

HOBART POST IMPLEMENTATION REVIEW

EXPRESSIONS OF INTEREST FOR

SHORT-TERM NOISE MONITOR

INSTALLATION

We are seeking expressions of interest from property owners in the broader Hobart area for installation of a short-term noise monitor on their property

Why are we installing short-term noise monitors?

On 7 November 2019, Airservices introduced new instrument flight procedures and flight paths at Hobart Airport.

As these flight paths have now been operating for 12 months we are commencing a Post Implementation Review (PIR). The PIR includes comparing forecast aircraft noise levels against actual aircraft noise levels.

We are now seeking to install short-term noise monitors to collect aircraft noise data to assist us in undertaking this comparison.

Where are we installing short-term noise monitors?

Airservices has identified three potential installation zones in the Hobart area, and these are shown in Figure 1.

These three zones experience regular aircraft traffic, are relatively close to the airport and, in our modelling, were in the noise contours forecast to experience greater than ten 60 decibel (dB(A)) noise events per day.

You can view the 60 dB(A) noise contours for the Hobart area on our *Engage Airservices* page for summer [here](#), and for the rest of the year [here](#).

We are seeking assistance from the community to identify appropriate private properties, within or close to these zones, for the installation of short-term noise monitors.



Figure 1 – Potential installation zones for noise monitoring (white) in the Hobart region, with indicative arrival (blue) and departure (green) flight tracks for Hobart Airport (Source: Airservices ANOMS).

How do we identify potential noise monitor location/s?

Noise monitors must be located in areas that effectively capture noise data from arriving and departing aircraft.

We use the following information to identify potential locations for short-term noise monitors:

- Site suitability to capture all major aircraft types and operations, so that the noise data is representative of the range of aircraft noise
- No obstructions or reflective surfaces that would interfere with the operation of the monitor
- Community feedback on suggested location/s
- Site suitability to effectively capture sufficient noise data (i.e. if aircraft are too far away, the range of aircraft noise generally won't be captured effectively by a noise monitor)
- Site technical aspects including security, mobile data coverage, access to power, protection from wildlife, and a location within air traffic control radar coverage
- Consideration of background noise levels that can impact the effectiveness of the noise monitor (e.g. locations with strong winds or other noise producing sources such as highways may mean aircraft noise cannot be collected effectively).

What does a short-term noise monitor look like?

A short-term noise monitor includes a microphone on a short pole and a briefcase which contains the noise monitoring equipment (Figure 2).

A noise monitor runs off mains power, so needs a continuous supply through a standard power point. The microphone is installed on the roof, with the briefcase stored inside near the power point or on the roof near the microphone.

The amount of power used by the noise monitor is minimal.



Figure 2 – Example of a short-term noise monitor installation.

Who installs the noise monitor?

Airservices contracts the installation of noise monitors to Envirosuite, who manage all aspects of short-term noise monitoring installations. This includes:

- reviewing a final site for noise monitoring and confirming its suitability
- installation, maintenance and removal of the noise monitor
- landholder agreements, which may include compensation.

More information on Envirosuite can be found on their website at: <https://envirosuite.com/>

How long will the noise monitor be installed for?

Short-term noise monitoring is normally conducted for periods of between four weeks and six months. We plan to install these noise monitors for six months, but may extend this period if we need further data.

Does the noise monitor emit radio waves or radiation?

No. The noise monitor to be installed:

- is not a radio transmitter
- has been tested and type approved to meet radiation requirements for IT equipment and complies with relevant standards¹
- has wireless communication, complies with all Australian regulations and has been certified by the National Metrology Institute of Germany (Physikalisch-Technische Bundesanstalt)²
- does not produce noise that is noticeable.

Will the noise monitor record background noise?

Short-term noise monitors record audio anytime a suitably loud noise event occurs at that location e.g. a 60 dB(A) noise. If there is a background noise (for example animal calls, machinery or loud conversation) in very close proximity to the noise monitor, there is a possibility this may also be recorded. In the unlikely situation where a noise event including audible conversation was recorded and subsequently played during verification, playback is halted and the recording moved on to the next noticeable noise event. Individual privacy is maintained at all times in accordance with the *Privacy Act 1988*.

Submitting your expression of interest

If you own a property within, or close to, one of the identified zones in Figure 1, and are willing to have a short-term noise monitor on your property for a period of six to nine months, you can submit an expression of interest.

When submitting your expression of interest please ensure you include details of:

- the specific address of your property
- the available infrastructure for installation of the noise monitor e.g. access to power, suitable building/roof
- any other information that may help us to consider the suitability of the location e.g. located away from road noise.

When do I submit my expression of interest?

Expression of Interests should be submitted by 5pm AEDT on Wednesday 9 December 2020.

How do I submit my expression of interest?

Visit *Engage Airservices* at <http://engage.airservicesaustralia.com/hobart> and complete the online survey, which will take you through a series of questions to provide the required information.

For further information

Visit *Engage Airservices* at <https://engage.airservicesaustralia.com/hobart>

¹ EN55022: 1944 Amendment 1: 1995, Amendment 2: 1997 and AS/NZ 3584 (CISPR 22: 1993) Amendments 1 & 2: 1997

² DIN EN 61672-1:2003-10 and DIN EN 61672 -2 2004-08