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Dora Ambrosi-Wall
Environmental Advisor
Veolia
Via email: dora.ambrosi-wall@veolia.com

**RE: Noise Monitoring 2025 – Veolia Resource Recovery Facility at Wetherill Park**

Dear Dora,

Todoroski Air Sciences has attended noise monitoring for the Veolia Resource Recovery Facility at Wetherill Park (hereafter referred to as the Project). The noise monitoring was conducted as per the New South Wales (NSW) Environment Protection Authority (EPA) document *Approved Methods for the Measurement and Analysis of Environmental Noise in NSW* (**NSW EPA, 2022**).

The Project is located at 20 Davis Road, Wetherill Park New South Wales (NSW) within an existing industrial area. The nearest residential area is located approximately 1.5 kilometres (km) south-southeast and west of the Project site. **Figure 1** presents the location of the Project.


**Figure 1: Project location**

The Project is a resource recovery facility that receives and processes up to 500 tonnes per day (tpd) of both putrescible and non-putrescible general dry and wet waste from commercial premises. The waste material is delivered onsite and deposited within the warehouse where it is sorted and consolidated before being transferred offsite for alternative processing and disposal.

The Project operates 24 hours a day, Monday to Friday, with operations concluding at 1pm on Saturday and resuming at 10am on Sunday. The site contains the following mobile equipment:

- 14 tonne excavator;
- 20 tonne excavator;
- Front end loader;
- Bobcat;
- Forklift; and,
- Bulldozer.

Most of the equipment operates during the day, while night-time operations are limited to the occasional use of the bulldozer, with truck activity significantly decreasing during the night period.

**Project noise criteria**

As per Development Consent (SSD 7267), the Project must ensure that noise generated by operational activities do not exceed the noise limits presented in **Table 1**.

**Table 1: Noise limits dB(A)**

| Location | Day ($L_{Aeq\ (15\ minute)}$) | Evening ($L_{Aeq\ (15\ minute)}$) | Night ($L_{Aeq\ (15\ minute)}$) | Night ($L_{Aeq\ (1\ minute)}$) |
|---|---|---|---|---|
| All residential receivers | 35 | 35 | 35 | 45 |

*Note: Noise generated by the Development is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.*

As discussed, the nearest residential receptors are approximately 1.5 km south-southeast and west of the Project site, making it unlikely that noise emissions from the Project would be audible at these locations. The primary sources of noise at the residences are likely attributable to nearby industrial activities and traffic from the Horsley Drive and M7, which would likely have a greater impact than the Project. Given the distance and the presence of other noise sources, any noise from the Project would likely be masked.

Additionally, the noise generated by the Project is similar to that of other local industrial operations and is not expected to be significantly louder or more disruptive. Therefore, conducting attended noise measurements at the nearest residential areas would not be appropriate for assessing potential noise impacts from the Project.

**Noise monitoring locations**

Todoroski Air Sciences conducted a series of attended noise monitoring measurements at the Project site on 7 November 2025 to assess for compliance and used for the validation of noise predictions in the *Wetherill Park Resource Recovery Facility Upgrade – Noise Assessment* (**Pacific Environment, 2015**). The attended noise monitoring was conducted over 15-minute periods.

Confirmation was received from Veolia prior to the noise monitoring to verify that the site was in full operation at the time of the noise measurements.

The noise monitoring locations are shown in **Figure 2** and presented in **Table 2**. Attended noise monitoring was conducted using a Nti Audio XL2 Audio and Acoustic Analyzer, NATA Calibrated. A portable weather monitor (Kestrel type 5500) was positioned next to the noise monitoring equipment to record the prevailing meteorological conditions.

**Table 2: Noise monitoring location – Meteorological conditions**

| Location ID | Eastings | Northings | Time | Wind direction | Wind speed (m/s) | Average temperature (°C) | Average relative humidity | Rain |
|---|---|---|---|---|---|---|---|---|
| 1 | 305334 | 6253996 | 7:41am | CALM | 0.0 | 22.2 | 49.9 | Nil |
| 2 | 305445 | 6253990 | 8:10am | CALM | 0.0 | 23.8 | 68.8 | Nil |
| 3 | 305434 | 6253877 | 8:42am | NNW | 0.8 | 25.6 | 79.1 | Nil |


**Figure 2: Noise monitoring locations**

### Attended noise monitoring results

**Table 3** summarises the noise measurement results from the attended monitoring.

**Table 3: Attended noise measurement results**

| Location ID | Start time | $L_{Aeq,15min}$ | $L_{A90,15min}$ | $L_{min,15min}$ |
|---|---|---|---|---|
| 1 | 7:41am | 64.7 | 60.3 | 54.7 |
| 2 | 8:10am | 59.7 | 55.5 | 52.9 |
| 3 | 8:42am | 59.5 | 55.1 | 53.0 |

Noise emissions from the site vary throughout the day and week, influenced by factors such as site traffic, plant equipment usage, and waste processing activities. Peak noise levels typically occur during periods of higher activity, such as when vehicle movements increase or specific equipment like excavators, bulldozers, or

forklifts are in use. Conversely, during periods of lower activity, such as evenings and nights, noise emissions decrease.

Daytime operations, being the busiest period with frequent truck movements and heavy machinery running in the warehouse, generally produce higher noise levels. At night, with fewer vehicles and reduced plant activity, noise levels are lower. This dynamic pattern means noise emissions are directly tied to the intensity of operational activities.

With fewer vehicles, slower waste processing, and reduced use of plant equipment during night operations, noise levels at the receptor locations are expected to be less than daytime, and if compliance can be demonstrated for daytime, conditions would also be complaint for nighttime.

**Noise survey results comparison**

The noise measurement results were compared against the predicted noise impacts from the Project site presented in the *Wetherill Park Resource Recovery Facility Upgrade Noise Assessment* (**Pacific Environment, 2015**).

**Figure 3** presents the predicted noise levels from the noise impact assessment report.

The attended noise measurements taken at the Project boundary were found to be consistent with these modelling predictions, with recorded noise levels ranging between 55-65 dB(A). This range aligns with the predicted values, confirming the accuracy of the noise model and validating that the actual noise emissions from the site are within expected limits.

Thus, the noise levels at the receptor locations demonstrate compliance with the noise limits in **Table 1**.

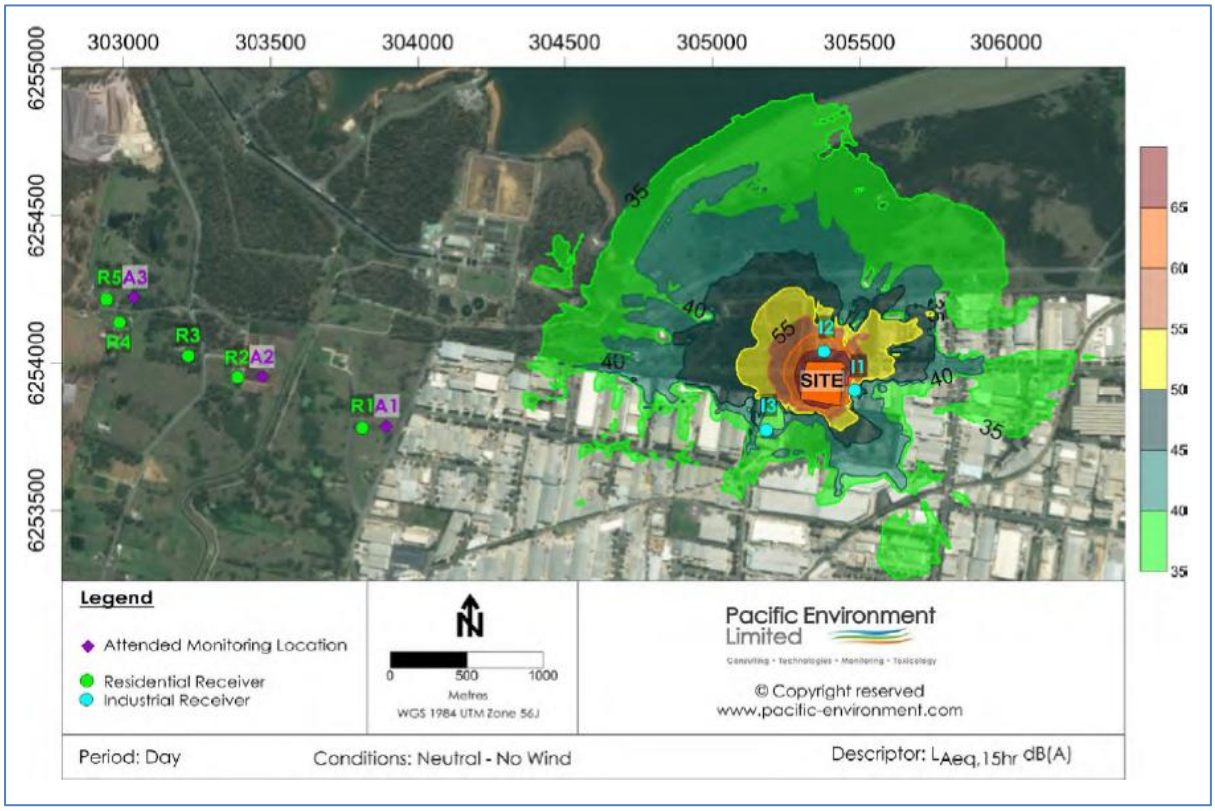


**Figure 3: Operational day time neutral conditions (Pacific Environment, 2015)**

**Summary and conclusions**

This report summarises the results of the attended noise monitoring conducted on 7 November 2025 at Veolia Resource Recovery Facility at Wetherill Park.

Overall, the attended noise measurements indicate that the noise emissions from the Project comply with relevant noise limits in Development Consent (SSD 7267). Furthermore, the measured noise levels were consistent with the predictions made in the noise impact assessment report, confirming the accuracy of the noise modelling and the extent of impacts from the site.

As a result, no additional noise mitigation measures are required, as the current operational conditions and noise controls are sufficient to maintain compliance. Therefore, no further action is needed to address environmental noise concerns.

Please feel free to contact us if you would like to clarify any aspect of this report.

Yours faithfully,
Todoroski Air Sciences

Emilie Aragnou

**References**

NSW EPA (2022)

"Approved Methods for the Measurement and Analysis of Environmental Noise in NSW", NSW Environment Protection Authority, January 2022.

Pacific Environmental (2015)

"Wetherill Park Resource Recovery Facility Upgrade Noise Assessment", prepared by Pacific Environment Pty Ltd for Golder Associated Pty Ltd, December 2015.