# Memo

Current Noise Monitoring

Auckland Airport has located noise monitors around Auckland since April 2015.The purpose of the noise monitors is to confirm that noise generated from aircraft operations complies with the relevant noise limits as set out in Designation 1100 and as identified in the Aircraft Noise Contours. These requirements are set out under Condition 5 of Designation 1100.

Under Designation 1100 in the Auckland Unitary Plan, Auckland Airport is required to have a minimum of three permanent noise monitors to measure noise from aircraft operations associated with the existing runway. The southern runway noise monitors are required to be located as near as practicable to the boundary of the HANA of the existing runway to obtain an accurate reading.

In addition to this Auckland Airport has installed seven movable noise monitors. The map below shows the current location of the noise monitors (as at May 2019). These monitors have been deployed to monitor noise prior to the commencement of and under existing and/or proposed SMART approaches. All noise monitors owned or leased by Auckland Airport are currently deployed.
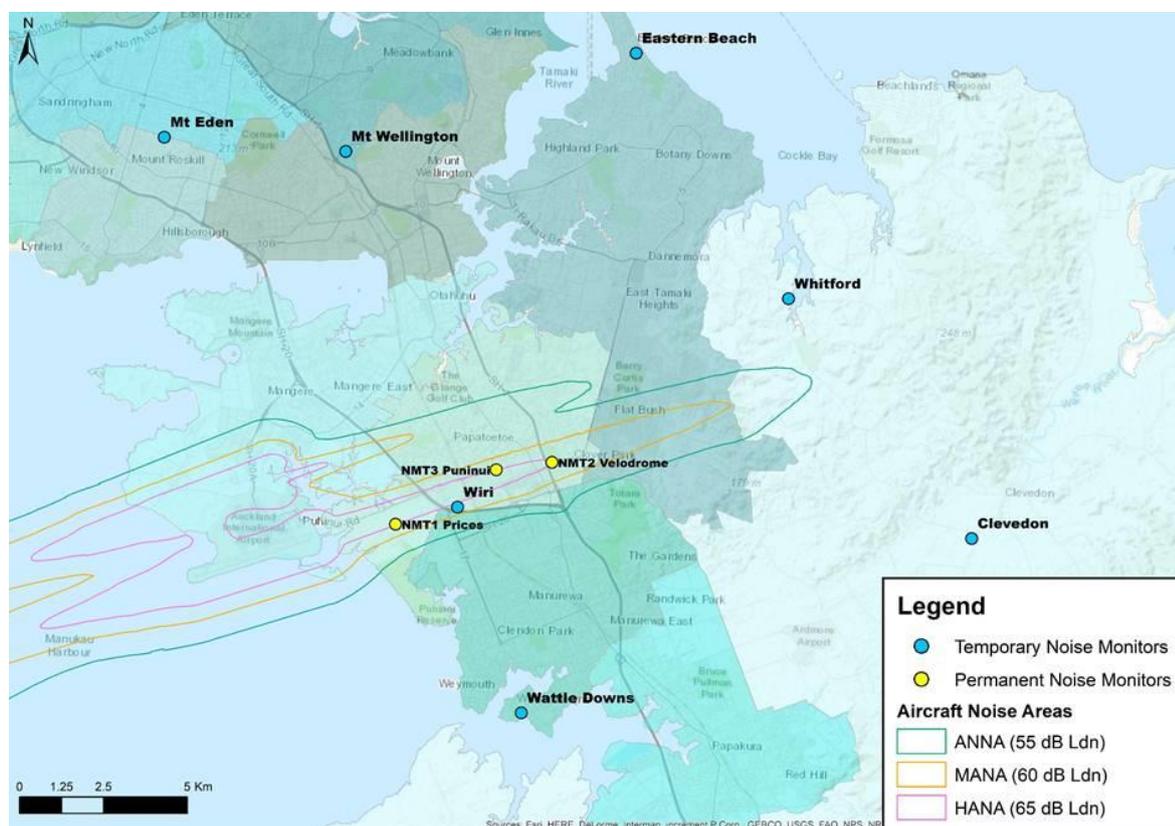
Future Required Noise Monitoring

Prior to the northern runway becoming operational, Auckland Airport will be required to deploy an additional two permanent noise monitors to measure noise associated with the northern runway. The northern runway noise monitors are required to be located at points in the MANA with the purpose of calculating the noise level at the MANA boundary.

It is important to note that under Designation 1100, Auckland Airport is not required to install any additional monitors over and above the required three for the existing southern runway and two for the northern runway once it is operational.

Considerations for Placement of Temporary Monitors

Factors which are considered in the location of the temporary monitors, include:

- Monitoring of areas under future/proposed SMART approaches
- Monitoring of current SMART approaches
- Assessment of areas where a number of SMART approaches intersect – for example Mt Eden given its proximity to LOSGA
- Auckland Airport operational requirements

Monitoring of future/proposed SMART approaches

In order to assess whether there is a change in the noise profile when a new SMART approach is introduced it is important to carry out monitoring of an area under the proposed flight path. This allows data to be collected that acts as a benchmark from which to assess the changes generated by the approach.

Monitoring of current SMART approaches

During a trial of a new SMART approach, noise monitors are required to determine the noise impact of the proposed approach. In addition, once a trial has become permanent (and after any changes that have been made to the approach following public consultation) it is important to continue monitoring of the approach for between six and twelve months (depending on the issues raised) to allow an effective analysis of the noise implications of the permanent approach.

Assessment of areas where flight paths intersect

In order to obtain a comprehensive level of noise monitoring it is useful to place monitors in areas where SMART approaches intersect and therefore use the data captured from one monitor to assess more than one approach. An example of this is the current monitor at Mt Eden which covers the LOSGA waypoint.

Auckland Airport operational requirements

There are requirements from an operational perspective to utilise noise monitor(s) in order to provide base line noise monitoring data. On this basis a monitor may be located at Auckland Airport's discretion. An example of this is to provide short-term analysis of aircraft operations within the airport precinct.

Role of the ANCCG

Auckland Airport is committed to reporting the data from the noise monitors at the ANCCG, advising the group and if necessary relevant Local Boards and interested parties when monitors are relocated. The ANCCG may also propose to move specific monitors. Auckland Airport will consider such requests within the parameters set out above.