 00:15:00.0 | 40.0 | 31.8 | 60.3 | 43.4 | 42.2 | 39.9 | 38.8 | 35.9 | | Operating | |

RECEIVED: 27/05/2025

| N2 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-----------|-----------|
| Date | Time | Duration | LAEq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-03 | 11:45:00 | 00:15:00.0 | 41.1 | 30.8 | 60.9 | 44.2 | 43.3 | 40.9 | 39.9 | 36.1 | 7.5 | Operating |
| 2025-04-03 | 12:00:00 | 00:15:00.0 | 40.7 | 31.5 | 54.4 | 43.8 | 42.8 | 41.0 | 40.1 | 36.4 | | Operating |
| 2025-04-03 | 12:15:00 | 00:15:00.0 | 41.5 | 34.9 | 52.6 | 45.1 | 44.2 | 41.8 | 40.5 | 37.4 | | Operating |
| 2025-04-03 | 12:30:00 | 00:15:00.0 | 41.1 | 35.8 | 57.5 | 43.6 | 42.9 | 41.4 | 40.7 | 38.5 | | Operating |
| 2025-04-03 | 12:45:00 | 00:15:00.0 | 42.2 | 36.7 | 52.5 | 45.1 | 44.2 | 42.5 | 41.6 | 39.4 | | Operating |
| 2025-04-03 | 13:00:00 | 00:15:00.0 | 42.6 | 37.6 | 51.0 | 44.9 | 44.3 | 42.9 | 42.2 | 40.4 | | Operating |
| 2025-04-03 | 13:15:00 | 00:15:00.0 | 42.1 | 36.1 | 52.1 | 45.0 | 44.4 | 42.5 | 41.4 | 38.8 | | Operating |
| 2025-04-03 | 13:30:00 | 00:15:00.0 | 42.8 | 36.2 | 53.4 | 45.7 | 44.9 | 43.1 | 42.3 | 39.8 | | Operating |
| 2025-04-03 | 13:45:00 | 00:15:00.0 | 42.9 | 35.6 | 56.3 | 45.7 | 44.8 | 43.2 | 42.4 | 40.1 | | Operating |
| 2025-04-03 | 14:00:00 | 00:15:00.0 | 42.4 | 36.5 | 50.3 | 45.0 | 44.4 | 42.9 | 42.1 | 39.6 | | 8.0 |
| 2025-04-03 | 14:15:00 | 00:15:00.0 | 43.7 | 38.0 | 61.5 | 46.1 | 45.4 | 43.8 | 43.1 | 41.0 | Operating | |
| 2025-04-03 | 14:30:00 | 00:15:00.0 | 43.3 | 37.9 | 53.5 | 45.9 | 45.1 | 43.6 | 42.9 | 40.8 | Operating | |
| 2025-04-03 | 14:45:00 | 00:15:00.0 | 43.7 | 36.7 | 52.5 | 46.5 | 45.5 | 43.8 | 43.1 | 41.3 | Operating | |
| 2025-04-03 | 15:00:00 | 00:15:00.0 | 45.3 | 38.7 | 61.6 | 48.4 | 46.8 | 44.7 | 43.8 | 41.4 | 8.0 | Operating |
| 2025-04-03 | 15:15:00 | 00:15:00.0 | 44.6 | 37.7 | 58.0 | 47.7 | 46.9 | 44.8 | 43.9 | 41.4 | Operating | |
| 2025-04-03 | 15:30:00 | 00:15:00.0 | 45.6 | 37.2 | 64.5 | 48.5 | 46.8 | 44.2 | 43.4 | 40.6 | Operating | |
| 2025-04-03 | 15:45:00 | 00:15:00.0 | 45.5 | 37.9 | 62.7 | 48.4 | 47.2 | 45.1 | 44.3 | 41.6 | Operating | |
| 2025-04-03 | 16:00:00 | 00:15:00.0 | 48.3 | 37.2 | 64.8 | 55.0 | 50.9 | 45.0 | 43.7 | 40.7 | 7.5 | Operating |
| 2025-04-03 | 16:15:00 | 00:15:00.0 | 48.8 | 40.6 | 66.8 | 54.4 | 50.2 | 46.0 | 45.2 | 43.2 | Operating | |
| | | | 44 | 36 | 60 | 47 | 45 | 43 | 42 | 39 | | |
| 2025-04-03 | 16:30:00 | 00:15:00.0 | 45.4 | 40.1 | 56.0 | 47.8 | 47.2 | 45.6 | 44.9 | 42.8 | 6.5 | Off |
| 2025-04-03 | 16:45:00 | 00:15:00.0 | 45.0 | 39.8 | 54.6 | 47.4 | 46.8 | 45.4 | 44.7 | 42.6 | | Off |
| 2025-04-03 | 17:00:00 | 00:15:00.0 | 46.9 | 40.6 | 69.9 | 48.9 | 48.1 | 46.3 | 45.5 | 43.3 | | Off |
| 2025-04-03 | 17:15:00 | 00:15:00.0 | 46.2 | 39.5 | 73.5 | 48.6 | 47.6 | 45.8 | 45.1 | 43.0 | | Off |
| 2025-04-03 | 17:30:00 | 00:15:00.0 | 44.3 | 38.1 | 51.1 | 46.5 | 46.0 | 44.8 | 44.1 | 41.8 | | Off |
| 2025-04-03 | 17:45:00 | 00:15:00.0 | 44.9 | 39.2 | 54.8 | 47.7 | 46.8 | 45.1 | 44.3 | 42.2 | | Off |
| | | | 45 | 40 | 60 | 48 | 47 | 46 | 45 | 43 | | |
| 2025-04-03 | 18:00:00 | 00:15:00.0 | 44.4 | 38.3 | 52.0 | 46.9 | 46.2 | 44.8 | 44.1 | 42.0 | 6.0 | Off |
| 2025-04-03 | 18:15:00 | 00:15:00.0 | 44.2 | 37.1 | 53.3 | 46.6 | 45.9 | 44.5 | 43.9 | 41.8 | Off | |
| 2025-04-03 | 18:30:00 | 00:04:33.3 | 44.5 | 38.8 | 58.8 | 47.1 | 45.6 | 44.2 | 43.4 | 41.3 | Off | |

RECEIVED: 2/10/2025

| N3 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAEq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-02 | 13:35:24 | 00:09:35.7 | 49.7 | 31.0 | 82.4 | 48.3 | 46.7 | 42.0 | 38.9 | 33.9 | | Operating |
| 2025-04-02 | 13:45:00 | 00:15:00.0 | 41.2 | 31.5 | 58.5 | 45.7 | 43.9 | 40.2 | 38.5 | 34.6 | | Operating |
| 2025-04-02 | 14:00:00 | 00:15:00.0 | 39.8 | 30.6 | 53.5 | 44.5 | 42.3 | 39.0 | 37.3 | 33.6 | 6.0 | Operating |
| 2025-04-02 | 14:15:00 | 00:15:00.0 | 43.1 | 31.5 | 59.2 | 47.7 | 46.3 | 42.8 | 41.1 | 35.9 | | Operating |
| 2025-04-02 | 14:30:00 | 00:15:00.0 | 45.7 | 31.1 | 62.5 | 52.4 | 48.6 | 41.8 | 39.8 | 34.9 | | Operating |
| 2025-04-02 | 14:45:00 | 00:15:00.0 | 53.1 | 29.7 | 70.6 | 60.5 | 57.3 | 45.7 | 41.7 | 34.6 | | Operating |
| 2025-04-02 | 15:00:00 | 00:15:00.0 | 47.9 | 29.3 | 67.1 | 54.8 | 52.0 | 42.4 | 39.2 | 32.8 | 5.5 | Operating |
| 2025-04-02 | 15:15:00 | 00:15:00.0 | 41.0 | 30.8 | 59.3 | 46.6 | 43.5 | 38.1 | 36.1 | 32.9 | | Operating |
| 2025-04-02 | 15:30:00 | 00:15:00.0 | 52.0 | 29.5 | 69.3 | 59.6 | 56.3 | 42.1 | 38.3 | 33.5 | | Operating |
| 2025-04-02 | 15:45:00 | 00:15:00.0 | 48.6 | 28.6 | 68.3 | 55.6 | 49.3 | 38.4 | 35.5 | 31.9 | | Operating |
| 2025-04-02 | 16:00:00 | 00:15:00.0 | 42.2 | 28.7 | 62.0 | 48.2 | 43.4 | 37.8 | 35.8 | 31.4 | 5.0 | Operating |
| 2025-04-02 | 16:15:00 | 00:15:00.0 | 43.7 | 28.0 | 61.9 | 51.0 | 47.9 | 37.2 | 34.0 | 30.2 | | Operating |
| 2025-04-02 | 16:30:00 | 00:15:00.0 | 45.9 | 27.3 | 62.5 | 53.4 | 50.6 | 38.2 | 34.6 | 30.2 | | Operating |
| | | | 46 | 30 | 64 | 51 | 48 | 40 | 38 | 33 | | |
| 2025-04-02 | 16:45:00 | 00:15:00.0 | 46.7 | 26.6 | 68.9 | 48.9 | 40.0 | 33.4 | 31.4 | 28.8 | | Off |
| 2025-04-02 | 17:00:00 | 00:15:00.0 | 49.4 | 26.6 | 67.2 | 57.3 | 52.0 | 34.4 | 32.6 | 29.8 | 4.5 | Off |
| 2025-04-02 | 17:15:00 | 00:15:00.0 | 50.8 | 27.9 | 69.8 | 58.5 | 54.6 | 38.8 | 35.1 | 31.1 | | Off |
| 2025-04-02 | 17:30:00 | 00:15:00.0 | 48.5 | 28.5 | 69.7 | 55.9 | 50.8 | 36.8 | 34.5 | 31.7 | | Off |
| 2025-04-02 | 17:45:00 | 00:15:00.0 | 51.9 | 27.8 | 68.4 | 59.7 | 56.6 | 41.3 | 35.6 | 30.6 | | Off |
| | | | 49 | 28 | 69 | 56 | 51 | 37 | 34 | 30 | | |
| 2025-04-02 | 18:00:00 | 00:15:00.0 | 45.8 | 27.2 | 70.0 | 52.2 | 44.8 | 32.8 | 31.6 | 29.5 | 5.0 | Off |
| 2025-04-02 | 18:15:00 | 00:15:00.0 | 39.9 | 28.1 | 62.7 | 41.8 | 38.2 | 34.8 | 33.6 | 31.0 | | Off |
| 2025-04-02 | 18:30:00 | 00:15:00.0 | 46.2 | 27.8 | 64.1 | 53.8 | 48.4 | 35.7 | 33.5 | 30.7 | | Off |
| 2025-04-02 | 18:45:00 | 00:15:00.0 | 48.5 | 31.3 | 67.7 | 55.5 | 51.7 | 40.2 | 37.2 | 33.8 | | Off |
| 2025-04-02 | 19:00:00 | 00:15:00.0 | 48.4 | 29.9 | 64.7 | 56.2 | 53.0 | 41.0 | 37.4 | 33.4 | 4.5 | Off |
| 2025-04-02 | 19:15:00 | 00:15:00.0 | 46.8 | 29.3 | 65.4 | 54.1 | 49.0 | 38.1 | 35.5 | 32.4 | | Off |
| 2025-04-02 | 19:30:00 | 00:15:00.0 | 46.2 | 29.6 | 64.9 | 53.6 | 49.2 | 38.2 | 36.0 | 32.9 | | Off |
| 2025-04-02 | 19:45:00 | 00:15:00.0 | 45.4 | 30.6 | 66.7 | 52.3 | 47.9 | 36.2 | 34.9 | 32.8 | | Off |
| 2025-04-02 | 20:00:00 | 00:15:00.0 | 48.8 | 29.8 | 69.5 | 54.1 | 47.1 | 35.6 | 34.5 | 32.1 | 4.0 | Off |
| 2025-04-02 | 20:15:00 | 00:15:00.0 | 47.9 | 30.7 | 69.8 | 55.1 | 49.2 | 38.0 | 36.2 | 33.4 | | Off |
| 2025-04-02 | 20:30:00 | 00:15:00.0 | 39.9 | 28.7 | 57.6 | 45.7 | 42.4 | 36.3 | 34.8 | 31.9 | | Off |
| 2025-04-02 | 20:45:00 | 00:15:00.0 | 41.2 | 28.7 | 61.3 | 47.0 | 43.2 | 37.7 | 35.6 | 31.9 | | Off |
| 2025-04-02 | 21:00:00 | 00:15:00.0 | 33.4 | 27.8 | 49.1 | 37.4 | 35.4 | 32.7 | 31.6 | 29.7 | 3.5 | Off |
| 2025-04-02 | 21:15:00 | 00:15:00.0 | 33.3 | 29.3 | 44.8 | 35.3 | 34.7 | 33.6 | 33.0 | 31.5 | | Off |
| 2025-04-02 | 21:30:00 | 00:15:00.0 | 34.1 | 29.3 | 40.6 | 36.3 | 35.7 | 34.5 | 34.0 | 31.9 | | Off |
| 2025-04-02 | 21:45:00 | 00:15:00.0 | 34.3 | 27.9 | 45.0 | 36.6 | 36.0 | 34.6 | 33.9 | 31.9 | | Off |
| 2025-04-02 | 22:00:00 | 00:15:00.0 | 34.9 | 29.8 | 53.3 | 36.6 | 36.0 | 34.7 | 34.2 | 32.7 | | Off |
| 2025-04-02 | 22:15:00 | 00:15:00.0 | 34.8 | 27.3 | 42.4 | 37.5 | 36.9 | 35.4 | 34.5 | 31.4 | | Off |
| 2025-04-02 | 22:30:00 | 00:15:00.0 | 32.8 | 27.1 | 41.3 | 35.8 | 35.0 | 33.1 | 32.2 | 29.9 | | Off |
| 2025-04-02 | 22:45:00 | 00:15:00.0 | 33.7 | 26.3 | 43.3 | 36.6 | 35.9 | 34.2 | 33.2 | 30.3 | | Off |
| 2025-04-02 | 23:00:00 | 00:15:00.0 | 32.5 | 24.0 | 43.5 | 35.5 | 34.7 | 33.0 | 32.1 | 27.7 | | Off |
| 2025-04-02 | 23:15:00 | 00:15:00.0 | 33.0 | 25.1 | 42.3 | 35.7 | 35.1 | 33.4 | 32.6 | 30.0 | | Off |
| 2025-04-02 | 23:30:00 | 00:15:00.0 | 34.7 | 29.0 | 48.3 | 37.9 | 36.4 | 34.5 | 33.8 | 31.7 | | Off |
| 2025-04-02 | 23:45:00 | 00:15:00.0 | 32.6 | 26.5 | 42.2 | 35.5 | 34.8 | 32.9 | 32.0 | 29.6 | | Off |
| 2025-04-03 | 00:00:00 | 00:15:00.0 | 30.7 | 23.8 | 46.9 | 33.3 | 32.5 | 30.7 | 29.9 | 27.2 | | Off |
| 2025-04-03 | 00:15:00 | 00:15:00.0 | 32.6 | 25.8 | 55.2 | 34.9 | 33.8 | 31.8 | 30.9 | 28.7 | | Off |
| 2025-04-03 | 00:30:00 | 00:15:00.0 | 31.7 | 20.3 | 50.8 | 34.8 | 34.0 | 32.1 | 30.9 | 23.9 | | Off |

| N3 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-03 | 00:45:00 | 00:15:00.0 | 29.0 | 21.8 | 42.0 | 32.5 | 31.6 | 29.3 | 28.1 | 24.6 | | Off |
| 2025-04-03 | 01:00:00 | 00:15:00.0 | 30.1 | 22.8 | 45.6 | 34.8 | 32.9 | 29.8 | 28.5 | 25.7 | | Off |
| 2025-04-03 | 01:15:00 | 00:15:00.0 | 26.8 | 18.5 | 37.4 | 30.2 | 29.4 | 27.3 | 26.0 | 21.8 | | Off |
| 2025-04-03 | 01:30:00 | 00:15:00.0 | 28.5 | 22.0 | 38.2 | 31.3 | 30.6 | 29.0 | 28.1 | 24.9 | | Off |
| 2025-04-03 | 01:45:00 | 00:15:00.0 | 27.7 | 21.4 | 35.7 | 31.6 | 30.6 | 27.7 | 26.6 | 24.1 | | Off |
| 2025-04-03 | 02:00:00 | 00:15:00.0 | 29.3 | 21.0 | 38.1 | 33.1 | 32.0 | 29.9 | 28.5 | 23.7 | | Off |
| 2025-04-03 | 02:15:00 | 00:15:00.0 | 28.2 | 21.0 | 37.6 | 31.5 | 30.5 | 28.5 | 27.5 | 24.8 | | Off |
| 2025-04-03 | 02:30:00 | 00:15:00.0 | 26.7 | 18.6 | 35.9 | 30.6 | 29.6 | 27.1 | 25.9 | 21.5 | | Off |
| 2025-04-03 | 02:45:00 | 00:15:00.0 | 30.8 | 24.2 | 43.7 | 33.5 | 32.7 | 31.1 | 30.3 | 27.9 | | Off |
| 2025-04-03 | 03:00:00 | 00:15:00.0 | 29.9 | 22.2 | 44.0 | 33.6 | 32.6 | 30.3 | 29.0 | 25.6 | | Off |
| 2025-04-03 | 03:15:00 | 00:15:00.0 | 31.5 | 20.2 | 44.4 | 36.4 | 35.2 | 31.6 | 29.6 | 24.4 | | Off |
| 2025-04-03 | 03:30:00 | 00:15:00.0 | 28.8 | 21.2 | 41.7 | 32.7 | 31.5 | 29.1 | 27.8 | 24.0 | | Off |
| 2025-04-03 | 03:45:00 | 00:15:00.0 | 32.1 | 22.2 | 41.7 | 37.5 | 36.2 | 31.5 | 29.9 | 25.5 | | Off |
| 2025-04-03 | 04:00:00 | 00:15:00.0 | 31.3 | 23.9 | 46.2 | 34.7 | 33.8 | 31.7 | 30.4 | 27.5 | | Off |
| 2025-04-03 | 04:15:00 | 00:15:00.0 | 32.4 | 23.8 | 42.9 | 36.4 | 35.5 | 32.6 | 31.4 | 27.9 | | Off |
| 2025-04-03 | 04:30:00 | 00:15:00.0 | 33.0 | 22.8 | 45.1 | 36.9 | 35.7 | 33.4 | 32.1 | 27.6 | | Off |
| 2025-04-03 | 04:45:00 | 00:15:00.0 | 31.8 | 22.7 | 43.5 | 34.9 | 34.2 | 32.5 | 31.4 | 27.2 | | Off |
| 2025-04-03 | 05:00:00 | 00:15:00.0 | 34.5 | 26.1 | 43.1 | 37.2 | 36.7 | 35.2 | 34.4 | 30.3 | | Off |
| 2025-04-03 | 05:15:00 | 00:15:00.0 | 35.9 | 29.5 | 42.9 | 38.1 | 37.5 | 36.4 | 35.7 | 33.0 | | Off |
| 2025-04-03 | 05:30:00 | 00:15:00.0 | 37.6 | 33.2 | 43.3 | 39.6 | 39.1 | 38.0 | 37.5 | 35.6 | | Off |
| 2025-04-03 | 05:45:00 | 00:15:00.0 | 38.8 | 34.1 | 45.2 | 40.7 | 40.2 | 39.1 | 38.6 | 37.2 | | Off |
| 2025-04-03 | 06:00:00 | 00:15:00.0 | 41.9 | 35.4 | 55.5 | 46.3 | 45.0 | 41.5 | 40.0 | 37.7 | 3.5 | Off |
| 2025-04-03 | 06:15:00 | 00:15:00.0 | 48.1 | 38.1 | 64.1 | 53.3 | 52.1 | 46.8 | 44.9 | 41.8 | 3.5 | Off |
| 2025-04-03 | 06:30:00 | 00:15:00.0 | 48.1 | 38.3 | 77.5 | 50.7 | 48.8 | 44.1 | 42.9 | 41.2 | 3.5 | Off |
| 2025-04-03 | 06:45:00 | 00:15:00.0 | 45.0 | 39.8 | 61.0 | 48.6 | 46.4 | 44.2 | 43.6 | 41.9 | 3.5 | Off |
| 2025-04-03 | 07:00:00 | 00:15:00.0 | 44.6 | 41.1 | 59.7 | 47.2 | 45.4 | 44.0 | 43.6 | 42.6 | 5.0 | Off |
| 2025-04-03 | 07:15:00 | 00:15:00.0 | 45.7 | 40.7 | 62.5 | 49.4 | 46.2 | 43.8 | 43.3 | 42.2 | 5.0 | Off |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 2025-04-03 | 07:30:00 | 00:15:00.0 | 43.2 | 39.5 | 53.8 | 44.9 | 44.4 | 43.3 | 42.8 | 41.7 | | Operating |
| 2025-04-03 | 07:45:00 | 00:15:00.0 | 45.3 | 40.8 | 60.8 | 49.3 | 46.9 | 44.0 | 43.5 | 42.2 | | Operating |
| 2025-04-03 | 08:00:00 | 00:15:00.0 | 45.2 | 40.0 | 60.7 | 49.2 | 47.1 | 44.0 | 43.3 | 42.0 | 5.5 | Operating |
| 2025-04-03 | 08:15:00 | 00:15:00.0 | 43.9 | 39.0 | 55.4 | 48.1 | 46.3 | 43.3 | 42.5 | 41.1 | 5.5 | Operating |
| 2025-04-03 | 08:30:00 | 00:15:00.0 | 43.9 | 38.5 | 62.5 | 46.9 | 44.6 | 42.5 | 41.9 | 40.4 | 5.5 | Operating |
| 2025-04-03 | 08:45:00 | 00:15:00.0 | 42.8 | 37.7 | 56.4 | 46.4 | 44.9 | 42.2 | 41.4 | 39.8 | 5.5 | Operating |
| 2025-04-03 | 09:00:00 | 00:15:00.0 | 42.0 | 35.1 | 64.5 | 46.1 | 43.9 | 40.6 | 39.5 | 37.2 | 5.5 | Operating |
| 2025-04-03 | 09:15:00 | 00:15:00.0 | 39.8 | 32.0 | 58.6 | 45.2 | 41.8 | 38.3 | 37.1 | 34.7 | 5.5 | Operating |
| 2025-04-03 | 09:30:00 | 00:15:00.0 | 38.8 | 31.5 | 56.6 | 42.9 | 40.8 | 37.5 | 36.3 | 33.9 | 5.5 | Operating |
| 2025-04-03 | 09:45:00 | 00:15:00.0 | 38.7 | 29.7 | 56.0 | 43.0 | 41.1 | 37.4 | 36.2 | 33.8 | 5.5 | Operating |
| 2025-04-03 | 10:00:00 | 00:15:00.0 | 41.8 | 30.6 | 61.6 | 46.8 | 44.5 | 39.2 | 37.1 | 33.3 | 5.5 | Operating |
| 2025-04-03 | 10:15:00 | 00:15:00.0 | 43.8 | 30.2 | 61.5 | 48.3 | 46.4 | 42.2 | 39.8 | 35.1 | 5.5 | Operating |
| 2025-04-03 | 10:30:00 | 00:15:00.0 | 40.7 | 29.5 | 59.4 | 45.2 | 43.4 | 40.1 | 38.6 | 34.3 | 5.5 | Operating |
| 2025-04-03 | 10:45:00 | 00:15:00.0 | 41.3 | 35.1 | 59.6 | 44.6 | 43.2 | 41.1 | 40.3 | 38.0 | 5.5 | Operating |
| 2025-04-03 | 11:00:00 | 00:15:00.0 | 45.9 | 31.7 | 67.5 | 49.6 | 46.2 | 41.4 | 39.6 | 35.4 | 6.5 | Operating |
| 2025-04-03 | 11:15:00 | 00:15:00.0 | 41.4 | 29.1 | 61.8 | 47.1 | 43.2 | 38.3 | 36.3 | 31.8 | | Operating |
| 2025-04-03 | 11:30:00 | 00:15:00.0 | 46.3 | 29.7 | 61.7 | 53.9 | 49.1 | 41.0 | 38.0 | 32.9 | | Operating |

RECEIVED: 27/08/2025

| N3 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAEq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-03 | 11:45:00 | 00:15:00.0 | 42.8 | 31.5 | 60.2 | 48.6 | 45.8 | 40.6 | 38.9 | 35.4 | 6.5 | Operating |
| 2025-04-03 | 12:00:00 | 00:15:00.0 | 43.6 | 30.6 | 64.7 | 47.6 | 44.7 | 40.2 | 38.3 | 33.7 | | Operating |
| 2025-04-03 | 12:15:00 | 00:15:00.0 | 41.9 | 30.0 | 61.2 | 47.1 | 44.8 | 40.0 | 37.8 | 33.3 | | Operating |
| 2025-04-03 | 12:30:00 | 00:15:00.0 | 46.7 | 30.7 | 63.2 | 53.6 | 50.8 | 42.7 | 40.2 | 34.4 | 7.5 | Operating |
| 2025-04-03 | 12:45:00 | 00:15:00.0 | 47.8 | 32.1 | 65.2 | 54.3 | 50.8 | 44.6 | 42.4 | 37.3 | | Operating |
| 2025-04-03 | 13:00:00 | 00:15:00.0 | 52.2 | 33.1 | 70.1 | 59.5 | 56.3 | 46.9 | 43.7 | 38.2 | | Operating |
| 2025-04-03 | 13:15:00 | 00:15:00.0 | 46.8 | 31.3 | 67.7 | 51.6 | 48.2 | 43.1 | 40.9 | 34.8 | 8.0 | Operating |
| 2025-04-03 | 13:30:00 | 00:15:00.0 | 51.9 | 31.6 | 67.8 | 59.4 | 57.0 | 44.8 | 41.1 | 36.1 | | Operating |
| 2025-04-03 | 13:45:00 | 00:15:00.0 | 41.3 | 32.9 | 61.8 | 45.6 | 43.9 | 40.7 | 39.5 | 36.9 | | Operating |
| 2025-04-03 | 14:00:00 | 00:15:00.0 | 48.4 | 33.5 | 65.9 | 55.1 | 51.4 | 44.5 | 42.4 | 38.1 | 8.0 | Operating |
| 2025-04-03 | 14:15:00 | 00:15:00.0 | 47.6 | 32.1 | 67.8 | 50.7 | 47.0 | 42.3 | 40.5 | 35.7 | | Operating |
| 2025-04-03 | 14:30:00 | 00:15:00.0 | 48.6 | 33.9 | 67.3 | 55.4 | 52.5 | 45.1 | 43.0 | 37.8 | | Operating |
| 2025-04-03 | 14:45:00 | 00:15:00.0 | 48.3 | 35.3 | 67.5 | 55.1 | 51.4 | 44.2 | 41.9 | 38.0 | 8.0 | Operating |
| 2025-04-03 | 15:00:00 | 00:15:00.0 | 48.7 | 35.0 | 64.4 | 55.3 | 52.3 | 46.2 | 43.6 | 38.9 | | Operating |
| 2025-04-03 | 15:15:00 | 00:15:00.0 | 49.0 | 34.8 | 68.9 | 54.6 | 51.4 | 45.5 | 43.6 | 38.5 | | Operating |
| 2025-04-03 | 15:30:00 | 00:15:00.0 | 50.6 | 34.0 | 68.3 | 57.4 | 53.8 | 46.6 | 44.2 | 39.1 | 7.5 | Operating |
| 2025-04-03 | 15:45:00 | 00:15:00.0 | 46.1 | 33.7 | 65.8 | 49.8 | 48.0 | 44.7 | 43.1 | 39.0 | | Operating |
| 2025-04-03 | 16:00:00 | 00:15:00.0 | 47.6 | 33.0 | 66.0 | 52.8 | 49.4 | 44.0 | 41.8 | 37.3 | | Operating |
| 2025-04-03 | 16:15:00 | 00:15:00.0 | 48.3 | 34.9 | 67.4 | 53.9 | 49.7 | 44.7 | 43.2 | 39.3 | 6.5 | Operating |
| | | | 45 | 33 | 63 | 50 | 47 | 42 | 41 | 37 | | Operating |
| | | | | | | | | | | | | |
| 2025-04-03 | 16:30:00 | 00:15:00.0 | 50.0 | 34.9 | 65.6 | 56.5 | 54.3 | 47.9 | 44.7 | 38.3 | 6.5 | Off |
| 2025-04-03 | 16:45:00 | 00:15:00.0 | 47.2 | 34.9 | 64.9 | 53.0 | 50.3 | 45.1 | 42.5 | 38.2 | | Off |
| 2025-04-03 | 17:00:00 | 00:15:00.0 | 55.1 | 37.7 | 71.6 | 62.1 | 59.1 | 51.1 | 48.2 | 42.2 | | Off |
| 2025-04-03 | 17:15:00 | 00:15:00.0 | 46.6 | 35.7 | 66.3 | 51.9 | 49.8 | 45.1 | 43.3 | 39.2 | | Off |
| 2025-04-03 | 17:30:00 | 00:15:00.0 | 43.9 | 35.1 | 65.9 | 48.2 | 47.0 | 43.5 | 41.8 | 37.9 | | Off |
| 2025-04-03 | 17:45:00 | 00:15:00.0 | 52.3 | 35.1 | 69.5 | 59.5 | 55.6 | 46.8 | 44.4 | 39.7 | | Off |
| | | | 49 | 36 | 67 | 55 | 53 | 47 | 44 | 39 | 6.0 | |
| | | | | | | | | | | | | |
| 2025-04-03 | 18:00:00 | 00:15:00.0 | 42.5 | 33.0 | 58.9 | 47.0 | 45.1 | 41.9 | 40.8 | 36.2 | | Off |
| 2025-04-03 | 18:15:00 | 00:08:17.6 | 45.6 | 33.4 | 71.2 | 49.3 | 47.6 | 43.4 | 41.2 | 36.2 | Off | |

RECEIVED: 2/18/2025

| N4 | | | | | | | | | | | Wind | Quarry | |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|-----------|
| Date | Time | Duration | LAEq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status | |
| 2025-04-02 | 12:45:00 | 00:15:00.0 | 45.5 | 36.1 | 58.9 | 49.3 | 48.5 | 45.4 | 43.7 | 40.8 | 6.0 | operating | |
| 2025-04-02 | 13:00:00 | 00:15:00.0 | 47.7 | 36.4 | 64.3 | 52.9 | 51.1 | 46.7 | 44.9 | 41.2 | | operating | |
| 2025-04-02 | 13:15:00 | 00:15:00.0 | 46.6 | 37.7 | 61.2 | 51.7 | 50.3 | 45.9 | 44.2 | 41.0 | | operating | |
| 2025-04-02 | 13:30:00 | 00:15:00.0 | 47.8 | 35.7 | 61.7 | 52.5 | 50.9 | 47.4 | 45.9 | 41.9 | | operating | |
| 2025-04-02 | 13:45:00 | 00:15:00.0 | 45.3 | 36.3 | 59.3 | 50.0 | 48.3 | 44.8 | 43.3 | 39.9 | | operating | |
| 2025-04-02 | 14:00:00 | 00:15:00.0 | 45.9 | 35.3 | 61.5 | 50.4 | 48.5 | 45.0 | 43.6 | 40.1 | | operating | |
| 2025-04-02 | 14:15:00 | 00:15:00.0 | 48.5 | 37.7 | 65.7 | 51.9 | 50.2 | 46.9 | 45.5 | 41.8 | | operating | |
| 2025-04-02 | 14:30:00 | 00:15:00.0 | 49.6 | 37.0 | 66.1 | 53.3 | 51.7 | 47.0 | 45.3 | 40.7 | | operating | |
| 2025-04-02 | 14:45:00 | 00:15:00.0 | 46.3 | 35.3 | 59.5 | 51.6 | 49.9 | 45.4 | 43.9 | 40.1 | | operating | |
| 2025-04-02 | 15:00:00 | 00:15:00.0 | 48.1 | 35.6 | 69.3 | 53.7 | 51.3 | 45.6 | 43.7 | 39.9 | | 5.5 | operating |
| 2025-04-02 | 15:15:00 | 00:15:00.0 | 48.5 | 36.5 | 63.0 | 54.0 | 51.8 | 47.4 | 45.5 | 40.9 | | operating | |
| 2025-04-02 | 15:30:00 | 00:15:00.0 | 47.7 | 36.8 | 71.3 | 50.9 | 49.6 | 46.2 | 44.5 | 41.0 | | operating | |
| 2025-04-02 | 15:45:00 | 00:15:00.0 | 47.4 | 32.8 | 68.8 | 53.4 | 51.2 | 46.3 | 44.1 | 39.5 | | operating | |
| 2025-04-02 | 16:00:00 | 00:15:00.0 | 47.2 | 37.0 | 60.2 | 52.2 | 50.6 | 46.8 | 45.1 | 41.2 | | 5.0 | operating |
| 2025-04-02 | 16:15:00 | 00:15:00.0 | 46.6 | 35.6 | 65.1 | 51.1 | 50.1 | 46.5 | 45.0 | 41.0 | | operating | |
| 2025-04-02 | 16:30:00 | 00:15:00.0 | 45.6 | 36.5 | 58.6 | 49.8 | 48.7 | 45.9 | 44.3 | 40.1 | | operating | |
| | | | 47 | 36 | 63 | 52 | 50 | 46 | 45 | 41 | | | |
| 2025-04-02 | 16:45:00 | 00:15:00.0 | 47.2 | 34.9 | 60.8 | 51.9 | 50.6 | 47.3 | 45.7 | 40.7 | 4.5 | Off | |
| 2025-04-02 | 17:00:00 | 00:15:00.0 | 46.5 | 37.2 | 58.0 | 50.2 | 49.3 | 46.8 | 45.3 | 41.4 | | Off | |
| 2025-04-02 | 17:15:00 | 00:15:00.0 | 46.3 | 36.8 | 57.8 | 50.5 | 49.4 | 46.6 | 44.8 | 41.3 | | Off | |
| 2025-04-02 | 17:30:00 | 00:15:00.0 | 47.8 | 38.0 | 58.6 | 51.4 | 50.6 | 48.2 | 47.0 | 43.1 | | Off | |
| 2025-04-02 | 17:45:00 | 00:15:00.0 | 46.6 | 35.7 | 69.3 | 50.4 | 49.2 | 46.6 | 45.3 | 41.4 | | Off | |
| | | | 47 | 37 | 61 | 51 | 50 | 47 | 46 | 42 | | | |
| 2025-04-02 | 18:00:00 | 00:15:00.0 | 46.5 | 36.4 | 68.0 | 50.3 | 49.2 | 46.3 | 45.0 | 41.5 | 5.0 | Off | |
| 2025-04-02 | 18:15:00 | 00:15:00.0 | 46.9 | 37.1 | 67.2 | 51.0 | 49.4 | 45.9 | 44.4 | 41.6 | Off | | |
| 2025-04-02 | 18:30:00 | 00:15:00.0 | 46.6 | 37.2 | 64.1 | 50.7 | 49.7 | 46.5 | 45.0 | 41.2 | Off | | |
| 2025-04-02 | 18:45:00 | 00:15:00.0 | 46.4 | 37.6 | 60.2 | 50.9 | 49.4 | 46.0 | 44.6 | 41.9 | Off | | |
| 2025-04-02 | 19:00:00 | 00:15:00.0 | 45.3 | 36.3 | 56.5 | 49.3 | 48.6 | 45.2 | 44.2 | 41.2 | 4.5 | Off | |
| 2025-04-02 | 19:15:00 | 00:15:00.0 | 47.4 | 38.8 | 62.2 | 52.0 | 50.8 | 47.1 | 45.6 | 42.7 | Off | | |
| 2025-04-02 | 19:30:00 | 00:15:00.0 | 46.7 | 38.6 | 59.8 | 50.8 | 49.7 | 46.6 | 45.2 | 42.8 | Off | | |
| 2025-04-02 | 19:45:00 | 00:15:00.0 | 46.4 | 36.9 | 61.6 | 52.0 | 49.8 | 45.4 | 44.1 | 41.8 | Off | | |
| 2025-04-02 | 20:00:00 | 00:15:00.0 | 46.7 | 38.6 | 58.3 | 51.5 | 50.0 | 46.3 | 45.1 | 42.2 | 4.0 | Off | |
| 2025-04-02 | 20:15:00 | 00:15:00.0 | 46.0 | 38.1 | 57.7 | 50.1 | 48.9 | 45.8 | 44.8 | 42.0 | Off | | |
| 2025-04-02 | 20:30:00 | 00:15:00.0 | 45.8 | 36.5 | 64.2 | 50.1 | 48.3 | 44.9 | 43.8 | 40.9 | Off | | |
| 2025-04-02 | 20:45:00 | 00:15:00.0 | 43.2 | 35.6 | 55.4 | 46.9 | 45.5 | 43.3 | 42.1 | 39.3 | Off | | |
| 2025-04-02 | 21:00:00 | 00:15:00.0 | 44.2 | 36.1 | 58.7 | 48.5 | 47.2 | 43.4 | 42.5 | 39.7 | 3.5 | Off | |
| 2025-04-02 | 21:15:00 | 00:15:00.0 | 44.6 | 36.4 | 57.0 | 48.9 | 47.4 | 44.4 | 43.4 | 40.5 | Off | | |
| 2025-04-02 | 21:30:00 | 00:15:00.0 | 44.6 | 35.6 | 54.7 | 48.1 | 46.7 | 44.8 | 44.0 | 41.1 | Off | | |
| 2025-04-02 | 21:45:00 | 00:15:00.0 | 44.5 | 36.6 | 53.8 | 48.2 | 47.0 | 44.5 | 43.4 | 41.0 | Off | | |
| 2025-04-02 | 22:00:00 | 00:15:00.0 | 44.5 | 36.0 | 56.5 | 47.3 | 46.4 | 44.8 | 43.8 | 40.7 | Off | | |
| 2025-04-02 | 22:15:00 | 00:15:00.0 | 43.6 | 34.9 | 53.2 | 46.2 | 45.6 | 44.2 | 43.4 | 40.2 | Off | | |
| 2025-04-02 | 22:30:00 | 00:15:00.0 | 42.9 | 34.2 | 54.3 | 47.4 | 45.7 | 42.6 | 41.4 | 38.6 | Off | | |
| 2025-04-02 | 22:45:00 | 00:15:00.0 | 43.6 | 31.1 | 52.5 | 46.8 | 46.1 | 44.1 | 43.0 | 40.1 | Off | | |
| 2025-04-02 | 23:00:00 | 00:15:00.0 | 41.8 | 27.7 | 51.2 | 45.3 | 44.4 | 42.5 | 41.2 | 35.0 | Off | | |
| 2025-04-02 | 23:15:00 | 00:15:00.0 | 41.5 | 29.9 | 55.6 | 45.4 | 44.5 | 41.8 | 40.6 | 36.0 | Off | | |
| 2025-04-02 | 23:30:00 | 00:15:00.0 | 46.7 | 35.4 | 68.4 | 49.9 | 46.4 | 43.3 | 42.1 | 39.0 | Off | | |
| 2025-04-02 | 23:45:00 | 00:15:00.0 | 42.0 | 32.8 | 61.2 | 45.7 | 44.4 | 42.2 | 41.1 | 38.3 | Off | | |
| 2025-04-03 | 00:00:00 | 00:15:00.0 | 40.2 | 27.3 | 53.5 | 43.3 | 42.4 | 40.6 | 39.5 | 35.8 | Off | | |
| 2025-04-03 | 00:15:00 | 00:15:00.0 | 39.7 | 30.7 | 51.4 | 42.9 | 42.0 | 39.6 | 38.3 | 35.4 | Off | | |
| 2025-04-03 | 00:30:00 | 00:15:00.0 | 39.8 | 24.0 | 56.2 | 43.6 | 42.3 | 39.7 | 38.1 | 28.0 | Off | | |
| 2025-04-03 | 00:45:00 | 00:15:00.0 | 35.9 | 24.4 | 47.6 | 39.4 | 38.6 | 36.6 | 35.3 | 29.0 | Off | | |

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| N4 | | | | | | | | | | | Wind |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|
| Date | Time | Duration | LAeq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed |
| 2025-04-03 | 01:00:00 | 00:15:00.0 | 38.4 | 26.8 | 53.7 | 43.1 | 41.4 | 38.4 | 36.7 | 30.8 | 3.5 |
| 2025-04-03 | 01:15:00 | 00:15:00.0 | 33.7 | 22.7 | 50.1 | 37.8 | 36.6 | 34.0 | 32.4 | 25.8 | |
| 2025-04-03 | 01:30:00 | 00:15:00.0 | 37.2 | 25.7 | 53.8 | 41.3 | 39.9 | 37.0 | 35.4 | 30.6 | |
| 2025-04-03 | 01:45:00 | 00:15:00.0 | 35.7 | 26.0 | 51.2 | 41.1 | 38.7 | 34.3 | 32.7 | 29.5 | |
| 2025-04-03 | 02:00:00 | 00:15:00.0 | 35.3 | 25.2 | 48.4 | 39.7 | 38.5 | 35.4 | 34.2 | 29.6 | |
| 2025-04-03 | 02:15:00 | 00:15:00.0 | 36.2 | 25.3 | 54.8 | 40.3 | 37.5 | 34.5 | 33.0 | 29.1 | |
| 2025-04-03 | 02:30:00 | 00:15:00.0 | 34.2 | 23.7 | 47.1 | 38.4 | 37.3 | 34.3 | 32.6 | 26.2 | |
| 2025-04-03 | 02:45:00 | 00:15:00.0 | 37.7 | 28.5 | 49.5 | 41.2 | 40.2 | 38.1 | 36.8 | 32.6 | |
| 2025-04-03 | 03:00:00 | 00:15:00.0 | 36.6 | 26.2 | 47.7 | 40.8 | 40.0 | 37.2 | 35.0 | 30.1 | |
| 2025-04-03 | 03:15:00 | 00:15:00.0 | 38.0 | 27.1 | 48.6 | 42.9 | 41.9 | 38.0 | 34.9 | 31.1 | |
| 2025-04-03 | 03:30:00 | 00:15:00.0 | 34.7 | 25.5 | 48.6 | 39.2 | 37.7 | 34.6 | 33.4 | 29.7 | |
| 2025-04-03 | 03:45:00 | 00:15:00.0 | 38.1 | 26.8 | 54.6 | 44.1 | 42.2 | 36.1 | 34.5 | 30.9 | |
| 2025-04-03 | 04:00:00 | 00:15:00.0 | 38.0 | 27.4 | 49.0 | 42.3 | 41.2 | 38.4 | 36.8 | 32.3 | |
| 2025-04-03 | 04:15:00 | 00:15:00.0 | 39.2 | 27.5 | 50.6 | 44.0 | 42.7 | 39.7 | 37.4 | 31.2 | |
| 2025-04-03 | 04:30:00 | 00:15:00.0 | 38.8 | 25.9 | 51.0 | 42.8 | 41.6 | 39.2 | 37.9 | 32.2 | |
| 2025-04-03 | 04:45:00 | 00:15:00.0 | 40.2 | 26.9 | 55.6 | 44.4 | 43.4 | 40.6 | 38.7 | 31.8 | |
| 2025-04-03 | 05:00:00 | 00:15:00.0 | 42.7 | 29.3 | 52.9 | 46.7 | 45.9 | 43.4 | 41.5 | 36.7 | |
| 2025-04-03 | 05:15:00 | 00:15:00.0 | 43.0 | 34.7 | 52.1 | 45.8 | 45.0 | 43.4 | 42.6 | 39.7 | |
| 2025-04-03 | 05:30:00 | 00:15:00.0 | 45.1 | 34.9 | 53.3 | 47.5 | 46.9 | 45.8 | 44.9 | 42.2 | |
| 2025-04-03 | 05:45:00 | 00:15:00.0 | 46.1 | 40.1 | 53.6 | 48.2 | 47.7 | 46.5 | 45.8 | 43.7 | |
| 2025-04-03 | 06:00:00 | 00:15:00.0 | 49.8 | 42.6 | 66.6 | 54.3 | 52.5 | 49.4 | 48.0 | 45.7 | |
| 2025-04-03 | 06:15:00 | 00:15:00.0 | 53.0 | 44.2 | 71.1 | 58.2 | 56.4 | 51.4 | 50.5 | 48.4 | |
| 2025-04-03 | 06:30:00 | 00:15:00.0 | 51.3 | 45.7 | 74.0 | 53.5 | 52.4 | 50.6 | 49.8 | 48.5 | |
| 2025-04-03 | 06:45:00 | 00:15:00.0 | 51.4 | 46.0 | 63.3 | 53.9 | 53.2 | 51.7 | 51.0 | 49.0 | |
| 2025-04-03 | 07:00:00 | 00:15:00.0 | 52.4 | 46.9 | 71.3 | 54.6 | 53.9 | 52.2 | 51.5 | 49.3 | |
| 2025-04-03 | 07:15:00 | 00:15:00.0 | 52.9 | 47.8 | 68.4 | 55.4 | 54.6 | 53.1 | 52.3 | 50.5 | |
| 2025-04-03 | 07:30:00 | 00:15:00.0 | 53.1 | 47.2 | 62.5 | 55.5 | 54.9 | 53.6 | 52.8 | 50.5 | |
| 2025-04-03 | 07:45:00 | 00:15:00.0 | 52.4 | 46.7 | 63.6 | 55.3 | 54.1 | 52.0 | 51.2 | 49.3 | |
| 2025-04-03 | 08:00:00 | 00:15:00.0 | 51.9 | 45.8 | 65.5 | 55.4 | 54.0 | 51.8 | 51.0 | 49.0 | |
| 2025-04-03 | 08:15:00 | 00:15:00.0 | 50.5 | 43.1 | 63.9 | 54.7 | 53.1 | 50.6 | 49.1 | 46.6 | |
| 2025-04-03 | 08:30:00 | 00:15:00.0 | 50.5 | 42.4 | 65.7 | 53.6 | 52.6 | 50.8 | 49.8 | 46.8 | |
| 2025-04-03 | 08:45:00 | 00:15:00.0 | 52.0 | 43.3 | 69.3 | 56.3 | 54.2 | 51.4 | 50.3 | 47.3 | |
| 2025-04-03 | 09:00:00 | 00:15:00.0 | 49.8 | 41.1 | 68.5 | 53.6 | 52.5 | 49.4 | 47.9 | 44.8 | |
| 2025-04-03 | 09:15:00 | 00:15:00.0 | 49.7 | 38.0 | 62.7 | 53.9 | 52.9 | 49.7 | 47.8 | 43.2 | |
| 2025-04-03 | 09:30:00 | 00:15:00.0 | 48.4 | 38.2 | 69.8 | 52.0 | 50.3 | 47.3 | 45.8 | 42.2 | |
| 2025-04-03 | 09:45:00 | 00:15:00.0 | 49.2 | 37.9 | 73.2 | 53.9 | 52.2 | 48.4 | 46.3 | 41.9 | |
| 2025-04-03 | 10:00:00 | 00:15:00.0 | 47.0 | 37.4 | 63.2 | 52.2 | 50.4 | 46.6 | 44.6 | 41.7 | |
| 2025-04-03 | 10:15:00 | 00:15:00.0 | 48.4 | 37.9 | 63.5 | 52.9 | 51.3 | 47.4 | 46.0 | 42.4 | |
| 2025-04-03 | 10:30:00 | 00:15:00.0 | 47.2 | 36.6 | 62.9 | 51.6 | 50.2 | 47.1 | 45.0 | 41.5 | |
| 2025-04-03 | 10:45:00 | 00:07:44.9 | 47.3 | 38.2 | 63.7 | 51.2 | 49.6 | 46.4 | 44.8 | 42.5 | |
| 2025-04-03 | 11:00:00 | 00:15:00.0 | 47.2 | 34.7 | 61.6 | 52.4 | 50.4 | 46.0 | 44.3 | 39.8 | |
| 2025-04-03 | 11:15:00 | 00:15:00.0 | 47.2 | 35.6 | 61.4 | 53.0 | 50.6 | 45.9 | 44.0 | 39.5 | |
| 2025-04-03 | 11:30:00 | 00:15:00.0 | 47.4 | 36.2 | 60.7 | 52.8 | 50.9 | 46.6 | 44.5 | 39.9 | |

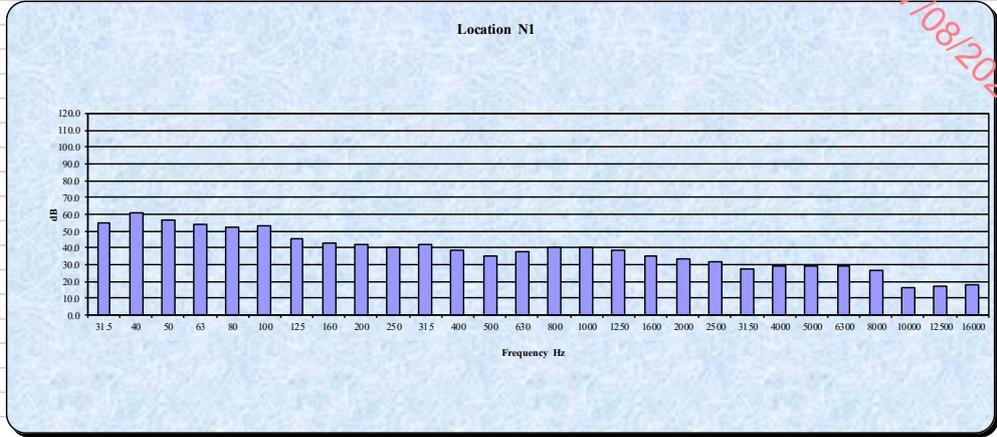
RECEIVED: 17/08/2025

| N4 | | | | | | | | | | | Wind | Quarry |
|------------|----------|------------|------|--------|--------|------|-------|-------|-------|-------|-------|-----------|
| Date | Time | Duration | LAEq | LAFmin | LAFmax | LAF5 | LAF10 | LAF33 | LAF50 | LAF90 | Speed | Status |
| 2025-04-03 | 11:45:00 | 00:15:00.0 | 47.2 | 35.7 | 68.2 | 52.1 | 50.3 | 46.1 | 44.4 | 39.9 | 6.5 | operating |
| 2025-04-03 | 12:00:00 | 00:15:00.0 | 48.8 | 37.4 | 65.0 | 54.4 | 52.4 | 47.8 | 45.5 | 41.7 | | operating |
| 2025-04-03 | 12:15:00 | 00:15:00.0 | 47.5 | 36.2 | 65.6 | 52.3 | 50.2 | 46.0 | 44.4 | 40.8 | 7.5 | operating |
| 2025-04-03 | 12:30:00 | 00:15:00.0 | 48.8 | 38.0 | 64.6 | 54.8 | 52.5 | 46.9 | 45.0 | 41.3 | | operating |
| 2025-04-03 | 12:45:00 | 00:15:00.0 | 46.9 | 39.3 | 59.8 | 51.3 | 49.8 | 46.4 | 45.2 | 42.4 | 7.5 | operating |
| 2025-04-03 | 13:00:00 | 00:15:00.0 | 46.7 | 39.0 | 65.1 | 50.5 | 49.0 | 46.3 | 45.1 | 42.0 | | operating |
| 2025-04-03 | 13:15:00 | 00:15:00.0 | 47.5 | 37.8 | 64.0 | 51.8 | 50.4 | 47.3 | 45.6 | 41.3 | 8.0 | operating |
| 2025-04-03 | 13:30:00 | 00:15:00.0 | 48.3 | 39.3 | 63.3 | 52.7 | 51.3 | 48.2 | 46.7 | 42.7 | | operating |
| 2025-04-03 | 13:45:00 | 00:15:00.0 | 48.7 | 39.8 | 61.8 | 53.7 | 51.7 | 47.6 | 45.9 | 42.8 | 8.0 | operating |
| 2025-04-03 | 14:00:00 | 00:15:00.0 | 48.6 | 39.4 | 71.6 | 52.7 | 51.3 | 47.9 | 46.4 | 42.8 | | operating |
| 2025-04-03 | 14:15:00 | 00:15:00.0 | 48.7 | 40.3 | 63.4 | 52.6 | 51.1 | 48.2 | 46.8 | 43.6 | 8.0 | operating |
| 2025-04-03 | 14:30:00 | 00:15:00.0 | 49.5 | 40.7 | 66.4 | 53.6 | 52.0 | 48.8 | 47.4 | 44.4 | | operating |
| 2025-04-03 | 14:45:00 | 00:15:00.0 | 48.8 | 40.0 | 60.8 | 53.5 | 52.1 | 48.1 | 46.4 | 43.0 | 8.0 | operating |
| 2025-04-03 | 15:00:00 | 00:15:00.0 | 50.0 | 40.5 | 62.8 | 55.2 | 53.2 | 49.0 | 47.2 | 43.6 | | operating |
| 2025-04-03 | 15:15:00 | 00:15:00.0 | 49.7 | 40.5 | 62.2 | 54.4 | 52.8 | 49.6 | 47.9 | 43.7 | 7.5 | operating |
| 2025-04-03 | 15:30:00 | 00:15:00.0 | 49.5 | 40.5 | 65.8 | 54.2 | 52.5 | 48.9 | 47.2 | 44.0 | | operating |
| 2025-04-03 | 15:45:00 | 00:15:00.0 | 48.7 | 39.7 | 58.7 | 53.0 | 51.8 | 48.6 | 47.3 | 43.8 | 7.5 | operating |
| 2025-04-03 | 16:00:00 | 00:15:00.0 | 49.0 | 40.6 | 61.9 | 53.6 | 51.7 | 48.7 | 47.3 | 44.0 | | operating |
| 2025-04-03 | 16:15:00 | 00:15:00.0 | 49.7 | 40.8 | 62.1 | 53.7 | 52.7 | 49.9 | 48.4 | 44.3 | | operating |
| | | | 49 | 40 | 64 | 53 | 52 | 48 | 47 | 43 | | |
| 2025-04-03 | 16:30:00 | 00:15:00.0 | 47.7 | 39.8 | 58.3 | 51.6 | 50.6 | 47.8 | 46.4 | 43.5 | 6.5 | Off |
| 2025-04-03 | 16:45:00 | 00:15:00.0 | 50.3 | 39.7 | 61.6 | 54.2 | 53.0 | 50.4 | 49.1 | 44.4 | | Off |
| 2025-04-03 | 17:00:00 | 00:15:00.0 | 50.9 | 43.3 | 61.4 | 55.1 | 53.9 | 50.6 | 49.5 | 46.5 | | Off |
| 2025-04-03 | 17:15:00 | 00:15:00.0 | 49.7 | 41.0 | 63.6 | 53.2 | 52.0 | 49.4 | 48.3 | 45.0 | | Off |
| 2025-04-03 | 17:30:00 | 00:15:00.0 | 50.4 | 43.0 | 64.3 | 54.0 | 53.0 | 50.6 | 49.3 | 46.2 | | Off |
| 2025-04-03 | 17:45:00 | 00:15:00.0 | 50.6 | 42.4 | 61.1 | 55.0 | 53.7 | 50.6 | 49.2 | 45.3 | | Off |
| | | | 49 | 40 | 64 | 53 | 52 | 49 | 47 | 44 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 2025-04-03 | 18:00:00 | 00:15:00.0 | 49.5 | 41.0 | 67.6 | 54.2 | 52.9 | 49.0 | 47.3 | 43.7 | 6.0 | |

Appendix 5: One-Third Octave Frequency 2018, N1-N4 incl.

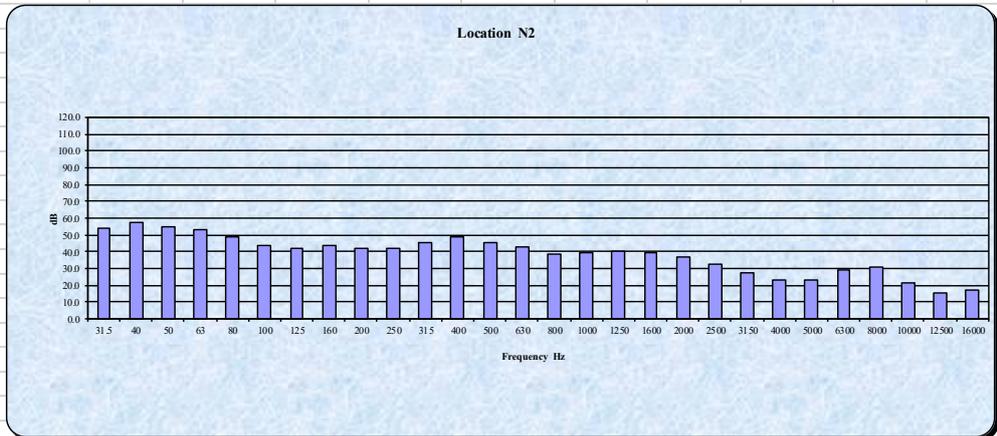
RECEIVED: 27/08/2025

| Freq. | dBz. |
|-------|------|
| 31.5 | 55.0 |
| 40 | 60.8 |
| 50 | 57.0 |
| 63 | 54.2 |
| 80 | 52.1 |
| 100 | 53.3 |
| 125 | 45.6 |
| 160 | 43.2 |
| 200 | 41.9 |
| 250 | 40.7 |
| 315 | 42.0 |
| 400 | 39.0 |
| 500 | 35.6 |
| 630 | 38.0 |
| 800 | 40.6 |
| 1000 | 40.3 |
| 1250 | 38.6 |
| 1600 | 35.6 |
| 2000 | 33.4 |
| 2500 | 31.4 |
| 3150 | 27.7 |
| 4000 | 29.5 |
| 5000 | 29.5 |
| 6300 | 29.4 |
| 8000 | 26.7 |
| 10000 | 16.6 |
| 12500 | 17.1 |
| 16000 | 17.9 |



Location N1

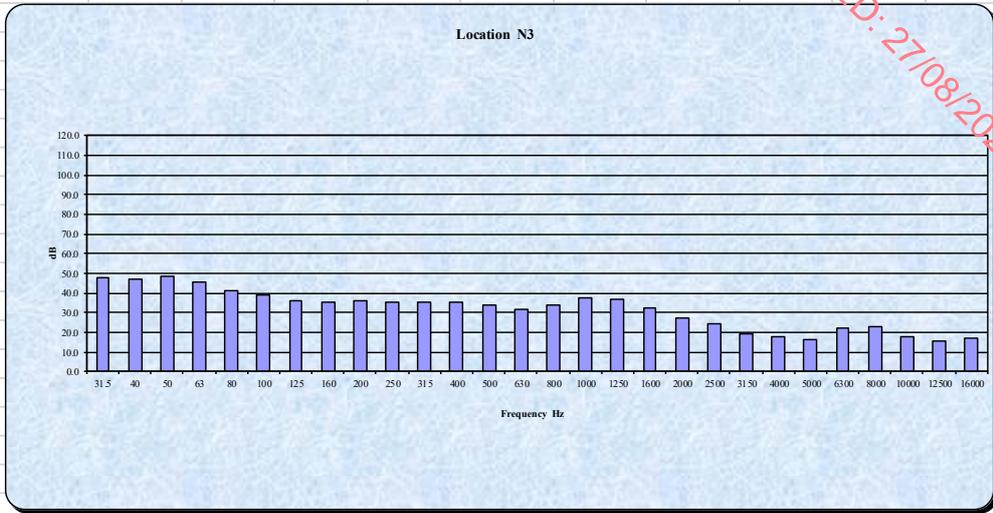
| Freq. | dBz. |
|-------|------|
| 31.5 | 54.0 |
| 40 | 57.8 |
| 50 | 55.0 |
| 63 | 53.5 |
| 80 | 49.0 |
| 100 | 43.9 |
| 125 | 42.3 |
| 160 | 43.9 |
| 200 | 42.3 |
| 250 | 42.1 |
| 315 | 45.6 |
| 400 | 48.5 |
| 500 | 45.6 |
| 630 | 42.7 |
| 800 | 38.7 |
| 1000 | 39.8 |
| 1250 | 40.5 |
| 1600 | 39.8 |
| 2000 | 36.8 |
| 2500 | 32.6 |
| 3150 | 27.6 |
| 4000 | 23.2 |
| 5000 | 23.5 |
| 6300 | 29.1 |
| 8000 | 30.6 |
| 10000 | 21.7 |
| 12500 | 15.9 |
| 16000 | 17.3 |



Location N2

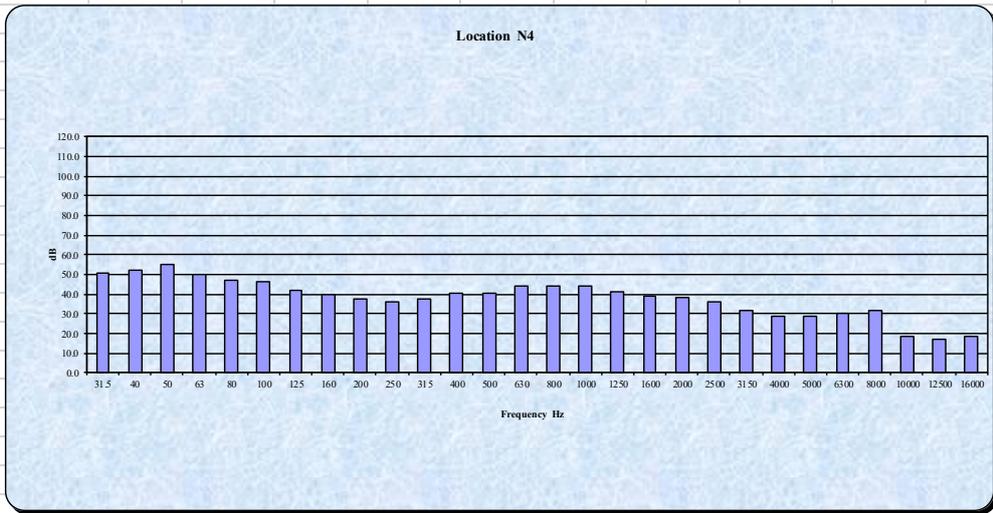
RECEIVED: 27/08/2015

| Freq. | dBz. |
|-------|------|
| 31.5 | 47.6 |
| 40 | 46.8 |
| 50 | 48.5 |
| 63 | 45.8 |
| 80 | 41.4 |
| 100 | 38.9 |
| 125 | 36.1 |
| 160 | 35.4 |
| 200 | 35.8 |
| 250 | 35.6 |
| 315 | 35.3 |
| 400 | 34.9 |
| 500 | 33.9 |
| 630 | 31.9 |
| 800 | 33.7 |
| 1000 | 37.3 |
| 1250 | 36.5 |
| 1600 | 32.5 |
| 2000 | 27.4 |
| 2500 | 24.1 |
| 3150 | 18.9 |
| 4000 | 17.6 |
| 5000 | 16.0 |
| 6300 | 22.4 |
| 8000 | 23.1 |
| 10000 | 17.5 |
| 12500 | 15.7 |
| 16000 | 16.8 |



Location N3

| Freq. | dBz. |
|-------|------|
| 31.5 | 50.3 |
| 40 | 52.1 |
| 50 | 55.2 |
| 63 | 50.2 |
| 80 | 47.1 |
| 100 | 46.5 |
| 125 | 41.6 |
| 160 | 39.9 |
| 200 | 37.6 |
| 250 | 35.8 |
| 315 | 37.5 |
| 400 | 40.5 |
| 500 | 40.6 |
| 630 | 43.8 |
| 800 | 44.1 |
| 1000 | 43.9 |
| 1250 | 41.1 |
| 1600 | 39.0 |
| 2000 | 38.1 |
| 2500 | 36.1 |
| 3150 | 31.2 |
| 4000 | 28.6 |
| 5000 | 28.6 |
| 6300 | 30.0 |
| 8000 | 31.8 |
| 10000 | 18.5 |
| 12500 | 17.0 |
| 16000 | 18.4 |



Location N4